

EntraPass Special Edition Administration Guide



Building Technologies & Solutions

D29011093R001

www.kantech.com

2021-06-21

8.40



D29011093R001

Contents

Privacy notice.....	17
Copyright.....	17
Release Notes 8.40.....	18
Cybersecurity improvements.....	18
Video server connections use HTTPS protocol.....	18
KT-2 Two-Door Controller.....	18
Technical support.....	19
How to.....	21
How to create a backup.....	21
How to create a badge.....	21
How to create a card.....	21
How to create a schedule.....	22
How to create a simple report.....	22
How to create an access level.....	22
How to print a list of cards.....	22
How to print a list of access levels.....	23
How to print a list of doors.....	23
How to set up desktops.....	23
How to use shortcut keys.....	23
How to set up the ioSmart.....	24
How to configure an ioSmart reader on the operation tab.....	24
FAQ.....	26
Can I use an input to unlock an elevator floor or a group, and how long will it remain unlocked?.....	26
Is it possible to import access levels?.....	26
What happens when we save card pictures on a hard drive instead of the server database?.....	26
What is the difference between one time access and temporary unlock door for the KT-100, KT-200, KT-300, KT-1, KT-2, and KT-400?.....	26
Why do we use card access groups?.....	26
Introduction.....	27
What is EntraPass?.....	27
Kantech Advantage Program (KAP).....	27
Kantech IP Link.....	27
KT-100, KT-200, KT-300, KT-1, KT-2, and KT-400 controllers.....	27
KT-400 controller.....	28
Expansion modules for the KT-400.....	28
Kantech ioSmart card reader.....	28
Kantech Telephone Entry System.....	28
Express setup.....	28
Elevator control capability.....	29
Integrated badging.....	29

Interactive floor plans.....	29
Configurable desktops by operator.....	29
Interfacing with external alarm panels.....	29
In/Out feature.....	29
Visual diagnostics.....	29
Enhanced video integration.....	29
Vocabulary editor.....	29
Installation.....	30
Minimum system requirements.....	30
Operating system compatibility.....	30
Additional requirements.....	30
Security hardening guide.....	30
System installation.....	31
Getting started.....	33
Basic functions.....	33
Finding components.....	33
Using the extended selection box.....	34
Selecting components.....	35
Printing a list or report.....	35
Viewing component links.....	36
Floating windows.....	36
Deleting an item.....	36
Viewing component links.....	37
EntraPass toolbar.....	37
Express setup.....	38
Session Start and End.....	39
Starting the EntraPass workstation.....	39
Accessing Information on the Server Workstation Connection Status.....	39
Modifying your Work Area Properties.....	39
Desktops.....	41
Alarms Desktop.....	41
Defining an Alarms Desktop.....	41
Viewing System Alarm Messages.....	42
Displaying Alarm Desktops Automatically.....	43
Acknowledging Alarms/Events.....	44
Automatic Acknowledgement.....	44
To Acknowledge an Alarm Message.....	44
To Acknowledge Alarms from the Alarms Desktop.....	45
Mandatory Alarm Comment.....	45
Changing desktop events.....	45
Changing the Display Properties.....	45
Custom Report Desktop.....	46
Configuring a Custom Reports Desktop.....	46

Comment Entry and Display.....	47
Playing archived video recordings from a Desktop Message list.....	47
Customizing Event Display in the Message Desktops.....	47
Filtered Messages Desktop.....	48
Configuring a Filtered Messages Desktop.....	49
Graphic desktop.....	49
Viewing Graphics in the Graphic Desktop.....	49
Message List Desktop.....	50
Viewing and Sorting System Events.....	51
Customizing Event Display in the Message Desktops.....	51
Performing Tasks on System Messages.....	53
Add, Modify or Delete Tagged Events.....	54
Picture Desktop.....	55
Modifying Pictures Display Options.....	55
Specific Desktop Customizing.....	56
Customizing a Desktop for a “Full Access” Operator.....	56
Customizing a Desktop for a “Read-Only” Operator.....	57
Transferring a Customized Desktop.....	57
Desktops Colors.....	57
Status.....	58
Database status.....	58
Graphic Status.....	59
Viewing a Controller Status.....	59
Numerical Status.....	60
Text Status.....	60
Displaying a Component Status.....	61
Video server status.....	61
Viewing the video server’s full status.....	62
Operations.....	64
Manual operations on controllers.....	64
Selecting a Controller.....	65
Performing a Controller Soft Reset.....	65
Performing a Controller Hard Reset.....	65
Reloading a Controller Manually.....	66
Manually clearing buffered events.....	66
Resetting Cards In Counters or all Controller local areas.....	66
Calculating Number of Cards In.....	66
Card Location.....	66
Resetting Cards In Counters or all Controller local areas.....	67
Requesting unassigned modules.....	67
Full status.....	67
Module status.....	67
Edit.....	67

Manual operations on doors.....	67
Selecting a Door or a Door Group.....	68
Locking a Door Manually.....	69
Unlocking a Door Manually.....	69
Unlocking a Door Temporarily.....	69
Resetting a Door Schedule.....	69
Enabling a Door Reader.....	69
Disabling a Door Reader.....	69
Modifying access level schedule.....	70
Manual operations on elevator doors.....	70
Selecting an Elevator Door.....	71
Locking Floors from Elevator Doors.....	71
Unlocking Floors from Elevator Doors.....	71
Unlocking Floors from Elevator Doors Temporarily.....	72
Resetting an Elevator Door Schedule.....	72
Enabling an Elevator Floor.....	72
Disabling an Elevator Floor.....	72
Manual operations on gateway.....	72
Redundant gateway operations.....	73
Manual operations on inputs.....	73
Performing Manual Operations on Inputs.....	73
Returning an Input to Its Normal State Manually.....	74
Stopping Monitoring an Input.....	74
Stopping Input Supervision (Shunt) Temporarily.....	74
Manual operations on integrated panels.....	74
Manual operations on action scheduler.....	75
Programming the Action scheduler.....	75
Programming the Action scheduler from the Door or Relay windows.....	76
Printing the Action scheduler calendar.....	76
Manual operations on relays.....	77
Selecting Relays.....	77
Deactivating a Relay Manually.....	78
Activating a Relay Manually.....	78
Activating a Relay Temporarily.....	78
Resetting a Relay Schedule.....	78
Manual operations on sites.....	78
Performing Manual Operations on a Site/connection.....	79
Manual operations on view roll call.....	79
Users.....	81
Access Levels Definition.....	81
Badge Designing.....	81
Creating a Badge Template.....	81
Printing Badges.....	87

Card access groups definition.....	88
Card Printing.....	88
Adding Comments to a Card.....	90
Cards definition.....	90
Issuing a new card.....	90
Card audit trail.....	91
Quick Access to Door List per Card.....	92
Creating New Cards Using the “Save As” Feature.....	93
Issuing Cards Using the “Batch Load” Feature.....	93
Viewing and Verifying PINs.....	93
Card handling.....	94
Finding a card using the toolbar search.....	94
Finding a card using the card search window.....	94
Editing a card.....	95
Deleting a card.....	95
Customizing Card Information Fields.....	95
Cardholder Access Levels Assignment.....	96
Access exception.....	97
Card options definition.....	97
Adding Comments to a Card.....	98
Assigning Pictures and Signatures.....	98
Assigning a Picture from a File.....	98
Assigning a Picture Using a Video Camera.....	98
Importing a signature from a file.....	99
Adding a Signature from a Signature Capture Device.....	99
Working with Photos and Signatures.....	99
CSV Files Import and Export.....	100
Using a Predefined Pattern.....	101
Creating a New Import/Export Pattern.....	101
Exporting Cards.....	102
Importing Cards.....	103
Correcting Import/Export Errors.....	103
Customizing Card Information Fields.....	103
Issuing a new card in enhanced user management environment.....	104
Issuing Cards Using the Batch Load Feature.....	105
Last Transactions Display.....	105
Viewing the Last Transaction.....	106
Quick Access to Door List per Card.....	107
Tenants List.....	107
Creating a New Tenants List.....	107
Adding new tenants to the list.....	107
Importing a tenant list.....	109
Exporting a tenant list.....	110

Validating card access.....	110
Definition.....	112
Floors Definition.....	112
Graphics Definition.....	112
Defining Components of a Graphic.....	112
Designing the Background for the Graphic Window.....	113
Assigning System Components to Graphic Icons.....	114
Printing System Components and Graphics.....	114
Holiday Definition.....	114
Schedules Definition.....	115
Defining a Schedule.....	116
Groups.....	117
Access level groups grouping.....	117
Trigger group creation.....	117
Controller group creation.....	117
Door group creation.....	118
Floor group creation.....	118
Input group creation.....	119
Relay group creation.....	119
Devices.....	120
Application Configuration.....	120
Configuring an Application.....	121
Defining the host modem and keypad delays.....	123
Change site labels.....	123
Connection configuration.....	123
Setting up communication timing.....	124
Configuring a Direct RS-232 Connection Type.....	124
Configuring an IP device connection type.....	125
Configuring an Ethernet Polling Connection Type.....	127
Configuring a Dial-Up (RS-232) Modem Connection Type.....	127
Migrating KT-Standalone backup data to an EntraPass server.....	128
Controllers configuration.....	130
Unassigned modules.....	130
Configuring general parameters for Kantech controllers.....	130
Changing controller type.....	133
Configuring Specific Controller Parameters.....	134
Configuring the status relay activations.....	135
Configuring licensed wireless doors.....	135
Defining Controller Options.....	137
Supervision Schedule.....	139
KT-200.....	139
KT-300.....	140
KT-400.....	142

KT-1/KT-2.....	146
Video gateway or video vault enrollment.....	147
Adding an ioSmart reader.....	148
Controller event buffer overflow message.....	148
Expansion modules setup.....	149
Doors configuration.....	150
Defining general parameters for a door.....	150
Defining Door Keypad Options.....	152
Defining Door Contact Options.....	153
Defining REX (Request to Exit) Options.....	154
Defining Interlock Options (Mantrap).....	155
Defining elevator doors.....	156
Configuring Door Events.....	157
Defining Door Options for Controllers and the KTES.....	157
Configuring external alarm system interfaces.....	158
Managing door access levels.....	159
Reader Templates.....	160
Input configuration.....	160
Defining Input.....	161
Defining Relays and Inputs.....	162
Defining Tamper and Trouble.....	163
Defining an Input for an Elevator Door.....	163
Enabling Remote Event Reporting.....	163
Integrated component configuration.....	164
Integrated panel configuration.....	166
General tab.....	166
Panel component tab (Bentel, DSC Maxsys, PowerSeries Neo and Pro).....	169
RS-232 tab.....	171
Kantech Telephone Entry System (KTES) Configuration.....	171
Defining general parameters for the KTES.....	171
Defining the Kantech Telephone Entry System parameters.....	172
Defining the Language and Welcome Message Parameters.....	174
Defining the Options Parameters.....	175
Defining the status relay parameters.....	176
Defining the Pager Options.....	176
Configuring Tenant Administration Level Parameters.....	178
Output device configuration.....	178
Defining General Options for an Output.....	178
Associating Events with Auxiliary Outputs.....	179
Relay configuration.....	179
Defining relays.....	179
Setting up Communication Timing.....	180
Site configuration.....	180

Video.....	181
Camera definition.....	181
Defining a Camera.....	181
Associating a Camera with an Icon.....	182
Defining Presets and Patterns.....	182
Defining Events Recorded by a Camera.....	182
Current recording.....	183
Viewing the current recordings.....	184
Viewing exported videos.....	184
Exporting Video Files.....	184
Finding video events.....	185
Recording parameters.....	186
Setting Up Recording Parameters.....	186
Setting Up Stop Recording Trigger Parameters.....	187
Video desktop.....	188
Displaying a video view.....	188
Video event list.....	188
Using the Video Event List.....	189
Finding video events.....	189
Playing Video Segments.....	189
Linking Video Clips with Key Frames.....	190
Exporting Video Files.....	190
Protecting a Video with a Password.....	191
Video playback.....	191
Viewing a Video Playback.....	191
Video server configuration.....	192
Defining the video server communication settings.....	192
Enhancing the Security of Video Servers.....	194
Remote Video Connection.....	195
Defining the EntraPass Video Vault.....	195
Video triggers.....	195
Defining Video Triggers.....	195
Video Views Creation and Modification.....	196
Modifying a Video View.....	196
Video views definition.....	197
Defining video view general parameters.....	197
System.....	200
Database Structure Definition.....	200
Viewing the Database Components.....	200
Event Parameters Definition.....	201
Defining events parameters.....	201
Viewing Default Parameters.....	202
Deleting and Restoring Associations.....	202

Printing Event Parameters.....	203
Instructions definition.....	203
Defining an Instruction.....	203
Message Filters Definition.....	203
Defining Event for a Message Filter.....	204
Operators definition.....	205
Creating or editing an operator.....	205
Security level definition.....	206
Creating and modifying operator security levels.....	207
Defining Login Options for an Operator.....	207
Hiding Card Information.....	208
Assigning Video Custom Buttons.....	209
Workspace Definition.....	209
Workspace Filtering.....	210
Defining Gateways and Sites.....	210
Defining Schedules.....	210
Defining Controllers.....	210
Defining Doors.....	211
Defining Relays.....	211
Defining Inputs.....	211
Defining Access Levels.....	211
Defining Alarm Systems.....	211
Defining Card Filters.....	212
Defining Reports.....	212
Defining Graphics.....	212
Defining Operators.....	213
Defining Badge Layouts.....	213
Defining Workspaces.....	213
Specifying Security Level.....	213
Defining Video Servers.....	214
Defining Cameras.....	214
Defining Video Views.....	214
Defining Panels.....	214
Defining Panel Components.....	215
Defining events.....	215
Operators in Workspace.....	215
Audit.....	215
Reports.....	218
Archive viewing.....	218
Displaying a Report.....	218
Previewing Reports.....	218
Previewing In/Out Reports.....	219
Card Use Report.....	220

Automatic Report Schedule.....	220
Automatic Report Output.....	220
Custom reports definition.....	221
Using the Default “All Events” Report.....	221
Defining a Custom Report.....	221
Defining a Report Output Format.....	224
Historical and Card use reports.....	224
In/Out Reports.....	225
Defining Automatic Report Schedules.....	226
Specifying additional options for automatic reports.....	227
In/Out reports definition.....	227
Defining In/Out Reports.....	227
In/Out reports request.....	228
Requesting a In/Out Report Manually.....	228
Operations on In/Out.....	229
Adding a Transaction in the In/Out Database.....	229
Previewing In/Out Reports.....	230
Previewing Reports.....	231
Quick Report Definition.....	232
Defining a Quick Report.....	232
Report Log.....	233
Report state.....	234
Report state fields.....	234
Contextual menu of in process reports.....	234
Requesting Reports.....	235
Roll Call Reports.....	236
Functionalities.....	236
Roll Call Report generation.....	236
Specifying additional options for automatic reports.....	237
Options.....	238
Backup Scheduler.....	239
Scheduling Automatic Backups of the System Database.....	239
Dealer Information.....	241
About box details.....	241
KAP reminder.....	241
Defining a card display format.....	242
Changing from a 24-bit to 32-bit Global Card Format.....	243
Auto conversion.....	244
Integration.....	244
Multimedia devices configuration.....	244
Selecting an Alarm Sound.....	244
Defining Video Options.....	245
Setting Up the Signature Capture Device.....	245

Printers selection and configuration.....	246
Selecting and Setting Up a Log Printer.....	246
Selecting and Setting Up a Report Printer.....	246
Selecting and Setting Up a Badge Printer.....	247
Registration.....	247
Selecting and Setting Up a Badge Printer.....	247
System date and time modification.....	247
System language selection.....	248
Changing the System Language.....	248
System parameters configuration.....	248
Server Parameters.....	248
Firmware Parameters.....	250
Image Parameters.....	252
Report Parameters.....	253
Video Parameters.....	254
Time Parameters.....	256
Workstation and Server.....	256
Integration.....	257
Web Interface.....	257
User Name Format.....	258
Backups.....	259
Creating Backups of Type D, A, T and V.....	259
Restores.....	260
Log.....	260
Error Log.....	261
Utilities.....	262
Database utility.....	262
Running the Database Utility.....	262
Express setup program.....	264
Configuring a multi-site gateway connection using express setup.....	264
Configuring a Controller Using Express Setup.....	267
Configuring a KTES Using Express Setup.....	268
Defining Relays.....	269
Defining Inputs.....	269
Defining auxiliary outputs (LED and buzzer).....	269
Quick report viewer.....	270
Vocabulary editor.....	270
Installing the Vocabulary Editor.....	271
Translating the system language.....	271
Integrating the custom language in EntraPass.....	272
Distributing the New System Vocabulary.....	273
Updating the system vocabulary.....	273
Upgrading the System Vocabulary.....	273

EntraPass icons.....	274
Alarm Systems.....	274
Alarm system is in alarm.....	274
Alarm system is armed.....	274
Alarm system is armed with input in alarm (forced arming).....	274
Alarm system is in arming request delay.....	274
Alarm system is disarmed.....	275
Alarm system is in entry delay.....	275
Alarm system is in "Exit" delay.....	275
Alarm system status is not yet known.....	275
Alarm system is in "Postpone" mode.....	275
Controllers.....	276
Status unknown.....	276
Controller AC failure.....	276
Controller Polling Malfunction.....	276
Controller AC failure and Tamper Switch in "alarm".....	276
Controller is not communicating.....	277
Controller communication is regular (no problem).....	277
Controller is in "Reset" and AC failure.....	277
Controller is in "Reset", "AC failure" and "Tamper in alarm".....	277
Controller is in reset and tamper in alarm.....	278
Controller tamper in alarm.....	278
Controller reloading firmware.....	278
KT-400 controller trouble.....	278
Doors.....	278
Relays.....	283
Relay activated by alarm system in alarm.....	283
Relay activated by alarm system function.....	283
Relay activated by alarm system delay.....	284
Relay activated by an event.....	284
Relay temporarily activated by an event.....	284
Relay activated by an input.....	284
Relay temporarily activated by an input.....	284
Relay activated by an operator.....	285
Relay temporarily activated by an operator.....	285
Relay temporarily activated by a schedule.....	285
Relay deactivated.....	285
Inputs.....	285
Input activated—Not supervised.....	285
Input activated—Supervised.....	286
Input activated—Not supervised manual operation.....	286
Input activated—Supervised manual operation.....	286
Input activated—Supervised temporarily manual operation.....	286
Input in alarm—Not supervised.....	287

Input in alarm—Shunted by operator.....	287
Input in alarm—Supervised.....	287
Input in alarm—Supervised by operator.....	287
Input OK—Not supervised.....	288
Input OK—Shunted by operator.....	288
Input OK—Supervised.....	288
Input OK—Supervised by operator.....	288
Controller connection.....	288
Connection status is not yet known.....	289
Controller connection connected.....	289
Controller connection connected and in “Reload Data”.....	289
Controller connection—Communication Failure.....	289
Gateways.....	289
Gateway—Communication Failure.....	289
Gateway in “Reload Data”.....	290
Gateway—Communication Failure during Reload Data.....	290
Gateway communication is regular (no problem).....	290
Gateway Trouble.....	290
Gateway Trouble when Reloading.....	291
Gateway OK—communicating.....	291
Gateway in “Reload Data”.....	291
Gateway—Communication Failure.....	291
Gateway—Reload KT-NCC Firmware.....	291
EntraPass Application.....	292
Application status is not yet known.....	292
Application attempts communication.....	292
Application—Communication Failure.....	292
Others.....	292
Database Initialization.....	292
Data not available.....	292
No status available.....	293
Output status is not yet known.....	293
Status unknown.....	293
Error in process.....	293
Undefined Component.....	293
EULA.....	295
TYCO INTERNATIONAL LTD.....	295

Privacy notice

The personal data processed by this application by Johnson Controls as controller will be processed in accordance with the Johnson Controls Privacy Notice at <https://www.johnsoncontrols.com/legal/privacy>. By installing this software, you acknowledge that you have read and understood the Johnson Controls Privacy Notice. If your consent is required under applicable law for the processing and/or transfer (including international transfer) of such personal data, and strictly to the extent that consent is required under applicable law, your above actions are your consent.

Copyright

© 2021 Johnson Controls. All rights reserved. JOHNSON CONTROLS, TYCO, and KANTECH are trademarks of Johnson Controls.

Release Notes 8.40

See the following list of new features for this release.

Cybersecurity improvements

To improve the security of EntraPass, the following updates are available with version 8.40.

Video server connections use HTTPS protocol

All new video server connections now use HTTPS protocol by default. For more information, see [Defining the video server communication settings](#).

KT-2 Two-Door Controller

Kantech is launching the new KT-2 Two-Door Controller. See the following list of features.

- You can use the KT-2 to control the entry of two doors or to control the entry and exit of one door. It replaces the KT-300 which is due to reach its end-of-sale date.
- When used with EntraPass, the KT-2 has Wi-Fi compatibility.
- The KT-2 is compatible with all of Kantech's existing controllers, including the KT-1 and the KT-400, and the KT-MOD-IO16 expansion module.
- The KT-2 integrates with the following devices:
 - DSC PowerSeries Neo and Pro panels over IP
 - DSC PowerSeries panels over RS232

Technical support

If you cannot find the answer to your question in this manual, contact your system installer. Your installer is familiar with your system configuration and may be able to answer your questions.

If you require additional information, email access-support@jci.com during business hours, or go to: https://www.kantech.com/Support/Contact_Technical_Support_Advanced.aspx.

See the following table for the technical support phone numbers and opening hours in your region.

Table 1: Technical support contact details

North America	GMT - 05:00	08:00 to 20:00
USA and Canada	Toll free	+1 888 222 1560
	Direct	+1 450 444 2030

Latin America	GMT - 03:00	08:00 to 20:00
Argentina, Buenos Aires	Direct	+54 11 5199 3104
Brazil, Sao Paulo	Direct	+55 11 3181 7377
Chile, Santiago	Direct	+56 2 3210 9662
Colombia, Bogota	Direct	+57 1 344 1422
Colombia, Cali	Direct	+57 2 891 2476
Colombia, Medellin	Direct	+57 4 204 0519
Costa Rica, National	Direct	+506 4 000 1655
Dominican Republic, Santo Domingo	Direct	+1 829 235 3047
El Salvador, San Salvador	Direct	+503 2 136 8703
Guatemala, Guatemala City	Direct	+502 2 268 1206
Mexico, Mexico City	Direct	+52 55 8526 1801
Panama, Panama City	Direct	+507 836 6265
Peru, Lima	Direct	+51 1 642 9707
Venezuela, Caracas	Direct	+58 212 720 2340

Asia	GMT + 08:00	09:00 to 17:00
	Toll free	+800 2255 8926
China	Direct	+86 21 6163 8644
India	Direct	+91 80 4199 0994
Australia	Direct	+1 800 580 946
Oceania and New Zealand	Direct	+64 9942 4004

EMEA	GMT + 01:00	08:00 to 18:00
	Toll free	+800 2255 8926
	Direct	+31 475 352 722
United Kingdom	Direct	+44 330 777 1300
Israel	Direct	+972 77 220 1350

EMEA	GMT + 01:00	08:00 to 18:00
Spain	Direct	+900 99 31 61
Denmark	Direct	+45 4494 9001
France	Direct	+0800 90 79 72
Germany	Direct	+0800 1806 757
Italy	Direct	+39 02 3051 0112
Belgium	Direct	+0800 76 452
Ireland	Direct	+1800 94 3570
Nordic Countries	Direct	04494 9001
Greece	Direct	00800 3122 9453
South Africa	Direct	+27 10 100 3292
Russia	Direct	+81 0800 2052 1031
Turkey	Direct	+00800 3192 3007
United Arab Emirates	Direct	(0)800 0310 7123
Bahrain	Direct	(0)800 04127
Kuwait	Direct	(0)22062915
Qatar	Direct	(00) 800100841
Egypt	Direct	(0) 8000009697
Lebanon	Direct	+96 1855 2343 677
Oman	Direct	(00) 8007 4364
Lebanon	Direct	01 426 801, new dial tone and then dial 8552343677
KSA	Direct	+96 6800 8500 509

How to

Use this section to find quick solutions to common tasks in EntraPass.

How to create a backup

1. On the EntraPass server, click the **Options** tab.
2. Click **Backup Scheduler**.
3. To choose the type of data that you want to back up, click one of the following tabs: **Data**, **Archive**, **In/Out** or **Video Event**.
4. Select the **Automatic backup** check box.
5. In the **Backup folder** pane, choose where to save the backup.
6. In the **Backup frequency** pane, choose how often you want to back up the system.
7. To start a backup immediately, select the **Now** check box.

Result

For more information about configuring backups, see [Backups](#).

How to create a badge

1. On the EntraPass workstation, click the **Users** tab.
2. Click **Badge**.
3. In the **Badge** window, click the **New** icon.
4. In the **Badge properties** window, choose the badge properties and click **OK**.
5. In the **English** and **French** fields, enter a name for the badge.
6. In the lower center of the window, click **Click here to modify the badge layout**.
7. In the **Badge design** window, choose the elements that you want to include in the badge.
8. To save your badge design choices, from the menu, click **Layout** and click **Exit**.
9. Click **Save**.

Result

For more information about configuring badges, see [Badge Designing](#).

How to create a card

About this task:

- **Important:** A connection must exist prior to creating a new card in EntraPass.

An access level must exist prior to creating a new card in EntraPass. For more information, see [How to create an access level](#).

1. On the EntraPass workstation, click the **Users** tab.
2. Click **Card**.
3. In the **Card** window, click the **New** icon.
4. On the **Card number** tab, in the **Card # 1** field, enter the card number and press `Enter`.
5. In the **Card user name** field, enter the card user name.
6. Click the **Access level** tab.
7. From the **Access level** list, select an access level.
8. Click **Save**.

Result

For more information about creating cards, see [Cards Definition](#).

- ① **Note:** If you activated enhanced user management, see [Issuing a new card in enhanced user management environment](#).

How to create a schedule

1. On the EntraPass workstation, click the **Definition** tab.
2. Click **Schedule**.
3. In the **Schedule** window, click the **New** icon.
4. In the **English** and **French** fields, enter a name for the new schedule.
5. Click **Save**.
6. In the **Start time** and **End time** columns, enter start and end times for the schedule.
7. Select the days of the week to apply to the schedule.
8. Select up to a maximum of four holidays to apply to the schedule.

Result

For more information about defining holiday, see [Holiday Definition](#).

How to create a simple report

1. On the EntraPass workstation, click the **Report** tab.
2. Click **Quick Report**.
3. In the **Quick report** window, from the **Event** list, select which events to include in the report.
4. In the right pane of the window, in **Report name** field, enter a name for the report.
5. Click **Execute**.

For more information about creating reports, see [Quick Report Definition](#).

How to create an access level

About this task:

- **Important:** A Connection must exist prior to creating a new access level in EntraPass.

1. On the EntraPass workstation, click the **Users** tab.
2. Click **Access level**.
3. In the **Access level** window, from the **Connection** list, select a gateway or connection.
4. Click the **New** icon. The **Card number** field is enabled.
5. In the **English** and **French** fields, enter a name for the access level.
6. Click **Save**.

For more information about creating cards, see [Access Level Definition](#).

How to print a list of cards

1. On the EntraPass workstation, click the **Users** tab.
2. Click **Card**.
3. In the **Card** window, click the **Print** icon.
4. From the **Card index** list, select the card type.

5. **Optional:** You can specify a card number range and filters, and select the card fields to be printed. For more information, see [Card Printing](#).
6. Click **Print**.
7. From the list, select a printer, and click **OK**.

How to print a list of access levels

1. On the EntraPass workstation, click the **Users** tab.
2. Click **Access level**.
3. In the **Access level** window, click the **Print** icon.
4. From the **Select Site/Connection/Gateway** list, select a site, connection, or gateway.
5. In the **Access level** pane, select the access levels to print.
6. Click **Print**.
7. From the list, select a printer, and click **OK**.

How to print a list of doors

1. On the EntraPass workstation, click the **Devices** tab and click **Door**.
2. In the **Door** window, click the **Print** icon.
3. From the **Site/Connection/Gateway** list, select a site, connection, or gateway.
4. In the **Door** pane, select the doors to print.
5. Click **Print**.
6. From the list, select a printer, and click **OK**.

How to set up desktops

1. On the EntraPass workstation, click the **Desktops** tab.
2. Right click on one of the desktop buttons and click **Properties**.
3. In the **Desktop name** field, enter a name for the desktop.
4. Select the desktops to display.
5. To save your changes, click **OK and GO**.

For more information about configuring desktops, see [Desktops](#).

How to use shortcut keys

About this task:

Use shortcut keys for faster operation. The following table lists the EntraPass shortcut keys.

Table 2: EntraPass shortcut keys

Key	Active from location	Function
F1	Any menu	Help
F2	Any list	Extended selection
F3	Any menu	Display all open windows
F4	Any menu with a drop-down list	Open list
F5	Where available	Refresh
F8	Anywhere	Global search

Table 2: EntraPass shortcut keys

Key	Active from location	Function
F10	Anywhere	Log on/Log off
F11	Anywhere	Workspace
F12	Anywhere	Switch account

How to set up the ioSmart

About this task:

Connect the Kantech ioSmart card reader to a supporting KT-400, KT-1, or KT-2 controller. The ioSmart supports both Wiegand and RS-485 connections to the controller.

If you connect the ioSmart using a Wiegand connection, use the Express Setup Program to configure the reader. For more information, see [Express setup](#).

If you connect the ioSmart using an RS-485 connection, complete the following steps:

1. On the EntraPass workstation, click the **Devices** tab, and click **Controller**.
 2. From the **Controller** list, select a controller, and click on the **ioSmart** tab.
 3. Click **+Add** to add an ioSmart reader to the controller.
 4. In the **Serial number** field, enter the ioSmart reader's serial number.
 5. From the **Door** list, select the associated door.
 6. If the ioSmart reader includes a keypad, select the **Keypad** check box.
 7. Click **Terminals** to configure the ioSmart reader's inputs and outputs.
 8. In the **Setup terminals** window, in the **I1** and **I20** panes, select the terminal functions.
 - **Disabled**
 - **Single input**
 - **Dual input**
 - **Lock output**
 - **Relay**
- ① **Note:** You can configure I1 and I20 for a maximum of four inputs, using both I1 and I20 in dual inputs mode, or for two inputs and one output, a lock output or a relay.
9. Click the **KT-1/KT-2** or the **KT-400** tab, and, from the **RS-485 baud rate** list, select the appropriate baud rate for your system.
 10. In the **Reader template** field, click the **Three dot** icon, and select a reader template.
 11. To configure the reader template, on the EntraPass workstation, click the **Devices** tab, and click **Reader template**.

How to configure an ioSmart reader on the operation tab

You can also configure the ioSmart reader on the operation tab.

1. On the EntraPass workstation, click **Operation**.
2. Click **Controller**.
3. In the **Connection** pane, select the appropriate device.
4. In the **Controller** pane, right-click the controller, and click **Request unassigned modules**.
5. Right-click a controller and click **Unassigned Module**. This creates a **Controller unassigned module requested by operator** event on the desktop.

6. Right-click the event to assign the ioSmart reader. The serial number of the ioSmart reader is automatically filled on the **Configuration** tab.
7. **Optional:** To view the status of the configured ioSmart reader, on the EntraPass workstation, click **Operation**, and click **Door**. In the **Door** pane, right-click the appropriate door.
8. **Optional:** To view the status of all configured ioSmart readers that are connected to a controller, on the EntraPass workstation, click **Operation**, and click **Controller**.

FAQ

Use this section for quick answers to frequently asked questions about the EntraPass system.

Can I use an input to unlock an elevator floor or a group, and how long will it remain unlocked?

Yes, an input can be used to unlock a single floor or group. The floor or the group will follow the unlocked time for the door. The default is 10 seconds, which can be modified.

Is it possible to import access levels?

Access levels cannot be imported.

What happens when we save card pictures on a hard drive instead of the server database?

A parameter allows you to save cards and visitor card pictures, signatures and background graphics, to a file instead of directly to the database. We are offering this option for sites that have large banks of pictures and graphics. The picture, signature and graphic database can currently contain up to 2 GB of data each. The parameter can be used in instances where a connection may need more space to save pictures, signatures and graphics.

What is the difference between one time access and temporary unlock door for the KT-100, KT-200, KT-300, KT-1, KT-2, and KT-400?

One time access on the KT-100, KT-200, KT-300, KT-1, KT-2, and KT-400

Perform this command using the operation door menu and it will follow the unlock time of the door. If the door stays open longer than the unlock time, it will generate an event pre alarm door open too long, and if it is not closed at the end of the open time it will generate door open too long.

Temporary unlock on the KT-100, KT-200, KT-300

Perform this command using the operation door menu and it will follow the unlock time of the door. If the door stays open longer than the unlock time, it will generate an event pre alarm door open too long, and if it is not closed at the end of the open time it will generate door open too long.

Temporary unlock on the KT-1, KT-2, and KT-400

Perform this command using the operation door menu. After the door is open, if it goes beyond the set time for the temporary unlock, it will generate a different event door alarm on relock.

Why do we use card access groups?

Pre-programmed card access groups allow quick selection of access levels for various sites of the system. A card access group can be recalled during card programming, instead of re-entering the access levels for each connection. It is only card access group information that is associated with the card; therefore, you can modify the card access group information without modifying card access.

Card access groups can be imported from a CSV file.

Introduction

Use this section for an overview of what EntraPass does, its main features, and the applications associated with it. For global contact details, see [Technical support](#). The main features include the following:

- [Kantech Advantage Program \(KAP\)](#)
- [Kantech IP Link](#)
- [KT-100, KT-200, KT-300, KT-1, KT-2, and KT-400 controllers](#)
- [Kantech ioSmart card reader](#)
- [Kantech Telephone Entry System](#)
- [Express setup](#)
- [Elevator control capability](#)
- [Integrated badging](#)
- [Interactive floor plans](#)
- [Configurable desktops by operator](#)
- [Interfacing with external alarm panels](#)
- [In/Out feature](#)
- [Visual diagnostics](#)
- [Enhanced video integration](#)
- [Vocabulary editor](#)

What is EntraPass?

EntraPass is a comprehensive menu-driven access control software package. The access control system includes components such as door readers, exit detectors, and motion detectors that are professionally installed and electronically controlled. Use system workstations to perform operations such as acknowledging alarms, modifying the system database, and receiving event messages. A supporting advantage of access control is that all system events are carefully archived and can be retrieved easily for inspection purposes.

Kantech Advantage Program (KAP)

KAP provides 12 months of free upgrades and online training for end users. For more information, refer to the Application Note, *New Optional Kantech Advantage Program*, DN1874.

Kantech IP Link

EntraPass is compatible with the Kantech IP Link which provides an Ethernet connection that serves as a polling device that controls the excess bandwidth by communicating to the system only when necessary. The Kantech IP Link's main function is to relay information between the controllers and the gateway.

KT-100, KT-200, KT-300, KT-1, KT-2, and KT-400 controllers

EntraPass is compatible with Kantech KT-100, KT-200, KT-300, KT-1, KT-2, and KT-400 controllers. This has an added benefit when upgrading existing sites that require more flexibility and improved

user interfaces. It also allows installers to select the controller that best suits their customer's needs and budget.

KT-400 controller

The KT-400 is a four-door Ethernet encrypted controller that you can use as a door controller and as an IP communication device for a remote site loop.

Expansion modules for the KT-400

Connect expansion modules to the KT-400 controller to add outputs such as relays and open drain outputs, and inputs. Mixing up input and output expansion modules gives the ability to connect up to 256 inputs and 256 outputs for each KT-400 controller.

- **KT-MOD-REL8:** This is an 8-relay expansion module used as general relays or elevator control outputs. The module supports daisy chaining which can add up to 32 KT-MOD-REL8 modules for a total of 256 external relays for each KT-400 controller.
- **KT-MOD-INP16:** This is an input module that adds up to 16 zones to the KT-400 controller. The module supports daisy chaining; you can interconnect up to 15 KT-MOD-INP16 modules for a total of 240 external inputs for each KT-400. Adding the 16 onboard inputs of the KT-400 gives a total of 256 inputs for each KT-400.
- **KT-MOD-OUT16:** This is an open drain to 12 VDC 16-output module. You can use it for elevator access control (which may require additional hardware). The module supports daisy chaining; you can interconnect up to 16 KT-MOD-OUT16 modules for a total of 256 external outputs for each KT-400.

Kantech ioSmart card reader

The Kantech ioSmart card reader provides card access for users through a KT-400, KT-1, or KT-2 door controller. The ioSmart supports the transmission of card numbers using Wiegand protocol. Supported formats include the standard 32-bit format, the standard 26-bit format, and other Kantech proprietary formats like eXtended Security Format (XSF) and Smartcard Security Format (SSF). To provide an easy upgrade path to customers, some imodels support both the smart card technology and the Kantech ioProx proximity technology.

Kantech Telephone Entry System

Using the Kantech Telephone Entry System (KTES), users can grant visitors access to a building using their own land telephone or cellular telephone. Using an integrated modem, this telephone line can also serve as a programming link or a monitoring link. The KTES functions as a stand-alone unit or as a part of a complete access control system such as EntraPass or any access control system. It can communicate with EntraPass through a multi-site gateway for programming and monitoring. The KTES installation can also include Kantech KT-100, KT-300, KT-1, KT-2, and KT-400 controllers, and any controller that supports a Wiegand interface port. To simplify the process of importing and exporting tenant lists, an automated procedure has been implemented to guide you through the various steps. For information about the installation and the local programming of the KTES, refer to the *KTES Installation Manual*, DN1769, and the *KTES Programming Manual*, DN1770.

Express setup

Installers can use the express setup program to automatically define and configure standard system components. This saves installation time and prevents setup errors. With express setup, the system is fully functional and ready to test the hardware and wiring before the installer makes the customized changes necessary for a particular site.

Elevator control capability

In EntraPass, installers can program up to 64 floors for each elevator cab using expansion devices such as KT-PC4216, or KT-PC4204 (16 floors maximum) with the KT-300, or using expansion devices such as KT-MOD-OUT16, KT-MOD-INP16 or KT-MOD-REL8 with the KT-400. In a multi-tenant building, facility managers can restrict specific floor access to authorized cardholders.

Integrated badging

The integrated badging feature in EntraPass allows users to design and print badges. Pictures and signatures can be imported or, with the necessary devices, captured and incorporated into cards for printing badges.

Interactive floor plans

In EntraPass, you can import and display high-resolution graphics that have been created on CAD-type systems and converted to .jpg or .bmp file types. Using this feature, you can design a graphic-based system that operators can use with minimal training. You can add interactive buttons to floor plans to display component status and allow full manual operation of the component in real-time.

Configurable desktops by operator

In EntraPass, you can assign each operator up to 4 configurable desktops. These desktops display selected windows featuring message events, user photos, filtered events, high-resolution graphics and videos, and alarm instructions. Desktops can contain any combination of windows.

Interfacing with external alarm panels

KT-100, KT-300, KT-1, KT-2, and KT-400 controllers allow users to arm, disarm, and postpone the arming of an external alarm panel. This allows EntraPass to easily integrate with an external alarm system.

In/Out feature

Operators can use the In/Out feature to print or download time sheets in a CSV format to a payroll system.

Visual diagnostics

In EntraPass, you can see a visual representation of the system devices, with conditions updated in real-time, including high resolution floor plans that you can import and display. You can add interactive system buttons to the graphic to display component statuses in real-time. You can perform manual operations from the real-time system graphic.

Enhanced video integration

EntraPass integrates with American Dynamics' Intellex® digital video management system through the powerful Intellex Application Programming Interface (API) to provide real-time video monitoring as well as video playback. You can link video to real-time video monitoring as well as video playback. You can link video to access events and you can record video from one to sixteen cameras from different Intellex units simultaneously. Presets, sequences, dome control and 1x1, 2x2, 3x3, and 4x4 views are available through the EntraPass software. To view a camera directly from a floor plan, double-click the camera or dome button. Operators can configure viewing parameters for digital video applications in EntraPass.

Vocabulary editor

Use the vocabulary editor to translate the EntraPass software into up to 99 languages. By default, EntraPass is available in English, French, Spanish, German, and Italian.

Installation

Use this section to find out what the minimum software and hardware system requirements are for optimum EntraPass performance. Follow the recommendations in the [Security hardening guide](#) for best security practices. For instructions on how to install the system, see [System installation](#).

Minimum system requirements

Operating system compatibility

EntraPass is compatible with the following operating systems:

- Windows Server 2008 R2 Standard/Enterprise
- Windows Server 2012 R2 Standard/Datacenter x64
- Windows Server 2016 Standard and Windows Server 2016 Datacenter
- Windows Server 2019 Standard/Datacenter x64
- Windows 7 Pro/Enterprise/Ultimate, all in 32-bit and 64-bit versions
- Windows 10 Enterprise x86/Windows 10 Enterprise x64

❗ **Note:** Ensure that all operating systems have their latest service packs and updates.

❗ **Note:** Perform software installations with administrator rights.

Ensure that you install the EntraPass software on a computer that meets the following minimum requirements:

- Dual Core processor
- 4GB RAM
- PCI Express 8X graphics card with 64 MB memory and DirectX 9.0 support
- 10/100 Base-T network adaptor EntraPass

Additional requirements

For several applications, you can use the following devices:

- **Video capture card:** to capture user images for card identification
- **Sound card:** to use warning sounds when an alarm is reported
- **Badge printer:** to print badges (Badging)
- **Signature capture device:** to capture signatures (Badging)
- **Log printer:** (dot-matrix or laser) to print events (messages and alarms)
- **Report printer:** (laser) to print reports

Security hardening guide

To ensure the highest level of security for EntraPass, use the following setup, configuration, and installation measures.

⚠ **CAUTION:** Failure to comply with the following security configuration may result in a weakened operational state with related security vulnerabilities.

To comply with security standards, complete the following steps:

1. Deploy EntraPass on a Virtual Local Area Network (VLAN).

2. For an encrypted layer of security during data transit, use Hypertext Transfer Protocol Secure (HTTPS) instead of HTTP. You must obtain a Secure Socket Layer (SSL) certificate from a certificate authority (CA), and generate it for the EntraPass web website. For information about how to implement SSL in internet information services (IIS), refer to the Microsoft website: <https://support.microsoft.com/en-nz/help/299875/how-to-implement-ssl-in-iis>
Note: This link is only for reference; contact Microsoft for support on how to implement SSL.
3. Change default passwords during installation.
4. To isolate EntraPass servers, use a firewall. In the firewall, only open ports that you require to use EntraPass. Block all other internet traffic.
5. To protect your information, store data backups in a secure location.

System installation

1. Before you begin the installation, close all EntraPass applications.
2. Insert the software USB flash drive into a USB port, or the CD-ROM into the CD-ROM drive. If your computer is configured to autorun, the installation program starts automatically. If the installation program does not start automatically, click **Start**, click **Run**, and, in the field, enter `D:\Setup.exe` (D: is the CD-ROM drive).
3. From the **Choose setup language** list, select a language. English is selected by default.
Note: You cannot change the setup (InstallShield) language if you need to perform an EntraPass update or install system components with a different language. To change the setup language, you must remove and re-install the software.
The system and database language depends on the language you select when installing the software. For example, if you select **English**, it is the system default language at start up. You can change the system and database language in the EntraPass Workstation.
4. Click **OK**. The **Welcome** window displays.
 - See the software version you are about to install in the upper left of the window.
 - To verify or modify parameters you have set up, navigate between the installation windows by clicking **Back** or **Next**.
 - You can cancel the installation at any time.
5. Click **Next** to continue the installation.
6. In the **Setup Start** window, select the operations you want to perform. The first set of options are for new installs and the last option is for updates. During the first installation, you can select only one of the install options. We suggest that you select the first install option on the list.
 - **Install Server, Database and Workstation** : Select this option to install the EntraPass Special Edition system. It is greyed out if the application is already installed on the machine.
 - **Update Installed Applications**: This option is greyed out if the system has not been installed previously. To update your EntraPass system, see *Updating EntraPass*.
7. Click **Next**.
8. In the **Serial Number** window, enter the serial number for the EntraPass Special Server or Software. The information is located in the CD-ROM pocket. Make sure to enter the correct digits. The **Next** button activates only if the serial number is valid.

9. Click **Next**.
10. Review the End-User License Agreement (EULA). If you understand and agree with the conditions that are described in the EULA, click **I accept**, or, to cancel the installation, click **I do not accept**.
 - ① **Note:** You cannot complete the installation if you do not accept the EULA.
11. Click **Next**.
12. In the **Customer Information** window, enter the user name and the company name.
13. From the **User Type** list, select one of the following options:
 - Anyone who will use this computer
 - Only the person currently logged in and registered in the system
14. Click **Next**.
15. In the **Choose Destination Location** window, you can keep the selected directory and click **Next**, or select another directory.
 - To change the directory, click **Change**. In the **Choose Folder** window, select the new installation directory.
 - Type the destination directory or double-click the directory structure to find the destination directory, and click **OK**. In the **Choose Destination Location** window, the path to the directory updates.
16. Click **Next**.
17. In the **Ready to Install the Program** window, review the parameters that you set up. If everything is ready for the installation, click **Next**, or if you want to change a parameter, click **Back**.
18. In the **Installation setup** window, select the primary and secondary languages, and click **OK**. This defines the language that is used to build the database and the languages that are used to run EntraPass, and click **OK**.
19. You can select to restart your computer at this time or do it later.
20. Remove the USB flash drive or the CD-ROM.
21. Click **Finish** to complete the installation.
 - ① **Note:** You must restart the computer and change all default passwords and user names after the installation.

Getting started

Use this section to learn how to perform [Basic functions](#), including how to start the system and how to find and manage components. The [EntraPass toolbar](#) section provides a table with an image and description of all the toolbar icons. If you want to minimize the time for defining system components, go to the [Express setup](#) section.

Basic functions

Use this section to find information about the following basic system operations:

- Finding components
- Using the extended selection box
- Selecting components, a specific folder, a connection or a gateway
- Printing lists or reports
- Viewing links between components
- Calling the system tree view

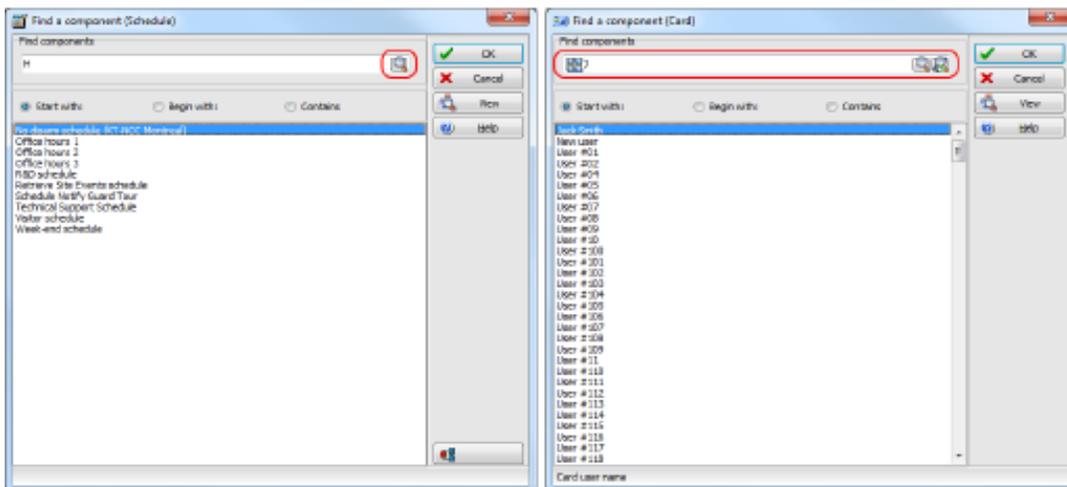
Finding components

About this task:

To search for a component or a card in the system database, use the find a component search function.

There are two types of find a component window: access one type on any EntraPass window toolbar, and access the other type on the toolbars on any of the windows that relate to users, including card, visitor card and daypass.

Figure 1: Find a component windows



The following table lists the find a component search icons and their functions.

Table 3: Search icons

Icon	Description
	Click the Find icon to search for components or cards.
	Click the Details icon to search for the picture that corresponds to the card you search for.
	Click the Index icon to select which criteria you want to search, for example, card number, email or card information fields.

To search for a component or a card, complete the following steps:

1. On the window toolbar, click the **Find** icon.
2. In the **Find a component** window, in the **Search** field, enter a keyword.
3. To narrow the search results, click one of the following buttons:
 - **Start with:** the list of results includes all of the components that start with the keyword you enter, in alphabetical order, and includes all other components in the database.
 - **Begin with:** the list of results includes only components that start with the keyword you enter.
 - **Contains:** the list of results includes all of the components that contain the keyword you enter.
4. **Optional:** When you search for cards, the default search criteria is card user name. To change the search criteria, on the left of the **Search** field, click the **Index** icon and select which criteria you want to search, for example, card number or email.
5. **Optional:** When you search for cards, to search for the picture that corresponds to the card you select, click the **Details** icon.
6. Click the **Find** icon.
7. From the list of search results, select the component that you want to display.
8. Click **OK**. The component that you select displays in the window where you initiate the search.

Using the extended selection box

Use the extended selection box to view and search all of the components of a drop-down list. This option is available for components such as applications, controllers, and doors. If the option is available, when you place the cursor over the list, a tooltip displays the following message: **Right-click to load the extended selection box**.

1. To view the **Extended selection box** window, right-click the list.
2. To filter the list, in the **Text filter** field, enter a search term. In the **Filters type** area, select from the following filter options:
 - Contains
 - Starts with
 - Ends with
 - Exact words
 - Selected
3. Select the **Filter on enter** or **Suppress address** check boxes, as required.

4. In the **Columns** field, select the number of columns you want the list to display.

Selecting components

About this task: Operators can use the component selection function to select one or more system components.

1. In the active window, click the **Select Components** button.
2. Select the options that are displayed or click **Select All** to select all of the displayed options. To view components that are not grouped, click **Single**, or to view existing groups, click **Group**.
3. From the list, select the component or group that you want to display.
4. To display the components associated with the selected component, click **View**.
5. Click **Select all** to select all of the components, if available, or click **Clear all** to remove the check marks from the selected components.
6. Click **Cancel** to return to the previous window without making any selections or changes.
7. In the **Extended selection box** window, in the **Columns** field, select the number of columns that you require to display all of the components. For more information, see [Using the extended selection box](#).
8. To apply your changes and return to the previous window, click **OK**.

Selecting a specific folder

About this task: To locate a specific folder on your hard drive for a backup or other functions, complete the following steps:

1. In the active window, click the **Select** button. It is identified by "...".
2. In the lower part of the window, browse through the **Drives** list. To ensure that the displayed list is up-to-date, click **Refresh drive**.
3. When you locate the folder you require, select it, and click **OK**.

Selecting a specific connection

About this task: You can associate a specific component with a specific connection. For example, you can define a specific holiday for a specific connection .

1. In an active window, click the **New** icon.
2. In the selected connection window, double-click a connection from the displayed list, and click **OK**.
3. Enter a meaningful name for the component that you are defining.
4. Follow the steps to complete the task.

Printing a list or report

About this task: Operators can use the print function to complete the following tasks:

- Print a list of cards
 - Print event-relay association
 - Set up a report for printing
1. In any EntraPass window, click the **Print** icon.
 2. Select the components that you want to include in the list or report. If available, click **Select all** to include all the displayed components in the list or report.

3. Select **Print empty fields** and **Print component reference**, if available, to include the titles of the fields even if they are empty.
4. Click **Font**, and in the **Font** window, select the font type, style, size, and color for your list or report. Click **OK**.
5. Click **Preview** to preview the list or report and access the following options:
 - Define the printer setup.
 - Print a hard copy of the list or report.
 - Save the list or report for later use using the **Quick Viewer** program, or load an existing report. For more information, see [Quick Report Viewer](#).
6. Click **Print**.
 - ① **Note:** If there is no printer configured for the computer, an error message appears.

Viewing component links

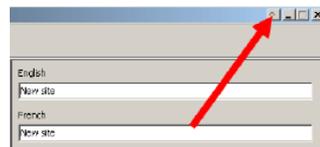
About this task: Use the view component links feature to view all instances of an item within other menus. You can view all links an item has with other items. Before you delete a component from the database, click the **View links** icon to find out which menus are affected by the deletion.

1. In any EntraPass window, select a component and click the **View links** icon. All the components that are associated with the selected component display. For example, on the EntraPass workstation, click **Definition** and click **Schedule**. From the **Schedule** list, select **Always valid**, and click the **View links** icon. The system displays a list of all the menus in which this schedule is used.
 - ① **Note:** In the highlighted example, the always valid schedule is used as the REX schedule in the door definition menu. You can right-click an item to select a category. For example, if you right-click and select **Access levels**, only the access levels in which this schedule is defined are displayed.
2. To view the links of the selected door with other components of the system, select the door and click the **View links** icon again. All system components that are associated with the selected door appear. In this example, the door is used in the administrator access level; users that are granted this access level are allowed to access the selected door.
3. To print the list of links for the selected component, click **Print**.

Floating windows

Use the **Floating window** button to move a window outside of the workstation. The **Floating window** button is located to the left of the **Minimize** button on windows that support the floating window function. To return the window to the workstation, close it and reopen it. No information about the window's position is kept by the system.

Figure 2: Floating window button



Deleting an item

To delete the currently selected record, click the **Delete** icon. To protect against accidental deletion, a warning displays and you must confirm that you want to delete the item.

In the **Delete details** window, view the estimated server processing time for the deletion operation, and the number of:

- Deleted components
- Component links deleted
- Child component links deleted

When a component is deleted, all links with other items are deleted. However, the archived records are kept in the database after an item is deleted.

Viewing component links

- For information about how to view links between components, see [Viewing component links](#).

EntraPass toolbar

EntraPass windows display a selection of the following toolbar icons to provide quick access to system functions.

Table 4: EntraPass toolbar icons

Icon	Description
	Click the New icon to add new items, such as connections, schedules and controllers, to the system database.
	Click the Save icon to save all of the information you have entered since the last save. Information saves directly in the system.
	Click the Save As icon to save all of the information of an existing component under a new name without affecting the original component. If you use this option while issuing a card, you can create a new card or save under a new card number without having to modify the information of the original card.
	Click the Delete icon to delete the currently selected record. To protect against accidental deletion, a warning displays and you must confirm that you want to delete the item. When a component is deleted, all links with other items are deleted. However, the archived records are kept in the database after an item is deleted.
	Click the Print icon to print information. Depending on which window you are working in, you can print items such as reports or card lists.
	Click the Parent icon to display your search in a hierarchy or, according to the menu you are in, to divide searches by gateways, connection, and controller. This icon is useful when the system database increases in size as you can find a specific item by selecting its parent items.
	Click the View links icon to view all instances of an item in other menus. For more information, see Viewing component links .
	Click the Find icon to search for a specific item or component in the system database. For more information, see Finding components .
	Installers and system administrators can click the Express Setup icon to configure system devices by assigning default settings.
	Click the System tree view icon to display the components list in a hierarchy. You can select or deselect the components displayed in this window.

Table 4: EntraPass toolbar icons

Icon	Description
	Click the Close button to close a window. If you forget to save information before closing a window, the system prompts you to confirm the save operation.
	Click the Cancel button to cancel all modifications that were made since the last time a valid save was performed. The system prompts you to confirm the operation.
	Click the Help icon to view the help content about the EntraPass window you are in.
	Click the OK button to save and accept the modifications, additions or deletions made to a record in the system database.
	Click the Select all icon is to select all of the items or components that are displayed in a list.
	Click the Remove all icon to deselect all of the items or components that were previously selected in a list.
	In several system windows, operators can access graphic and animation icons. Use these icons to display the status of a component before performing an operation on that component. In the Status and Operations windows, click the Enable graphic icon to display the image related to the selected component, for example, a door, and to display the associated components, for example, a reader. To display components in real time, use this icon with the Enable animation icon.
	If you click the Enable animation icon to activate it, the Enable graphic icon is also activated. If you click this icon, the status of the selected component displays in real time. For example, when you lock a door which was previously unlocked, the image of the reader is modified; the green dot changes to red.
	Click the Audit trail button to open the Audit trail window. View the date and time of changes, and the operator who made the changes to a component or a card. This feature is available in any window where you can edit a card or a component. For more information, see Card audit trail .
Right-click	Right-click to access a shortcut menu and select specific commands depending on which window is open.

Note: Toolbar icons for features that are not activated are automatically hidden from view.

Express setup

Use the express setup to configure system components, such as sites and controllers, and devices associated with these components, such as doors and inputs. This utility reduces programming to a minimum, allowing the installer to test the installation and system components.

Use the express setup to configure a connection or to define controllers associated with a connection. When used to configure a connection, installers can associate the connection with a gateway. Installers can configure the connection rapidly, giving minimum configuration information about the controllers connected to it.

When used to configure a controller, operators can assign default values to a controller and to its associated devices, such as input, relays, and output. In this case, it is launched from a system message window or from a controller definition menu.

To start **Express Setup**, go to: **Start > All Programs > EntraPass Special Edition > Express Setup** or, in any appropriate EntraPass window, click the **Express Setup** icon.

- ① **Note:** You must log on to the workstation when you start **Express Setup**. As the program allows you to modify the system devices configuration, you must authenticate yourself before proceeding with any modification.

Session Start and End

Starting the EntraPass workstation

An EntraPass workstation is a computer where the EntraPass monitoring application is installed. Operators use the workstation to access and program the system database and components.

1. From the **Start** menu or by clicking the desktop icon, start the EntraPass workstation.
2. Click the **Login/logout** icon.
3. Enter your **User name** and **Password**. The default user name is `kantech`. It is not case sensitive. If you have not already done so, create a new password. For information about creating passwords, see [Password rules](#).

- ① **Note:** If you cannot log on, check if the Caps Lock key on your keyboard is activated. When you log on successfully, the system menu, toolbar, and status bar are enabled.

By default, operators are not allowed to log on to more than one EntraPass workstation at a time. If required, an operator can have concurrent logons. For more information, see [Creating or editing an operator](#). An operator can log on to the EntraPass server and the EntraPass workstation at the same time.

Accessing Information on the Server Workstation Connection Status

1. Click any tab to access the system toolbar or select a menu item to access the system menu. In the lower part of the window, colour-coded flags indicate the communication status: Green, communication is OK; Red: communication problems; Blue: a report is pending.
2. Move the cursor over the coloured rectangles to show details about the network status, the network database status and the workstation application report status.
3. Move the cursor over the displayed numeric values to show details. It will indicate, in order, the system date and time, the operator's name, items in the Alarms desktop, alarms to be acknowledged, etc.
4. Double-click (or single click, depending on your system settings) any number in the status bar to display the Status information window.
 - ① **Note:** It is recommended to use the Login/logout button when you exit EntraPass programs. This ensures that the system databases are shutdown properly.

Modifying your Work Area Properties

1. Right click anywhere in the main window to display the Properties window. It allows you to customize the window buttons as well as the background colour.
2. To modify the size of the toolbar buttons, select one of the following:
 - **Small buttons** : small buttons are displayed below menu items

- **Large buttons with images** : components buttons are displayed on large buttons
 - **Large buttons without images** : no buttons are displayed
3. In the Miscellaneous section, make the appropriate choice:
- **Display menu** : only the menu bar appears. No buttons are displayed. Right-click the work area to modify the properties.
 - **Display toolbar** : the menu bar and the toolbar are displayed.
4. Select a background colour for the work space.

Desktops

Use this section to view the [Custom Report Desktop](#) to view pre-defined reports, their generation status, and when available video recordings.

Use the [Graphic desktop](#) to view the exact location of a component on a connection, and obtain a status update. The [Picture Desktop](#) displays the cardholder's picture with access events notifications. An operator with the correct permissions can use the [Specific Desktop Customizing](#) feature to transfer or customize a desktop for an operator with read-only permissions.

Follow the steps in the [Changing the Display Properties](#) procedure to change the appearance of your desktop, and follow the steps in [Customizing Event Display in the Message Desktops](#) to define how you want organise the events view.

Alarms Desktop

The Alarms desktop is used to view and to acknowledge alarm events. Alarm events are defined in the Event Parameter menu (**System > Event Parameters**). Any event can be defined as an alarm event. Alarm events require operator acknowledgement and are displayed in the Alarms desktop. A schedule must be defined for all alarms (**System > Event parameters, Alarm settings**). When an alarm is generated during a valid schedule, operators have to acknowledge the alarm. Alarms are displayed with date and time, alarm description, details, instructions (if defined) and associated graphic or video clip. New events are added at the bottom of the Alarm desktop unless you have setup the list to display in descending order (in the Alarm Desktop Properties dialog).

Defining an Alarms Desktop

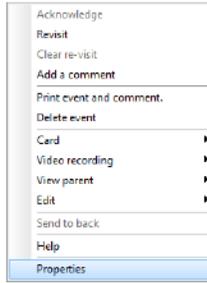
1. From the **Desktop** main window, select the desktop in which you want to display alarm messages, then define the window type. Floating or Desktop.
2. Specify the secondary windows that will be associated with the **Alarms** desktop:
 - **Display on new alarm:** When you select this check box, the following actions can occur:
 - The **Alarms** desktop opens automatically, when an alarm occurs.
 - An area alarm window opens automatically, when a muster report alarm occurs, and you select **Area Screen**.
 - **Message screen:** This window allows operators to view and acknowledge alarms that have an "acknowledgement schedule" selected in the **Event Parameters definition** menu (**System > Event Parameters > Alarm settings**) or to display the auto-acknowledge button configured in the **Operator** dialog (**System > Operator > Privileges**).
 - **Instructions screen:** This window displays the instruction that is linked to the event to be acknowledged (i.e. call the police, send a message to a client application, etc.). Instructions are defined in the **System > Instructions**. Then after, they may be associated with events.
 - **Graphic screen:** This window will display the location of the alarm being reported (if graphics are defined in the system). For more information on assigning graphic, see [Graphics Definition](#).

- ① **Note:** An Alarm desktop may be defined as a Message window, a graphic window and an Instruction window. These features may apply to a single desktop. When you select a desktop defined with these three features, three windows are displayed simultaneously. For a better display, you may need to re-size and to position the windows.
- **Area Screen:** Select this check box to populate an area alarm window when a muster report alarm occurs. All the cards in the area of the muster report populate the alarm card list.

Viewing System Alarm Messages

1. Select the **Alarm** desktop. Alarm events are displayed according to the criteria selected in the **Sorted by** field.
 - ① **Note:** Alarm messages are archived and can be retrieved at all times.
2. You can double-click the log area (middle of the window) to add a comment. The **Add a comment** window opens and enables you to enter text data. Once you have finished and clicked the OK button to close the window, the alarm event will be preceded by a + sign, indicating that an annotation has been added to the alarm event.
 - ① **Note:** Acknowledgements and flags will not be identified by a “ + ” sign.
3. You may change/define the sorting order (**Sorted by** drop-down list):
 - **Trigger destination:** Alarms are sorted by their order of arrival. This the default sequence. The window scrolls to the end each time a new alarm is displayed.
 - **State:** Alarms are sorted according to their status (acknowledged, to be acknowledged or flagged). When you use this option, you interrupt the normal scrolling of events. Select “sequence” to go back to the default display.
 - **Date and time:** Alarms are sorted according to the date and time of their arrival.
 - **Event:** The **Event messages** column is sorted in alphabetical order, grouping identical events. For example, all **Input in alarm events** are grouped.
 - **Priority:** Events are sorted by priority (as defined in **Event parameter**).
4. You may right-click anywhere in the window to enable the **Properties** window from which you can enable alarm status buttons:
 - **Red:** To be acknowledged or suspended. If suspended, the suspension delay is displayed. When the delay expires, the operator is required to acknowledge again. If the delay is not expired but the operator wishes to acknowledge a suspended alarm, he/she has to click on the delay. The delay will be reset to zero.
 - **Green:** Acknowledged.
 - **Yellow:** Flagged.
 - **Black:** Deleted. To view alarms that have been manually deleted, select the **View deleted logs** from the **Properties** .
 - **Blue:** Manual log.
5. Select the Manual / Automatic buttons to toggle the acknowledgement method (automatic or manual). Only operators who are assigned this feature in the **Operator Definition** menu can use this option. For more information, see [Operators Definition](#).
 - ① **Note:** The Manual / Automatic acknowledgement option is only available through the Alarms Desktop. When the operator logs out, it will return to “manual” by default.

6. Right click an alarm message to perform additional tasks on alarm events:



- **Acknowledge:** When selected, a green point is inserted beside an alarm event to indicate that the event was acknowledged.
- **Re-visit:** When selected, the system flags the selected event. A yellow indicator is inserted beside flagged events.
- **Clear re-visit:** Remove the flag for the selected event.
- **Add comment:** Allows operators to enter comments concerning the selected event. The added comments are displayed in the bottom part of the alarm window. A blue + sign beside an alarm event indicates that a comment was added to the alarm event (visible when buttons are enabled: **right-click an alarm event > Properties > Show buttons**).
- **Print event and comment:** When selected, the system prints the alarm event and the associated comment.
- **Delete event:** When selected, the selected alarm event is marked for deletion (the indicator becomes “black” to indicate that the event has been marked for deletion). To view the events marked for deletion, before you actually purge them, right click anywhere in the window and select **Properties** then select **View deleted logs**.

Displaying Alarm Desktops Automatically

About this task:

EntraPass enables users to display graphics automatically - from any desktop - as soon as an alarm occurs. This feature enables operators on duty to automatically view new alarms without having to open the alarm desktop and secondary windows associated with it. If **Display on new alarm** is checked the alarm desktop (and its secondary windows) will be displayed as soon as an alarm occurs regardless of the active window.

1. **Define a desktop and customize it as an alarm desktop:** For this, you have to check the items of the **Alarms** desktop section.
2. Check the **Display on new alarm** option so that operators can automatically view new alarms without having to open the alarm desktop and secondary windows associated with it.
 - ① **Note:** If this option is selected when defining a **Filtered message** desktop for instance and if the desktop button is selected, the filtered message desktop will be displayed (the background colour of its button turns blue), but the windows below the **Display on new alarm** section will not be displayed; they are only displayed when a new alarm occurs. If those windows are displayed (on new alarm), clicking the “X” in the top right hand corner of one of them will close all the open windows. If **Display on new alarm** is not checked, the alarm desktop and all its secondary windows will be displayed on call (that is, when the alarm desktop is selected).
3. Click OK and Go for your configuration to take effect immediately.

- ① **Note:** When you define a desktop as an alarm desktop to be displayed on new alarm, it is recommended to reopen the **Automatic Alarm Display** desktop, to position its windows the way you want them to appear, then to click OK and GO again. This way, it will appear exactly as you have defined it.

Acknowledging Alarms/Events

Usually, operators have to acknowledge receipt of an alarm condition (event—such as intrusion, input in alarm, etc.) by responding in ways such as clicking the acknowledgement button. In EntraPass, operators acknowledge alarm messages from an alarm warning box or from the **Alarms desktop** window.

Acknowledgement options are setup in the EntraPass application definition (**Devices > EntraPass application > Alarm** tab, Acknowledgement parameters). Events that require operator acknowledgement are defined in the **System > Event Parameters**.

- ① **Note:** If the component that is in alarm is assigned to a video view, the video view or video recording is automatically displayed when an alarm occurs.

Automatic Acknowledgement

Alarms can be automatically acknowledged without operator intervention. This option is enabled in the **Operator definition** menu (**System > Operators > Privileges, Auto acknowledge**).

- ① **Note:** In order for the Manual button to display on the **Alarm Desktop** window, it is important to close the EntraPass session and reopen it after you have selected the Auto acknowledge option.

Only operators granted the appropriate access privilege should be using this option. If the **Automatic acknowledge** feature is used, the alarm message box is not displayed; therefore, it will not be possible to suspend alarms. If this option is enabled in the Operator definition menu, the Manual button is added to the Alarms desktop. This button toggles between **Manual** and **Automatic** acknowledgement.

To Acknowledge an Alarm Message

1. When the **Acknowledgement required** message box appears, take one of the following actions:
 - Click the **Acknowledge** button to acknowledge the displayed alarm event. The red status button turns green once an alarm is acknowledged.
 - Click the **Suspend** button to suspend alarms while doing other operations in the system. The alarm will be suspended for the delay time specified in the **EntraPass application** definition menu. Once the suspended alarm delay time expires, the system prompts the operator to acknowledge the alarm.
 - Click the **Re-visit** button if you want to acknowledge an alarm message, and if you want to identify it for future reference. A flagged alarm is identified by a yellow button.
 - Click the **Mute** button (speaker button) if you want to stop the alarm sound.
- ① **Note:** The **Acknowledgement required** message box will be presented in a format without the Instructions window if there are no instructions associated with the alarm message.

If the component that is in alarm is assigned to a video view, the video view or video recording is automatically displayed when an alarm occurs.

To Acknowledge Alarms from the Alarms Desktop

About this task:

Each workstation has its own alarm desktop which displays alarm events received from the server. When a workstation starts up, alarms displayed on the desktop will have a “to be updated” status (a blue button in the second column). Once communication is established with the server, all events will be updated on the alarm desktop. The blue button will then be replaced by a red button (alarm), a yellow button (flag) or a green button (acknowledged).

① **Note:** This process will occur each time a workstation have a communication failure with the server.

1. Select the alarm event you want to acknowledge (one that has been flagged, for instance), right-click to enable a shortcut menu.
2. Select **Acknowledge** from the sub-menu. The status indicator becomes green.

① **Note:** To tag an alarm message for specific purposes, select the alarm event you want to identify; right-click and select **Flag** from the sub-menu. You can also click an alarm message until the colour of its status indicator changes to the desired colour.

Mandatory Alarm Comment

If an instruction with the **Mandatory alarm comment** checkbox selected in System / Instruction is assigned to an alarm, the operator will have to add a comment in order to mark the alarm as “acknowledged” (see [Instructions Definition](#) for more details).

① **Note:** The alarm sound will stop while a comment is entered by the user.

Changing desktop events

To change which events are displayed in the alarm message list, right-click on the alarm message list and select **Desktop Events**. Select an event group to display the events from that group. Select none to block all messages.

See the following list of options available on this menu:

- Select **Use message desktop selection** to display the same events defined for the selected desktop.
- Select **View Operator** to view the desktop event selection for the logged on operator read-only mode.
- Select **Edit Operator** to modify the desktop event selection for the logged on operator.
- Select **Assign Operator** to assign one or more desktop events to another operator.

① **Note:** Changes made to desktop events only affect new events. Existing events on the list will remain unchanged.

Changing the Display Properties

1. From the **Desktop** window, right-click anywhere in the window.
2. Select **Properties** from the shortcut menu.
3. From the **Properties** window that appears, select the display options: you may change the default size of buttons, the default background colour, etc.
 - **Small buttons** : If this option is selected, small components’ buttons are displayed with no descriptive text. This option can be appropriate for operators who are familiar with EntraPass buttons and do not need an additional description.
 - **Large buttons with images** : Icons are displayed with their description.

- **Large buttons without images** : Large buttons are displayed with no description.
- **Display menu** : check this option to view the system menu.
- **Display toolbar** : check this option to view the toolbar for system menus.
- **Change system font** : click this button to change the font for all the user interface.

Custom Report Desktop

The **Custom Report** desktop allows operators to display events that come from pre-defined reports and view the report generation state. Security levels will determine which custom reports are available to each operator. The **Custom Report message list** operates the same way as all message lists in EntraPass except that it has an extra combo box that allows operators to select a pre-defined custom report.

① **Note:** Custom reports are defined under **Report > Custom Report**.

Security levels for reports are defined under **System > Security Level** under the **Report** tab.

Configuring a Custom Reports Desktop

1. From the **Desktop** main window, click the desktop button you want to configure as a **Custom Reports Desktop**.
2. Assign a meaningful name to the Custom Reports Desktop, then define the desktop type (Message window, Picture window or both).
3. Select the sort criteria you want to use to display historical data from the drop-down list (**Date and Time** , **Event** , or **Message Type**).
4. You can enter a text string that will be used for searching specific archived messages (when applicable).
5. In the combo-box, select the custom **report** you want to generate. The list of available reports corresponds to your security level.
6. After selecting the report, a **Date and Time** window will pop up requesting a reporting date and time period.
7. Enter **Start and End date and time** or click the calendar button to open the calendar and select the start and end dates, and then type in the start and end times.
8. Check the **Clear Screen Before Process Request** box in order to clear the **Custom Report message list** of the previous search results.
9. Click **OK** . The status indicator light located at the bottom left of the screen will change from green to blue to indicate a custom report is being generated. It will turn green again when the data transfer will be completed and the data will be displayed according to the criteria you have selected.

To Create and Edit Custom Reports from a Desktop

- When your security level allows you to create new reports, you can access the **Custom Report** dialog from the **New Report** command in the Custom Report Desktop pop up menu. For more information on Custom Reports, see [Custom Reports Definition](#).
- When your security level allows you to edit existing reports, you can access the **Custom Report** dialog from the **Edit Report** command in the Custom Report Desktop pop up menu. For more information on Custom Reports, see [Custom Reports Definition](#).

To Display Custom Report State in Real-time

About this task:

This feature allows you to view the progress of report generation for a specific report in the **Custom Report Desktop List**.

1. Right-click an entry in the **Custom Report Desktop** window. A contextual menu will pop up.
2. Select **Report State** . The **Report State** dialog will open displaying report generation information.
3. When the report is finally generated in the **Desktop** window, the information in the **Report State** dialog will disappear. Click **Close** .

Comment Entry and Display

Also, a comment can be added to any type of event. In the fifth column from the left, a '-' sign will indicate that a comment has been added by the system while a '+' sign will indicate a manually added comment. From the **Custom Report Desktop**, you can display the comments associated to each event.

To view associated comments, select the event and use a right-click to display the contextual menu, then select **View Comment**. A comment can also be added using **Add a New Comment**.

Playing archived video recordings from a Desktop Message list

1. Select the video you would like to play and right-click to access the contextual menu.
2. Once you click on it, the **Video Playback** window will open and start playing the selected recording.

Customizing Event Display in the Message Desktops

1. From the displayed shortcut menu (**Message desktop > Right-click** a message), select **Properties**.
2. From the **Properties** window, select the appropriate display options.
 - **Multi-line**: Usually, events are displayed on a single line. You can increase the line spacing between events by checking the appropriate option (1, 2, 3 or 4 lines).
 - **Show columns**: You can choose to display different types of buttons beside each event.
 - **Message type**: When you select this option, the system inserts an button next to events indicating the type of event. For example, if the event is a "door forced open" an button representing a door is displayed (a hand represents a manual operation, a diskette represents the operation that modified the database, etc.). Access events are represented by the login / logout buttons.
 - **Picture**: When you select this option, the system inserts a card button next to events containing cardholder pictures.
 - **Fail-soft messages**: When you select this option, the system displays a plus (+) sign next to the events that occurred when controllers were off-line.
 - **Video**: Check this option if you want the selected desktop to display video data from the video server connected to your system.
 - **Display account**: On the bottom left, check **Display account**. The desktops window now displays the **Account** column with the corresponding event for each account.

- The **Miscellaneous** section allows you to enable additional options:
 - **Keep card picture:** When selected, the system keeps the latest card picture (if the Picture window option is selected) until another event containing a card occurs.
 - **Display toolbar:** Displays / hides the toolbar on the top of the **Message** desktop.
 - **Manual properties save only:** When you select this option, you have to click the **Save** button (once selected, the button is disabled). The system saves all the settings defined in the **Properties window** as well as the position of the window within the Messages Desktop.
 - **Display selected messages (full):** When you select this option, a smaller window is added at the bottom portion of the **Message window**. It displays the selected event with its full description. This feature is very useful when your **Message** window is too small to display the entire description of an event.
 - **Display events in bold:** Select this option to increase the legibility of text event messages displayed in EntraPass desktops (Message list, Filtered messages and Alarm desktops). Moreover, if the colour selected for an event message is the same colour as the background colour, the event message will be displayed in black bold so that it can always stand out (this option is not available for **Archived Messages** list).
 - **Last Message on Top:** By default, event messages are displayed in ascending order of occurrence, with the area at the bottom of the screen reserved for the highlighted event. You can select to display the events in descending order, with the highlighted event showing above the list of event messages.
 - **Auto-scroll delay (mm:ss):** Will automatically start scrolling the message list after a pre-set delay when the operator selects an item in the list. By default, this option is turned on with a preset delay. You can select to turn this option off which means that the operator will have to click the **Restart Scroll** button in the **Messages** list (this option is not available for **Archived Messages** list).
- **Message background colour:** Allows the operator to modify the background colour of the message window.
- **Display event colour in separate column:** Event colours can now be displayed in a separate column. Text and message background colours can also be selected.
 - ① **Note:** To change the font colour of system messages: **System > Event parameters**.

Filtered Messages Desktop

The **Filtered Messages** desktop allows operators to display specific events. For example, you can create filters to display events that are related to a specific controller and from a particular gateway of the system. If this is the case, those events will be displayed in the **Filtered Message** desktop. Filtered messages are defined in the **Message filters** menu: **System > Message filters**.

- ① **Note:** When you use filters, the system retrieves events that are already displayed in the **Messages** desktop and filters these events according to the selected filters.

Configuring a Filtered Messages Desktop

1. From the Desktop main window, select the desktop you want to configure as a **Filtered messages desktop**.
2. Assign a meaningful name to the **Filtered message desktop**; then define the desktop type (Message window, Picture window or both).
3. You can change the **Text filter**, to display specific events. For information about the **Filtered messages** desktop, see [Message List Desktop](#).

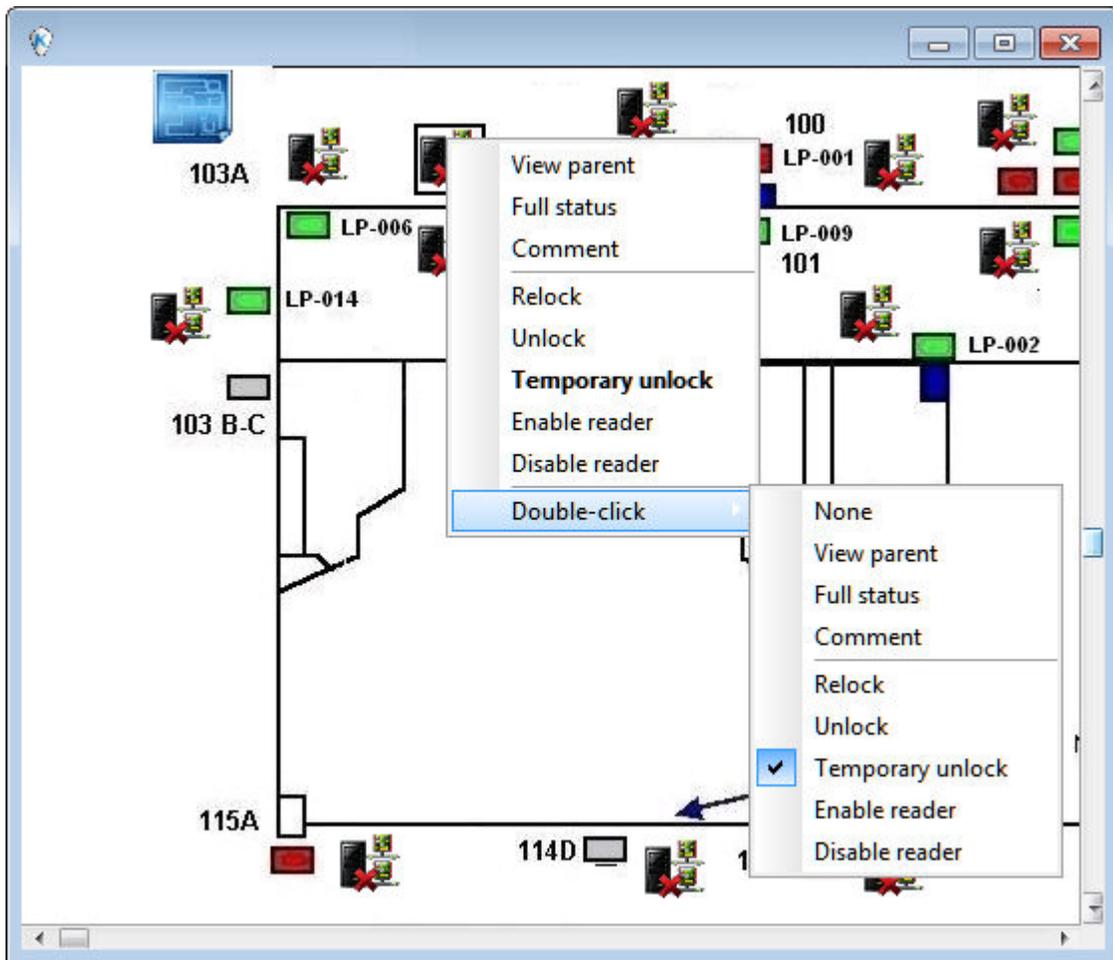
Graphic desktop

Use the Graphic desktop to display the graphical location of an alarm occurrence. To enable this function, you must define the graphic in the system. For more information, see [Graphics Definition](#). A graphic corresponds to a secured area on the system where the following components are located on a connection: EntraPass application, controllers, inputs, and relays. With a graphic, operators can view the exact location of a component installed on a connection, or the status of components and devices. For example, area groups, areas, doors, contacts, motion detectors, and controllers, assigned to the graphic. If you have defined muster reporting, and an emergency occurs, graphic icons indicate when all employees have vacated the area. Operators can perform manual operations directly from the displayed component, for example, to lock or unlock a door. To define interactive floor plans, see [Graphics Definition](#).

The following table describes the icons that display on the graphic.

Viewing Graphics in the Graphic Desktop

1. Select the desktop button you want to assign to graphic, name the desktop (Graphics, for example), then define the window type (**Floating** or **Desktop**).
2. Click **OK and Go** to display the **Graphics** desktop.
3. Right-click anywhere in the **Graphic** desktop then, from the shortcut menu, select the graphic you want to display.
 - ⓘ **Note:** If the window is smaller than the graphic size, you can click-hold-and-drag the graphic to move it around within the Graphic window.
4. To use additional functions, right-click anywhere in the graphic for the shortcut menu:
 - To adjust the display size of the selected graphic, click **Fit to screen, Design size or Picture size**.
 - For the system to display a message indicating the cause of the communication loss in case of communication failure, select **Auto result**. If **Auto result** is not selected, operators will have to manually request the results for the component by using **Show result**.
5. Right-click a component in abnormal condition to enable a sub menu.



① **Note:** Components in alarms are represented by their animated buttons. If you select an animated button and view its parent components you can learn more about the “alarm condition”.

6. Select **Full status** from the shortcut menu to display the error list related to one or all the components in alarm.
7. Select **Comment** to display comments already assigned to the device, for more information see the [Comment Field](#).
8. Select the **Double click** menu item to allow operators to modify the status of a component in alarm from the Graphic desktop. For example, if the displayed component is a door and if the **Double-click** menu item was set to **Unlock**, an operator can manually open the door from the **Graphic** desktop.

① **Note:** When you modify the **Double-click** feature using the Graphic desktop, the system does not save the modifications. Modify the default **Double-click** feature using the graphic definition (Definition > Graphics, Design window, right-click a component > Default double-click menu item). For more information on how to create graphics, and on how to assign components to graphics, see [Graphics Definition](#).

Message List Desktop

By default, the first desktop is defined as the **Messages List desktop**. It displays all system events. Events are displayed with their button, date and time, description, system components involved in

the event such as controllers, cardholder pictures (if defined), etc. When a new event is displayed, the window scrolls up. The newest events are added at the bottom of the window.

Viewing and Sorting System Events

About this task:

By default, the first desktop is dedicated to displaying system events. When you select an event from the list, you interrupt the incoming sequence (the green status indicator located at the bottom left part of the desktop turns red when scrolling is interrupted). By default, the scrolling will restart automatically after a pre-set period of time, unless the auto-scroll parameter was disabled. In that case, to restore the normal scrolling, click the **Restart Scroll** button.

- ① **Note:** If you configure a desktop as a message screen and a picture screen, two windows are displayed simultaneously when you select the desktop.
- 1. Select the first desktop. By default, all system events are displayed in ascending order with an area at the bottom of the screen that displays the selected event in the list.
 - ① **Note:** You may change the message colour: System > Events parameters. You may also change the events display order; see [Customizing Event Display in the Message Desktops](#).
- 2. From the **Message list** screen, you may change the sorting criterion by clicking on the **Sequence** drop-down list. You may choose to sort by:
 - **Sequence** : Events are sorted according to the normal sequence (default). New events are added at the bottom of the window (This option is not available for **Archived Messages** list).
 - **Date and time** : This sort order interrupts the normal scrolling of events. This feature is useful when you want to know when an event was generated. This time may be different from the “normal sequence” for dial-up sites for instance or after a power failure.
 - **Event** : When selected, the system sorts the **Event message** column in alphabetical order, grouping identical events. For example, all **Input in alarm** events are grouped together in alphabetical order.
 - **Message type** : When selected, the system sorts the **Event message** column in alphabetical order, grouping similar events. For example, all **Connections events** are grouped together in alphabetical order.
 - ① **Note:** To go back to the default display, select **Sequence** from the **Sequence** drop-down list.
- 3. Clicking the **Text filter** button (top left of the **window**) will open the **Text filter** dialog that allows to enter a key word to display all the events that contain that keyword in the **Message list**. In order to avoid delays, select the **Suspend Refresh** checkbox. This way, the Desktop **Message List** will not use the **Text Filter** field while events are displayed live. To close the **Text filter** dialog box, click **Cancel** or the Windows closing button (X).
- 4. To return to the normal display of events in the **Messages list** screen, click the **Text filter** button.

Customizing Event Display in the Message Desktops

1. From the displayed shortcut menu (**Message desktop** > **Right-click** a message), select **Properties**.

2. From the **Properties** window, select the appropriate display options.

- **Multi-line:** Usually, events are displayed on a single line. You can increase the line spacing between events by checking the appropriate option (1, 2, 3 or 4 lines).
- **Show buttons:** You can choose to display different types of buttons beside each event.
 - **Message type:** When you select this option, the system inserts a button next to events indicating the type of event. For example, if the event is a “door forced open” an button representing a door is displayed (a hand represents a manual operation, a diskette represents the operation that modified the database, etc.). Access events are represented by the login / logout buttons.
 - **Picture:** When you select this option, the system inserts a card button next to events containing cardholder pictures.
 - **Fail-soft messages:** When you select this option, the system displays a plus (+) sign next to the events that occurred when controllers were off-line.
 - **Video:** Check this option if you want the selected desktop to display video data from the video server connected to your system.
- The **Miscellaneous** section allows you to enable additional options:
 - **Keep card picture:** When selected, the system keeps the latest card picture (if the **Picture** window option is selected) until another event containing a card occurs.
 - **Display toolbar:** Displays / hides the toolbar on the top of the **Message** desktop.
 - **Manual properties save only:** When you select this option, you have to click the **Save** button (once selected, the button is disabled). The system saves all the settings defined in the **Properties** window as well as the position of the window within the **Messages** desktop.
 - **Display selected messages (full):** When you select this option, a smaller window is added at the bottom portion of the **Message** window. It displays the selected event with its full description. This feature is very useful when your **Message** window is too small to display the entire description of an event.
 - **Display events in bold:** Select this option to increase the legibility of text event messages displayed in EntraPass desktops (Message list, Filtered messages and Alarm desktops). Moreover, if the colour selected for an event message is the same colour as the background colour, the event message will be displayed in black bold so that it can always stand out (this option is not available for **Archived Messages** list).
 - **Last Message on Top:** By default, event messages are displayed in ascending order of occurrence, with the area at the bottom of the screen reserved for the highlighted event. You can select to display the events in descending order, with the highlighted event showing above the list of event messages.

- **Auto-scroll delay (mm:ss):** Will automatically start scrolling the message list after a pre-set delay when the operator selects an item in the list. By default, this option is turned on with a preset delay. You can select to turn this option off which means that the operator will have to click the **Restart Scroll** button in the **Messages** list (this option is not available for **Archived Messages** list).
- **Message background colour:** Allows the operator to modify the background colour of the message window.
 - ① **Note:** To change the font colour of system messages: **System > Event parameters**.

Performing Tasks on System Messages

About this task:

EntraPass enables you to perform various tasks on system events. These include:

- Deleting messages
 - Viewing card information
 - Validating card status and card transaction
 - Modifying the desktop properties (such as display options), etc.
 - Play, edit and export video recordings
1. From the **Message** desktop, right-click an event to enable a shortcut menu.
 2. Do one of the following:
 - **New message filter:** This option displays the **Message filter** dialog to define new message filters (see [Message Filters Definition](#) for more information).
 - **Edit message filter:** This option displays the Message filter dialog to edit an existing message filter (see [Message Filters Definition](#) for more information).
 - **Delete all:** This option allows an operator to delete all the events displayed.
 - **Card :** This menu items offers two choices: **View card transactions** and **Search card**. Select **View card transactions** to display all access information related to the cardholder who has triggered the access event. The **Search card** shortcut allows you to browse the card database and to display information about all the card numbers associated with this specific card user name from the **View card information** window. From this window, operators can perform a variety of tasks including viewing and validating information contained on a card, such as the card number, cardholder name, card state (valid or invalid), card type, etc. They can also select a card and view its transactions or view and validate a card access. For details about validating card holders' access and last transactions, see [Validating Card Access](#).

Result

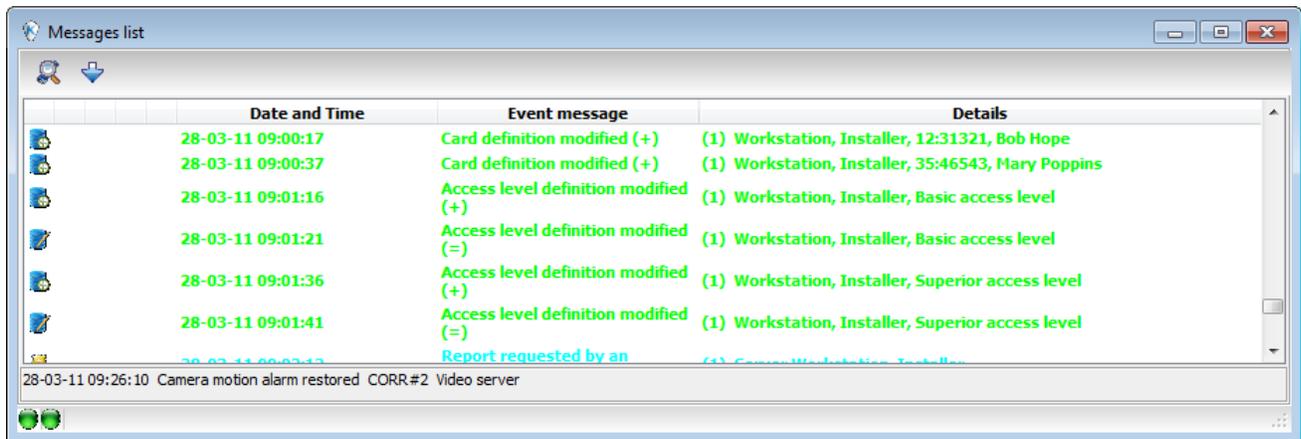
Also, in order to reduce the quantity of data retrieved, a filter can be added to the user name or to the card information fields (1 to 10) when searching for a card. Enter a name for the filter and click the button on the left side of the field to display the contextual menu.

- **Video recording:** This menu items offers two options: **Play** and **Play/Edit/Export**. Selecting **Play** allows users to play the video event in the **Playback** window, offering options to snap (copy) it and save it for future use. Selecting **Play/Edit/Export** offers users features similar to the ones in the **Video Event** list. Operators can then display details about the event (camera, server, comment field) and camera information, etc. The video event can also be played and exported.
 - ① **Note:** If camera buttons are not displayed, simply right-click a video event message, select properties from the shortcut menu, and check Video in the **Show buttons** section of the **Properties**.
- **View parent:** Displays the parent of each component related to the selected event.
- **Edit:** This feature offers you the ability to edit each component associated with the selected event. If **Edit** is selected, a shortcut menu displays components associated with the selected event. In this example, the connection definition modified event involves the EntraPass application, the operator who was on duty when the event was generated and the connection related to the event. It is now possible to edit any of the three components by selecting it from the shortcut menu. If the selected event is an access event and if the card that triggered the event has already been registered in the system, it will be possible to edit the card. However, if the card is associated with an **Access denied - card unknown** event, the card will be created and registered in the system.
- **Audit,** select one of the following options:
 - **Application:** select this to open the **Audit** window to view who make changes, and when the changes occurred on the component.
 - **Operator:** select this to open an audit window to view the operator component tht generated the message event. For example, any change under the function system for operator, name, security level, and workspace. In the absence of an modification to the selected compoent, the otpion is not available.
 - **Card:** select this to open the **Audit** window to view who made changes, and when the changes occurred on the card.
- **Send to back:** This option only works when the window type is set to floating. It sends the active window behind the main application window. To bring back to front, right click the desktop button, then select **Bring to front**.
- **Help:** Displays the **EntraPass Online Help**.
- **Properties:** This menu item enables users to modify the display properties for the selected desktop.

Add, Modify or Delete Tagged Events

You can see, in the desktop message list, if a component was newly created, modified or deleted. Database events are precessed by the following signs:

- + (New)
- = (Modified)
- - (Deleted)



Changing Desktop Events

To change which events are displayed in the alarm message list, right-click on the message list and select **Desktop Events**. Select the an event group to display the events from that group. For more information about event groups see [here](#). Select none to block all messages.

Other options available in this menu are as follows:

- Select **View Operator** to view the desktop event selection for the logged on operator in read-only mode.
- Select **Edit Operator** to modify the desktop event selection for the logged on operator.
- Select **Assign Operator** to assign one or more desktop events to another operator.
 - ⓘ **Note:** Changes made to desktop events only affect new events. Existing events on the list will remain unchanged.

Picture Desktop

If you selected **Picture screen** when defining the **Message** desktop, it will be displayed with the Picture window. Access events are displayed with the card holder's picture if you have set the appropriate display option in the Message filter definition (System > Message filters). For details, see [Message Filters Definition](#).

Modifying Pictures Display Options

1. From the **Message list and Picture** , select an access event, then right-click the card holder's picture.
 - ⓘ **Note:** The **Send to back** option only works when the window type is set to floating. It sends the active window (Picture window) behind the Message desktop main window. To bring it back to front, right click the **Message** desktop button, then select **Bring to front** from the shortcut menu. From the shortcut menu, select **Properties**.
2. **From the Aspect** drop-down list, select the display size for the picture:
 - **Design size** : The card holder's picture will be displayed with its original size.
 - **Stretch** : This option stretches the picture to the window size without maintaining proportions. The picture may appear distorted.
 - **Stretch ratio** : This option stretches the picture to the window size while maintaining proportions.

3. The **Display multiple pictures** option allows you to show up to four photos, depending on your needs. When selected, you can keep the default value “ *Message* ” or choose a specific door for each of the four photos.
4. Check **Apply all the following items for all cells** to assign the parameters to all cells.
5. Select the information you want to see displayed with the card holder’s picture:
 - **Door** : The door where the card was presented will be displayed above of the card holder’s picture .
 - **Event** : The event message will be displayed .
 - **User information** : The **User information** field will be displayed above the picture.
 - **Comment** : If this option is selected, a comment field appears below the card holder’s picture. The comment entered when defining the card appears in this field.

ⓘ **Note:** If a door is associated to a cell (photo) and the **Door** option is selected (**Display selected fields**), the name of that door will be displayed in blue instead of the usual black colour.

Specific Desktop Customizing

EntraPass enables operators with appropriate permission to customize their desktop. Moreover, operators with full access permissions can permit operators with read-only permission to customize their desktop. They can also customize a specific desktop and transfer this customized desktop to other operators using the **Assign desktop** feature. The following sections explain how to customize a desktop:

- Customizing a desktop by a full access operator
- Customizing a desktop for a read-only operator
- Transferring a customized desktop

Customizing a Desktop for a “Full Access” Operator

About this task:

Operators with full access permission have the ability to customize their desktops. To grant full access to an operator (**System > Security Level**):

1. Select the desktop you want to customize, right-click and select **Properties** in the menu to open the **Desktop** properties dialog.
2. From the **Desktop name** field, assign a meaningful name to the desktop you are configuring.
3. Select the window type:
 - **Floating window** : A floating window can be re-sized and positioned anywhere in the work area screen. For example, you can choose to send it to the back or to bring it to the front. If a floating window was sent to the back, you may bring it to the front by right-clicking the desktop button, then selecting the **Bring to front** menu item.
 - **Desktop window** : A desktop window is trapped within the work area. It is not possible to send the window in the background. It always remains within the main work area.
4. To save your changes:
 - **Click OK** : If selected, you just save your the changes, the window is not displayed.

- **Click OK & GO** : If selected, this function saves your changes and displays the window you have just configured.
 - ① **Note:** When opening a desktop window for the first time, you may need to re-size it in order to view the information correctly. To do so, point to the frame border you want to change; when the pointer turns into a double-headed arrow, drag the border to exact size. You may then position the window in the work area to the desired position.

Customizing a Desktop for a “Read-Only” Operator

About this task:

The security manager or an operator with the appropriate security level can give permission to operators who do not have the appropriate permission to customize their desktop during a session.

1. Log in, using the user name and password of the operator with ‘full access’ security level.
2. Select the desktop you want to customize, right-click and select **Properties** in the menu to open the **Desktop properties** dialog.
 - ① **Note:** A **Permit button** appears when the operator who is logged on has ‘read-only’ access permission. The permission acquired during this session will be valid until the operator logs out. Click the **Permit** button. The operator login window appears. Enter your user name and password, and click, **OK**. The temporary permission will be granted.

Transferring a Customized Desktop

About this task:

Another possibility available to the Security Manager (or to the operator with the appropriate security level) is to customize a desktop, and then to assign the settings to other operators who may not have the appropriate security level to modify their desktop settings.

1. Right-click the desktop you want to assign the settings.
2. Select the **Assign (desktop)** option from the shortcut menu.
3. From the displayed window, select the operators to whom you wish to assign the desktop properties. You must select the appropriate check box. You can select operators one by one, or you can use the **Select all** button.

Desktops Colors

About this task:

Event colors can now be displayed in a separate column. Text and message background colors can also be selected.

1. From any message desktop, right-click on a message and select **Properties** .
2. Click on the drop down list and choose a color for the background.
3. Select **Display event color in separate column** if needed.
4. Click on the second drop down and choose a colour for the message text.

Status

Use this section to view the status of applications and components in text and graphical representations from different system perspectives.

You can use the [Text Status](#) to view the status of a particular component in text form. To view how many sites or gateways are in a “not normal” state, use the [Numerical Status](#). You can hover over a component of a door controller in the graphic status to view its status in the component list.

You can use the [Database status](#) to view all applications defined in the gateway and controller sites, and view the communication status of each application. The [Video server status](#) lists all the parameters of the video servers connected to the Video Vault. To view detailed information on the server including system information, system global memory, system process memory and system disk space, use . To view how many operators are logged in to the system for each application, use .

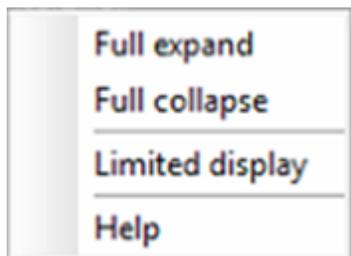
Database status

About this task:

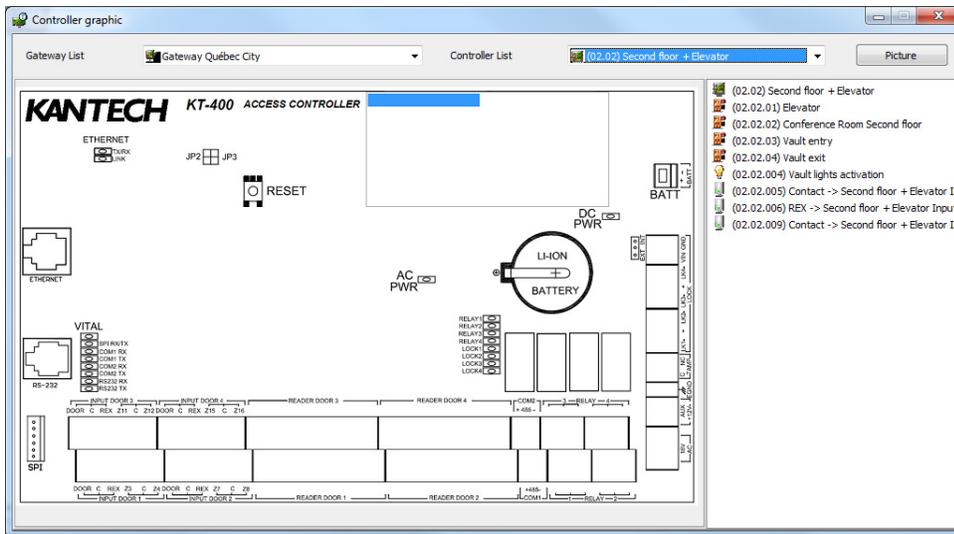
This window displays the status of the components within the database while browsing the database structure. The system displays items including all applications (connected or not), the gateway, and controller sites.

You can perform manual operations directly from the window and edit components to modify their configuration.

1. Click the **Status** tab and click the **Database** button.
① **Note:** The button identifies the type of component.
2. In the **Database** window, select the application you want to view the database. In the lower pane, the status and full name of the selected component display.
3. Select a component to modify its definition. For example, if you select a door, right-click the door to display a shortcut menu.
4. Select a command in the shortcut menu.



- ① **Note:** The command list varies according to the selected component.
5. The shortcut menu offers the following options:
 - **Full expand:** Click to expand the tree status and view all components. Only applications that are connected to the server display a + sign.
 - **Full collapse:** Click to collapse the tree status and hide all components of the root component.
 - **Edit:** When you select an assigned component (input) and click edit, the system edits the definition window so that you can modify its definition and when finished, return to the window you edited the component from.



- ① **Note:** The displayed graphic depends on the type of the controller selected.
3. To find out which items are represented by a coloured shape, move the mouse over a coloured shape. The item highlighted on the right-hand (in the list) identifies the component.
 4. Select a controller from the **Controller list** drop-down list (right side of the window), double-click the item on which status is required.
 - Red —The component is “Supervised” and “in a trouble state”.
 - Green —The component is “Supervised” and “in normal condition”.
 - Yellow —The component is “Not Supervised” and “in a trouble state”.
 - Gray —The component is “Not Supervised” and “in normal condition”.
 - Blue —The relay is activated (by an event or an operator).
- ① **Note:** If there’s more than one controller connection per gateway, the numbers between parentheses (xx) indicates the controller number and the following numbers (xx) indicate the component number.

Numerical Status

About this task:

This menu allows an operator to view the number of components in a “not normal” state for a selected gateway.

1. In the **Status** tab, select the **Numerical status** button. The Numerical window appears.
2. The window displays the number of cards for that gateway, the number of inputs in alarm, the number of relays manually activated, the number of doors forced open, etc. This can be very useful if you need to find out how many cards are defined.

Text Status

The **Text status** allows an operator to display the status of a selected component (and sub-components) as well as all the characteristics associated with this component in a text form. This

menu option applies to all the system devices: applications, sites, controllers, doors, relays and inputs. The text window contains additional buttons that assist operators in their tasks:

- The first seven buttons represent system devices (Workstation, Gateway, Connection, Controller, Door, Input and Output).
- Summary/Detailed list —The magnifying glass button is used to display components that are not in normal condition. It displays a summary list or a detailed list.
 - **Summary:** shows the components that are not in normal condition
 - **Detail:** shows all the components in any condition.
- **Stop display** —This button is used to stop the display when the information is taking too much time. It cancels or interrupts the process.
- **Refresh** —Refreshes the status of the selected components.
- **Print** —Use this button to print the displayed status. You can preview your report before printing it.

Displaying a Component Status

1. From the **Status** tab, select the **Text Status** button. The Text window appears.
2. In the Text window, select the button of the component for which you want to view the status. If you select the **Workstation** button, the system displays the list of the EntraPass Applications defined in the system
3. You can check the EntraPass application you want to display the status or enter a few characters of the component name (field at the top) for the system to search in the database. For example, you can enter “Sec” for Security Office. The system will highlight the first name containing the entered characters. You may also click the **Select all** button to select all the EntraPass applications; or select specific components by clicking in the checkboxes next to each component name. The **Clear all** button removes the check marks from the selected components. Click **Cancel** to return to the previous window without any selections or changes.
4. You may check the **View sub-components** option (lower part of the window) to display detailed information on the sub-components linked to the selected component. For example, if you selected a controller, all its components (doors, relays, inputs) with appropriate status will be displayed on the window if this option was checked. For more focus in one window, filter doors, relays or inputs by connection.
5. Click **OK** to return to the previous window and apply your selections.
 - ① **Note:** The Magnifying glass button is used to display components that are not in normal condition. When it is in a “summary” position, only components that are not in normal condition will be displayed; the “detailed” position, displays a full status of all components.

Video server status

In EntraPass, you can display the parameters of the video devices that are connected to the video server. For example, operators can view information related to network data transfer such as images and digital sounds.

- ① **Note:** Installing and using the video feature may take a large amount of your company's network bandwidth (LAN or WAN). The network administrator may control the use of the network bandwidth for video transfer.

Viewing the video server's full status

1. On the Graphic desktop window, right-click the **Video server** icon to display a shortcut menu.
2. On the shortcut menu, click **Full status** to display information about the video server status.
 - ① **Note:** The content of the full status window depends on the video server associated with EntraPass.

Result

The following table provides descriptions of the displayed fields.

Table 5: Video server full status window

Item	Description
Unit name	The network name of the remote DVMS system. For example, Intellex. The unit name is followed by the DVR IP address
Unit type	The type of unit. For example, Intellex or Iris (network client).
Schedule mode	The current schedule mode of the remote DVMS unit. It indicates how images are recorded by the DVR installation. The values for this field can be: Regular (regular schedule), Single (only a single camera), or Custom (a custom schedule has been set by the operator).
Recording in progress	The active record statue of the remote DVMS unit. Values can be: True (is recording) or False (stopped recording).
Time span (h:mm)	The time interval (in second) between the oldest and newest images in the database.
Unit version	The official version of the DVMS unit.
Number of cameras	The number of cameras connected to the video server. The source of the video data is generally a camera, but it may also be a television station or other video source. The value varies from 0 to 16.
Record mode	The record mode can be linear or circular. If you select Linear , the recording continues uninterrupted until the available space is finished; if you select Circular , the DVR notifies the operators before the recording space is completely filled. The operator can choose to continue the recording or to stop it. By default, the recording mode is set to Circular.
Recording mode	The recording standard of the remote unit. The recording standard depends on the area. Values can be: NTSC (the NTSC standard is mainly used in America and in many Asian countries such as Japan and South Korea) or PAL (the PAL standard is mainly used in Germany, Great Britain, China, Australia and Brazil).
Estimated remaining images	The estimated number of frames that may still be recorded in the video database before the DVMS unit space is completely filled. This option is only useful if the recording mode is linear.
Interface version (API)	Indicates the version of the application interface between EntraPass and the selected video server.
Number of audio	The number of audio streams available of the video server unit. The source of the audio data is generally a microphone, but may be another audio source.
Record rate	The rate code value. This value indicates the aggregate recording rate for the DVR unit in number of frames per second. The value can be: 1, 2.5, 7.5, 15, 30, 60, 120, other value.

Table 5: Video server full status window

Item	Description
Total number of images	The total number of images in the remote unit's database.
Version compatibility	Compatibility between the versions of the DVR unit and the application interface used.
Number of text	The numbers of text data streams available from the DVMS. The text data source may be a cash register or other device.

Operations

Use this section to perform manual operations on system applications and components. You must have the applications and components configured and defined. Each section describes the icons available, and a full description of their functionality. Operations range from reloading a controller database, locking or unlocking doors, to monitoring a selected input. See the following list of applications and components:

- [Manual operations on controllers](#)
- [Manual operations on doors](#)
- [Manual operations on elevator doors](#)
- [Manual operations on gateway](#)
- [Manual operations on inputs](#)
- [Manual operations on integrated panels](#)
- [Manual operations on action scheduler](#)
- [Manual operations on relays](#)
- [Manual operations on sites](#)
- [Manual operations on view roll call](#)

Manual operations on controllers

This dialog is used to reset or reload a controller: soft reset, hard reset, reload and reload controller firmware.

Table 6: Controller icons

Icon	Definition
	Soft reset: does not affect the controller database. This command sends new information to a controller to update its physical components (relays, inputs, doors and outputs).
	Hard reset: erases the existing controller database and reloads it with new information in the controller database. Execute reset commands with caution. Before you carry out a controller reset operation, contact Technical Support. For more information, see Technical Support .
	Reload: reload the controller database; if for example a controller database is not reloaded correctly due to an erratic operation.
	Reload controller firmware: reloads the firmware of the controller.
	Clear buffered events: offline controllers buffer events until they reconnect to the server. This operation discards saved events on the controller. This operation is only available for KT-400, KT -1, and KT-2 controllers.
	Unlock reader keypad: unlocks the reader keypad for KT-100, KT-400, KT-1, and KT-2 controllers.
	Reset reader power: resets the controller reader power. You can perform this operation on KT-300, KT-400, KT-1, KT-2, and KTES controllers.

Table 6: Controller icons

Icon	Definition
	Forgive: resets to zero the cards-in and cards-out counters or card counters from controller local area.
	Anti-passback cards list: displays the number of cards for each local area, obtain a card list in local area controllers, move cards (when you have a KT-1, KT-2, or KT-400 system) and allows you to get position a card. This feature is used only for a Multi-site Gateway.
	Request unassigned modules: will provide the serial numbers of all ioSmart readers connected but not defined in the system, for example, Controller #1, ioSmart reader, 14001560.
	Reload module firmware: reloads the firmware of the ioSmart module.

① **Note:** A hint is displayed when you move your cursor over a button. It gives details about the operation to be performed.

Selecting a Controller

1. From the **Operations** window, select the **Controller** button to open the **Controller** window where you will be able to reset the controller.
2. From the **Site** pane, select a site. Controllers attached to this site appear in the right-hand pane.
 - From the **Controller** list, select the controller where the operations will take place. It has to be highlighted. To perform the operation on a group of controllers, select **Controller Group** (lower right-hand pane).
 - ① **Note:** If only one site is defined in the system, the Site Controller list pane will not appear on the Controller window. The **Controller Group** bottom panel is available only to the selected site or to a selected connection not linked to a site.

Performing a Controller Soft Reset

About this task:

A soft reset will refresh the data in the controller.

1. In the **Controller** dialog, select desired controller or controller group.
2. Click the **Soft reset** button in the toolbar. This command will send new information to the controller to update its physical components (relays, inputs, doors and outputs, etc.).

Performing a Controller Hard Reset

About this task:

A hard reset will delete the existing controller database and reload it with new information in the controller database.

- ① **Note:** Reset commands should be executed with caution. Before you carry out a controller reset operation, we recommend you contact our Technical Support. For more information, see [Technical Support](#).
1. In the **Controller** dialog, select desired controller or controller group.

2. Click the **Hard reset** button in the toolbar. This command will send new information to the controller to update its physical components (relays, inputs, doors and outputs, etc.).

Reloading a Controller Manually

About this task:

EntraPass allows you to reload a controller database when, for example, a controller database is not reloaded correctly due to an erratic operation.

1. In the **Controller** dialog, select desired controller or controller group.
2. Click the **Reload** button in the toolbar. The controller's database will be reloaded.

Manually clearing buffered events

About this task:

Offline controllers buffer events. When offline controllers are reconnected to EntraPass buffered events can be downloaded or cleared. To clear buffered events, complete the following steps:

1. In the **Controller** dialog, select the controller you want.
2. On the toolbar, click the **Clear buffered events** button.

Result

This option is also available when you right-click the controller you want. This operation is only available for KT-400, KT -1, and KT-2 controllers.

Resetting Cards In Counters or all Controller local areas

About this task:

This option allows to reset to zero for the cards in counter.

1. In the **Controller** dialog, select desired controller or controller group.
2. Click the **Forgive** button in the toolbar. Card holders will not be considered inside or outside until the next use of their card at an entry or exit reader.

Calculating Number of Cards In

About this task:

If you have one or more controllers configured with anti-passback, this function allows you to view a list of cards that are considered inside (**Cards in**) an area. To do so, the passback option (either soft or hard synchronization) has to be enabled on the reader and the door has to be defined as an entry door.

1. In the **Controller** dialog, in the **Gateway/Site** section, select **KT-400-IP** . Then in the **Controller** section, the list of appropriate controllers relative to the selection display.
2. Select desired controller or controller group.
3. Click the **Get Card List** button in the toolbar. The system will display the number of cards in for the selected controller or controller group.
 - ① **Note:** This operation is performed only on one controller at a time as it may be a lengthy operation. The option is only available on a Multi-site Gateway.

Card Location

1. Right-click the appropriate local area number, and then click **Find card position** .
2. In the **Get card position** dialog, click **Start with** , **Begin with** or **Contains** to filter the search criterion.
3. In the list, select the wanted card position, and then click **Get position** .

Resetting Cards In Counters or all Controller local areas

About this task:

This option allows to reset to zero for the cards in counter.

1. In the **Controller** dialog, select desired controller or controller group.
2. Click the **Forgive** button in the toolbar. Card holders will not be considered inside or outside until the next use of their card at an entry or exit reader.

Requesting unassigned modules

This feature provides the serial numbers of all ioSmart readers and ioModules connected but not defined in the system. Use one of the following methods to view unassigned modules in a **Message List** window:

- In the **Operations** tab, select a controller, right-click and select **Request unassigned modules**.
- In the **Operations** tab, right-click in the toolbar and click **Request unassigned modules**.

To edit a module, right-click an event, click **Edit**, and choose one of the following options:

- **Controller:** use to open the **Controller** window and edit the definition for the controller.
- **Assign:** performs the following actions:
 - Populates the data into the controller's configuration page in the **ioSmart** tab, or the **ioModule** tab. If necessary, rename the reader or change the configuration details, and click **Save**.

Full status

Use **Full status** to review the controller's communication settings and configuration.

Module status

Use **Module status** to review the module's status.

- ① **Note:** If you want to view the **Full status** and the **Module status** windows at the same time, click **Full status**, and on the controller window, click **Module Status**.

Edit

Use **Edit** to open the **Controller** window and edit the definition for the controller.

Manual operations on doors

This dialog allows an authorized operator to manually modify the state of a door or a group of doors.

Operators can manually lock or unlock a door, temporary lock or unlock a door or a group of doors, and enable or disable readers on selected doors.

Table 7: Door icons

Icon	Definition
	Lock door or group of doors: will manually lock the selected door or group of doors.
	Unlock door or group of doors: The selected door or group of doors will be manually unlocked and will remain unlock until the next valid change of the unlocking schedule or an operator manually locks the door or group of doors
	Temporarily lock/unlock door or group of doors: Temporarily unlocks a door or group of doors for a preset delay. Once the delay expires, the door or group of doors re-lock automatically.
	Return to schedule: Will re-apply the locking schedule for a door or a group of doors.
	Enable card reader: Will enable a previously disabled door reader.
	Disable card reader: Will disable a door reader and user will not be able to access that door, even if they have access rights.
	Soft reset reader: will restart the reader by powering it off and then on again.
	Hard reset reader: will restore the reader to its original factory state. It deletes all programmed settings.

ⓘ **Note:** A hint is displayed when you move your cursor over a button. It gives details about the operation to be performed.

There are various reasons why you would want to perform one of these operations; for example you may need to “disable a reader” for a short period in order to deny access to the door, etc. This operation allows an operator to lock a door that was previously unlocked by an operator or a schedule. When a door is manually locked through the **Operation** menu, it remains locked until:

- The presentation of a valid card (will re-lock after access), or
- The next valid change of the automatic unlocking schedule (for a door defined with an unlocking schedule), or
- An operator manually unlocks the door.

Selecting a Door or a Door Group

1. From the **Operations** window, select the **Door** button. The **Door** window appears.
2. Click the **Enable animation** button to view a real-time display of the door status.
 - The left-hand pane displays the list of all **Sites**. You may select all or select one site.
 - The individual doors associated with the site selected on the left are displayed in the top right side of the pane. If you select **All** on the left, all doors in the system will be listed on the right. You can select one, several or all doors.
 - ⓘ **Note:** If only one site is defined in the system, the site list window will not appear on the Controller window.
 - **Door groups** associated to the site selected on the left are displayed at the bottom right side of the pane. If you select **All** on the left, all door groups in the system will be listed at the bottom right. You can select one or several or all groups.

- ① **Note:** The **Door Group** bottom panel is available only to the selected site or to a selected connection not linked to a site.

Locking a Door Manually

1. In the **Door** dialog, select desired door(s) or door group.
2. Click the **Lock-door** button in the toolbar.

Unlocking a Door Manually

1. In the **Door** dialog, select desired door(s) or door group.
2. Click the **Unlock-door** button in the tool bar. The selected door(s) will be manually unlocked. The system will prompt for operator confirmation. A door defined with an automatic unlocking schedule will remain unlocked until:
 - The next valid change of the unlocking schedule, or
 - An operator manually locks the door.

Unlocking a Door Temporarily

About this task:

EntraPass allows you to temporarily unlock a door for a preset delay. Once the delay expires, the door re-locks automatically. You can use this option in cases where you need to grant access to a user who does not have a card or has forgotten his/her card.

- ① **Note:** The maximum unlock time: 4:15 (255 seconds).

1. Click the **Temporarily unlock** button. The **Change delay on action** dialog will popup.
2. Enter the **New time delay (m:ss)** and click **OK** . The selected door will be temporarily unlocked by an operator.
 - ① **Note:** If a door contact is installed, the door will re-lock as soon the system sees a “door open-door closed” transition. There is no “Animation” for this type of operation.

Resetting a Door Schedule

About this task:

EntraPass allows you to reset a door schedule after a manual operation has been performed on a component.

1. In the **Door** dialog, select desired door(s) or door group.
2. Click the **Return to Schedule** button. This option will reset the schedule for the selected components.

Enabling a Door Reader

1. In the **Door** dialog, select desired door(s) or door group.
2. Click the **Reader-enable** button. This option enables a previously disabled door reader.

Disabling a Door Reader

1. In the **Door** dialog, select desired door(s) or door group.
2. Click the **Reader-disabled** button. This option disables a previously enabled reader. Disabling a reader prohibits users from accessing the door, even if access rights have been granted.

Modifying access level schedule

About this task:

Using the door's operation menu you can manage the access levels of the door directly.

1. In the **Door** dialog, select a door.
2. Right-click on the door and select **Access Level**. This window displays all access levels where the door can be assigned.
3. To create a new schedule, right-click on the **Schedule** section and select **New**.
4. To edit existing schedules, right-click on the **Schedule** section and select **Edit**.
5. To apply an existing schedule to an access level, click on the drop-down list beside the schedule.

Result

For more information about access levels, click [here](#).

Manual operations on elevator doors

This dialog allows an authorized operator to manually lock, unlock or temporarily unlock elevator floors. The window also displays, in real time, the status of the selected elevator door or doors.

- The cardholder pushes an **up/down** button, the elevator door opens.
- The cardholder presents its card at the reader (usually inside the cab).
- The system checks if the schedule assigned to this door is valid. If yes, the system checks which floor group is associated to this door.
- Then the system verifies each floor of the floor group (in the floor group menu) and checks if the schedule associated to each floor of the group is valid or not valid.
- Only floors that have a valid schedule are available for selection by the user (the elevator panel enables the buttons corresponding to the floors).

Table 8: Elevator door icons

Icon	Definition
	Lock elevator floor or group of elevator floors: will manually lock the selected elevator floor or group of elevator floors.
	Unlock elevator floor or group of elevator floors: The selected elevator floor or group of elevator floors will be manually unlocked and will remain unlock until the next valid change of the unlocking schedule or an operator manually locks the elevator floor or group of elevator floors.
	Temporarily lock/unlock elevator floor or group of elevator floors: Temporarily unlocks an elevator floor or group of elevator floors for a preset delay. Once the delay expires, the elevator floor or group of elevator floors re-lock automatically.
	Return to schedule: Will re-apply the locking schedule for a door or a group of doors.
	Enable card reader: will enable a previously disabled reader.

Table 8: Elevator door icons

Icon	Definition
	Disable card reader: will disable a reader and users will not be able to access any elevator floor, even if they have access rights.
	Enable elevator floor: will enable a previously disabled elevator floor or floor group.
	Disable elevator floor: will disable an elevator floor or floor group and users will not be able to access that elevator floor or floor group, even if they have access rights.

- ① **Note:** A hint is displayed when you move your cursor over a button. It gives details about the operation to be performed.

Selecting an Elevator Door

1. From the **Operations** menu, select the **Elevator door** button.
2. Click the **Enable animation** button to view a real-time display of the elevator door status.
 - The left-hand pane displays the list of all **Sites**. You may select all or select one connection.
 - The individual elevator doors associated with the connection selected on the left are displayed in the top right side of the pane. If you select **All** on the left, all elevator doors in the system will be listed on the right. You can select one, several or all elevator doors.
 - **Elevator door groups** associated to the connection selected on the left are displayed at the bottom right of the pane. If you select **All** on the left, all elevator door groups will be listed at the bottom right. You can select one or several or all elevator door groups.
 - ① **Note:** The **Door Group** bottom panel is available only to the selected site or to a selected connection not linked to a site.

Locking Floors from Elevator Doors

1. Select an elevator door or a group of elevator doors.
2. Click the **Lock** button in the toolbar. This command will manually lock the floor group that was previously unlocked by an operator or a schedule.
 - ① **Note:** A door defined without an unlocking schedule will only be locked by a manual command. To lock all floors that were previously unlocked, use the **Unlock** option in the Manual operation on doors menu.

Unlocking Floors from Elevator Doors

1. Select an elevator door or a group of elevator doors.
2. Click the **Unlock elevator floors** button in the toolbar to unlock a previously locked floor. This command will only enable the elevator floors that are defined with an "X" in the "" column of the Floor group Definition menu. If you do this, the system will prompt the you to select a floor group that should be unlocked (available). Once the group is selected, the system will prompt the operator to confirm the operation.

- ① **Note:** For a door defined with an “automatic unlocking schedule”, floors will remain available until the next valid change of the unlocking schedule, or an operator manually locks the door.

A door defined without an unlocking schedule will only be locked by a manual command. To lock all floors that were previously unlocked, use the Unlock option in the Manual operation on doors menu.

When a manual unlocking operation is completed, only floors that are defined with an “X” in the “” field of the Floor Group Definition menu will be available for selection. Also, when communication is lost and the controllers are working in stand-alone mode, only the floors marked with an “X” will be available for selection and the access schedule will be ignored.

Unlocking Floors from Elevator Doors Temporarily

About this task:

EntraPass allows you to temporarily unlock a floor from an elevator door for a preset delay. Once the delay expires, the elevator door re-locks automatically. The maximum unlock time: 4:15 (255 seconds).

1. Click the **Temporarily unlock** button. The **Change delay on action** dialog will pop up.
2. Enter the **New time delay (m:ss)** and click **OK** . The selected elevator floor will be temporarily unlocked by an operator.

- ① **Note:** This command will only temporarily enable the elevator floors that are defined with an “X” in the “” column of the “Floor group Definition menu” (available for selection).

There is no “Animation” for this type of operation. To temporarily unlock all floors, use the “temporarily unlock door” option in the “manual operation on doors” menu.

Resetting an Elevator Door Schedule

About this task:

EntraPass allows you to reset an elevator door schedule after a manual operation has been performed on a component.

1. In the **Elevator door** dialog, select desired elevator door (s) or door group.
2. Click the **Return to Schedule** button. This option will reset the schedule for the selected components.

Enabling an Elevator Floor

1. In the **Elevator floor** dialog, select desired floor(s) or floor group.
2. Click the **Enable elevator floor** button. This option enables previously disabled elevator floors or floor group.

Disabling an Elevator Floor

1. In the **Elevator door** dialog, select desired floor(s) or floor group.
2. Click the **Disabled elevator floor** button. This option disables a previously enabled elevator floor. Disabling a floor prohibits users from accessing the floor, even if access rights have been granted.

Manual operations on gateway

Manual operations on the gateway feature allows operators to refresh and reload gateway data .

Redundant gateway operations

About this task:

If a redundant server has been used in a number of ways. It becomes active following the failure of the primary gateway. It can also be manually switched to. This may be used for primary gateway maintenance. If a redundant gateway is automatically switched to the primary gateway can only be reinstated manually.

1. From the EntraPass workstation main window, select the **Operation** tab and click the **Gateway** button to open the **Gateway** dialog where all the gateways connected to your system are listed.
2. Select your multi-site gateway to see the status of all gateways.
3. Right-click on a gateway to view options.
4. **Select as online gateway** to reinstate primary gateway.

Result

A green square highlights the active gateway. A yellow square highlights non-active gateways.

- ① **Note:** Gateways can be reloaded individually or together. To reload a gateway individually right-click the gateway and select **Reload**. To reload the gateways together right-click the multi-site gateway and select **Reload**. This reloads all associated gateways.

Manual operations on inputs

This dialog allows you to bring an input back to its normal state, or to stop monitoring an input, or monitor a specific input at all times, or to perform a temporary shunt on a selected input, if it had been previously modified from its original state as setup in the Device menu.

Table 9: Input icons

Icon	Definition
	Input normal: returns an input to its normal state as setup in the Device menu.
	Input continuous supervision: will monitor the selected input at all times.
	Input with no supervision will terminate the input monitoring, regard-less of its schedule, and will start monitoring with the next pre-defined schedule.
	Input no supervision temporarily (Shunt): will stop input monitoring for a pre-set period of time.

- ① **Note:** A hint is displayed when you move your cursor over a button. It gives details about the operation to be performed.

Performing Manual Operations on Inputs

1. From the **Operation** window, select the **Input** button.
2. Click the **Enable animation** button to view a real-time display of the relay status.
 - The left-hand pane displays the list of all **Sites**. You may select **All** or select one connection.
 - The individual input associated with the connection selected on the left are displayed in the top right side of the pane. If you select All on the left, all inputs in the system will be listed on the right. You can select one, several or all inputs.

- **Input groups** associated to the connection selected on the left are displayed at the bottom right side of the pane. If you select **All** on the left, all input groups in the system will be listed at the bottom right. You can select one or several or all input groups.
 - ⓘ **Note:** The **Input Group** bottom panel is available only to the selected site or to a selected connection not linked to a site.

Returning an Input to Its Normal State Manually

About this task:

This option is used in cases where an input status has been modified by an operator and you want to return the input to its normal state. For example, if an input is assigned a monitoring schedule in its definition and an operator has reversed the state of the input making it “not supervised”, it can be returned to its normal state using this button.

1. Select an input or a group of inputs.
2. Click the **Input normal button** . The selected input returns to its normal state as defined in the **Device** menu.

Stopping Monitoring an Input

About this task:

You will use this option to terminate the input supervision, regardless of its schedule (if defined).

1. Select an input or a group of inputs.
2. Click **Input no supervision** . The selected input will not be monitored.

Stopping Input Supervision (Shunt) Temporarily

About this task:

You will use this option when you want the system to bypass a specific input, for a specific period of time.

1. To temporarily shunt an input, select the input, then click the **Temporarily shunt** button. The input will not be monitored temporarily.
2. Click **Input no supervision temporarily**. The **Change delay on action dialog** will popup.
3. Enter the **New time delay (m:ss)** and click **OK** . An button next to the input will indicate that it is temporarily shunt. If an alarm occurs, or if the input is disconnected, no message will be sent to the **desktop Message list**.

Manual operations on integrated panels

1. On the EntraPass workstation, click **Operations** and click **Integrated Panel**.
2. If required, select a specific component from the **All components** list.
3. In the left column, right-click a **panel**.
4. Click **Full status** to view the panel status details.
5. Click **Virtual Alarm Panel** to view the virtual keypad.
6. Right-click a **partition**.
7. Click **Arm partition** or **Disarm partition** as required.
8. Right-click a **zone**.
9. Click **Zone bypass** or **Zone unbypass** as required. When the panel is next disarmed, the zone returns to its unbypassed state.

Manual operations on action scheduler

Use the Action scheduler to create actions with the option to program one-time actions or recurring actions. The initial input interface is a calendar layout, to open a new action in the scheduler window, double-click a date. You can view existing actions in a daily, weekly, monthly or yearly format and use the Action scheduler tag to filter the type of actions displayed.

The initial view includes a list of programmed actions, and include the following details: who requested it, the date and time it is scheduled for, what the action is, a full description of the action, whether it is a recurring action or not and, the used and total recurring count.

You control permissions for the Action scheduler in Action Scheduler under the **Operations** menu. The icon is a calendar page with a timer, and is automatically installed on a system update. A security item is also added for this feature and it is located under the **Operation** menu, **Action scheduler** of the security level menu.

- ① **Note:** To program actions the default security setting for Installer and Administrators is, allow which, is indicated by a green icon, the default security setting for Operators is, not allow indicated by a red icon. To change this, expand the **Operation** tree and select **Action Scheduler**.

Table 10: Action scheduler icon

Icon	Definition
	Action Scheduler: This creates actions that are either one-time actions or recurring actions. It provides a calendar view of all programmed actions with filter, search and tag capability.

Programming the Action scheduler

About this task:

The following table outlines the controller compatibility and firmware requirements for this feature.

Table 11: Controller and firmware compatibility

Controller	V3 Assa-Abloy firmware compatibility	Gateways	Fail-soft mode
KT-2, all firmware versions	Yes	Multi-site, Global, KT-NCC	Yes
KT-1, firmware 2.00 and higher	Yes	Multi-site, Global, KT-NCC	Yes
KT-400, rev 1, firmware 1.29 and higher	Yes	Multi-site, Global, KT-NCC	Yes
KT-400, firmware 1.23 and higher	Yes	Multi-site, Global, KT-NCC	Yes
KT-300	No	Global, KT-NCC	No
KT-200	No	Global, KT-NCC	No

To program the Action scheduler, complete the following steps:

1. Click the **Operation** tab, and select **Action scheduler** from the menu.
2. From the calendar interface, double-click the date you want, or click the **Add** button on the upper left panel.

3. In the **Action scheduler** window, enter a name for the action in the primary or secondary fields.
4. From the **Action** list, select the appropriate action, the default action is **Unlock door**.
 - ① **Note: Execute task** is a new action that selects an existing task builder as a component, an option to select a specific time zone is available, where the default is based on the location of the local server. When you create a new action schedule by right-clicking a component from the **Operation** menu, the menu only displays actions appropriate to that component. For wireless door connections, use V3 of the Assa-Abloy firmware with any of the compatible controllers listed in the table, Controller and firmware compatibility.
5. In the **Schedule date and time** fields, select the appropriate values. The default day is the current day, and the default time is one hour later than the current time.
 - ① **Note:** If you select a temporary action, an end time box appears. If an action has a dual function such as Activate and Deactivate, **Date and Time** fields appears.
6. In the **Action scheduler tag** field, create a name to tag the action scheduler. The tag populates a list used to filter all actions. Each new name generates a new tag, 50 tags is the maximum amount possible. If no action uses a tag, it is automatically removed from the list.
7. Optional: Select the **Recurring** checkbox if you want the action to repeat. In the **Frequency** list, choose from **Daily**, **Weekly**, **Monthly** or **Annually**. Set the counter to the amount of times you want the action to repeat, this is a static setting and 99 is the maximum amount of times available. A dynamic counter is visible in the lower section of the calendar view.
8. Select the **Delete when expired** check box to delete the action after the programmed amount of recurrences.
 - ① **Note:** To ensure different time zones are adhered to, EntraPass deletes actions 24 hours after midnight of the day of execution. For example, an action programmed for Monday 15:00 is deleted the following Wednesday at 00:00.
9. You must use one of the eight **Component** fields for an action.
 - ① **Note:** If you want the action to work in stand-alone mode, use only new generation controllers such as the KT-1, KT-400, KT-400 rev1, or KT-2.
10. Click the **Save** button.

Programming the Action scheduler from the Door or Relay windows

About this task:

The following steps outline how to program the Action scheduler from the **Door** window, the same steps apply if programming the Action scheduler from the **Relay** window:

1. Click the **Operation** tab, and click **Door** from the menu.
2. In the **Door** panel, select the appropriate door and right-click.
3. Click **Action schedule** to open the **Action scheduler** window.
4. Complete steps 3 to 9 in **Programming the Action scheduler** procedure.

Printing the Action scheduler calendar

About this task:

A report on all **Action scheduler** actions is available. To print the report, complete the following steps:

1. From the **Action Scheduler** window, click the **Print** button.

2. Select the actions you want to include in the report, use **Select all** or **Unselect all** to assist your choice.
3. The report lists actions beginning with the nearest date and time to the furthest away.
4. Actions include the following items:
 - Name
 - Action
 - Which components
 - Date
 - Time, start time, and end time
 - Recurring schedule with counter
 - Time zone if applicable

Manual operations on relays

Use this menu to manually change the state of a relay or group of relays. You can activate/deactivate and temporarily activate relays or group of relays manually. The window will also display, in real-time, the status of the selected relay(s).

This feature allows to manually turn off a relay; for example, when an input programmed to activate a relay goes in alarm in unknown conditions.

Table 12: Relay icons

Icon	Definition
	Deactivate relay: allows an operator to deactivate a relay which was previously activated by an operator, event, schedule or input in alarm.
	Activate relay: activate a relay which was previously deactivated by an operator, event, schedule or input in alarm.
	Temporarily activated relay: Temporarily activate a relay or group of relays for a preset delay.
	Return to schedule: Will re-apply a schedule after a manual operation was performed on a component.

Note: A hint is displayed when you move your cursor over a button. It gives details about the operation to be performed.

Selecting Relays

1. From the **Operation** window, select the **Relay** button.
2. Click the **Enable animation** button to view a real-time display of the relay status.
 - The left-hand pane displays the list of all **Sites**. You may select All or select one connection/gateway.
 - The individual relays associated with the connection selected on the left are displayed in the top right side of the pane. If you select **All** on the left, all relays in the system will be listed on the right. You can select one, several or all relays.
 - **Relay groups** associated to the connection selected on the left are displayed at the bottom right side of the pane. If you select **All** on the left, all relay groups in the system will be listed at the bottom right. You can select one or several or all groups.

- ① **Note:** The **Relay Group** bottom panel is available only to the selected site or to a selected connection not linked to a site.

Deactivating a Relay Manually

1. Select a relay or a group of relays.
2. Click the **Deactivate Relay** button.
 - ① **Note:** If you manually deactivate a relay that is usually activated according to a schedule, it will remain deactivated until its reactivation schedule becomes valid. This means that if a relay needs to be activated according to a schedule and you deactivate it, remember to reactivate it again for the remaining scheduled time, because one relay can be defined for various components of the system; its activation or deactivation will relate to its configuration within these components.

Activating a Relay Manually

1. Select a relay or a group of relays.
2. Click the **Activate Relay** button. The selected relay(s) will be activated. This operation allows an operator to activate a relay which was previously deactivated by an operator, event, schedule or input in alarm.

Activating a Relay Temporarily

1. In the right-hand pane, you may select a relay in the upper part of the window, **All Relays** in the lower part of the window.
2. Click the **Activate relay temporarily** button. The **Change delay on action** window will popup on screen.
3. Enter the **New time delay (m:ss)** and click **OK** . The selected relay will be temporarily activated by an operator.
 - ① **Note:** The selected relay (s) will be temporarily activated. This is useful for an operator who would like to activate temporarily a relay which was previously deactivated by an operator, event, schedule or input in alarm. The system displays a message box requesting that a temporary activation delay, is entered. When this delay is over, the relay will be deactivated automatically.

Resetting a Relay Schedule

About this task:

EntraPass allows you to reset a relay schedule after a manual operation has been performed on a component.

1. In the **Relay door** dialog, select desired relay(s) or relay group.
2. Click the **Return to Schedule** button. This option will reset the schedule for the selected components.

Manual operations on sites

The manual operations on site and connection feature is used to poll unassigned controllers. For example, when a controller has been added in the system without a serial number, you can use this command to get the controller serial number.

Table 13: Site icons

Icon	Description
	Connect to remote site: Click to connect to a remote site using a pre-configured dial-up connection.
	Disconnect remote site: Click to close the connection between this EntraPass workstation and the remote connection.
	Disable remaining time: Click to stay connected until clicked again. This action disables preset connection remaining time. This action bypasses any idle time.
	Update remote connection: After selecting connection, click to connect and update parameters.
	Update all remote connections: Click to connect and update parameters on all connection starting with the first connection on the list.
	Remove connection from connect and wait list: Select a connection then click to suspend connection after all connections had been set for update.
	Reload IP Link firmware: will force a reload of the selected Kantech IP Link firmware. NOTE: For security reasons, the System Administrator may disable this button.
	Broadcast IP Device: will send a signal to the selected Kantech IP Link and also the KT-400 IP controller.

① **Note:** A hint is displayed when you move your cursor over a button. It gives details about the operation to be performed.

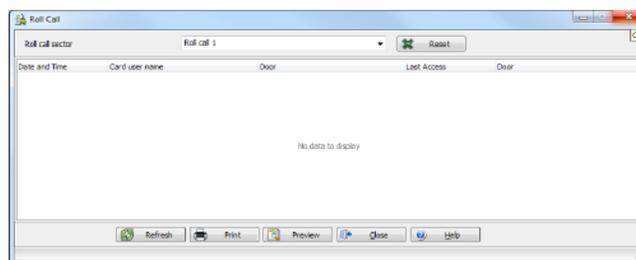
Performing Manual Operations on a Site/connection

1. From the **Operation** window, click on the **Site and Connection** button to open the **Site and Connection** window, then select the site/gateway to which the site/connection is connected.
2. To poll a controller that is not assigned, click the **Controller** button. A message is sent to an unassigned controller, asking it to identify itself. When the controller receives the call from the connection, it sends an acknowledgement message in the **Message desktop**.
3. You may select the **Message desktop** to view the controller serial number.

① **Note:** The % column shows the communication performance of a selected connection. If the percentage is too low (below 75% for instance), it may indicate that the connection is not communicating efficiently. Communication problems may stem from various reasons such as interferences, damaged cables, etc.

Manual operations on view roll call

This feature is used to visualize the users entering a pre-defined perimeter. When a user enters this area, the corresponding data is displayed in the following dialog:



For more information, see [Roll Call Report](#).

Users

Users contains information on how to add, import, define, and export a user's card details. Cardholder features include the following: access levels, usage restrictions, audit trail, privileges, managing groups, tenants, badges, and personal information.

Access Levels Definition

About this task:

Access levels determine where and when the card will be valid. Pre-programmed card access groups allow quick selection of access levels for various sites. A total of 248 access levels can be programmed per connection . To assign an access level to a card, you have to:

- Create schedules that correspond to the time the user has access to the desired doors.
 - Assign the created schedule to the desired doors (in the Access level definition menu).
 - Assign the access level to a card.
1. The default access level is Always valid, all doors : cardholders assigned this default access level have access to all doors at any time. To restrict access to certain doors and at a certain time, you have to create a specific access level.
 2. From the Users toolbar, select the **Access level** button. The Access level window appears.
 3. Click **New** and assign a meaningful name to the access level you are creating.
 - ① **Note:** Components that are displayed in the Doors and Schedule columns have to be pre-defined for selection. To define Doors: **Devices > Door**. To define Schedules: **Definition > Schedule**.
 4. From the **Doors** list, select the doors to which the cardholder has access.
 5. From the **Schedule** column, select the schedule during which the cardholder will have access to the corresponding door.
 6. From the Floor group column, select the floor group, if applicable.
 7. Click the **Comment** tab to add comments to the current access level. You can double-click in the blank space to display the edition window.

Badge Designing

EntraPass contains a badge layout editor for users to create, save, edit or delete badge templates that are later selected and associated with cards for badge printing. You can create and edit badge templates, add coloured or graphic backgrounds, logos, text, bar codes, and place photo or signature holders.

Creating a Badge Template

1. From the Users menu, select the **Badge** button. The Badge window appears.



- ① **Note:** The printer configuration description must be first entered from the **System Parameters/Credentials** menu.

The Badge window contains all the tools available in other EntraPass windows: new, save, copy, delete, print, links, search (the Hierarchy button is disabled). However, it contains an additional 1-2 button which allows to modify the number of sides assigned to a badge layout.

2. Click the **New** button in the toolbar. The Badge properties window appears.

To Specify Properties for a Badge Layout

1. In the Badge properties window, indicate the number of sides for the badge, then select the desired size for the badge layout, then click **OK**.
2. Indicate the number of sides for the badge, then select the desired size for the badge layout, then click **OK**.
 - ① **Note:** Measures are expressed either in inches or millimeters (a hundredth of an inch or a tenth of a millimeter). To change the unit of measure, check the appropriate radio button in the Units section.
3. Enter the name for the badge template in the language fields. You can enter up to 40 characters.
4. You may check **Set as default card layout** if you want this new design to be automatically used for all new badges.
 - ① **Note:** Only one default layout is available. When you select one layout and check the option **Select as default card layout**, the current default layout is replaced.
5. Click the **Save** button to save the badge template.

To Edit a Badge Layout

The Badge design utility allows users to edit the badge layout, to add background colour or graphics, to modify the font, etc.

- ① **Note:** When you move the cursor over the badge design objects, a hint explaining each object appears. Once a card layout is created, you cannot modify its size; you have to create a new layout. However, you can modify the number of sides by clicking on the Sides button in the Badge window toolbar.

To Modify the Number of Card Sides

1. From the badge window, select the badge you want to edit.
2. From the Badge window toolbar, click the 1-2 button.
3. Click the **Save** button to save the new badge information.

To Modify the Background colour

1. From the Badge window, select the badge you want to modify.
2. Click the **Click here to modify the card layout** button (located in the lower part of the window) to open the Badge design window.
3. To modify the template background colour, right-click anywhere in the work area. The **Properties** shortcut menu appears.
4. Select **Properties**. The Background properties window appears.
5. Select the appropriate options for the template:
 - **No background** (default setting)
 - **Use colour as background:** this option will allow you to apply a background colour to all the designs.
 - **Use image as background.** This option allows you to incorporate an image that will be displayed as a watermark in all the badges.
 - **Orientation:** allows you to select a landscape (horizontal) or portrait (vertical) display.

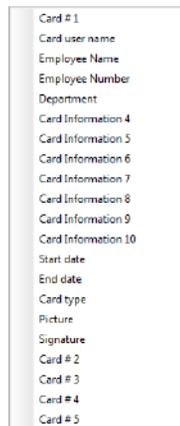
To Add Objects to a Badge Layout

By a simple click and drop feature, the Badging utility permits you to incorporate objects into the badge template:

- Card fields information
 - Bar codes
 - Text boxes
 - Current date
 - Previously saved images and logos (BMP, JPG, GIF, etc.)
 - Border
 - Rectangle (including rounded rectangle and ellipse)
 - Line, pointer
- ① **Note:** Objects are incorporated with their default settings. To modify an object's properties, right-click the object, then select appropriate settings from the shortcut menu.

To Incorporate Card Information Fields

1. To add card information fields to the badge template, click the **Card fields** button. The **Card fields** submenu appears.



2. To modify an object property before you drop it, go to **Options** in the Badge design window, then choose **Show properties on drop**. If you do this, the Properties window will open every time you drop an item in the template work area.
 - ① **Note:** To enable last and first name selection in the Card fields menu of the Badge design window, go to the Options menu, then choose System parameters, select the User name format tab, check Parse user name checkbox, then select the name (first or last name) that will be used for sorting cardholders names. For more information see [User Name Format](#).
3. From the shortcut menu, select the card information field you want to add to the template layout, then click in the template work area to incorporate that field you have selected.
 - ① **Note:** When you add a photo to a badge design template, the photo that appears is only a placeholder. It indicates where the card holder's photo will be displayed. When a badge is assigned to a card, the appropriate card holder's photo is displayed.

To Align Objects in the Template Layout

Grids assist you in aligning items in the badge layout template. It can be used as a visual aid to place items on grid lines.

Three options are available to help you align your objects in the badge template:

- **Show grid lines:** displays grid points to aid with object alignment.
- **Align to grid:** must be activated before you start building your template. As you “click and drop” design objects in the template work area, they will be “snapped” to the nearest grid mark.
- **Grid settings:** allows you to specify the horizontal (Height) and vertical (Width) grid spacing (in pixels).

① **Note:** To disable the grid deselect **Show grid line** in the Align menu.

To Modify Card Fields Properties

About this task:

Objects are incorporated in the template with their default settings (font, colour, etc.). You can modify the settings later. For example, you can modify the appearance of any text object, such as card field, static text, date, etc.

1. From the Badge design template, right-click the object you have inserted (in this example, Card information fields).
2. From the shortcut menu, select **Card fields properties**.

① **Note:** The Properties menu item depends on the selected item. For example, it will change to Image properties or Current date properties, depending on the selected object.

3. From the Card fields properties window, you can modify all the text properties:

- Font (name, colour, style (bold, italic, underline)),
- Background (transparent or solid with a colour),
- Justification (horizontal, vertical),
- Orientation,
- Parameters (word wrap, for example).

① **Note:** The Set as default checkbox allows you to apply all the characteristic to all text objects that will be incorporated in the template.

When Text Orientation is set to “Other” it is not possible to re-size the field.

To Modify Picture Properties

About this task:

This applies to any picture object such as photos, logos, and signatures.

1. From the Badge design work area, right-click the image (picture, logo) or signature that you want to modify.
2. From the shortcut menu, select **Images properties**.
3. You may select another image from file or modify the image properties:

- **Stretch ratio:** select this option if you want the image to be centered in the image holder space, while keeping the proportion of the original image.
- **Transparent mode:** if you choose this option, there is no background colour,

- **Draw frame:** select this option if you want a frame around the picture object,
 - **Frame colour** (enabled when a Frame option is selected): select this option if you want to apply a specific colour to the image frame. The Frame colour drop-down list enables you to select a custom colour from the frame.
4. You may check the **Set as default** option if you want these properties to apply to all image objects you add in the badge template.

To Add Static Text Objects

About this task:

To add text objects to a badge, first click and drop a text box, then enter the text in the Text properties window. It is also in the Text properties window that you modify the text appearance.

1. From the Badge design tool bar, click the text button. To re-size the text box, select it and use the two-headed arrow to drag the sizing handles to the desired position. This also allows you to change the height and width of the text box.
2. To align the text box, see To Align Objects in the Template Layout.
3. To add text to the text box, right-click the text box, then select **Static text properties** from the shortcut menu.
4. Enter text in the **Enter text** field; then modify the text properties as desired. The Preview section shows the result of the changes you apply to the text.

To Add Bar Codes

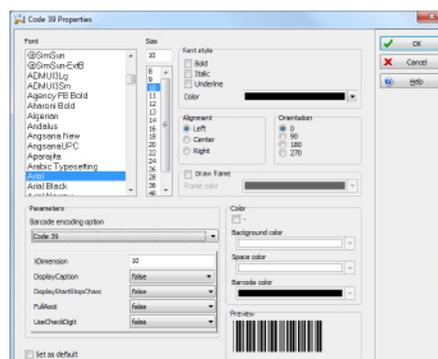
About this task:

The Badging feature allows users to add bar codes to badges. By default, the bar code value is the card number, if no other value is specified.

1. From the Badge design window, click the **Bar code** button, then click in the Badge design work area.
2. To align the bar code, see To Align Objects in the Template Layout.

To Set Up Bar code Properties

1. From the Badge design window, right click the bar code to open the Bar code Properties window.



Supported Encoding Options:
 Code 39 or Code 39-Modulo 43
 POSTNET
 Codabar
 EAN 3 & EAN 13
 UPC A
 UPC E
 Code 2 of 5
 Interleaved 2 of 5
 Code 128

2. From the Properties window, you can define settings for the bar code that you want to incorporate in the Badge design.
 - ⓘ **Note:** If it is necessary to set Bar code encoding option to Code 39-Modulo 43, set Field Checksum to true.

To Add the Current Date

About this task:

You add the current date just as you add any other design item by selecting the item in the tool bar, then by clicking in the Badge design work area.

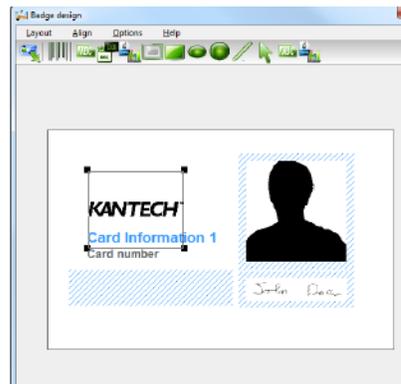
1. From the Badge Design template, select the **Current date** button, then click in the Badge design work area.
2. Right-click the current date to display the shortcut menu.
3. To align the current date, see To Align Objects in the Template Layout.
4. Select **Current date properties** from the shortcut menu.
5. From the Current date properties window, you can:
 - Select the date format (top of the window)
 - Change the text properties: font, colour, justification, orientation etc.

Adding an image

About this task:

You can import background images from any directory. You can incorporate scanned images, photos taken with a digital camera and artwork created in any illustration design program into the badge design.

1. In the **Badge design** window, click the **Picture** icon.
 - ① **Note:** The Badging feature supports most available image formats: BMP, JPG, EMF, WMF, GIF, PNG, PCD, and TIF.
2. Drag the **Picture** icon to the template work area. The Image properties window appears.
3. In the **Image properties** window, click the **Select image from file** button.
4. In the **Open** window, browse to the desired image, and click **Open**. The picture appears in the template area.



- ① **Note:** When you import an image, you have to re-size it to its original size, as illustrated in the figure.
5. Using the sizing handles, adjust the image to the desired size, then move it to the right-hand position; you can use the grid to align it properly. For more information, see [To Align Objects in the Template Layout](#).
6. Right click the image to modify its properties. For more information, see [To Modify Picture Properties](#).

To Place Other Design Objects

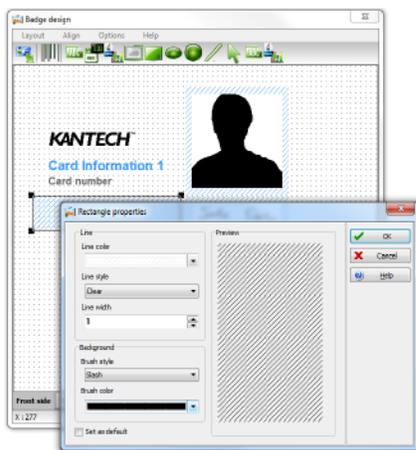
About this task:

The Badging feature lets you add borders, rectangles (regular, rounded, ellipse), lines and pointers, just as you add any other design object, by a click in the toolbar, then a drop in the design work area.

1. From the Badge design window, select the object you want to add (next to the Diskette button), then click in the Badge design work area” The Border properties window opens.
2. To modify the border properties, select the border colour, the border style, and the border width. You may check the **Set as default** option, then click **OK** to exit.

To Place a Rectangle

1. From the Badge design window, select the rectangle tool (next to the Border tool), then click in the work area.



① **Note:** This applies also to rectangles, rounded rectangles and ellipses.

2. From the Rectangle properties window, you may define the rectangle properties before importing it:
 - Line colour,
 - Line style,
 - Line width,
 - Background (brush style and brush colour).

Printing Badges

You may print badges from a **Card** or from all **Badge preview** windows. The software is set up to let you print one single or double-sided badges.

Before you print, you have to select a badge printer. It may be any network printer, or a specific badge printer.

Selecting a Badge Printer

1. From the EntraPass Workstation window, select the **Options** toolbar, then click the **Printer Options** button.
2. From the **Printer options** window, select the **Badge printer** tab.
 - ① **Note:** You can print badges to any network printer. However, to print badges on appropriate cards, you have to select a badge printer.

3. Check the **Badge printer** option to indicate to the system that a badge printer is selected. If the **Badge printer** option is checked, the Print badge and Preview badge are displayed in windows where you can print badges (Card windows).
4. From the **Select badge printer** drop-down list, select the printer dedicated to badging.
5. Adjust the margins:
 - Origin offset, X axis: Indicates the left margin.
 - Y axis indicates the upper margin.

Previewing and Printing Badges

About this task:

The **Badge - Preview and Print** window allows you to preview a badge layout with card information (if the badge layout is associated with a card) or with default values (if the template is not yet associated with a particular card). The program permits you to print single or double sided badges.

1. From the Card window, click the **Preview badge** button.
 - ① **Note:** From the Badge design window, the preview option allows you to view a badge with default values since there is no card associated with it.
2. From the **Badge - Preview and Print** window, choose a printing option:
 - **Print front side:** only the front side (preview in the left-hand pane) is printed.
 - **Print back side:** Only the back side (preview in the right-hand pane) is printed. This button is enabled only when the badge is defined with two sides.
 - **Print both sides:** The front and back side are printed. This button is enabled only when the badge is defined with two sides.
 - **Important:** In order to print badges with bar codes, your printer has to be properly set. You have to select the "black resin" option, otherwise, bar code readers may not detect the bar code. If you have problems with bar code printing or reading, refer to your printer manufacturer's manual.

Card access groups definition

About this task:

Pre-programmed card access groups allow quick selection of access levels for various sites of the system. This card access group can be recalled during card programming instead of re-entering the access levels for each connection. It is only the card access group information that is associated with the card. Therefore, you can modify the card access group information without modifying the card access information.

- ① **Note:** When importing cards, the card access group may be used to assign an access level to the cards.
1. From the **Users** toolbar, click the **Card access group** button.
 2. To modify an existing card access group, select it from the **Card access group** list. To create a new group, click the **New** button and enter the group name in the language section. The **connection** column displays the connection associated with a card access group.
 3. From the **Access level** list, select the access level that will determine the access to the doors of the selected connection.

Card Printing

About this task:

Use the Print feature to print a specific range of all the cards that are stored in the database. You can select various filters to customize the card list. You can preview your list so that you can modify or verify the settings (fields) before printing. You can also use the **Font** button to set a different font and font size for your report.

① **Note:** Whatever your selections, the card user name and card number will always be displayed. By default, only fields containing information will be printed. If no fields are selected, only cards containing information will be printed. If you want to print empty fields, check the Print empty fields option. If you want to print component references, check the Print component references option. If you want to simply preview card reports there must be at least one printer installed on the computer.

1. From the **Card** dialog, click the **Printer** button.

① **Note:** By default, empty fields are not printed. To print empty fields, check the Print empty fields option.

2. Select a sorting criteria from the **Card Index** drop-down list. These are card information fields.

3. If you are printing a specific range, check the **Specific range** option. Select the field that will be used to sort the card list. For example, if you select **Card number**, the cards in the list will be sorted according to the card numbers in ascending order. This field can also be used to target a specific range of cards when using the **Lower/Upper boundaries** fields.

- If you want to print a specific range, you have to specify a starting number in the **Lower boundary** field. It has to be used with the **Upper boundary** field. You must use the "card index field".

- If you have decided to print a specific range and if you have entered a **Lower boundary** value, enter the last number or letter in the **Upper boundary** field. This field is used with the **Lower boundary** and the **Card Index** field.

① **Note:** Only cards that match ALL the selected filters will be printed. For example, if you specify six filters, all the six criteria must be met. Cards that do not match all the six criteria will not be included in the range.

4. Select the **Filter** option if you do not want the system to search through all the cards of the system. Filters will restrict the search and facilitate the production of the desired card list.

- **Start date between:** The system will include cards with a "Start date" field which is within the specified range (**Miscellaneous** tab).

- **End date between:** The system will include cards with a "Use end date" field which is within the specified range (**Miscellaneous** tab).

- **Card:** Check the option and then select the desired state. The system will include cards that have this card state selected in the **Card** window (**Miscellaneous** tab).

- Select the **Exist trace** for the system to include cards that have the "Card Trace" option in their definition (Card window, **Miscellaneous** tab).

- Select the **Exist comment** option for the system to include cards that have information in the **Comment** field in their definition (Card window, **Comment** tab).

- Select **Exist PIN:** The system will include cards that have a PIN.

- Select **Exist delete when expired:** The system will include cards that have information in the **Delete when expired** field (Card window, **Miscellaneous** tab).

- Select **Exist wait for keypad** for the system to include cards that have information in the **Wait for keypad** field (Card window, **Miscellaneous** tab).

5. To include specific data fields, select the **Print selected fields** check box, and select the fields you want to appear in the card profile report. Save the files in a CSV file format.
6. Click the **Select door access filter** button if you want to include cards associated to a door.
7. Select the **Based on time** option if you want to select cards according to the time or select **Based on schedule** if you want to select cards according to a defined schedule.
 - ① **Note:** To extend the selection, right click within Select door for access filter window.
8. Check the appropriate field you want to print. The system will include the field content as it appears in the card definition.
9. You may save the list as a .QRP file (Quick Report) to view later using the **Quick Viewer** option.
10. You can also use the “Font” button to use a different font and font size for your list. The changes will appear automatically in the sample box. Use the **Preview** button from the print window to preview your report.

Adding Comments to a Card

1. From the **Card** window, select the **Comment** tab.
2. Enter a comment (if necessary) relative to this cardholder. The displayed field can be used to store additional information in the database. Maximum allowed: up to 241 characters.
3. Click the **Save** button, then the **Close** button to exit.

Cards definition

Cards are defined by the following properties: card number, card user name, access level and status (valid, invalid, pending, lost/stolen or expired). Card records can be searched, sorted and deleted.

An activity report icon on the toolbar becomes available when you select a card. Use this icon to generate a quick report based on time parameters. The report contains the following information on the user's card: date and time, event message, card number, and many description columns. For more information on the report options, see [Previewing Reports](#).

Table 14: Activity report icon

Icon	Description
	Activity report: this generates a last transactions report based on the time parameters you enter. On completion of the report, EntraPass generates an event with details of who requested the report, and for what user.

Issuing a new card

1. Click the **Users** tab, and click **Card**.
 - ① **Note:** If you activated the enhanced user management, see [Issuing a new card in enhanced user management environment](#).
2. In the **Card** window, click the **New** icon. The Card number field is enabled.
3. In the **Card number** field, enter the number printed on the card and press **Enter**. If it is a new card, the **Card user name** field is initialized with “New user”. If the card already exists, the system displays information about the card.
4. In the **Card user name** field, enter the cardholder's name. You can enter up to 50 characters.

5. Click **Card type** to access the **Card type** menu. Select the card type for the new card. The card type is used to group cardholders; it is useful for tasks such as modifying an existing card group or creating reports. For more information on how to create or modify card types, see [Card Type Definition](#).
 - ⓘ **Note:** In the **Card type** window, you can right-click the **Card type** field and click **New** to create a new card type, click **Select** to pick an existing card type, or click **Edit** to edit an existing card type.

The system automatically displays the creation date, the modification date and the modification count information in the upper right of the card window.
6. Fill out the **Card Information 1 to 10** fields. These are user definable fields. They are used to store additional information regarding the cardholder. For example, you could use Card Information 1 to store the employee number; Card Information 2, Department where the employee works; Card Information 3, employee address. Later, card information fields will be used to index reports, customize cardholder lists, etc.
 - ⓘ **Note:** These information fields are editable labels. To rename an information field label, double-click it, then enter the appropriate name in the displayed fields. You can enter up to 50 characters.
7. Click the **Save** icon.

Card audit trail

About this task:

Use the card audit trail icon to view who made changes, and when the changes occurred on a card. To provide access to the Audit trail functionality, you must give permission to the operator to use **Audit** in the **System** group, for more information, see [Security level definition](#).

1. Click **Users**, click **Card**, and select a cardholder from the **Card user name** list.
2. To open the **Audit** window, in the toolbar, click the **Audit trail** icon.

The **Audit** window contains two tables, the first table contains the following card information:

 - **Color coded column:** indicates if the card was created, modified, or deleted.
 - Green: **Create**
 - Blue: **Modify**
 - Red: **Delete**
 - **Date and time:** the date and time an operator created, modified, or deleted the card.
 - **Operator:** the name of the operator who made the change.
 - **Count:** the number of fields that were changed.

The second table contains the following card information:

- **Reference type:** the connection, site, or gateway connected to the card that changed.
- **Reference:** the item the change references.
- **Field name:** the name of the GUI field.
- **Old value:** the value before the change occurred.
- **New value:** the value when the system saved the change.
- **Field description:** description of the field name.

To access the following column options, click the **Filter** icon on the upper left of the table.

- **Date type:** the database data type:

- **Time**
- **Integer**
- **Object**
- **Components**

- **Table name:** the database table name.

ⓘ **Note:** Define the results based on the amount of records, or by date. For more information see, **Server logs** in **System parameter**.

To access the context menu, select a table entry, and right-click. The following options are available:

- **CSV export selected:** export the selected entry of the card audit trail to a CSV format file.
- **CSV export all:** export the entire content of the card audit trail to a CSV format file.
- **View old value:** view a window with the value before the change.
- **View old value parent:** view a window of the parent of the selected component with the value before the change.
- **View old value link:** view a window representing a link to the component with the value before the change.
- **View new value:** view a window with the value after the change.
- **View new value parent:** view a window of the parent of the selected component with the value after the change.
- **View new value link:** view a window representing a link to the component with the value after the change.

Quick Access to Door List per Card

About this task:

This feature allows to quickly and conveniently display the list of doors with an associated schedule for all access levels of the selected user.

1. From the **Users/Card** menu, click the **Door access list** button:

Result



The information is displayed over five columns:

- Gateway/connection button
- Gateway/connection description
- Door description
- Schedule description

① **Note:** This information can be exported to a CSV file for printing and report purposes. The same information is also available from the View card information window by clicking the Door access list button:

Creating New Cards Using the “Save As” Feature

About this task:

The **Save as** feature allows you to create a new card based on an existing card, only making changes to specific information. For example: changing only the user name and keeping all other card information.

1. Type required changes into specific fields in the Card window and click the **Save as** button. This feature allows you to create a new card under a new card number.
2. Enter the new card number in the **New card number** field.
3. Select the **Keep/Delete original card** options to specify if the original card should be kept or deleted (usually kept), then click **OK** to save the new information. The Card window is displayed.

Issuing Cards Using the “Batch Load” Feature

About this task:

The Batch Load feature allows operators to issue cards by presenting cards to a door reader. The card number is displayed on an “unknown card” or “access denied” event messages. During a Batch Load operation, the operator can create new cards or modify existing ones.

1. From the Card window, click the **Batch Load** button.
2. From the **Door** drop-down list, select the door that will be used to read the cards.
3. Check the following options:
 - **Refresh an access granted:** if this option is checked, each time an access is granted the information displayed will be refreshed with data relative to the card.
 - **Save on new card:** if this option is checked, new cards will be saved in the card database on an “unknown card” event message. If this box is not checked, the operator will have to save the card manually each time a card is read.
 - ① **Note:** When this option is selected, the first card presented to the door reader will be saved only when presenting a second card or by pressing the save button.
 - **Find:** allows operators to search for an existing card in order to create a new card based on the existing card data.
 - ① **Note:** If an operator clicks the **Close** button without saving (when the **Save** button is still enabled), a system prompt will ask to save the last information.

Viewing and Verifying PINs

EntraPass enables you to view and validate each configured cardholders’ PINs in the Card window.

Viewing Cards Assigned the Same PIN

1. From the **Card** window, click the **List of PIN owners** button.
2. From the **Card** or **Visitor** window, click the **List of PIN owners** button.
3. Enter the PIN number you wish to validate and click OK. A list containing all operators that have a PIN number will be displayed on the screen.

- ① **Note:** If the system is set to PIN duplication (Options > System Parameters), and if the PIN is used by more than one cardholders, the system displays a list of cardholders who are using the PIN. This feature is useful when for example you want to display the list of cardholders who are using a given PIN or if you are issuing new cards and you want to verify which PINs are already being used.

Card handling

Finding a card using the toolbar search

1. On the EntraPass workstation, click **Users** and click **Card**.
2. In the **Card** window, on the toolbar, click the **Find** icon.
3. In the **Find a component (Card)** window, in the **Search** field, enter a keyword.
4. To narrow the search results, click one of the following buttons:
 - **Start with:** the list of results includes all of the components that start with the keyword you enter, in alphabetical order, and includes all other components that are in the database.
 - **Begin with:** the list of results includes only components that start with the keyword you enter.
 - **Contains:** the list of results includes all of the components that contain the keyword you enter.
5. **Optional:** The default search criteria is card user name. To change the search criteria, on the left of the **Search** field, click the **Index** icon and select which criteria you want to search, for example, card number or email.
6. **Optional:** To search for the picture that corresponds to the card that you select, click the **Details** icon.
7. Click the **Find** icon.
8. From the list of search results, select the card that you want to display.
9. Click **OK**. The card that you select displays in the **Card** window.

Alternatively, in the **Card** window, in the **Card user name** field, enter a user name. Existing user names display as you enter a value in this field. Select the card that you want to display.

For more information about searching in EntraPass, see [Finding components](#).

Finding a card using the card search window

1. On the EntraPass workstation, click **Users** and click **Card**.
2. In the upper left of the **Card** window, click the **Expand arrow** button.
3. In the **Find a component (Card)** window, in the **Search** field, enter a keyword.
4. To narrow the search results, click one of the following buttons:
 - **Start with:** the list of results includes all of the components that start with the keyword you enter, in alphabetical order, and includes all other components in the database.
 - **Begin with:** the list of results includes only components that start with the keyword you enter.

- **Contains:** the list of results includes all of the components that contain the keyword you enter.
5. **Optional:** The default search criteria is card user name. To change the search criteria, on the left of the **Search** field, click the **Index** icon and select which criteria you want to search, for example, card number or email.
 6. Click the **Find** icon.
 7. From the list of search results, select the card that you want to display.
 8. Click **OK**. The card that you select displays in the **Card** window.

If card information is modified, the updates do not register in the open search window. To see the latest updates in your search results, refresh by pressing **F5**, or by closing and re-opening the **Card** window.

For more information about searching in EntraPass, see [Finding components](#).

Editing a card

To edit a card in the **Card** window, complete one of the following steps:

- In the **Card user name** field, enter a user name. Existing user names display as you enter a value in this field. Alternatively, use the up and down arrows to browse for a card. Select the card that you want to modify.
- In the **Card number** field, enter the card number and press **Enter**.

The card displays in the **Card** window and you can modify it as required.

Deleting a card

About this task:

If you have the appropriate access rights, you can use the delete feature to remove a card from the cardholder database. If you delete a card from the cardholder database, you must re-issue it to use it.

1. Find the card that you want to delete. To search for cards, see [Finding a card using the toolbar search](#).
2. In the **Card** window, on the toolbar, click the **Delete** icon.
3. In the **Warning** window, click **Yes**.

Deleting cards removes them from the cardholder database but they remain in the card history. All events involving a deleted card remain in the event messages database. You can generate an event report that includes past events for deleted cards.

Customizing Card Information Fields

About this task:

You may rename **Card information** fields under the **General** tab according to your organization requirements. These fields can contain any information. They can be used as edit boxes or drop-down lists.

1. In the Card definition dialog, select any card, then double-click the **Card information** label under the **General** tab. The system displays the **Change labels** window .
2. Select the field you want to modify on the left, and enter the name in the field on the right. If your system operates in two languages, two fields will be available to enter the field name in both languages. For example, if you want to rename Card Information 1 to Employee number , double-click the **Card Information 1** label and enter the new name in the field(s) on the right.

3. Select the **Edit field** option if the information appears as an **Edit field** (one-line information) or **Drop-down** list (as applicable); then click **OK** to save your modifications.
4. You need to repeat these steps for all the fields you want to modify.
 - ① **Note:** An operator must have full access privileges to edit card information fields. An operator with read only access may only view information in these fields.

The operator can make a search based on any of the 40 fields of card information.

Cardholder Access Levels Assignment

An access level must be assigned to each card. Access levels determine where and when the card will be valid. The access level allows the cardholder entry to selected locations during specified schedules. For information on defining access levels, see [Access Levels Definition](#).

- ① **Note:** When you modify the access level assigned to a card, you also modify the user's access permission to the doors and schedules associated to that access level.

In order to assign an access level to a card, you have to:

- Create schedules that will correspond to the time the user has access to the desired doors,
- Assign the created schedule to the desired doors (in the Access level definition menu),
- Assign the access level to cards.

Assigning an Access Level to a Cardholder

1. From the Card definition window, select the **Access level** tab. The Access level window appears, it displays the connection column and **Access level** drop down list.
2. Click the **Card access group** button (displayed on the left of the connection or Gateway list) to copy information from a Card access group to a card. The connection column displays the sites and gateways to which an access level will be associated.
3. From the **Access level** drop-down list, select the access level that will determine the card holder's access to the doors of the selected connection. If you do not want this cardholder to have access to the door of this connection, leave this field to **None**.
 - ① **Note:** You have to create Access levels (Users > Access Level) to have them displayed in the Access Level drop-down list.

Assigning additional access levels (Multi-site gateway only)

About this task: When you use a KT-400, KT-400 rev1, KT-1, or KT-2, you can make up to five total access levels for each user or connection.

1. From the Card definition window, select the **Access level** tab. The Access level window appears, it displays the connection column and **Access level** list.

A small box in the far right column indicates the connection has controllers which accept multiple access levels. If the box is black, no additional access levels have been added. If the box is green, at least one additional access level has been assigned. If the box is yellow, the access level has doors from legacy controllers, which prevent additional levels to be assigned.

2. Select the desired Gateway or connection by clicking the small box in the far right column. The **Additional access levels** window appears with the different Gateways and Connections.
3. From the **Additional access levels** window, you can assign additional access levels.
 - ① **Note:** If there is a warning exclamation sign in the right column beside the access level, there are controllers associated with the access level which do not support additional access levels, such as the KT-100, KT-200 and the KT-300.

Access exception

About this task:

Use the **Access exception** tab to link a specific schedule to a door.

1. On the left pane, select a door.

2. On the right pane, from the list, select a schedule. Click the  button to add or remove doors from the list on the right.

3. In the **Access** column, choose between **Allow** or **Deny**.

ⓘ **Note:** Only doors with an associated schedule are saved.

⚠ **WARNING:** The user list report does not take access exception into account.

To enable the **Access level exception** feature, see [Credentials Parameters](#).

Card options definition

About this task:

Use the **Miscellaneous** tab to specify and view card options.

1. Select a card number using the **Up/down** arrows. The **Start date** field indicates the card creation date. You can change this information by selecting another date in the displayed calendar. The start date must be the same day or earlier than the current date; else, the **Card state** field (**Miscellaneous** section) is set to **Pending**.
2. Select the **Use end date** box, if applicable. When this box is checked, the system displays a calendar allowing you to select the end date. When the end date is reached, the **Card state** field is set to **Expired**.
3. Select the **Delete when expired** option, if applicable. This option can only be used with the **Use end date** option. When selected, the card information is automatically deleted on the expiry date (using the end date and hour specified), otherwise the **Card state** field is modified to **Expired**.

ⓘ **Note:** A deleted card is a card that is not active in the system database. Even if a card was deleted, previous events generated by this card are still stored in the archive file.
4. Select the **Wait for keypad** option to force users to enter a PIN on keypad to access all doors, then in the **Editable PIN** field enter the PIN that users will be required to enter.
5. **Editable PIN number:** The operator can enter the number of digits needed by the reader/ keypad to grant access. See [Defining a Card Display Format](#) for more information.

ⓘ **Note:** Selecting the **Wait for keypad** delays access to a door for this card until the correct PIN has been entered on a keypad. This only affects doors defined with both reader and keypad in the **Door Definition** menu (Devices > Doors). The keypad schedule must also be valid for this door. For more information on defining a door, see [Doors Configuration](#).
6. From the **Card state** list, assign a state to the selected card. By default, a card is valid. The following are available:
 - **Valid:** the card is functional,
 - **Invalid:** the card is not functional,
 - **Lost/Stolen:** the card is not functional,
 - **Pending:** the card is not yet functional.

- **Expired:** the card has reached its expiry date.
 - ① **Note:** You cannot force a card state to **Pending** by selecting this state from the **Card state** list. To do so, you have to change the start date.
- 7. Select the **Disable passback** option if you want the card to override the passback option when defined.
 - ① **Note:** If you are issuing a card for a cardholder with disabilities, check the Extended door access delay option. To enable this option in the system, you have to define appropriate delays in the Door definition.
- 8. **Allow multiple-swipe (KT-400, KT-1, and KT-2 only):** Enable the multi-swipe action. For more information, see .

Adding Comments to a Card

1. From the **Card** window, select the **Comment** tab.
2. Enter a comment (if necessary) relative to this cardholder. The displayed field can be used to store additional information in the database. Maximum allowed: up to 241 characters.
3. Click the **Save** button, then the **Close** button to exit.

Assigning Pictures and Signatures

EntraPass offers the ability to associate photos and signatures with cardholders and to associate badge templates with cards as well as to print badges. Photos and signatures can be retrieved from files, pasted from the clipboard, or captured using an appropriate device. For capturing signatures, signature pads such as Topaz are recommended.

Assigning a Picture from a File

1. From the **Card** window, select the **Picture** tab.
 - ① **Note:** The Video capture option is enabled only when a video capturing device is installed.
2. Right-click the picture area. A shortcut menu appears; choose the appropriate action:
 - **Get picture from file:** This option allows you to select a previously saved picture:
3. From the Files of type drop-down list, select the file type you are looking for or leave this field to All to display all image files. Make sure that the Auto displayer option is selected to enable preview.
4. Select the directory where the image is stored. Select the image you are looking for, then click **Open** to import it into the **Card** window.
 - ① **Note:** Files with the following extensions are supported: BMP, EMF, WMF, JPG, GIF, PNG, PCD, and TIF.
 - **Paste picture:** this option allows you to paste a picture from the clipboard. To use this option, you have to copy the picture, then paste it into the picture window.
 - ① **Note:** To delete the imported picture, right-click the picture, then choose Clear picture from the shortcut menu.

Assigning a Picture Using a Video Camera

About this task:

The **Video capture** option is enabled only when the option **Enable video capture** is checked: **Options > Multimedia devices > Video capture** tab.

① **Note:** Before you can capture images using a video camera, all equipment needs to be properly configured. For more information, consult your manufacturer's device manual. If you have more than one video driver, you will need to specify the video driver to be used (Options > Multimedia devices > Video tab).

1. Right-click the picture area.
2. From the shortcut menu, select **Video capture**. This option is enabled only when the Video capture capability has been enabled in the Options menu (**Options > Multimedia devices > Video**).
 - ① **Note:** Options may vary depending on the video capture program. If you have more than one video driver, you will need to specify the video driver you are using. For more information on configuring your video drivers, see [Multimedia Devices Configuration](#).
3. Click the **Freeze** button when you are satisfied with the displayed image, then click the **Capture** button to paste and save the displayed image.
4. To associate a badge layout with the defined card, select one from the **Badge layout** list. For information on how to define a badge layout, see [Badges Designing](#).
 - ① **Note:** The Print badge and Preview badge buttons are enabled only when a badge printer and badge layout has been selected and the option Use badge printer checked: Options > Printer options > Badge printer . If these buttons are enabled, you can preview and print the card holder's badge.

Importing a signature from a file

About this task:

You can import a signature, just as you import other images such as logos or pictures into the card.

1. From the Card window, right-click the signature area. A shortcut menu appears.
2. From the shortcut menu, make the appropriate choice:
 - **Get signature from file:** allows you to select a previously saved signature,
 - **Paste signature:** allows you to paste a signature that was previously copied to the clipboard. The option is enabled when there is content in the clipboard.
 - ① **Note:** The Signature pad option is enabled only when the appropriate device is enabled in the Options menu (Options > Multimedia devices > Signature).
3. Select the signature file, then click **Open**.

Adding a Signature from a Signature Capture Device

About this task:

Use this option if a Signature Capture Device is installed and configured. The Signature pad option is enabled only when the appropriate device is enabled in the Options menu (**Options > Multimedia devices > Signature**).

1. From the Card window, right-click the signature area. A shortcut menu appears.
2. From the shortcut menu, select **Signature pad**. The Signature window appears, allowing you to preview the signature.
3. Click **OK** to paste the signature in the card window.

Working with Photos and Signatures

The EntraPass Integrated Badging feature allows users to extract part of an image or enhance images that are incorporated into cards.

Extracting Part of an Image

About this task:

If you have incorporated a large image but you need only part of it, you can select and extract the part that you want to assign to the card (picture, signature).

1. Right-click the image you have just imported.
2. Select **Start selection mode** from the shortcut menu.
3. Once you have selected the part you want to incorporate into the card, right-click the image again. A shortcut menu appears.
 - ① **Note:** To disable the current selection, right-click the picture, then select Cancel selection mode. Select Undo to discard the changes. The Undo option is enabled only when you have pasted an image.
4. From the shortcut menu, select **Extract**.

Editing a Picture/Signature

1. Right click the image you want to edit.
 - ① **Note:** The **Bar code** area allows you to assign a bar code to a badge for identification purposes. Select any item from the drop-down list to be used as the value of the bar code. Select Custom to enable the Value field and type a specific bar code value. If you do not enter a custom bar code value, the Card number is used as the default value.
2. From the shortcut menu, select **Edit (picture or signature)**.
3. Adjust the features of the image using the displayed options. The **Reset all** option enables you to go back to the original image:
 - **Auto contrast:** this feature gives better contrast by intensifying lights and shadows: it makes the darks darker and the lights lighter. In general, this auto contrast feature gives a good result when a simple contrast adjustment is needed to improve an image's contrast.
 - **Sharpen:** this feature provides more definition to blurry images by applying sharpening only when an edge is found.
 - **Brightness:** this feature allows you to add light to the image by sliding towards the positive values.
 - **Reset all:** this feature allows you to undo all the changes and to restore the original image.
4. Click **OK** to close the **Picture** editing window.
5. From the Badge layout pull-down menu, select a layout to associate with the card you have defined To define a badge layout, see [Badges Designing](#).

CSV Files Import and Export

The CSV Import/Export feature allows the ability to import or export card files that are saved in a CSV (Comma Separated Value) format. Importing/exporting data between two applications allows the ability for the two application to share data. CSV files can be edited in most applications (Excel, NotePad, etc.). You will use the CSV Import/Export feature if:

- You are upgrading from EntraPass DOS or WinPass 64 and you want to retrieve the cards created in these previous versions.

- Your company desires to import the card database information into the payroll system. Using the Import/Export feature will save a considerable amount of time in setting up the card holder database.
- Your company has a new database: instead of having to reprogram all the information already available in the card database, the system administrator could export the data contained in the card database (names, departments, card numbers, etc.) into a CSV file that can be imported into the target database.
 - ① **Note:** The CSV Import/Export feature imposes a number of rules: each field contains a specific value format that has to be respected. For example, the card state field will only accept the following values (0=valid, 1=invalid, 2=stolen/lost).

To Import/Export card information, you may use Kantech pre-defined patterns or you may create your custom patterns.

Using a Predefined Pattern

About this task:

Two patterns are available: the EntraPass (1,2,3) and the WinPass64 model. You may use the template “as is” or you may edit it.

1. From the **Users** toolbar, select the **Import/Export CSV file** button.
2. From the **Select operation** drop-down list, select either **Import** or **Export**.
3. In the **Available Patterns** pane, select the pattern you wish to use. This depends on the software you are upgrading from.
4. Use the **Edit pattern** button if you want to edit the pattern.

Creating a New Import/Export Pattern

About this task:

This menu lets you create your own import/export mask to use to import or export CSV files.

1. From the **Users** toolbar, select **Import/Export CSV File** button. The system displays the Import / Export CSV file window.
2. From the **Import/Export CSV file** window, click on **New Pattern**. The New pattern window displays a list of all the fields that are available in the EntraPass card databases. They contain specific value formats that have to be respected. For example, the card state field will only accept the following values (0=valid, 1=invalid, 2=stolen/lost).
3. Double-click the **available fields** or use the **left** and **right hand** button to move the field back and forth. Once the fields are selected, you can use the **red Up / down** arrows to organize information (this will indicate how information will be arranged in the CSV file).
 - ① **Note:** The card number must always be selected for every pattern including a specific card. For example, if you select the field Card #1 - Stolen/Lost, you must also select the field Card #1 - Card Number.
4. Specify the **Add code** and **Modification code**. These codes are used by the system to identify, when importing a file, which card has to be modified or added to the card database. The default add code is “+” and default modification code is “+”.
5. Select the **Delete code**. This code is used by the system to identify, when importing a file, which card has to be removed from the card database. The default delete code is “-”. Field separators can be: tab, space, comma, semicolon (;) and other.
6. Select the **Field separator**. This code will be used to separate the selected fields when importing or exporting data. Usually a comma (,) is selected. Keep this in mind when adding users’ last names and first names separated by a commas.

7. Select the **Date format**. The date will be exported or imported according to the specified format. The most commonly used format is YYYY/MM/DD. Other date formats are:
 - MM/DD/YYYY
 - DD/MM/YYYY
 - YY/MM/DD
 - MM/DD/YY
 - DD/MM/YY

① **Note:** The Use DLL feature allows you to enable a program that will convert specific card numbers. You may use the Remove DLL when you do not wish to enable the program that converts card numbers.
8. Click **OK** to exit the pattern window and to specify the new pattern name.
9. Enter the pattern name, then click **OK**. The system automatically returns to the Export/Import CSV file window. The pattern you have just created is displayed in the **Available patterns** list.
10. If you want to add or remove fields from your pattern, double-click the new pattern to edit and make the necessary modifications. Now you can import or export your information using the new pattern you have just created.

Exporting Cards

About this task:

Your organization may need to export the card database data into another application. You may use a predefined template or create a custom template.

1. From the **Users** toolbar, select the **Import/Export CSV File** button. The system displays the Import / Export CSV file window.
2. From the **Select operation** drop-down list, select **Export**.
3. From the **Available patterns** list (left-hand pane), select the pattern you want to use when exporting cards. If necessary, you may edit the pattern so that it matches the target application pattern, else, you may create a new one. (For more information on how to create a pattern, see [Creating a New Import/Export Pattern](#)).
4. For the **Transaction file**, **click on the three-dot**, then select the folder in which EntraPass will save the card database content. You can open the CSV file in Excel, NotePad, etc.
5. Once you have selected/created an export folder, click **OK** to return to the Import / Export CSV file window.
6. Click the **Export** button; it is enabled once the transaction file is selected. The system displays a window allowing you to filter the cards you want to export.

① **Note:** For cards to be included in your file, they must match all the selected filters, if one or more filters are not matched, the card will not be included.
7. In the Export Card's filter window, specify the cards you want to export. Once you have made all your selections, click the **Export** button. The Import / Export CSV file window appears.

① **Note:** The Transaction file field shows the target file name and location. By default, the export file is saved in the specified folder (Exportdata, in this example). The status bar (lower part of the window), shows the number of imported cards (1, in this example). The default name is YYYYMMDD.csv. You can open the target file with NotePad for instance.

Importing Cards

1. From the **Users** toolbar, select the **Import/Export CSV File** button. The Import / Export CSV file dialog will display on screen.
2. In the **Select Operation** drop-down list, select Import.
3. Click the **Available patterns** button to select the pattern that will be used to import the cards information (for more information on how to create a pattern, [Creating a New Import/Export Pattern](#)).
4. For the **Transaction file, click on the** three-dot, browse your hard drive to the CSV file that contains the data to import into the card database .
5. Once the file has been selected, click **Open**. You will return to the Import / export CSV file window.
6. If no errors are present (or once you have corrected errors), click **Import** to complete the operation.
 - ① **Note:** The system scans the file to be imported; then it displays the results using a colour code. Each entry is identified by a colour flag. A yellow or red flag identifies an entry in error. Errors are frequently caused by the patterns. You have to select another pattern or edit the pattern you are using so that the pattern entries have to match the source file entries. There may be errors also even if the transaction code is identified by a green flag.

Correcting Import/Export Errors

About this task:

The CSV Import/Export feature imposes a number of rules: each field contains a specific value format that has to be respected. For example, the card state field will only accept the following values (0=valid, 1=invalid, 2=stolen/lost). The pattern used has to match the pattern used by the source file. The present section will assist you in correcting import/export errors.

1. Click the **Import or Export** button to start the transaction (the following example illustrates a case of importing CSV data). The lower part of the window displays the number of cards in the list.
 - ① **Note:** Although entries in the Transaction code column are identified with a green flag, the Card number column is empty. This indicates problems in the pattern conversion.
2. Click the **Import** button.
 - ① **Note:** The Error button is enabled because the system encountered problems during the import transaction.
3. You may click the **Error** button to display information about the error. The Process error window shows that the pattern used is invalid.
4. Click the **Close** button to go back to the Import Export window.
5. In the Import/Export CSV window, double-click the pattern you have used for the Import transaction (Custom, in the example above).
6. From the **Field separator** drop-down list, select **Comma** as the field separator, then click **OK**. Data in the **Card number** field indicates that the import transaction will be successful.

Customizing Card Information Fields

About this task:

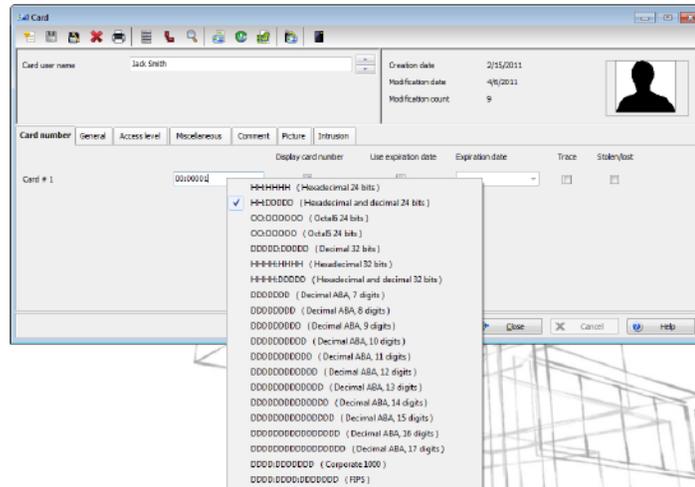
You may rename **Card information** fields under the **General** tab according to your organization requirements. These fields can contain any information. They can be used as edit boxes or drop-down lists.

1. In the Card definition dialog, select any card, then double-click the **Card information** label under the **General** tab. The system displays the **Change labels** window .
2. Select the field you want to modify on the left, and enter the name in the field on the right. If your system operates in two languages, two fields will be available to enter the field name in both languages. For example, if you want to rename Card Information 1 to Employee number , double-click the **Card Information 1** label and enter the new name in the field(s) on the right.
3. Select the **Edit field** option if the information appears as an **Edit field** (one-line information) or **Drop-down** list (as applicable); then click **OK** to save your modifications.
4. You need to repeat these steps for all the fields you want to modify.
 - ① **Note:** An operator must have full access privileges to edit card information fields. An operator with read only access may only view information in these fields.

Issuing a new card in enhanced user management environment

1. Click the **Users** tab, and click **Card**.
2. In the **Card** window, click the **New** icon. In the **Card user name** field, enter the card holder's name. You can enter up to 50 characters.
3. Click **Save**.
4. Double-click the **Card type** field to open the **Card type** window. Select the card type for the new card. The card type is used to group cardholders; it is useful for actions such as, modifying an existing card group and creating reports. For more information about how to create or modify card types, see [Card Type Definition](#).
 - ① **Note:** In the **Card type** field, you can right-click the **Card type** field, and select **New** to create a new card type, select **Select** to choose an existing card type, or select **Edit** to edit an existing card type.
5. Click the **Card number** tab, and double-click **Card #1** if you want to change the label.
6. In the **Card number**, enter the card number.
 - If EntraPass was previously configured for **Multiple Card Format**, you can modify the card format by right-clicking the **Card number** field. See [Defining a Card Display Format](#) to enable the multiple card formats . The default card format is HH:DDDDD (Hexadecimal and decimal 24 bits).
 - ① **Note:**
 - When the **Multiple Card Format** is selected, a list of all card formats is displayed when you right-click the **Card number** field.
 - When a card format is defined by the system administrator, the card format in use has a check mark next to its description.

Figure 3: Multiple card formats



Issuing Cards Using the Batch Load Feature

About this task:

The Batch Load feature allows operators to issue cards by presenting cards to a door reader. The card number is displayed on an “unknown card” or “access denied” event messages. During a Batch Load operation, the operator can create new cards or modify existing ones.

1. From the Card window, click the **Batch Load** button.
2. From the **Door** list, select the door that will be used to read the cards.
3. Check the following options:
 - **Refresh an access granted:** if this option is checked, each time an access is granted the information displayed will be refreshed with data relative to the card.
 - **Save on new card:** if this option is checked, new cards will be saved in the card database on an “unknown card” event message. If this box is not checked, the operator will have to save the card manually each time a card is read.
 - ① **Note:** When this option is selected, the first card presented to the door reader will be saved only when presenting a second card or by pressing the save button.
 - **Find:** allows operators to search for an existing card in order to create a new card based on the existing card data.
 - ① **Note:** If an operator clicks the **Close** button without saving (when the **Save** button is still enabled), a system prompt will ask to save the last information.

Last Transactions Display

The **View last transactions** feature lets you view the most recent transactions for the selected cardholder. For example, the window will display “Access denied” as the type of event, and will display the date and time as well as the event message that was displayed in the Message desktop.

The system displays the 15 most recent transactions for each category:

- Access denied events (bad location, bad access level, bad card status, etc.),
- Access granted events,

Quick Access to Door List per Card

About this task:

This feature allows to quickly and conveniently display the list of doors with an associated schedule for all access levels of the selected user.

1. From the **Users/Card** menu, click the **Door access list** button:

Result



The information is displayed over five columns:

- Gateway/connection button
- Gateway/connection description
- Door description
- Schedule description

ⓘ **Note:** This information can be exported to a CSV file for printing and report purposes.

The same information is also available from the View card information window by clicking the Door access list button:

Tenants List

The tenant is a resident in an apartment building or an employee in a company. The tenant can grant access to a visitor. Tenants list can be created in EntraPass to be used with the KTES.

Creating a New Tenants List

1. From the **Users** toolbar, select the **Tenants list** button.
2. Edit the **Tenants list** name. Default value is **New tenant list**.
3. Select the **Tenant ID length** (1 to 5). Default value is 4.
4. Select the **Tenant PIN length** (4 to 6). Default value is 4.
5. Select the **Wiegand display format on LCD**. Possible values are:
 - Hexadecimal 24 bits
 - Hexadecimal and decimal 24 bits
 - Hexadecimal 32 bits
 - Hexadecimal and decimal 32 bits
 - Decimal ABA 8 digits
 - Decimal ABA 10 digits

Result

Default value is Hexadecimal 32 bits

Adding new tenants to the list

1. Click the **General** tab.
2. Click the **Add (+)** button. You can use the **Legend** button to display the actual status of each tenant.

3. Configure the tenant parameters:

- **Tenant name:** Enter the tenant's name (20 characters maximum). The default value is **New tenant**.
- **Tenant ID:** Enter the tenant's ID. The tenant's ID is an identification code of 1 to 5 numbers that a visitor can use to call a tenant. The number of digits available for an ID is configured when the list is created. The default value is 0000.
- **First phone number:** Enter the first phone number. The first phone number is used when a visitor select the tenant from the KTES directory. If no phone number is entered, the tenant cannot be called by the KTES system and is not displayed in the KTES directory either (15 digits maximum). The default value is empty.
- **Second phone number:** Enter a second phone number. The second phone number is used by the KTES to contact the tenant when there is no answer to the first number (15 digits maximum). The default value is empty.
- **PIN:** A Personal Identification Number (PIN) is 4 to 6 numbers configured for each tenant. The number of digits available for a PIN is configured when the list is created. The default value is 0000.
- **Access schedule:** Enter the access schedule. For security reasons, an access schedule is configured to link a schedule with the tenant access rights. A tenant can access the building according to specific times, days and holidays defined in the system. The default value is always valid. For more information about defining schedules, see [Schedules Definition](#).
- **Tenant admin level:** Select the administration level for the tenant (installer, owner, maintenance or tenant). The default value is **Tenant**.
- **Tenant language:** Select the default language used by the KTES for the tenant (System, English, French, Spanish, Custom). The default value is **Default**. For more information about the system language, see [Kantech Telephone Entry System \(KTES\) Configuration](#).
- **Disabled Tenant:** A disabled tenant status allows the activation of a relay and/or the generation of an alarm. The default value is deselected (enabled).
- **Trace:** The trace option allows the activation of a relay and/or the generation of a traceability event. The default value is deselected (not traced).
- **Hide tenant:** This option is used if you want the current tenant's name to be displayed or hidden. The default value is deselected (displayed).
- **Extended door access delay:** The extended delays correspond to the additional time lapse a door should stay unlocked and can be kept opened. The default value is deselected (no extended delay).
- **Extended ring:** The system can allow an extended number of rings to give more time for the tenant to answer. The default value is deselected (no extended ring).

4. Click the **Advanced options** tab.

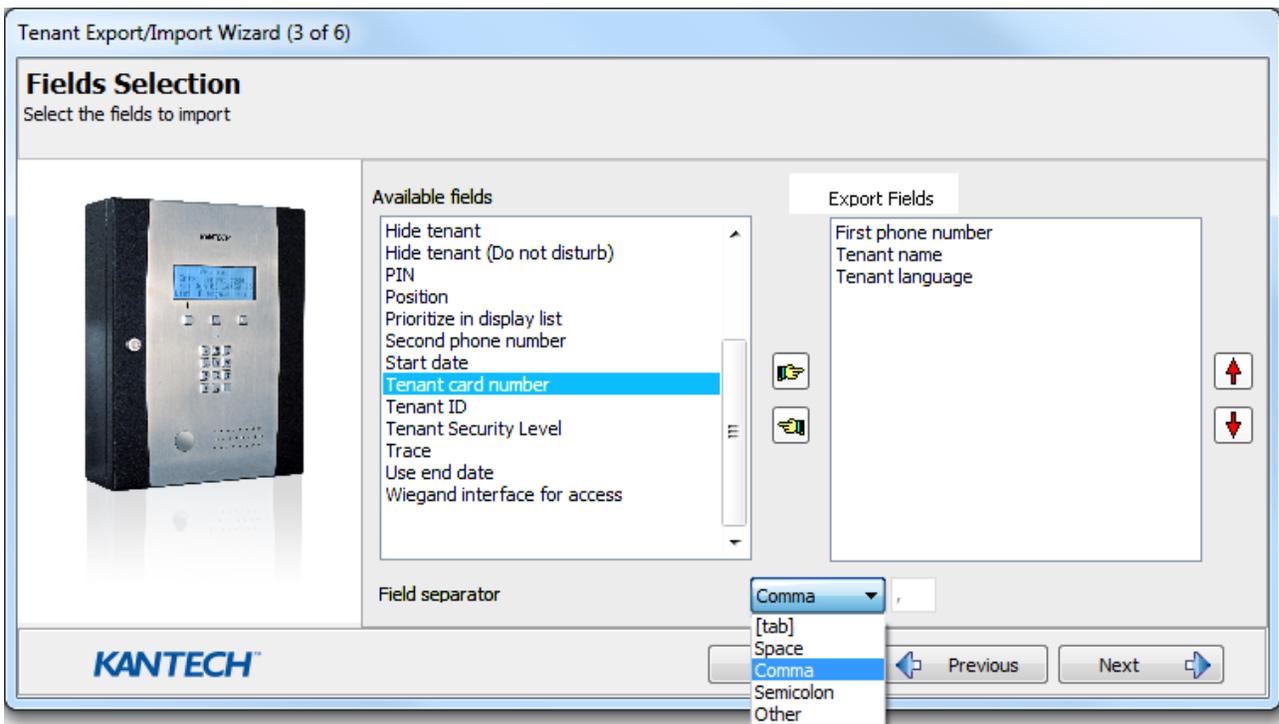
5. Set the **Tenant validation date**:

- **Start date:** The start date is the date from which the tenant can access the system. Enter the date in the field (mm/dd/yyyy) or click the **Calendar** button to select a date. The default value is empty.

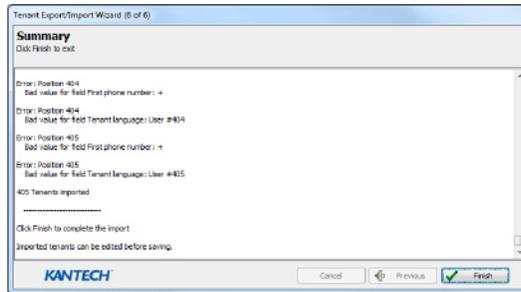
- **Use end date:** The end date is the date at which the tenant cannot access the system anymore and its status is no longer valid. Select the checkbox to enable the end date. The default value is deselected (**no end date used**). Enter the date in the field (mm/dd/yyyy) or click the **Calendar** button to select a date. The default value is empty.
6. Set the **Do not disturb** option. This functionality is used to place the tenant in a do not disturb (DnD) status if the selected schedule is active. Select the **Hide tenant** check box if you want the tenant to remain hidden from the list or for search option while in the DnD status.
 7. The **Call second phone number** option enables the use of a second phone number immediately (bypassing the first number) when the schedule is active. If you want to use the second phone number only when the selected schedule is active, select the **Call second phone number only on schedule** check box.
 8. Set the **Wiegand interface for access granted:**
 - **Tenant card number:** A 64-bit number associated to each tenant. This number is used by the tenant to get access from the KTES.
 - **Card holder for access granted** (not available in EntraPass KTES Edition): This cardholder's number is the first card number to be used by the tenant to get access from the KTES.

Importing a tenant list

1. Click the **Import** button to run the **Tenant Export/Import Wizard**.
2. Click the **Next** button and select a CSV format source file.
3. Click the **Next** button and choose the field to be imported from the list on the right. Use the left and right buttons to add or remove data fields. The default field separator is comma but you can select a different one.

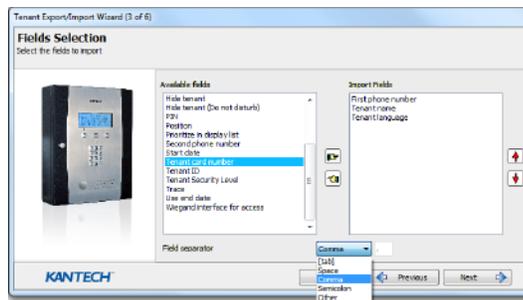


4. Click the **Next** button and select the tenants to be imported.
5. Click the **Next** button and click the **Import** button to complete the operation.
6. Click the **Next** button to see a summary of the imported data.

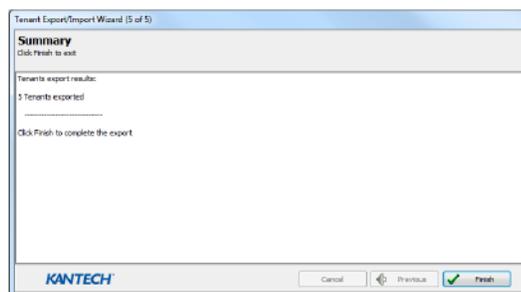


Exporting a tenant list

1. Click the **Export** button to run the **Tenant Export/Import Wizard**.
2. Click the **Next** button and choose the field to be exported from the list on the left. Use the left and right buttons to add or remove data fields. The default field separator is comma but you can select a different one.



3. Click the **Next** button and select the tenants to be exported.
4. Click the **Next** button and select a CSV format destination file. Click the **Export** button.
5. Click the **Next** button to see a summary of the exported data.



Validating card access

The Validate card access feature lets you view access levels that are assigned to a particular cardholder.

1. In the **Card** window, select a card.

2. Click the **View and Validate Access** icon. It is the key icon on the toolbar.
3. Select a site/gateway/connection from the **Site/Gateway/Connection** list .
4. In the **Select specific value** area, select the date, time, and the door on which the validation is required. The system displays the access levels for the selected door as well as the schedules assigned to the displayed access levels. The **Access Level** column displays the access levels associated with the selected door. The **Schedule** column displays the schedule associated with the access level.
 - **Red:** Indicates that access to the selected door on the selected date and time is not allowed (not authorized).
 - **Green:** Indicates that access to the selected door on the selected date and time is allowed (authorized).

Definition

Use this section to define the elements to create a secured area for control and alarm purposes. A schedule indicates when the system executes certain operations, when the system acknowledges events, and when to activate relays controlling different functions, for more information see [Schedules Definition](#).

If you want to assign doors as elevator floors use [Floors Definition](#).

When you want to associate a trigger with a particular event, use . You can use [Graphics Definition](#) to view a secured area of the system where components are located on a connection. In addition to viewing the status of a component you can perform manual operations including locking or unlocking a door, and moving cards.

You can use [Holiday Definition](#) to assign extra days to a schedule, for example holidays that apply to one site but not another.

Floors Definition

About this task:

Use the **Floor** window to create or edit elevator floors. After the floors are created, they are grouped and associated with a schedule that defines when access is permitted.

1. On the **Definition** tab, click the **Floor** button.
2. From the **Site/Connection** list, select the Site/Connection for which you are defining floors. This allows you to minimize the list of components defined in the system.
3. Select a floor or click the **New** button to create a new floor group.
4. Assign a meaningful name to the floor, then click the **Close** button. The system prompts you to save.

Graphics Definition

A graphic corresponds to the secured area of the system where components (EntraPass applications, controllers, inputs, relays, etc.) are located on a connection. With graphics, operators can easily view the exact location of a component installed on a connection, or the status of components and devices such as doors, contacts, motion detectors, controllers, assigned to the graphic. Operators can perform manual operations directly from the displayed component (for example, locking/unlocking a door). Each graphic can display up to 250 components including using live video as a background. You may also import graphics or maps from other programs in the following formats (BMP, EMF, WMF, JPEG, GIF, PCX, PNG, TIF or PCD).

- ① **Note:** EntraPass offers users four sample floor plans. You can customize them to suit your system needs. The sample floor plans are located at: C:\Program Files\Kantech\Server_SE \ Generaldata\Demobmp folder .

Defining Components of a Graphic

1. In the **Definition** tab, click the **Graphics** button.
2. From the **Graphic** drop-down list, select the graphic you want to modify, or click the **New** button to create a new one.
3. Assign a name to the graphic (or modify the existing name).
 - ① **Note:** When you select an existing graphic, or when you create a new one, all the components that are assigned in your graphic are displayed in the left-hand pane. The right-hand part of the window displays the graphic itself.

4. From the **Graphic Definition** window, **click here to create, edit or modify a graphic** to bring up the **Assign Components** window.
 - ① **Note:** If the video feature is enabled in your system, video components are added to the Graphics menu. These video components can be accessed from the graphic layout. The button can be positioned on a graphic layout and its status can be retrieved by clicking on the video button. In addition to standard options, the following status option will be available for the video component: Video Server Online / Offline, Video Server Parameters (Related to a specific vendor) and Camera status.
5. Click on the **Options** menu to display a pull down menu of drawing options. A check mark appears next to an option that is activated. **Show** hints provides the component's name (component's address and name) when you point your mouse cursor over that graphic.
 - **Draw transparently** will place a transparent button on top of a background picture for a blended effect.
 - **Draw frame** draws a frame around the component. **Frame colour** indicates the current frame colour and allows you to change the colour.
 - **Auto display video view** lets you add a video view.
 - Select **Edit background picture** to edit the background of the selected graphic. From this window you can modify the graphic's frame and background colour and add annotations.
 - Select **Add live video as background** to have live video as background.
 - Select **Add Web page as background** to have a Web page as background. Enter the **URL address** of the connection and press **Enter** on the keyboard, or click **Test** . The **Login** and **Password** are not required unless the Web page you want to access requires it. Click **Test** to see that the page is loading properly. Then, click **Save** .
 - Select **Clear background** in order to clear the background picture of the graphic only leaving the assigned components. You can use this option when you want to insert a new graphic and leave the same components.

Card location

- For information on enabling the card location feature, see .

Designing the Background for the Graphic Window

1. Double-click anywhere in the background of the **Assign components** window to bring up the **Design background picture** dialog.
2. Use this window to import a graphic that was created with another application or create your own background using the drawing toolbar buttons.
 -  To import an existing graphic, click the **diskette** button, then drag and drop the diskette in the work area. Once you have positioned the component, and released the mouse button, the Image properties dialog will pop up on the screen. The system displays the **Open** window. Locate the graphic you want to import and click **Open**. The graphic will be placed in the graphic area of the dialog.
 -  To import a custom button into the background graphic, click the **Custom images** button in the toolbar. The Select an image window pops up on the screen. Select an button, then click **OK** to close the window and import the image in your design.

- To insert shapes and text in the background image, select a rectangle, a circle, an ellipse, etc. in the toolbar, and drag and drop it in your background.
 - To modify a shape you've just placed in the burgeoned window, right-click it to open the **Properties** dialog. and make the appropriate modifications (colour, position, etc.).
 - You can setup the system to display the **Properties** dialog as you drop the shape into the design window. To do so, select the **Show properties on Drop** from the **Options** menu.
 - To retrieve shapes that were previously saved to a disk, select the **Load annotations** option in the **Image** menu. When you add shapes to a graphic, you have the option of saving them as annotation on a separate file in order to retrieve them later.
 - To save annotations on a separate file from your graphic, select the **Save annotations** option in the **Image** menu. You will be able to retrieve them for later use.
 - To clear the shapes, select **Clear annotation** in the **Image** menu. If you save the graphic with the shapes, the shape become permanent.
 - Use the **View** menu to define how the graphic will be displayed.
- ① **Note:** Sizing handles (square handles that are displayed along the sides of the object that surrounds the selected object) indicate the object is selected.

Assigning System Components to Graphic Icons

1. From the **Assign Components** window toolbar, click and drag the selected component to the desired position. To drag an object across a window, select the object with your mouse and drag, while keeping the button pressed down, to the desired location in the graphic.
 2. Once you have positioned the component, and released the mouse button, the **Assign From** dialog will pop up on the screen.
 3. Select the system component you want to assign to the button on the screen.
 4. Click **OK** to go back to the previous window.
- ① **Note:** If you do not assign the button to a component, the button will not be saved in the graphic. Only components that were not selected in the graphic will be available for selection.

Printing System Components and Graphics

1. From the **Definition** tab, click the **Graphic** button and select a graphic from the drop-down list.
2. Click on the **Print** button from the **Graphic** dialog toolbar.
 - Select the graphics to be printed using the checkboxes. You can also use the **Select all** or the **Clear all** buttons.
 - Select **Print empty fields** to include the titles of the fields even if they are empty.
 - Select **Print component references** to print the component reference numbers.
 - Use the **Font** button to display the standard Windows Font dialog and modify the font attributes accordingly.
 - Click on the **Preview** button to display a general view of the printing layout.
3. Click on **Print** to send the graphic to the printer.

Holiday Definition

About this task:

A holiday is treated differently than other days. It is recommended to program holidays at the beginning of the year; this helps to modify floating holidays for the current year (Easter, Thanksgiving, etc.). A holiday can be identified by a specific type (Hol 1, 2, 3, 4). The same day can be defined as a holiday at one connection, but as a regular day in another connection.

1. On the **Definition** tab, select the **Holiday** button. The **Holiday** window appears.
2. To create a new holiday, select the **New** button.
3. To create a global holiday, proceed with the holiday definition. If you want to define a holiday for a specific gateway/connection, select the gateway/connection from the list.
4. Assign a name to the holiday.
5. From the **Date** menu, select a the holiday date from the calendar.
6. Select the **Recurring** option if this is the case for the holiday you are defining.
 - ① **Note:** If the holiday is not a recurring holiday, you will have to reprogram it for the following year. You can program holidays years in advance; but it is recommended to review holidays on a yearly basis.
7. In the **Holiday type** section, select the type of the holiday you are defining. This gives you flexibility when defining a holiday. For example, you may decide that a given day is a holiday for a certain group of users, but it is a regular day for another group.
8. Click on the + Holiday list button to display a calendar for the next 12 months showing holidays in one of the three colours identified in the legend.
9. If the holiday is to apply to specific sites only, the **Selective Holiday** checkbox must be selected.
10. Drag & drop system, sites or global gateways to the appropriate holiday case. You can also use the  and  buttons to move them.
 - ① **Note:** The legend is different from the one used to define schedules. For more information, see [Schedules Definition](#).

Schedules Definition

A schedule indicates when the system will execute certain operations such as automatically unlocking doors, permitting access to employees, running automatic reports, monitoring inputs, etc. It also determines when events are to be acknowledged or when to activate relays controlling different functions (lighting, heat, etc.). You can use the same schedule in different menus, but it is recommended to create a different schedule for each application, because it is much easier to modify a particular schedule without affecting other applications.

Each schedule is composed of four intervals. Each interval has a starting and ending time. Each of these intervals can be individually selected for the seven days of the week, and for 4 holidays. EntraPass gives you the possibility of programming 99 schedules per connection .

- ① **Note:** For more information, see [System Parameters Configuration](#).
- **System schedules** : System schedules for global functions such as operators login schedules and video triggers. These are not loaded in controllers.
- **Multi-site schedules** : These are defined per connection. You can define 99 schedules per connection for such purposes as: power supervision (controllers), unlock schedule (doors), Rex schedule (doors), activation mode (relay), monitoring schedule (input).

Defining a Schedule

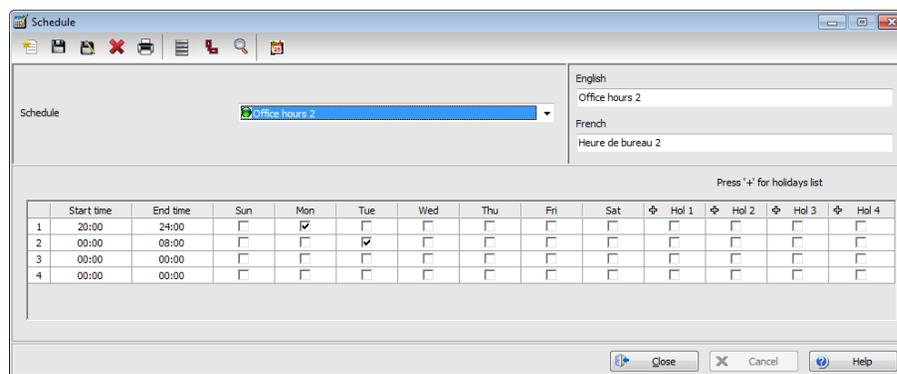
1. From the EntraPass main window, click the **Definition** tab. Then click the **Schedule** button.
① **Note:**
2. From the **Schedule** drop down list, select the schedule you want to modify or click the **New** button to create a new one.
3. Assign a name (or modify an existing one) to the schedule. It is recommended to choose a meaningful name.
4. You can click the **Holiday** button in the toolbar to view the list of holiday that are defined in the system.
① **Note:** EntraPass supports four types of holidays.
5. **Specify the Start time** : This is the scheduled time when the interval becomes valid. It will become invalid when the end time has been reached.
6. **Specify the End time** : This is the scheduled time when the interval is no longer valid.
① **Note:** Start and end times are in 24-hour time format; this gives a range from 00:00 to 24:00. For any interval, the end time must be greater than the start time.
7. Check the **Days of the week** during which this schedule interval will be valid. To do this, click in the checkbox below each day.
8. Check the **Holiday type** (**Hol1**, **Hol2**, etc.) column checkbox if you have defined four holidays in the Holiday definition menu and you want this interval to be valid during a holiday. You can also click on the + sign to display a calendar for the next 12 months showing holidays in one of the three colours identified in the legend.
① **Note:** The legend is different from the one used to define holidays. See [Holiday Definition](#) for more information.

To Create a 2-day Continuous Interval

About this task:

To create an interval from Monday 20:00 (8:00 PM) to Tuesday 08:00 AM, the schedule must be divided into two intervals:

1. First define an interval for Monday from 20:00 to 24:00;



2. Define a second interval for Tuesday from 00:00 to 08:00. The system considers these two intervals as one continuous interval.

Extended Schedule

- ① **Note:** Schedules with 20 intervals in stand-alone mode can be used with KT-400 and KT-400 V1 controllers only.

Groups

To apply an operation to a group of controllers or components instead of individually, use this section. You can use the [Controller group creation](#), [Door group creation](#), [Relay group creation](#), [Access level groups grouping](#), to group a number of controllers, doors, relays, or access levels of the same connection. Use the [Input group creation](#), to group inputs of a controller connection.

You can use [Floor group creation](#) for operations including unlocking schedules and access levels. Use [Trigger group creation](#) to configure trigger elements from a group of sub-components.

Access level groups grouping

About this task:

The Access level group dialog is used to group access levels of the same connection.

1. In the **Group** window, click the **Access level group** button.
2. Click the **View hierarchy** button to display all the sites defined in the system.
3. From the **Gateway/connection** list, select the connection or gateway from which you want to group access levels.
4. Click the **New** button to create a new group access level, and assign a name in the **English** field.
5. Select the check boxes that correspond to the access level group.

Trigger group creation

About this task:

Trigger groups are used to configure triggering elements from a group of sub-components.

1. On the **Groups** tab, click the **Trigger group** button to open the **Trigger group** dialog.
2. From the **Trigger group** list, select an existing group if you want to modify it, or click the **New** button to create a new group. Then, enter the name of the group in the language section.
3. From the **Component** list, select a component. Select the boxes corresponding to the sub-components you want as part of the trigger group.
4. Click the **Save** button.

Controller group creation

About this task:

Use the Controller group menu to group a number of controllers of the same connection.

1. In the Groups window, click the **Controller** button.
2. Click the **View hierarchy** button to display all the sites defined in the system.
3. From the **Gateway/connection** list, select the connection or gateway from which you want to group controllers.
4. To create a new group of controllers, click the **New** button. To modify an existing group, select one from the **Controller group** list, and enter the necessary information in the language section.
5. From the list of controllers connected to the selected connection, select the controllers that are to be assigned to the group.

 **Note:** For more information about controllers, see [Controllers Configuration](#).

Door group creation

About this task:

Use the Door group menu to group doors of a specific connection. The door group can later be used to carry out manual operations such as unlocking a group of doors.

1. In the **Groups** window, select the **Door** button.
2. Click the **View hierarchy** button to display all the sites defined in the system.
3. From the **Gateway/connection** list, select the connection or gateway from which you want to group doors.
4. From the **Door Group** list, select a door group you want to modify, or click the **New** button to create a new group, then enter the necessary information.
5. From the **Door** list, select the doors that must be assigned to the group.
① **Note:** For more information about doors, see [Doors Configuration](#).

Floor group creation

About this task:

Use this menu to group the floors that were created in the floor definition menu. Floor groups are also used for various operations in the system such as: manual operations (unlocking schedules) and access levels.

1. On the **Groups** tab, click the **Floor Group** button.
2. Click the **View hierarchy** button to display all the sites defined in the system, and from the **Gateway/connection** list, select the connection or gateway from which you want to group the floors.
3. From the **Floor group** list, select an existing group if you want to modify it, or click the **New** button to create a new group. Then enter the name of the group in the language section.
4. From the list of defined floors that is displayed by the system, select the state column for the floors you want to include in the group. Only floors that have the state field selected will be enabled when:
 - A manual unlock operation is done
 - An "input" is programmed, for example, as a push button to enable floors for visitors (**Devices > Input** definition menu > **Elevator** tab)
 - Cardholders present their card to the card reader to enable floor selection when the controller is operating in stand-alone mode (due to communication failure). Only the floors marked with an "X" are available for selection.
5. From the **Schedule** column, select a schedule for each floor in the group.
 - When assigning a floor group and an unlock schedule to an elevator door the system scans the schedule column of that group and unlock each floor accordingly. For more information, see [Defining Elevator Doors](#).
 - The schedule assigned to the floor group will be used to validate the access card and its unlock schedule. This way, the floors will be unlocked only when the two schedules (the floor and the access card) are valid.
① **Note:** The unlock schedules are effective even when the controllers are in **Fail soft mode** (communication failure).

Input group creation

About this task:

Use the input group menu to group inputs of a controller connection. This input group can later be used to carry out manual operations such as shunt on inputs.

1. In the **Groups** window, click the **Input** button.
2. Click the **View hierarchy** button to display all the sites defined in the system.
3. From the **Gateway/connection** list, select the connection for which you want to group inputs.
4. From the **Inputs group** list, select an existing group to modify it, or click the **New** button to create a new group, and enter the necessary information in the language section.
5. From the **Inputs** list, select the inputs that must be assigned to the group.

ⓘ **Note:** For more information about inputs, see [Input Configuration](#).

Relay group creation

About this task:

Use the Relay group menu to group relays of a specific connection. This relay group can later be used to carry out manual operations such as temporarily activating relays.

1. In the **Groups** window, click the **Relay** button.
2. Click the **View hierarchy** button to display all the sites defined in the system.
3. From the **Gateway/connection** list, select the connection or gateway from which you want to group relays.
4. From the **Relay group** list, select a relay group or click the **New** button to create a new group, and enter the necessary information in the language section.
5. From the **Relay** list, select the relays that must be assigned to the group.

ⓘ **Note:** For more information about relays, see [Relay Configuration](#).

Devices

Use this section to configure EntraPass applications, components, doors, the KTES, and integration panels and components.

You can use [Application Configuration](#) to configure the minimum applications to implement EntraPass. Included in this are procedures to define the general parameters, security parameters, message controls, and alarm control filters.

Use EntraPass gateways configuration to configure a Multi-site Gateway. The site configuration describes how to configure together controllers communicating over IP to create a virtual site.

Use the [Connection configuration](#) to determine which connection type is suitable for your gateway and how to configure it, how to migrate your KT-1 Standalone backup data to an EntraPass Server, and where to find the KT-1 or KT-2 controller unassigned controller list. The setting up communication timing section explains why you should not alter the system's communication timings.

Use [Controllers configuration](#) to configure any of the Kantech door controllers: KT-100, KT-200, KT-300, KT-400, KT-1, and KT-2. You can define an ioModule, and find a list of modules communicating with a controller but unassigned, and find a list of readers and their compatible controllers. You will also find instructions for configuring general parameters, changing controller types, configuring specific controller parameters and wireless doors. Additional configuration options include anti-passback, duress function, card count, and supervision functions. Depending on the controller type, find out how to configure the controller for use as an elevator, and configuring expansion modules.

To configure the Kantech Telephone Entry System (KTES) see the [Kantech Telephone Entry System \(KTES\) Configuration](#) section. This system is a standalone system, or for larger installations, integrates with EntraPass.

Use [Doors configuration](#) to define general parameters for a door, door keypad options, door contact options, and Request to Exit (REX) options. Find out how to define card multi-swipe, double/triple swipe actions, interlock options, elevator doors, and interlock options (mantrap). Find procedures to describe how to define a door depending on your connection or gateway.

To activate alarms, control lighting, ventilation, and HVAC systems, use [Relay configuration](#).

You can use [Input configuration](#) to define inputs. Door controllers monitor the state of input points, and the number of inputs available depends on the type of controller. To control reader LEDs and buzzer, use [Output device configuration](#).

If you want to share the configuration of an ioSmart reader follow the procedure in [Reader Templates](#). EntraPass integrates with intrusion and fire panels; use the [Integrated panel configuration](#) section to define these.

Application Configuration

The minimum configuration of an EntraPass software package includes a workstation application (EntraPass monitoring application). EntraPass Special Edition application is a single-workstation software. The software package comprises a number of applications including:

- A workstation application
- A server application,
- One multi-site Gateway application,
- And a number of utilities such as the Vocabulary editor, the Express Database utility, etc.

① **Note:** For a single gateway, limits are 2048 connections, 10,000 doors, 100,000 cards, 100,000 inputs and outputs.

- General parameters applicable to all computers where EntraPass is installed.
- Security parameters (applicable to all EntraPass applications).
- Filters (to define which gateways and EntraPass applications will send messages to the Workstation application being configured).
- Message / alarm controls.

Configuring an Application

1. From the EntraPass main window, select the **Devices** tab, then click the **Application** button. The **Application main window** appears.
2. Select **Workstation EntraPass Special Edition**.
3. Assign a name to the selected application. If you are running the software in two languages, for example in English and French, you may assign a name in English and in French.

Defining Alarm Controls

1. Click the **Alarms** tab to define how alarms should be processed when the EntraPass workstation is connected (or not) to the server.
 - ① **Note:** Alarms desktops are configured in the **Desktop definition** menu. For details, see [Alarms Desktop](#).
2. In the **Alarm control** section:
 - Specify the number of alarms that will be **kept on server** when the EntraPass workstation is off-line, that is, when it is not connected to the EntraPass module. The EntraPass module buffers a maximum of 100,000 alarms per EntraPass workstation (default: 500).
 - Specify the number of alarms that will be **kept on workstation**. There is a maximum of 100,000 alarms per EntraPass workstation. By default, it keeps 5,000 alarms.
 - ① **Note:** The EntraPass workstation will always keep newer events. To view older events, you have to request a historical report. For details on requesting reports, see [Requesting Reports](#).
3. Specify if the server should keep newest or oldest alarms when its buffer reaches the defined maximum number:
 - **Keep older alarms:** The EntraPass module will keep the oldest alarms and archive the newest alarms when the EntraPass workstation is off-line and when the Server buffer is full.
 - **Keep newer alarms:** The EntraPass module will keep the newest alarms and archive the oldest alarms when the EntraPass workstation is off-line and when its buffer is full. Alarms are processed on a first in - first out basis.
4. In the **Clear Alarms Desktops** section, specify when alarms should be cleared:
 - **On logout** (on a regular logout by an operator).
 - **On workstation shutdown** (when the EntraPass workstation is completely shutdown).

5. You may define the acknowledgement parameters. Checking **Display alarm message box** will send an **acknowledgement** message box even if the operator is working in another application. When this option is enabled, you have to enter the delay during which the acknowledgement message box will be suspended. At the end of the delay, an alarm message box will be displayed again requiring an acknowledgement from the operator.
6. You can check the **Disable auto display of video views** option to prevent video views from being automatically displayed by this workstation. In fact, video views defined as alarms and associated with components are automatically displayed when the component goes in alarm.
7. You may check the option **Send message on acknowledge time-out** to generate an “acknowledge time-out” event when the operator fails to acknowledge an event during the time-out delay specified in the **Acknowledge time-out delay** field. The message will be sent to the **Message desktop** and the **Alarms desktop**.

① **Note:** For more information on EntraPass desktops, see [Alarms Desktop](#).

Defining Email Report Options

About this task:

EntraPass and the EntraPass Web offer users the ability to send reports using email capabilities. This function can also be used with SMTP servers asking for a user authentication.

① **Note:** SSL secured connections are not supported.

1. From the **Application** main window, select the **Email reports** tab.
2. In the **Email server (SMTP or Exchange server)** field, enter the IP address of the email server that will be used for sending emails.
3. In the **Email Port** field, enter the number of the port that will be used for sending emails (usually 25).
4. Select the encryption method.
 - Unsecured (No SSL/TLS)
 - Gmail(SSL/TLS)
 - Secured (SSL/TLS)
 - Office 365 (STARTTLS)
5. Enter a valid email address in the **Email sender** field. This email address will be used for authenticating the email server.
6. **Authentication:** These options can be used to configure the authentication method.
 - **No authentication** : No authentication will be applied.
 - **SMTP authentication** : An authentication, sent on the SMTP port, must be validated before the message is released.
 - **POP3 authentication** : An authentication, sent on the POP3 port, must be validated before the message is released.
7. **User name** : Enter a user name for the authentication process.
8. **Password** : Enter the password for the user name. EntraPass supports SMTP connection passwords with a maximum length of 64 characters.
9. **E-mail server (POP3)** : Enter the POP3 server address for a POP3 authentication.
10. **E-mail port (POP3)** : Enter the POP3 port number for a POP3 authentication.
11. **Send to** : Recipient’s address for the message to be sent.

12. **Test button:** Send a test message with the selected parameters. According to the test results, different error or success messages could be displayed.

Defining the host modem and keypad delays

About this task:

The host modem and the keypad delays are defined in the **Configuration** tab.

1. Edit the application name for both languages if needed.
2. In the **Keypad delays** section, enter the **Inter-Digit Delay time (m:ss)**. It represents the maximum delay permitted between each selection of a keypad key by a user. The maximum delay is 4:15 minutes.
3. Enter the **Time-out on keypad delay time (m:ss)**. It is set in seconds. It represents the maximum time allowed for users to begin entering their personal identification number at a keypad. The maximum delay is 4:15 minutes.
 - ① **Note:** The maximum time allowed for both the inter-digit and time-out on keypad delays is 4 minutes and 15 seconds.
4. In the **Delays** (Not applicable to KT-200), use the up/down arrows, determine the number of **Invalid attempts before keypad is disabled**. Users have a maximum of 255 invalid attempts before the keypad is disabled.
5. Enter the **Keypad disabled duration delay (h:mm)**. The maximum duration allowed is 4 hours:15 minutes. When the counter reaches the maximum attempts counter, the keypad will be disabled for all cards. It is disabled for the delay specified in the **Keypad disabled duration** field.
6. Enter the **Reset attempt counter delay (m:ss)**. When the delay specified in the **Reset attempt counter** field is expired, the system will set the attempt counter to zero. The maximum delay is 4:15 minutes. If the value entered is greater than the maximum allowed, then the system will use the previous correct value.
7. Enter the multi-site gateway **IP address** or the **Domain name**.
8. Click the **Host Modem Definition** button to configure the modem communication options if your gateway connects to the first controller of a remote site via modem.

Change site labels

1. Select a site information field from the list on the left.
2. Edit the site information captions. You can enter two different descriptions and use the **Swap** button to swap the first and second captions.
3. Click **OK** to keep your changes or **Cancel** to return.

Connection configuration

About this task:

A connection is composed of 32 controllers attached to the same serial port. EntraPass Special Edition supports 2 connections composed of KT-100, KT-200, KT-300, KT-400, KT-1, and KT-2 controllers. Items displayed in the EntraPass Connection window vary depending on the selected connection type. For example, if the selected connection type is an RS-232, an **RS-232** tab will be displayed to configure the corresponding serial port and baud rate. If the connection type is dial-up, three extra tabs will be displayed for modem configuration.

- ① **Note:** For a single gateway, limits are 2048 connections, 10,000 doors, 100,000 inputs and 100,000 outputs.

Seven types of connections are available: Direct (RS-232 and USB), Secure IP (KT-400), Secure IP (KTES), Secure IP (IP Link), Secure IP (KT-1), Secure IP (KT-2), Ethernet (polling) and Dial-Up (RS-232) modem. See the following table for the connection types and the gateways.

Table 15: Connection types and gateways

Connection Type	Multi-site Gateway (Note)	Global Gateway (Note)	KT-NCC (Note)
Direct (RS-232 or USB)	Yes	Yes	Yes
Ethernet (polling)	Yes	Yes	Yes
Secure IP (KT-2)	Yes	Yes	Yes
Secure IP (KT-1)	Yes	Yes	Yes
Secure IP (KT-400)	Yes	Yes	Yes
Secure IP (KTES)	Yes		
Secure IP (IP Link)	Yes		
Dial-up (RS-232) modem	Yes		

① **Note:** The multi-site Gateway is available in all EntraPass Editions. Even though it is not referred to as a multi-site Gateway, the EntraPass Special Edition includes an imbedded multi-site Gateway. The KT-NCC and the Global Gateway are only available with EntraPass Global Edition.

1. From the **Devices** window, click the **Connection** button.
2. Select a **Site filter** from the first list.
3. Select the **Gateway**.
4. From the **Connection** list, select the connection where the controller is located.
5. If you are defining a new **Connection**, click the **New** button. Assign a name to the new connection and click the **Save** button.
6. Under the **General** tab:
 - In the **Hardware definition** section, specify the number of controllers for the connection. There may be up to 32 controllers for each connection. If the number specified is greater than the maximum allowed, the system will set the value to 32.
 - ① **Note:** When the connection type is **IP address (KTES)**, the number of KTES is automatically limited to a single KTES per connection.
 - Select a **Time zone:** This setting allows events from the remote site to display at local gateway time on EntraPass workstations located in different time zones.

Setting up communication timing

⚠ CAUTION: Do not use the **Communication timing** option. If you need to set up the communication delay and polling frequency, call Kantech Technical Support Help Desk. Inappropriate use of this option may cause serious problems to the system. The **Communication timings** window shows the actual default settings. They must be preserved unless advised otherwise by Kantech.

Configuring a Direct RS-232 Connection Type

This type of connection can be configured in EntraPass Special Edition to communicate via a RS-232 gateway.

When selecting the **Direct RS-232 connection type** option in the **General** tab, a **RS-232** tab will become available.

- Select the **Communication Port COM**.
- Select the **Controller's loop baud rate** . The default rate is 19200 baud.

Configuring an IP device connection type

About this task:

Configure this type of connection in the EntraPass Workstation to communicate using a Kantech IP Link, a KT-400, a KT-1, a KT-2, or a KTES.

- ① **Note:** For more information about configuring the Kantech IP Link, refer to the *Kantech IP Link Installation Guide*, DN1670. For more information about the KT-400, refer to the *KT-400 Ethernet Four-Door Controller Installation Guide*, DN2003. For more information about the KT-1, refer to the *KT-1 One-Door Controller Installation Guide*, DN2186.

If you choose **Secure (IP KT-400)** as a connection type, the primary controller must be a KT-400.

For the KTES, the only controller in the loop must be a KTES. For more information about the KTES, see the *KTES Installation Manual*, DN1769.

1. From the **Connection** list, select a connection type. If you select one of the following devices: **KT-400, KT-1, KT-2, IP Link, or KTES**, the following three tabs become available:

- **IP Device IP configuration**
- **IP Device Automated Connection**
- **IP Device Parameters**

- **MAC address:** Enter the device MAC address. The first 6 characters in the MAC address (00-50-F9) cannot be modified.
- The **Online** box is selected by default.
 - **Obtain IP address automatically:** Select this option when configuring the device with a **Reserved DHCP IP** address.
 - **Use the following IP Address:** Select this option when you want to assign a static IP address to the device. When selected, the following three parameters become available.
 - **IP Address:** The static IP address is provided by the System Administrator.
 - **Subnet Mask:** This address is provided by the System Administrator.
 - **Gateway (Router):** This address is provided by the System Administrator.
 - **DNS server address:** This address is provided by the System Administrator (for Kantech IP Link, KT-400, KT-1, and KT-2 only).
 - **Protocol:** Used to specify the communication protocol, UDP or TCP.
 - **Port:**
 - **For TCP:** 18802 for the host site. Not required for the remote site.
 - **For UDP:** Port 18810 is automatically assigned to the device by default. It should not be modified unless the IP device is at a remote location, like on a **WAN**.
 - ① **Note:** Use port 18802 with KT-400, KTES, KT-1, KT-2, and IP Link.

- The **multi-site Gateway IP address** is used or click **Override Gateway IP Address**.
 - **Auto Discovered IP:** This is a read only field that automatically displays the gateway IP address. When the radio button is selected, the system overrides the IP address and reloads the connections with that new information.
 - ⓘ **Note:** The **Auto Discovered IP** field is always filled and updated with an IP address even when not selected. For a new gateway, the **Auto Discovered IP** radio button is not selected by default. The IP Address field is still the default selected option.
 - **IP address:** Enter the gateway computer IP address.
 - **Domain name:** If you do not have the gateway IP address, you can enter the domain name provided by the System Administrator (for Kantech IP Link, KTES, KT-400, KT-1, and KT-2 only) .
 - ⓘ **Note:** You must select to either enter the IP address or the domain name. You cannot enter both at the same time (for Kantech IP Link, KTES, KT-1, KT-2, and KT-400 only) .
 - **Test DNS:** After you enter the domain name, click the **Test DNS** button to display the corresponding IP address (for Kantech IP Link, KTES, KT-1, KT-2, and KT-400 only).
2. Move to the **IP Device Automated Connection** tab if you are in a **WAN** environment.
- The **Broadcast configuration** box must be checked at all times.
 - **Private IP Address (LAN):** Will assign the IP address automatically.
 - **Public IP Address (WAN):** This IP address should have been provided by your internet provider. This corresponds to the IP of the remote site.
 - **Domain Name (WAN):** This information should be provided by the System Administrator. This corresponds to the IP of the remote site.
 - **Enable KT-Finder diagnostic for IP device:** Check this box if you want to use the KT-Finder as a configuration and troubleshooting tool.
3. Move to the **IP Device Parameters** tab to configure security and communication parameters.
- **Encryption key:** type a 16-digit hexadecimal code to encrypt your site.
 - **Controller's loop baud rate:** Enter the controller's loop baud rate.
 - ⓘ **Note:** For a KT-200, the maximum baud rate is 19200.
 - In the **Delays** section:
 - **Heartbeat frequency (mm:ss):** Enter the frequency to which you want the IP device to send a signal to the gateway to indicate it is online (00:15 to 10:00).
 - **Fail to report after (mm:ss):** Enter the delay before acknowledging communication failure (01:30 to 59:59).
 - **Fail-soft delay on gateway communication failure (mm:ss):** Enter the delay before the IP device will consider communication with a controller has been lost and the controller is in fail-soft mode.

- **Retry Count:** Enter the number of times the IP device will try to communicate with a controller within the delay setup in the previous parameter before acknowledging communication failure (1 to 15).
- **Maximum wait on send command (s.cc):** When applicable, enter the maximum delay period that the gateway will allow for the IP device to acknowledge reception of a command from an EntraPass workstation (1.00 to 9.99).

Configuring an Ethernet Polling Connection Type

This type of connection can be configured in EntraPass Special Edition to communicate via the network (Lantronix).

When selecting the **Ethernet (Polling)** option in the **General** tab, an **IP device** tab will become available.

- Enter the terminal server **IP address** and **Port number**.
- Select the communication protocol:
 - **TCP** if the communication is made with the gateway through a terminal server using TCP protocol. In this case, you have to configure the terminal server. To do this, follow the manufacturer's instructions or refer to the Terminal server documentation.
 - **UDP** (User Datagram Protocol), uses the IP protocol to send datagrams from one Internet application to another. It is called "connectionless" because the sender and the receiver are not required to connect before the transmission of data. Check this option if the connection you are configuring uses this protocol.

Configuring a Dial-Up (RS-232) Modem Connection Type

About this task:

If you specified **Dial-up (RS-232) modem** from the **Connection type** drop-down list in the **General** tab, you will be able to access three extra tabs: Modem options, Modem schedule parameters and Miscellaneous.

1. Select the **Modem options** tab to set outgoing call behaviour to site modem.
 - ① **Note:** The **Remote Baud rate** should not be changed. If you are uncertain about modem setup parameters, consult your network administrator for the settings which apply to your particular hardware configuration.
 - Enter the **Code to access an outside line** (if applicable).
 - Enter the **Remote phone number** .
 - ① **Note:** For reliability and configuration consistency, Kantech currently supports the US Robotics Sportster external modem only. The Modem init settings cannot be changed.
 - Select the **Phone line type: Tone** or **Pulse** .
 - Set the **Number of rings before answer** that will define the number of rings before the modem picks up the call. This option is valid whenever ring schedules are not in effect.
 - Set the **Answer on first ring schedule** option to configure the time interval during which site modem will be allowed to answer on one ring.
 - Set the **Number of retries** . This will set the number of calls the modem will attempt to make before giving up.

2. Move to the **Modem Schedule parameters** tab to set time intervals during which the gateway or site connects to remote sites or gateways (through modem calls) in order to perform specific tasks.
 - Click on the **Retrieve site events** button to bring up the schedule selection window. Select the schedule that best corresponds to the time requirements set out for this task. For more information on defining schedules, see [Schedules Definition](#).
 - Repeat this step for **If data is modified since last , Report events under prioritycall type** and **Report events automatically** .
 - Define the delay before the system will **Fail to report after (mm:ss)** .
 - ⓘ **Note:** To schedule the reporting of events under priority call types, first define **Priority call types** for items such as doors, inputs and controllers.
3. Click the **Miscellaneous** tab to configure how modems handle site incoming and outgoing calls.
 - Check the **Use a callback connection** option to force the gateway modem to hang up after initial connection to the remote site modem and to stand by for an acknowledgement call from the remote modem. You may also want to customize the **Fail to callback delay**. Default is set to 1:30 (1 min 30 secs.).
 - This option only applies to the KTES. Check the **Enable multiple KTES line sharing** option to change the **Identification delay (ss)** between each KTES. The time range value is between 00 and 20 seconds.
 - Select the **Primary host modem** in the drop down list. If available, select a backup modem in the **Secondary host modem**. This setting is useful when the primary modem is busy or fails to take the call.
 - Check **After reception stay online for** if you wish to limit in-call time to a predetermined amount of time which can be set to anywhere between 00.03.00 and 23.59.59.
 - Check the **Call immediately when secondary controller communication failure** to be alerted in the event that a secondary controller fails to send data to the primary controller (the one carrying the modem).
 - Check the **Call immediately when buffer 70% full** to force download of a site controller's event buffer as soon as it reaches 70% capacity.
 - ⓘ **Note:** Do not click the **Remote modem delays** button. All values are factory-set for optimum performances with the supported US Robotics modems. Settings **SHOULD NOT** be edited unless recommended by Kantech.

Migrating KT-Standalone backup data to an EntraPass server

About this task: You can migrate backup data from a KT-Standalone controller to an EntraPass server; compatible controllers include the KT-1, firmware v2.01 and higher, and the KT-401, firmware v2.00 and higher. The backup includes the following data:

- Controller definitions
- Door definitions
- Relay definitions
- Schedule definitions
- Holiday definitions

- User definitions
- Action scheduler

① **Note:** The following features are not included in the migration.

- Time zone
- Alarm panel integration
- Multi-swipe settings on exit door.
- Cards #2 to #5.
- Door access exceptions
- Interval #5 of schedules.

Table 16: Import KT-Standalone icon

Icon	Description
	KT-Standalone: selects backup files from a KT-1, firmware v2.01 and higher, and the KT-401, firmware v2.00 and higher, standalone controllers.

Before you migrate your data, you must configure EntraPass to use the same **card format**, **Global Card Format**, and **PIN length** as the standalone settings:

1. Click the **Options** tab, and click **Display Format**.
2. In the **Default card format** area, select the **Card #1** format to match the **Card #1** format in the standalone controller, repeat for card #2 to card #5.
 - ① **Note:** If card #1 and card #2 use a different display format, EntraPass migrates to card #4 or card #5.
3. In the **Global Card Format** area, choose the appropriate global card format.
4. Select the appropriate PIN length from the **Number of PIN digits (KT-400 and KT-1)** list.

To migrate backup data, complete the following steps:

1. On the **Devices** tab, click **Connection**.
2. Click the **KT-Standalone** icon on toolbar to display the KT-standalone backup CFG files for the KT-1, firmware v2.01 and higher, and the KT-401, firmware v2.00 and higher.
3. Select a file to see the backup information: the **Card #1** format to match the **Card #1** format in the standalone controller, repeat for card #2 to card #5.
 - a. Backup date and time
 - b. Controller type
 - c. Controller type
 - d. Controller MAC/Serial number
 - e. Controller firmware version
 - f. Amount of schedules
 - g. Amount of holidays
 - h. Amount of action scheduler
 - i. Amount of doors
 - j. Amount of relays
 - k. Amount of input

4. A window displays the message **Are you sure you want to import the following data?** If you click **Yes import data**, the following message displays, **Migration completed**. Click **OK**. If you click **No**, the message window closes.

Controllers configuration

Controllers provide audiovisual feedback on the access decision. Typically, a red/green light (LED) indicator on the reader informs the cardholder that the door is unlocked or that access has been denied. A local door alarm can be installed to provide an audible warning if the door is forced open or remains open after an access.

The controller definition tells the system how a controller is being used and what devices are associated with it: (doors, input zones, relays and output devices). Controllers may be defined during a system or connection configuration; or in the controller definition menu, by selecting either the controller button (**Devices > Controller**) or by using **Express Setup program**. EntraPass supports the following controllers: KT-100, KT-200, KT-300, KT-400, KT-1, and KT-2. These provide the ability to activate local functions associated with a controller. The number of devices associated with a controller varies according to the controller type. The following table summarizes the basic components associated with each type of Kantech controller.

Table 17: Kantech controller components

Type	Doors	Wireless doors (licensed)	Relays	Input zones	Auxiliary outputs
KT-100	1	not supported	4	4	2
KT-200	2	not supported	2	16	4
KT-300	2	not supported	2	8	4
KT-400	4	8	4	16	16
KT-1	1	8	2	5	5
KT-2	2	8	2	8	5

Unassigned modules

To find a list of modules communicating with a controller but unassigned, click the **Request Unassigned Modules** icon. A window with the following information displays:

- **Module Type:** ioSmart or ioModule.
- **Module Serial Number:** of the module.

To define an unassigned module, right-click the module, and click **Assign module**, it automatically populates the module's data into the controller's configuration page in the **ioModule** tab, or the **ioSmart** tab. If required, rename the module, or change the configuration details, and click **Save**. When you define the module, the system removes it from the list.

Configuring general parameters for Kantech controllers

1. Click the **Devices** tab, click **Controller**, and, from the **Site filter** list, select a site filter.
2. Select the **Gateway**. For information about configuring a gateway, see [Gateway Configuration](#).
3. From the **Connection** list, select the connection where the controller is located. For more information about configuring a connection, see [Connection Configuration](#).
4. From the **Controller** list, select the controller you want to define. Once selected, the language section is enabled. You may rename the selected controller.

5. From the **KT controller type** list, select a controller type. Once selected, the language section is enabled. You may rename the selected controller.
 - Assign a meaningful name to the controller in the language section, and click the **Save** icon. After you save, the **Controller type** list is disabled.
 - The system prompts you to use the **Express Setup program**. Click **Yes** to continue. If you click **No**, you must manually configure these devices in their respective definition menus (doors, relays, inputs and auxiliary outputs).
 - ① **Note:** In EntraPass, you can install two types of readers on the same controller (primary and secondary). This feature is only available with KT-100 and KT-300. For KT-400, KT-1, or KT-2, 8 different reader types can be loaded (this feature is supported with firmware 1.06 and later). On a given controller, all reader types must be the same (Wiegand or ABA).

6. Select the reader installed on your controller from the **Reader type** lists. Check Table 18 for the reader types and the controller types.
 - ① **Note:** The  icon allows you to install a custom driver for a specific controller. Use this icon to add the driver in the Reader+ Driver table, making it available the next time you want to configure a new controller.

Table 18: Reader types

Reader Types	KT-100	KT-200	KT-300	KT-400/KT-1/ KT-2
ABA with Type CNPID Cards	Yes	Yes	Yes	
BC-201 - CF100	Yes	Yes	Yes	
BC-201 Bar code with Polaris Cards	Yes	Yes	Yes	Yes
CARDKEY	Yes	Yes	Yes	
CASI-RUSCO 26/28-Bit Wiegand	Yes	Yes	Yes	
CHECKPOINT Sielox Format	Yes	Yes	Yes	
CHUBB	Yes	Yes	Yes	
DORADO ABA clock and data	Yes	Yes	Yes	
DORADO ABA Wiegand	Yes	Yes	Yes	
DORADO EMPI 26-Bit	Yes		Yes	
DORADO EMPI 34-Bit	Yes	Yes	Yes	
FIPS 201 75-bit no expiry date				Yes
FIPS 201 75-bit with expiry date				Yes
h20302, 37-Bit	Yes	Yes	Yes	Yes
HID CORPORATE 1000 Generic	Yes	Yes	Yes	Yes
HID iClass 37-Bit No Party				Yes
HID KSF (Kantech Security Format)	Yes	Yes	Yes	Yes
HUGHES 36-Bit - CF104	Yes	Yes	Yes	
INDALA old 27-Bit Format	Yes	Yes	Yes	

Table 18: Reader types

Reader Types	KT-100	KT-200	KT-300	KT-400/KT-1/ KT-2
INTERCON	Yes	Yes	Yes	
ioProx Dual Driver (26-Bit and XSF)	Yes	Yes	Yes	Yes
ioProx Kantech 26-Bit Wiegand	Yes	Yes	Yes	Yes
ioProx Kantech XSF Format	Yes	Yes	Yes	Yes
ioProx UK 31-Bit Wiegand				Yes
KRONOS Card with Bar Code Reader	Yes	Yes	Yes	
Mifare 32-Bit CSN	Yes	Yes	Yes	Yes
Mifare 34-Bit AID 517A	Yes	Yes	Yes	
Mirage 135	Yes	Yes	Yes	
NCS	Yes	Yes	Yes	
Northern 32-Bit with NR1 Reader	Yes	Yes	Yes	
Northern 34-Bit with Hughes Reader	Yes	Yes	Yes	
Paramount Farm 32-Bit Wiegand	Yes	Yes	Yes	Yes
Polaris 1 - CF101	Yes	Yes	Yes	
Polaris 1 with 10-Digit Cards	Yes	Yes	Yes	
Polaris 1 with 16-Digit Cards	Yes	Yes	Yes	
Polaris 1 with Polaris Cards	Yes	Yes	Yes	Yes
Polaris 2 ABA with 10-Digit Cards	Yes	Yes	Yes	
Polaris 2 ABA with 16-Digit Cards	Yes	Yes	Yes	
Polaris 2 ABA with Polaris Cards	Yes	Yes	Yes	Yes
Polaris 2KP ABA with 10-Digit Cards	Yes	Yes	Yes	
Polaris 2KP ABA with 16-Digit Cards	Yes	Yes	Yes	
Polaris 2KP ABA with Polaris Cards	Yes	Yes	Yes	Yes
Polaris 32/35/37 CHRS - CF103	Yes	Yes	Yes	
RBH 50-Bit Card Driver				Yes
SCHLAGE 1030 and 1040 Card Format	Yes	Yes	Yes	
Sensor 26-Bit Wiegand Standard	Yes	Yes	Yes	Yes
Sensor 34-Bit Wiegand	Yes	Yes	Yes	Yes
SFT-R50 26-Bit	Yes	Yes	Yes	
Shadow PROX	Yes	Yes	Yes	Yes
Siteguard Format	Yes	Yes	Yes	
Wiegand 26/28-Bit - CF102	Yes	Yes	Yes	
WLS Wireless 26-Bit	Yes	Yes	Yes	
WLS Wireless Shadow Prox and HID	Yes	Yes	Yes	

7. Select the keypad installed on your controller from the **Keypad type** list. Check Table 19 for the keypad types and the controller types.

Table 19: Keypad types

Keypad Types	KT-100	KT-200	KT-300	KT-400/KT-1/ KT-2
KP-1003H	Yes	Yes	Yes	
KP-500, KP-2000, KP-2500, KP-3000	Yes	Yes	Yes	
ioProx with Integrated Keypad (8-Bit Burst)	Yes	Yes	Yes	Yes
POL-2KP - 5-Digit Integrated Keypad	Yes	Yes	Yes	Yes

8. Use the **Disable controller polling** when you need to put the controller in disable mode. In disable mode, the controller is never polled and all status requests from this specific controller send a message that this controller is disabled.
 - ⓘ **Note:** This option can be used when a controller is removed temporarily but must not be deleted. For example, if the controller is under repair. It also allows operators to easily set up the software before the physical installation is completed.
9. Select the **Vital LED** mode (for KT-1 and KT-2 only). For more information, refer to the *KT-1 Installation Guide* or to the *KT-2 Installation Guide*.
10. Select between **On demand** and **Always on** for the **Status LED (for KT-1 or KT-2 only)**. For more information, refer to the *KT-1 Installation Guide* or to the *KT-2 Installation Guide*.
11. Select a **Graphic** and **Video view** to which the gateway is assigned, if applicable. The video view is activated only if the video feature is enabled in EntraPass.

Changing controller type

About this task:

Controller types can be updated to newer controllers without resetting the controller configuration. To change the controller type, complete the following steps:

1. Click the **Devices** tab, click **Controller**, and, from the **Controller** list, select a controller.
2. Select a new controller type from the **KT controller type** list.
3. Click the **Save** icon. A warning message asks if you want to continue. Click **Yes** to continue. This launches the **Express Setup** window.
4. Any undefined components can be configured using the **Express Setup** window. For example, when changing from a KT-1 to a KT-400, the undefined doors can be configured.
5. Click **OK** to complete the process.
6. During the process, the option **Disable controller polling** is automatically selected. Ensure that this option is cleared.

Result

This function only supports updating controllers to newer controllers. The rules for updating controller types are summarized in the following table.

Table 20: Updating controller types

Original controller type	Supported update controller types
KT-100	KT-300, KT-1, KT-2, KT-400
KT-200	KT-300, KT-2, KT-400
KT-300	KT-2, KT-400
KT-1	KT-2, KT-400
KT-2	KT-400

- ① **Note:** When converting from a KT-100 or a KT-1 to a KT-400, exit readers are converted to a second door.

It is not possible to change the controller type if a KT-IP has been used.

Combus and SPI modules associated with a controller cannot be transferred. To change the controller type, definitions for combus and SPI modules must first be removed.

Configuring Specific Controller Parameters

1. Click the **Controller** tab (KT-100, KT-200, KT-300, KT-400 or KT-1/KT-2) from the **Controller** window.
2. Enter the controller serial number in the **Serial number** field. Usually, the number is found on the controller label. The field is defined to accept only numeric characters, except for the first character which may be an a or A. If a lower case character is entered, the system converts it to a capital letter.
3. For KT-400 only:
 - To configure SPI modules, see [Expansion Modules Setup](#).
 - To configure the elevator floor associations, see [Defining the KT-400 Elevator Floor Associations](#).
4. For KT-300 only:
 - To configure Combus Modules, see [KT-300 Combus Modules](#).
 - To configure the elevator floor associations, see [Defining the KT-300 Elevator Floor Associations](#).
5. For KT-200 only:
 - To configure KT-200 Auxiliary devices , see [Configuring KT-200 Auxiliary Devices](#).
 - To define REB-8 relays, see [Defining REB-8 Relays](#).
 - To configure REB-8 elevator controllers, see [Programming REB-8 Elevator Controllers](#).
 - To configure KT-2252 elevator controllers, see [Programming KT-2252 Elevator Controllers](#).
6. Enter the **Wait for second access card delay**. The maximum time allowed is 2 minutes and 7 seconds. This feature is useful for secured areas where two cards are required to access a secured door. If the value entered is greater than the maximum allowed, the system will use the existing value.

7. In the **Keypad escape key** drop-down list, choose a keypad escape key if applicable. This feature is associated with PIN numbers. When a user enters a wrong number, he/she may press the escape key and re-enter the PIN, without incrementing the number of attempts.
8. In the **EOL resistor (5.6K)** drop-down list, select the resistor type used with your system. By default, this choice is set to **None** . This feature is used as a supervision device for all inputs. In fact, if this feature is enabled and if an input is disconnected, an alarm message is generated and sent to the **Alarm message** desktop (or other desktop configured to receive such events).
9. Select a value from the **RS-485 baud rate** list.
10. In the **Reader template** list, click the **more options** button to select a reader template. Selecting a template ensures any reader connected to the controller inherits the template properties.
11. Click the **Save** button.

Configuring the status relay activations

Click the **Status relay** tab to program a relay or group of relays that activates when an event occurs. Click the  button to select a relay or a group of relays (not available for KT-100).

Configuring licensed wireless doors

Note: Before you begin, install the **Licensed Door** feature. For more information, see [System Registration](#).

The licensed wireless door feature supports the addition of ASSA ABLOY wireless doors in EntraPass. For more information about configuring the Assa Abloy interface, refer to the Application Note, *ASSA ABLOY Wireless Locks integration (AH30 hub, serial)*.

To configure your EntraPass installation for licensed wireless doors, complete the following steps:

1. Click **Devices**, click **Controller**, and select the controller you want to configure. If the controller supports licensed wireless doors the **Licensed door** icon is available on the **Controller** window toolbar.
2. Click the **Licensed doors** icon.
3. If no integrated panel has previously been linked to that controller, EntraPass automatically creates a new integrated panel.
4. Click **Configuration** to open the **Licensed Doors** window. The number of **Purchased** licenses and **Available** (remaining) licenses is displayed.
5. To add a door, click **+**.
6. You must input a description of the door and the device address. The device address (EAC address) has been configured during the configuration of the wireless lock. For more information about configuring the Assa Abloy interface, refer to the Application Note, *ASSA ABLOY Wireless Locks integration (AH30 hub, serial)*.
7. Select the correct box to indicate whether the door has a **contact** (to indicate open or close) or a **REX** (Request To Exit) functionality.
8. To delete a door, click **Delete** and click **OK**.
9. If an integration panel has previously been linked to the selected controller, the **Licensed Doors** window displays, and you can edit existing wireless doors.

10. To view the status of the wireless lock, select the wireless lock from the **Operation/Integrated Panel**. The icon signifies if the device is operational. To view details, double-click on the device. The possible states are listed in the table.

Table 21: Device states

Parameter	Possible States
Door Number	
Tamper	<ul style="list-style-type: none"> • Tamper in alarm • Tamper in normal condition • [Unknown State: NOTHING DISPLAYED]
Device communication status	<ul style="list-style-type: none"> • Device Online, as per Hub Status • Device Offline, as per Hub Status • [Unknown State: NOTHING DISPLAYED]
Door side	<ul style="list-style-type: none"> • Door side: Inside • Door side: Outside • Door side: Both inside and outside • [Unknown State: NOTHING DISPLAYED]
Handle State	<ul style="list-style-type: none"> • Handle not used • Handle used • [Unknown State: NOTHING DISPLAYED]
Key Cylinder State	<ul style="list-style-type: none"> • Key cylinder not used • Key cylinder used • Key cylinder is in Specific position: 1 (or 2 or 3) • [Unknown State: NOTHING DISPLAYED]
Lock State	<ul style="list-style-type: none"> • Door unlocked • Door locked • Door lock secured • Door lock jammed • [Unknown State: NOTHING DISPLAYED]
Door State	<ul style="list-style-type: none"> • Door opened • Door closed • [Unknown State: NOTHING DISPLAYED]
Protocol version	
Version Number	
Vendor ID	

Table 21: Device states

Parameter	Possible States
Mac Address	
Hub Mac Address	
On abnormal behaviour	<ul style="list-style-type: none"> • Controller firmware does not support this integration • No Reader Driver available • Door not configured • Input not configured

ⓘ Note:

Licensed wireless doors can be identified by a blue icon. Wired doors have a green icon in EntraPass.

There are less configurable parameters for wireless doors when compared to wired doors. There are also some differences to the operation of wireless doors.

- Some manual features such as **Arm Door**, **Disarm Door**, **Door contact back to schedule** and **Disable Door Contact** are not available for wireless locks.
- Wireless locks go into a sleep mode to conserve power. When you send a manual operation to these locks you must wake up the lock (by interacting with the lock) for the manual operation to be processed. This is also true of unlock schedules which require the lock to be woken up to operate correctly. To wake a lock you may need to swipe your card twice.
- On initial power up the **Tamper State** will be reported as **Unknown** until the lock cover has been opened.
- If a wireless hub loses power it will not retain the last status of its wireless locks.
- The buzzer and LED cannot be controlled through EntraPass.
- When switching the length of the pin code, the wireless lock must be configured through its own interface.
- The current status of the lock is only updated on an event.
- The wireless lock cannot be operated when disconnected from the controller.
- The lock state refers to deadbolt of the lock. When the dead bolt is engaged the lock state becomes unknown.
- Currently only 26-bit drivers are supported for wireless locks.

ⓘ Note: If you go to **Devices>Integrated Panel>Print**, you can see the number of licensed doors associated with that integrated panel.

Currently, wireless licensed doors are only supported for KT-1 and KT-400 controllers.

Defining Controller Options

About this task:

The **Option** tab enables operators to configure such features as:

- Anti-passback (for synchronizing entry/exit readers)
- Duress function (for defining a panic button)
- Card count options (for specifying cards in an area), etc.

① **Note:** The **anti-passback** option works with entry/exit readers. It allows security administrators to keep track of the number of monitored cardholders in an area. It is local to each controller defined by corresponding entry/exit readers. A relay can be activated when the counter reaches the number of cards defined to be inside the area; the relay is disabled when the number of cards in the area goes below the specified number.

1. From the **Controller** window, click the **Option** tab to define **anti-passback**, **duress** and **card count** options.
2. Determine the **Duress** options . When a duress option is selected, you have to assign a duress key, that is a silent panic key.
 - **Duress on access granted** : This option enables the duress key when access is granted.
 - **Duress on access denied** : This option enables the duress key, even when access is denied.
3. Select a duress key from the **Keypad duress key** drop-down list.

① **Note:** For added security, you may select both options.
4. From the **Anti-passback options** , select the **anti-passback** option from the **Type** drop-down list: when an anti-passback option is enabled, a card cannot be used on an exit door unless it has been used on a corresponding entry door.
 - **None** : The anti-passback option is disabled.
 - **Soft anti-passback** : This option allows a cardholder to use an entry (or exit) reader more than once without using the corresponding exit (or entry) reader. Only an “ **Access granted - Passback bad location** ” event is sent to the **Message desktop**.
 - **Hard anti-passback** : A card used at an entry reader will not be able to access the same entry reader again until it has used the corresponding exit reader. Only an “ **Access denied - Passback bad location** ” event is sent to the Message desktop.
 - **Controller local area:** This selection enables the **Controller local area** tab. This option is only functional with the KT-400; the **Controller Local Area** tab will only appear with a KT-400 (see [Defining the KT-400 Controller Local Areas](#) for more details).
5. In the **Forgive schedule** section, click the three-dot button to set a schedule for resetting the anti-passback option on all other cards.

① **Note:** The **Forgive Schedule** section is enabled only when Soft anti-passback or Hard anti-passback item is selected.
6. In the **Miscellaneous** section, indicate options for **Enable fail-soft delay(10-255 s)** . During a fail-soft mode, the controller operates in stand-alone mode, following a communication failure.
7. Enter the **32-bit card family code** (optional). You can locate this hexadecimal code on the access card.
8. In the **Card count options** , use the up or down controls to set the maximum card number. The **maximum card number** allowed is 2,147,483,647. The system keeps track of the number of monitored cards that are in the monitored area and activates a relay when the count is reached. When users exit the area, the counter decrements and the relay will eventually reset when the count is smaller than the value defined.

9. You may configure the system to **activate a single relay** or a **group of relays** when the maximum count is reached. Click the  button to select the relay or relay group that will be activated when the number is reached.
 - ⓘ **Note:** The **Activate relay** section is enabled only when Soft anti-passback or Hard anti-passback item is selected.

Supervision Schedule

1. Select a schedule for the **Power supervision** (not available for KT-1).
2. Select a schedule for the **Tamper switch** (not available for KT-100 and KT-300).
 - ⓘ **Note:** Please refer to [Schedules Definition](#) for more details about schedule configuration.

KT-200

Defining KT-200 Auxiliary Devices

1. From the **Controller definition** window, select the **KT-200** tab.
2. In the **Auxiliary devices** section, select the type of devices used with KT-200 controller.
 - Check the **REB-8 relay** option if REB-8 expansion boards are used as relays. Only 16 relays can be defined. If two REB-8 are added, the last two relays (the 17th and 18th relays) can be used to perform different actions. You have to specify the additional actions for the two relays in the **Extra relay** drop-down list.
 - Check the **KT-2252 elevator controller and REB-8 relay** option if KT-2252 are used as elevator controllers and REB-8 are used as relays on the same door controller. A maximum of four KT-2252 can be connected to the controller.
 - Check the **REB-8 ElevatorController** option if REB-8 are used for elevator control. Up to four REB-8 can be used for elevator control.
 - ⓘ **Note:** When an elevator controller option is checked, an **Elevator** tab appears beside the KT-200 tab.

Programming REB-8 elevator controllers

About this task:

REB-8 relay expansion boards may be used as a cost-efficient alternative for elevator control. With a REB-8 expansion board added to a KT-200, the software may control up to two elevator cabs per controller.

1. In the **KT-200** definition window, select the **REB-8 elevator controller** option. When the option is selected, an **Elevator** tab appears beside the **KT-200** tab. The REB-8 definition section is only active when REB-8 are used as relays.
2. Select the **Elevator** tab to configure the REB-8 elevator controllers. Up to four REB-8 elevator controllers are supported.
3. Specify the number of REB-8 that are installed on the controller. The selection is cumulative. For example, if four REB-8 are installed, the first three checkboxes have to be checked also. The following table summarizes how REB-8 are assigned to floors and to elevator cabs.

Table 22: REB-8 assigned to floors and elevators

Number of REB-8	Number of Floors	Number of Cabs
1	1 to 8	Cab 1
2	9 to 16	Cab 1
3	1 to 8	Cab 2
4	9 to 16	Cab 2

① **Note:** The Inputs column refers to the REB-8 terminals. When floors have been defined (in the **Floor** menu), the **Floors** column contains the floors that are associated with the inputs.

4. In the **Floors** column, select the floors associated with REB-8 controller terminals. For information about floor definition and door group definition, see [Doors Configuration](#).

① **Note:** There is no floor confirmation when an REB-8 is used as an elevator controller.

Defining REB-8 Relays

About this task:

When REB-8 are used as relays, you need to specify how many relays are installed on the KT-200. The controller can handle a maximum of 16 accessible relays and already provides 2 on-board relays.

1. Under the **KT-200** tab, select the **REB-8 relay** option if REB-8 are used as relays.
2. If they are used with the KT-2252 elevator controller, select the **KT-2252 elevator controller and REB-8 relay** option. In either case, the REB-8 definition section is enabled.
3. In the **REB-8 Definition** section, select the appropriate option: **No REB-8**, **One REB-8** or **Two REB-8**.
4. If two REB-8 are added (for a total of 18 relays), the last two relays can be used to perform different actions: select the use for the extra relays from the **Extra relay** drop-down list.
5. Select the **Status relay** tab to program a relay or group of relays that will be activated when an event occurs.

KT-300

Defining the KT-300 Elevator Floor Associations

① **Note:** The **Elevator** tab displays only when Combus modules have been defined as elevators under the **KT-300** tab.

Associating Floor Numbers

1. In the **Controller** window, click the **elevator** tab to define the floor associations.
 2. From the **Floors** drop-down menu, for each number select a floor.
 3. Click **Save**.
- ① **Note:** To define floors, see [Floor Definition](#).

KT-300 combus modules

About this task:

Five Combus modules can be connected to a KT-300:

- **KT-PC4108** (8-zone input expansion module). This module has a tamper contact input.
- **KT-PC4116** (16-zone input expansion module). This module has a tamper contact input.

- **KT-PC4204** (4-relay/power supply expansion module). It has a tamper contact input and also includes a built-in 12VDC, 1A power supply for field devices.
 - **KT-PC4216** (16-zone output expansion module). It can be used for elevator control, although additional hardware may be required.
 - **KT-LCD3** (Kantech 32-character liquid crystal display). The LCD is green (normal status), red (power failure) and yellow (trouble).
1. If a Combus module is installed to the KT-300 controller, click the **Combus module configuration** button. Undefined Combus terminals are identified by red flags/bullets. Once a module has been defined, it is identified by a green flag.
 2. To define a module, select one, then click the **Define** button (lower part of the window). The **Enter Combus module serial number** message box appears.
 3. Enter the module's serial number, then click **OK**.
 - ⓘ **Note:** To obtain this number, you have to activate the **Tamper switch** or to press any key on the keyboard. The Combus serial number is displayed in the Desktop Message.
 4. Assign names to the modules in the language fields.
 5. Check the options related to the module you want to configure (if these are displayed in the window).
 - ⓘ **Note:** Usage options of a module vary according to the selected Combus module. For example, installing the KT3-LCD and checking the options *Combus low power* and **Display date and time** will allow the KT-300 to report Combus low power conditions and to display the date and time.

Table 23: The options associated with each module

Combus type	Options	Additional options
KT3-LCD	Combus low power, display date and time	No additional options
KT-PC4108	Tamper alarm, Combus low power	8-input module
KT-PC4116	Tamper alarm, Combus low power	16-input module
KT-PC4204	Tamper alarm, Combus low power, Low battery, Power failure, lower auxiliary power	Used as relays (1-4)
KT-PC4216	Tamper alarm, Combus low power	Used as outputs

6. Check the **Combus low power** option so that the KT-300 will report any Combus low power condition.
7. Check **Display date and time** option so that LCD can display the date and time.
8. When you have finished configuring the Combus module, click the **OK** button to go back to the **Status relay** tab.
9. Associate a **Local activation relay** for **Power failure**, **Combus failure** and **Combus low power** . If you want to assign a specific relay, you may click the three-dot button and select a specific relay or group of relays.
 - ⓘ **Note:** To configure local activation relay, you must configure relays (Devices > Relays), and then select specific relays for local activation.
10. Under **Priority call type**, assign the call type option that best suits failure event reporting. To access the **Priority call type** feature, the site connection type must be set to **Modem**.
 - ⓘ **Note:** For more information, see [Connection Configuration](#).

KT-400

Configuring the KT-400 expansion modules

About this task:

The KT-400 support expansion modules through its SPI expansion port. The SPI port is a 6-conductor cable bus to which several expansion modules are daisy-chained to add inputs, outputs, and relays.

- ① **Note:** The KT-400 SPI port maximum current draw is 500 mA, when the 12V AUX terminals are not used. External power supply (12 VDC, 2 Amps) for the expansion module is required when the total current draw exceeds 500mA on the SPI Port. For additional hardware details, refer to the *KT-400 Ethernet Four-Door Controller Installation Guide*, DN2003.

There are three expansion module types available:

- **KT-MOD-INP16:** The KT-MOD-INP16 is an input module that adds 240 zones to the KT-400 controller. Up to 15 input modules (16 input modules if used for elevator configuration) can be connected to a KT-400 for a total of 240 external inputs. Adding the 16 onboard inputs of the KT-400 gives a total of 256 inputs per KT-400. For further details, check the KT-MOD-INP16 KT-400 Expansion Module 16-Zone Input with SPI Cable, Install Sheet, DN1776.
- **KT-MOD-OUT16:** The KT-MOD-OUT16 is a 16-output module. It can be used for elevator access control with additional hardware. Up to 16 output modules can be connected to a KT-400 for a total of 256 outputs. For further details, check the KT-MOD-OUT16 KT-400 Expansion Module 16-Output with SPI Cable, Install Sheet, DN1781.
- **KT-MOD-REL8:** The KT-MOD-REL8 is an 8-relay outputs expansion module used as general relays or elevator control outputs. Up to 32 relay modules can be connected to a KT-400 for a total of 256 relays. For further details, check the KT-MOD-REL8 KT-400 Expansion Module 8-Relay Output with SPI Cable, Install Sheet, DN1786.

The following table summarizes the options associated with each module:

Table 24: Expansion module options

Expansion Module	Options
KT-MOD-INP16	Controller inputs (up to 256) and/or elevator inputs (up to 64 per elevator door)
KT-MOD-OUT16	Outputs relays (up to 256) and/or elevator outputs (up to 64 per elevator door)
KT-MOD-REL8 (Note)	Relays (up to 256) and/or elevator outputs (up to 64 per elevator door)

- ① **Note:** There are already 4 relays available on the KT-400. To prevent redundancy unless it is planned, select the **Relay number assignments** check box. The 9-16 relay configuration is set by default.
1. If an expansion module(s) is(are) connected to a KT-400, click the **SPI module configuration** button. The **Expansion modules setup** appears.

If you want to	then go to
configure an input module KT-MOD-INP16	Step 2
configure an output module KT-MOD-OUT16	Step 5
configure an output module KT-MOD-REL8	Step 6
modify an existing expansion module configuration	Step 7

2. To add a KT-MOD-INP16, select the **Input Module** tab and click on **Add**. If there is more than one input module listed, ensure that you select the correct one before changing the input assignments. Assign names to the modules in the language fields and choose the options.
3. Select the **DEOL: Double end-of-line resistor JP4 On** check box to define a KT-MOD-INP16 module in DEOL.
 - ⓘ **Note:** The entire expansion board is used to provide 8 inputs with DEOL. These 8 inputs are added of the next group of 8 inputs. For example, if inputs #33-40 are linked to a DEOL module, inputs #33-40 and #41-48 are not available for other modules.
Controller inputs 1-16 are reserved to the inputs on the KT-400.
4. Select the inputs numbers in one of two ways; using the list or the **Extended selection box**. Right-click the **Inputs** menu to view the **Extended selection box**. For more information, see [Using the extended selection box](#).
 - ⓘ **Note:** This is an exclusive condition. You cannot select the same item in the **Inputs** list and in the **Elevator inputs** list because it will be a duplicate, and the system does not accept any duplicate. For example, **Inputs # 17-24** cannot be selected twice. Another way to let you understand this concept, is that in the **Elevator inputs** menu the same item is not be available for the same door. The same concept applies for the **Elevator outputs** menu.
5. To add a KT-MOD-OUT16, select the **Output Module** tab and click on **Add**. When you click the **Add** button, a menu appears and lets you select which output module you want to add. Assign names to the modules in the language fields and choose the options.
6. To add a KT-MOD-REL8, select the **Output Module** tab and click on **Add**. When you click the **Add** button, a menu appears and lets you select which output module you want to add. Assign names to the modules in the language fields and choose the options.
 - ⚠ **WARNING:** There are already 4 relays available on the KT-400. Make sure to check the relay number assignments to prevent redundancy unless it has been planned on purpose.
7. From the **Summary** tab, you can modify all the modules. Make sure to highlight the module you want to modify in the left column before doing any modifications on the right side.
8. When you have finished configuring the expansion modules, click **OK** to return to the KT-400 configuration window.
 - ⓘ **Note:** For more information, see [Connection Configuration](#).

ioModule

About this task:

To define a KT-MOD-IO16 for a KT-400, a KT-1, or a KT-2 controller, click the **ioModule** tab, and complete the following steps:

1. Select a controller from the **Controller** list, and click the **ADD** button.
2. In the **ioModule** area, type the name of the ioModule in the language field.
3. In the **Serial Number** field, type the serial number.
4. Select one of the following terminal banks:

- Terminals 1 - 4
- Terminals 5 - 8
- Terminals 9 - 12
- Terminals 13 -16

For each terminal, select one of the following action options:

- **Not in use:** this is the default setting. Select to indicate the terminals are not in use.
- **Use as input:** select to use terminals of inputs/outputs as inputs. EntraPass uses the same setting for EOL as the controller settings. If you want to change EOL settings, use the **Input** menu. For more information, see [Configuring Specific Controller Parameters](#) in the **Inputs** field, select an input bank from the list.
 - ① **Note:** You cannot use an input bank on multiple devices. When you use it on one device, it is no longer available until you delete the configuration.
- **Use as relay:** select to use terminals of inputs/outputs as relays. In the **Relays** field, select a relay bank from the list.
 - ① **Note:** You can define a relay bank on multiple devices, they mirror each other.
- **Use as elevator:** select to use terminals of inputs/outputs as elevator doors. Two further options become available:
 - **Use as outputs**
 - **Use as floor confirmation (inputs)**

Use as outputs

- a. In the **Elevator** field, select an elevator from the list.
 - b. In the **Elevator outputs** field, select the elevator output bank from the list.
- ① **Note:** You can define an elevator output bank on multiple elevators, they mirror each other.

Use as floor confirmation (inputs)

- a. In the **Elevator** field, select an elevator from the list.
- b. In the **Elevator inputs** field, select an elevator input from the list.
 - ① **Note:** You cannot use an input bank on multiple devices. When you use it on one elevator, it is no longer available, until you delete the configuration.

Terminals 9 -12

In addition to the **Not in use**, **Use as input**, and **Use as elevator** options, **Use as SPI** is available for terminals 9 -12.

Use as SPI: select to use terminals 9 -12 as SPI relays. In addition to the 32 SPI relay modules defined directly in the **SPI** tab, you can add another 32 relay SPI modules using the **ioModule** tab.

To continue the configuration, complete the following steps:

- a. Click the **SPI** tab, and click the **Output module** on **ioModule** tab.
 - b. If you have defined more than one **ioModule**, select the one you want from the **ioModule** list.
 - c. In the **Relay 1 -8** tab, select one of the following options:
 - **Not used**
 - **Used as relays**
 - **Use as elevator equipment**
- ① **Note:** You can define relays on the SPI expansion module, and on the ioModule. For example, for the KT-1 controller, if you define relays 1 - 4 on an ioModule, and an SPI expansion module, it lights up on the controller, the ioModule, and the SPI expansion module.

5. To remove a module, click the **REMOVE** button.

Enable Exit Reader

About this task:

This feature is to bring up the number of readers to 8 (on 4 doors) for KT-400 and KT-401 controllers (only) when using ioProx XSF or IoProx UK 31 bits readers. This way, a second reader can be connected to the controller. That second reader will keep the same values as the first one for:

- Door lock mode
- Unlock time
- Open time
- Extended Unlock time
- Extended Open time
- Unlock Schedule
- Video View
- Graphic
- All "Door Contact" features
- Relay Activation for Door events except "Door forced open"

The second door will automatically be labelled with the first door name plus the word **EXIT** at the end.

1. From the **KT-400** tab, under **Enable exit reader**, select the doors for which the reader has to be enabled.
2. Click **Save**.

① **Note:**

- The feature is available only when IoProx XSF or IoProx UK 31-Bit readers are used under **General/Reader and keypad**. If another type of reader is selected, the option is not available.

- A number of option fields are not available for the 2nd reader since values are already programmed in the first one.
- If you deselect the exit reader under controller, the exit reader will be disabled. It is not possible to DELETE an exit reader.

Defining the KT-400 Controller Local Areas

About this task:

- ① **Note:** The **controller local area** option is only available with a KT-400 controller (see [Defining Controller Options](#) for the procedure to enable the Controller local areatab).

1. Click the **Controller local area** tab to define up to 4 local areas.
2. Assign a name for both languages for the 1st controller local area.
3. Select the **Forgive schedule** from the drop-down menu.
4. Enter the maximum number of cards allowed in the **Cards threshold** field.
5. Check the **Deny access on area full** box to prevent more users to enter the area after the cards threshold has been reached.
6. Click on the three-dot to select the relay or the relay group to activate when the cards threshold has been reached.
7. Repeat **steps 2 to 6** for each controller local area.

Defining the KT-400 Elevator Floor Associations

About this task:

- ① **Note:** The **Elevator** tab displays only when expansion modules have been defined as inputs or outputs for elevators under the **KT-400** tab.

For KT-400 controller, it is possible to choose up to four patterns to define door and floor numbers that will be associated with each pattern. By default, pattern 1 specifies all door numbers.

1. In the **Controller** window, click the **elevator** tab to define the floor associations.
2. In the **Elevator** tab, click **Pattern #2**, and then select the appropriate **Door** number check box(es).
3. From the **Floors** drop-down menu, select the appropriate item or floor number to associate with the door number and the pattern number.
4. Repeat **Steps 2** and **3** for each pattern.
5. Click **Save**.

- ① **Note:** To define floors, see [Floor Definition](#).

KT-1/KT-2

Enrollment Button

About this task:

The enrolment button is used to send an “enroll me” request to EntraPass with the controller status which includes:

- IP address
 - How it is powered (PoE or 12 VDC)
 - Full Status
1. The installers press the enrollment button.

2. The controller then sends information for a period of 10 minutes at 30 seconds intervals.
3. Once the 10 minutes delay is expired, the controller stops sending information.
 - ① **Note:** For the enrollment process to be allowed for a given operator, it must first be enabled in **System/Security Level/Devices/Connection/Enrollment**.

Result

When an enrollment request is received, a circled digit will be displayed at the bottom right side of the workstation main window. The digit indicates the number of unassigned controllers. When there is only one unassigned controller, double-click on the circle to open the **Enrollment Wizard**. Follow instructions on the screen. You can also do a right-click on it to display a contextual menu that contains the following options:

- **Define:** Display the Enrollment Wizard.
- **Full Status:** Displays the full status window. Provide a pop-up box with the IP address, how it is powered (IP or 12 VDC) and the full status information.
- **Delete:** Remove the selected controller from the list.
- **Assign to an account.**

The Unassigned Controllers List

When EntraPass receives data from the KT-1 enrollment process it adds the controller to the controllers unassigned list. the "Controller was added to the unassigned list" event is then generated with the following parameters:

- Gateway description
- MAC Address
- Device type

The unassigned controllers list displays:

- Date and time (when it was added to the list) of the gateway
- Controller model
- MAC Address
- Serial Number
- Broadcast received IP address

Video gateway or video vault enrollment

When the video gateway or video vault receives an outbound connection, it receives the following incoming information from the DVRs:

- Name
- Serial number
- IP address

The incoming information remains in wait mode, ready for assignment to a hattrix account or a defined Corporate Edition, or Global Edition system. In the workstation, the enrollment pending count displays on the lower right section of the status bar. Double click the **Enrollment pending** label to open the following report:

Table 25: Enrollment report

Column	Description
Request date	Date request received
Account	Identifies if the account is selected or assigned.
Icon	Video server
Model	exacq model
MAC adress	MAC address of the DVR unit.
Request received from	IP address of the DVR that sent the request.

When you select an enrollment, double-click the enrollment to bring up the shortcut menu. The following options are available:

Table 26: Enrollment shortcut menu

Column	Description
Define	Opens the video server window that EntraPass pre-populates with information received from the outbound connection, which is the active account. Rename the DVR and save it.
Delete	Prompts to confirm and remove the unit from the list.

When you define a DVR using enrollment, the **Video Server** window opens, with fields pre-filled with information received from the outbound connection. When you define a DVR unit, EntraPass removes it from the list.

If you input the incorrect log in credentials, an error message is displayed. If the import is successful, a confirmation window is displayed. When you click the **Save** button, the camera details are automatically called. You can then rename the DVR in the **Server Parameters** tab. To maintain the name of the imported cameras, select the **Override Camera name from DVR** check box, if you clear the check box, operators can change the name of imported camera.

Adding an ioSmart reader

Follow the steps in [How to setup the ioSmart](#) to add an ioSmart reader.

Controller event buffer overflow message

When a controller is disconnected from the server, the controller buffer starts collecting the controller's events. When the buffer is full, it transfers the oldest events in a secondary buffer (50 to 100 bytes) that always contain 50 events. When the communication is restored, the system then starts sending messages to the **Desktop Message List** to indicate that the buffer is full and that events are being deleted from the buffer.

- The controller will delete messages in **FIFO** order (First In, First Out). The oldest message will therefore be deleted first.
- When the controller is reconnected to the server, the controller events will be sent to the **Message list** all at once, in the following order: events in the controller's secondary event buffer; a single **Event Buffer Overflow** will display, followed by the list of events generated while the controller was disconnected from the server.

❶ **Note:** For more details about the **Comment** entry box, see [Comment Field](#).

Expansion modules setup

For information about configuring expansion modules, see the following topics:

- [Input module KT-MOD-INP16 configuration](#)
- [Output Module KT-MOD-OUT16 Configuration](#)
- [Output Module KT-MOD-REL8 Configuration](#)
- [Modify an Existing Expansion Module Configuration](#)

Input module KT-MOD-INP16 configuration

1. To add a **KT-MOD-INP16**, click the **Input Module** tab and then click **Add**. If there is more than one input modules listed, make sure that you select the correct one before changing the input assignments. Assign names to the modules in the language fields and choose the options.
2. Select the **DEOL: Double end-of-line resistor JP4 On** check box to define a KT-MOD-INP16 module in **DEOL**.
 - ⓘ **Note:** The entire expansion board is used to provide 8 inputs with DEOL. These 8 inputs are added of the next group of 8 inputs. For example, if inputs #33-40 are linked to a DEOL module, inputs #33-40 and #41-48 will not be available for other modules. Controller inputs 1-16 are reserved to the inputs on the KT-400.
3. Selection of the inputs numbers can be done in two ways: using the drop-down menu or the **Extended selection box**. Right-click on the inputs menu selection to view the Extended selection box. For more information, see [Using the extended selection box](#).
 - ⓘ **Note:** This is an exclusive condition. You cannot select the same item in the Inputs drop-down menu and in the **Elevator inputs** drop-down menu because it will be a duplicate, and the system does not accept any duplicate. For example, Inputs # 17-24 cannot be selected twice. Another way to let you understand this concept, is that in the Elevator inputs menu the same item will not be available for the same door. The same concept applies for the **Elevator outputs** menu.

Output Module KT-MOD-OUT16 Configuration

To add a KT-MOD-OUT16, select the **Output Module** tab and then click on **Add**. When you click on the **Add** button, a menu appears and lets you select which output module you want to add. Assign names to the modules in the language fields and choose the options.

Output Module KT-MOD-REL8 Configuration

To add a KT-MOD-REL8, select the **Output Module** tab and then click on **Add**. When you click on the **Add** button, a menu appears and lets you select which output module you want to add. Assign names to the modules in the language fields and choose the options.

⚠ WARNING: There are already 4 relays available on the KT-400. Make sure to check the relay number assignments to prevent redundancy unless it has been planned on purpose.

Modify an Existing Expansion Module Configuration

1. From the **Summary** tab, you can modify all the modules. Make sure to highlight the module you want to modify in the left column before doing any modifications on the right side.
2. Click the **Output from an ioModule** tab to define outputs created in the ioModule tab. For more information, see [ioModules](#).
3. When you have finished configuring the expansion modules, click the **OK** button to go back to the KT-400 configuration window.

- ① **Note:** For more information, see [Connection Configuration](#).

Doors configuration

Use this menu to define the door parameters on which readers and/or keypads are installed. A door can be an elevator door, a In/Out door, an entry door for anti-passback, an exit door for anti-passback or an access door. It depends on how the settings are programmed. The controlled door may be secured at all times or only during defined schedules. The common locking devices used are electric door strikes and electromagnetic locks. A door may be equipped with one or two readers; one reader on each side. For doors equipped with two readers, the outer reader has to be defined as an entry reader and the inner reader as an exit reader.

- ① **Note:** For a single gateway, limits are 2048 connections, 10,000 doors, 100,000 inputs and 100,000 outputs.

Defining general parameters for a door

About this task:

- ① **Note:** When you use the KT-300 system, you work with h:mm:ss and the range value is from 00:00:01 to 9:06:07. Each time you use a KT-400 system, you work with hh:mm:ss and the range value is from 00:00:01 to 04:15 (255 sec.) for a KT-100, KT-200 and KT-300; or to 18:12:15 (65535 seconds) for a KT-400. Take this difference into consideration.

1. In the **Devices** window, click the **Door** button.

- ① **Note:** The **Local areas** options are only available for a KT-400 controller with the **Controller local area** property enabled. See [Configuring the KT-400 Controller](#) for more information.

The **Miscellaneous**, **In/Out**, and **Door Anti-Passback** options are not available for a KTES door.

2. Select a **Site filter** from the first list.
3. Select the **Gateway**.
4. From the **Connection** list, select the connection where the controller is located.
5. From the **Controller** list, select the controller you want to define. After it is selected, the language section is enabled. You may rename the selected controller.
6. From the **Door** list, select the door you want to modify or define. New items are identified with a red button. The button turns green once the item has been defined and saved.
7. From the **General** tab, specify the **Door lock mode**: Depending on the lock device used, the locked state will energized or de-energized to lock. Default value is **Fail-secure**.
 - **Fail-secure:** The strike is locked when power is removed (door locks, door strikes).
 - **Fail-safe:** The lock output is energized to lock the door (electromagnetic locks).
8. If the door is for a **KTES**, go to Step 16.
9. Select the **Elevator cab** option if the door is to be used for elevator control. When this option is checked, the **Elevator** tab is displayed to define the unlocking schedules. The default value is cleared.
10. Specify the **In/Out** type from the list:
 - **None:** The reader is considered as an access reader. An access reader generates only **Access granted/Access denied** events. This option is selected by default.
 - **Entry:** An entry door is an entry point. In order for the system to record an entry, the door must be opened after a valid access (if a door contact is installed).

- **Exit:** An exit door is an exit point. For the system to record an exit, the door must be opened after a valid access (if a door contact is installed).
11. If the **Controller Local Areas** are enabled, go to Step 14.
 12. Specify the **Door Anti-Passback type (default is Access)** :
 - **Access:** The reader is considered as an access reader. **Anti-Passback** options are not used with access doors. An access reader generates only **Access granted/Access denied** events.
 - **Entry :** An entry door is an entry point. In order for the system to record an entry, the door must be opened after a valid access (if a door contact is installed).
 - **Exit :** An exit door is an exit point. In order for the system to record an exit, the door must be opened after a valid access (if a door contact is installed).
 13. Go to Step 16.
 - ⓘ **Note: None , Soft anti-passback and Hard anti-passback** are used only with the KT-400 and **Controller Local Areas**.
 14. Specify the **Door Anti-Passback type (default is Access)**:
 - None: The anti-passback option is disabled.
 - **Soft anti-passback:** If the destination area is under **Deny Access on Local Area Full**, access is denied. When a user is passing his access card to a local area, for example, the system will allow him to access another local area even if the user was not in the **Local area before** . The system will generate the event: “ **Access granted - Passback bad location** ”.
 - **Hard anti-passback:** If the destination area is under **Deny Access on Local Area Full**, access is denied. A card used at an entry reader will not be able to access the same entry reader again until it has used the corresponding exit reader. The system will generate the event: “ **Access denied - Passback bad location** ”.
 15. Specify the **Local area before** and **Local area after** . These items are enabled and can be specified only for **Controller Local Area** .
 16. Specify the **Door access delay**:
 - **Unlock time (hh:mm:ss):** The time during which the door is unlocked on a valid card read or a valid request to exit event (when the REX is defined to unlock the door). The time range value can be from 00:00:01 to 04:15 (255 sec.) for a KT-100, KT-200, and KT-300; or to 18:12:15 (65535 seconds) for a KT-400, KT-1, and KT-2. If this is an elevator door and a push button (input) is used to enable floor selection, this is the time during which a floor selection will be allowed. Usually, a longer period should be defined to allow the user to select floors. Default value is 10s. For more information, see [Input Configuration](#).

- **Open time (hh:mm:ss):** The time during which a door can remain opened following a permitted access or a valid request to exit request. This applies only to a door defined with a door contact input. The time range value can be from 00:00:01 to 04:15 (255 sec.) for a KT-100, KT-200, and KT-300; or to 18:12:15 (65535 seconds) for a KT-400, KT-1, and KT-2. After this delay has expired, the system will generate the event “door open too long” and the door piezo will sound to warn the cardholder. You can use the Pre-alarm on door open too long (**Door** window, **Contact** tab) to sound the door piezo when half of this delay has expired. It will continue to sound until the door is closed. Default value is 30s.
17. The **Extended door access delay(hh:mm:ss)** feature allows to keep the door open for an extended period in order to allow people with disabilities to pass through without triggering an alarm. If you want to use this option, specify the delays in the **Unlock time** (default is 40s) and **Open time** (default is 2 min) fields. The time range value, for both delays, can be from 00:00:01 to 04:15 (255 sec.) for a KT-100, KT-200 and KT-300; or to 18:12:15 (65535 seconds) for a KT-400, KT-1, and KT-2.
 18. **Unlock Schedule** will allow the system to unlock the door for a predetermine period of time that you will select.
 19. **First Person In** option (Not for KT-200): keeps door locked until the first granted card access while an unlock schedule is valid. Default is unselected.
 - For the KT-400, KT-1, and KT-2 only, it’s now possible to specify an **Unlock Grace Period (mm)**. This feature allows the door to be unlocked under its unlock schedule if the first card access is granted inside the selected time period before the unlock schedule starts. Time range value can be from 0 (disabled) to 59 minutes. Default value is 0 minute. For example, if the door has an unlock schedule that goes from 8:00am to 5:00pm and the **First Person In** is enabled with an **Unlock Grace Period** of 15 minutes, a valid access between 7:45am and 7:59am will allow the door to unlock automatically at 8:00am.
 20. Select **Enable Multi-Swipe** to turn the visibility of the Multi-Swipe tab ON or OFF.
 21. Select a **Graphic** and **Video view** to which the gateway is assigned, if applicable. The video view will only be activated if the video feature is enabled in EntraPass.

Defining Door Keypad Options

For KT-100 and KT-300 Controllers

Doors can be defined with relay activation when the * or # keys are pressed on the keypad. This option is only available for KT-100 (with firmware version 1.04 and higher) and KT-300 (with firmware version 1.16 and higher) controllers.

For KT-400 Controllers

About this task:

Doors can be defined with relay or relay group activation by pressing any specified key on the keypad.

- ① **Note:** The Keypad tab is enabled only if you have selected a **Keypad type** while defining the controller associated with the door being defined. There are 4 keys. The first 2 keys: # and * are fixed keys and they are similar and play the same role as in the KT-300 system. The 2 other keys: Key 3 and key 4 are variable according to the client’s needs.
1. From the **Door** window, select the **Keypad** tab.

2. Specify how access to the door is controlled (default is **Reader only**):
 - **Reader only:** select this option if you want to grant access using a reader or a keypad only. A keypad access is less secure than a reader access as the user may share their PIN and cannot permit further use, compared to lending a card and getting it back.
 - **Reader or keypad:** select this option if access is granted using a reader or a keypad only. A keypad only installation is generally considered less secure than a reader only installation, because a user may “lend” its PIN to another person but cannot prevent further use (in comparison to getting a card back).
 - ⓘ **Note:** This option can be enabled on a reader with an integrated keypad if you want, for instance, to use the keypad only.
 - **Reader and keypad:** select this option if both a reader and a keypad are used to permit access to this door. The keypad will only be used when the “keypad schedule” is valid. Adding a keypad to a reader significantly increases the level of security. PIN code requirement can be limited by a schedule for use only outside business hours, for example, rather than during high traffic hours.
3. From the **Card and PIN schedule** menu, select a schedule during which cardholders will have to enter their PIN after a valid card read. The time allowed between a valid card read and entering the PIN at the keypad is set in the Gateway definition menu (**Time-out on keypad** option).
4. Check the **Enable duress function on keypad** option, if desired. Default value is deselected.
5. Select the **Keypad relay activation** key(s):
 - **For KT-100 and KT-300 Controllers:** for doors defined with keypad or reader and keypad, you can program the star key (*) or pound key (#) to activate a relay. When this feature is enabled, users can activate a relay simply by pressing the appropriate key.
 - **For KT-400 Controllers:** for doors defined with keypad or reader and keypad, you can program *, # or any key to activate a relay or a relay group. When this feature is enabled, users can activate a relay or a relay group simply by pressing the appropriate key.

Defining Door Contact Options

About this task:

In most applications, the low cost door contact is the only supervisory element that protects the investment made to control access to the door. The door lock and card reader (or keypad) provide security and prevent unauthorized entry only when the door is closed and locked. A simple door contact allows the ability to monitor several door conditions such as: door forced open, door open too long, interlock options (mantrap), etc.

1. In the **Door** window, select the **Contact** tab.
2. Select the door contact from the **Door contact** list.
3. In **Shunt Door Schedule**, select a schedule.
 - ⓘ **Note:** A door contact cannot be assigned to more than 2 readers.

This feature allows associating a schedule to a door contact in order to bypass the events / alarms related to the door contact supervision. If no schedule is selected, the

system will continue to work as usual. If a valid schedule is selected, the system will hide following conditions in the events monitoring desktop:

- Door Forced open
- Door forced open restored
- Door open too long (unless otherwise indicated)
- Pre-Alarm door open too long
- Door left open

4. Check **Enable door open too long notification** to continue to receive the **Door open too long** event and the **Pre-Alarm door open too long** in the desktop. If there is no schedule selected, this checkbox is not available for selection (greyed out).

① **Note:** For KT-200 Controllers, Input 1 (door contact) and 2 (request to exit device) are ideally reserved for Door 1 of the controller whereas Input 9 (door contact) and 10 (request to exit device) are ideally reserved for Door 2 of the same controller. The input that is used for the door contact or REX contact SHOULD NOT have a “monitoring” schedule defined in the “Input Definition” menu.

5. Check the door reading options:

- **Door open reading** : If selected, this option allows the system to read cards while the door is open. However the system will not unlock the door if it was locked. If selected, the event “Access granted” is generated. Otherwise, the event “Access granted - Door open” is generated. Default is checked.
- **Door unlocked reading** : If selected, this option allows the system to read cards while the door is unlocked manually by the operator or by a valid unlock schedule. If selected, the event “Access granted - Door unlocked” will be generated on access. To ignore all access events while the door is unlocked, leave this option deselected. Default is checked.
- **Unlock on access door opened:** If selected, this option allows the system to unlock access on door opened at any time. Default is unchecked.
- **Pre-alarm door opened too long** : If selected, this option allows the system to generate the event “pre-alarm door open too long” and sound the door piezo when half of the delay defined in the **Open time** field is expired. It will continue to sound until the door is closed. Default is unchecked.

① **Note:** If the door is a KT-400 and if the value entered is higher or equal than the open time and if the checkbox is selected, a pop up will appear explaining that the delay value is incorrect. Value range can be between 00:00:01 and 18:12:15 and must be lower than the door open time.

6. Select the appropriate **Relock on access** option. You may choose to relock an access **On door opening** or **On door closing**. **Default value is On door opening**.

Defining REX (Request to Exit) Options

About this task:

A signal from the REX indicates that someone wants to exit through a controlled door. Devices such as motion detectors, push buttons can provide the REX signal. EntraPass enables users to configure doors with unlock time reset each time the primary or secondary REX is triggered. This option is only available for KT-100 (with firmware version 1.04) and KT-300 (with firmware version 1.16) controllers.

1. From the door window, select the **REX** tab, then check the appropriate **Relock on Rex** options (default is **On door closing**):
 - **On door opening**: if you want the door device to re-lock following a valid access.
 - **On door closing**: if you want the door device to re-lock when it closes.

2. For the **Primary** and **Secondary REX options (the Secondary REX options does not apply to KTES or KT-200)**, make the appropriate choices:
 - Assign the **REX contact**: The input to which a “request to exit” detector can be connected. This input must be local; it has to be one of the inputs on the controller operating the door.
 - Select a **Rex schedule**: When this schedule becomes valid, the controller will detect request to exit signals originating for the exit contact. This option applies only to a door defined with a REX contact.
 - Select a **Rex Bypass Message schedule**: When this schedule becomes valid, the event will NOT be stored in archives. When invalid, event is sent to the gateway for archives. On EntraPass updates, all existing REX will have the ‘Bypass REX message schedule’ set to **NONE** or to **no schedule**. On a new door definition, **Bypass REX message schedule** is set to **always valid** by default.
 - ① **Note**: The primary and secondary **Rex Bypass message schedule** options will be available upon activation in **System parameters**. See [System Parameters/Schedule](#) for additional information.
 - **Unlock on REX**: The door will be unlocked if a valid request to exit is permitted by the controller. This option may be useful on exit doors such as interior doors, shipping doors or other push doors through which people carrying packages may pass. The system will permit the exit and generates the “request to exit granted” event rather than “door forced open” event.
 - **Resettable REX function**: The unlock time is restarted on a valid request to exit. Open and unlock times are defined in the door definition (**Devices > Door > General**). Select this option for high traffic area doors such as manufacturing doors where many users may need to exit at short intervals (for example after a work shift) to prevent unwanted door open too long or door forced open events.
 - ① **Note**: It is recommended to choose either **Unlock on REX** or **Resettable Rex function**, not the two options at the same time. If you choose these two options, the door may remain unlocked for long periods of time. Moreover, these features should not be used if a door contact has not been defined.

Defining Interlock Options (Mantrap)

About this task:

You may define interlock options (mantrap) between two doors to synchronize the time when these two doors are open/closed. The interlock options are also called the mantrap. This ensures that once the cardholder has accessed the first door, that door is closed and locked before the cardholder is granted access to the second door. The two doors have to be controlled by the same controller.

- ① **Note**: The Interlock options do not apply to a KTES door.

1. In the **Door** window, click the **Miscellaneous** tab.

2. From the **Door** list, select the first door for which you want to define interlock options (mantrap).
3. From the **Interlock contact** list, select the first input for the interlock options (mantrap). The selected input has to be the door contact of the second door .
4. from the **Door** list, select the second door for which the interlock options (mantrap) are being defined and then select the interlock contact for this second door. It has to be the door contact of the first door.
5. Select the **Interlock schedule**: The two doors must have the same interlock schedule. This is the schedule according to which the interlock is checked by the controller before access is granted to users.
 - ① **Note:** The interlock options (mantrap) are not available on doors controlled by a KT-100.
6. The **Suspend report delay on door relock (hh:mm:ss)** indicates the time during which the selected inputs will not be monitored when the door unlocks. It is not possible to shunt a door contact since the system will automatically shunt it. Values range from 00:00:01 to 18:12:15. Default is 15 secs.
7. In the **Shunt inputs** scrolling pane, select inputs that will not be monitored when the door unlocks. Selected inputs or input group will remain unmonitored for the delay defined in the **Shunt delay field**.
 - ① **Note:** The Shunt input items vary depending on the KT-300 or KT-400 system used.

Defining elevator doors

About this task:

During a door definition, it is possible to specify whether it is a “regular door” or an elevator cab (**Door** window, **General** tab). When a door is defined as an Elevator cab, an **Elevator** tab is displayed in the **Door definition** window. This tab is used to define the automatic unlock schedules for specific floor groups.

1. From the **Door** definition window, select the **Elevator** tab.
2. From the **Unlock schedule #1** list, select the applicable unlock schedule. By default, you may select the **Always valid** schedule. You may also create a new schedule (**Definition** menu, **Schedules**).
3. From the **Floor group #1** list, select the appropriate floor group associated with the **Unlock schedule #1**. Only floors that have a valid schedule in the **Floor group definition** will be unlocked or available for selection when the **Unlock schedule #1** becomes valid.
4. From the **Unlock schedule #2** list, select the schedule applicable to the second group of floors.
5. **From the Floor group #2** list, select the appropriate floor group. Only floors that have a valid schedule in the **Floor group** definition will be “unlocked” or available for selection when the **Unlock schedule #2** becomes valid.
 - ① **Note:**
 - The **Unlock schedule** defined during a door definition (**Door** menu, **General** tab) will OVERRIDE these schedules even if they are valid.
 - Only one **Unlock schedule** can be valid at a time. For example if the first schedule (Unlock schedule #1) is valid from 6h00 to 9h00 and the second schedule (Unlock Schedule #2) is valid from 7h00 to 9h00, then Unlock schedule #2 will NEVER be valid since Unlock schedule #1 is already valid.

- Do not overlap schedules. For example, if the first schedule is valid from 8h00 am to 17h00 and the second schedule is valid from 16h00 to 21h00, the gap (between 16h00 and 17h00) can result in erratic operation of the elevator control system.
- Only floors that have a valid schedule in the **Floor Group definition** will be “unlocked” or available for selection when the unlock schedules become valid.

For more information about how to program elevator control using REB-8 relays, see [Controllers Configuration](#).

Configuring Door Events

1. In the **Door** window, select the **Door events** tab. This is to define the relays (or relay groups) that are to be activated on specified events. However, when you are using a controller other than KT-400, this tab is used to define relays only.
2. Select the relay that will be activated locally for each event .
3. **Pager call type** (applies to **KTES** only): You can select **Do not call** (the relay activation for that event will not be sent to the pager), **Call immediately** (the relay activation for that event will be sent immediately to the pager) or **Call when scheduled** (the relay activation for that event will be sent to the pager according to the pager call schedule). Default value is **Do not call**.
 - ① **Note:** To specify pager call types for each events, the **Pager reporting** function must be enabled. See [KTES Configuration](#).
4. Once all door event features have been set, select the **Access events** tab to define relays (or relay groups if you are using KT-400) that are to be activated on miscellaneous events.
 - ① **Note:** EntraPass offers you the ability to define a relay that will be activated if the **Extended delay** feature is used. The card used must be defined with this feature. Only KT-100, KT-300, KT-400 and KTES can be configured with the Extended door access delay feature.
5. Select the relay that will be activated locally or the relay group (if you are using KT-400) for each event .
6. **Pager call type** (applies to **KTES** only): You can select **Do not call** (the relay activation for that event will not be sent to the pager), **Call immediately** (the relay activation for that event will be sent immediately to the pager) or **Call when scheduled** (the relay activation for that event will be sent to the pager according to the pager call schedule). Default value is **Do not call** .
 - ① **Note:** To specify pager call types for each events, the **Pager reporting** function must be enabled. See [KTES Configuration](#).

Defining Door Options for Controllers and the KTES

The following tab only appears when KT-100, KT-300, KT-400, KT-1, and KT-2 controllers and the KTES have been configured in a multi-site Gateway.

Click the **Options and alarm system** tab (or **Options** for a KTES).

- **Supervised door lock device:** use this feature in specific applications such as bank vaults to compensate for the slow motor locks. Adding this delay avoids false door forced open alarms if a user opens the door before it has been completely secured at the end of unlocking delay. Select the **Supervised door lock device** check box to enable this option.

- **Motor lock delay (does not apply to KTES)** : Enter the time period (hh:mm:ss) after which the door will be considered locked. Values range from 0s to 18 h:12 min:15 secs. The default value is 0:00 for inactive. For example, if this delay is set to 5 seconds and unlocking delay is 20 seconds after access granted; the lock output will deactivate after 15 seconds and no door forced open alarm will be generated if the door is opened during the last 5 seconds.
- If a second card read is required, select a schedule from the **Second card schedule required (two-man rule)** list (**does not apply to KTES**) .
- **Relay to follow lock output** (Only available for KT-400 and KTES): The relay follows the lock output status.
- **Multi-factor authentication:** available for go Pass cardholders presenting at a door. To define multi-factor authentication for go Pass, select one of the following options:
 - **None:** multi-factor authentication is not enabled, present a card to the reader.
 - **go Pass:** present a card to the reader, or go Pass to the door.
 - **go Pass + Disable card:** present go Pass to the door only, disables an ioSmart reader in RS-485.

The option you select saves as a global setting and is the default setting when you create a new account and enable go Pass. You can change the setting as required.

① **Note:** The first type of authentication is an activation e-mail. The second type of authentication depends on the smartphone, use a PIN or biometric identification.
- **Enable duress function on keypad** (KTES only): Set this parameter to enable the duress function on the door controller keypad. Employees or tenants use the duress function to signal for help. The operator must enable the duress function. The duress function is unchecked by default. For more information, see [KTES Configuration](#). For more information on the duress function for doors only, see [Defining Door Keypad Options](#).

Configuring external alarm system interfaces

About this task:

KT-100, KT-300, KT-400, KT-1, and KT-2 controllers offer the ability to interface with any external alarm system. When you add these Kantech controllers to an existing alarm system, cardholders can arm/disarm an existing system, simply by presenting a valid card on an entry/exit door. Adding a keypad will increase the system security since cardholders will be required to enter a PIN in addition to presenting a card (does not apply to a KTES door). There are two ways of arming/disarming or postponing an external alarm system:

- On a valid card read and with the trigger of an arming input.
- On a valid arming code entered and with the trigger of an arming input.

There may be a combination of the options. For example, an alarm system will be disarmed with a correct access code during a valid predefined schedule and after a valid card read.

1. Click the **External alarm system options** button located under the **Options and Alarm System** tab in the **Door** dialog. The **Alarm system options** dialog will display on screen.
2. Under the **Arming request** tab, select the **Arming request input** . This is the input that is activated on an external alarm arming request.
3. Once you have selected an arming request input, you have to **Enable arming request schedule** during which the request will be valid.

4. If applicable, select an **Arming access level** .
 - The **Group** option allows you to select all access levels.
 - The **Single** option allows you to select a specific level.
 - If the level you want does not appear in the list, you may right-click in the **Arming access level** field to create a specific level to arm the external alarm system.
5. To increase the security of your alarm system:
 - **Wait for access granted to arm** will force the user to present a valid card before pressing the selected **Keypad button** option.
 - **Relock door on request to arm** will be used in conjunction with the **Wait for access granted to arm** to override the schedule.
 - **Relock door on arming after exit delay** will relock the door and arm the system after the pre-configure exit delay is over.
 - **Prevent arming request on input status** will prevent arming the system if an input is in alarm.
6. Specify the **Exit delay and Entry delay (hh:mm:ss)** . The **Entry delay** is the time during which the alarm system is bypassed after an access granted event. The **Exit delay** is the period before which the system is armed. The maximum values are 18:12:15 for both the exit and entry delays. When the KT-300 system is used, the maximum values are 9:06:07. Usually the entry delay is shorter than the exit delay.
7. Select the input that will indicate the **External alarm system panel status** . When the selected input status is “normal”, this indicates that the external alarm panel is armed.
8. Select the **Input** tab to define input devices that will be supervised or shunted (no supervision) when the alarm system is armed. The input description column contains all the inputs that are defined in the system.
 - Using the checkboxes, select the appropriate input where you want an external alarm system to supervise them. Also select the appropriate item for which you want to suspend supervision (on entry, on exit, or when the alarm system is disarmed).
9. Select the **Disarming request** tab to select the **Input to postpone arming** .
10. Select the applicable schedule from the **Enable postpone arming schedule** .
11. You may check the **Wait for access granted to postpone** box. If this option is checked, the alarm system will be postponed only after a valid card read and the cardholder will then press the selected **Keypad button** to postpone the external alarm system.
12. Select the **Postpone or disarm access level** from the list.
13. Select the **Relay** tab to define a relay (**Partition and Relays** for the KT-400 to define a group of relays) and input status for the external alarm relays.
 - ⓘ **Note:** When you select an **Alarm relay**, you may specify its **Activation type**. It may be activated permanently or temporarily.

Managing door access levels

Select the **Access Level** tab to manage the access level schedule for this door. This tab displays all the access levels where the door can be assigned.

- To create a new schedule, right-click the **Schedule** section and select **New**.
- To edit existing schedules, right-click the **Schedule** section and select **Edit**.

- To apply existing schedules to an access level, select from the list beside the schedule.

For more information about access levels, see [Access Levels Definition](#).

Reader Templates

About this task:

Use a reader template to define how a reader is configured. Reader templates can only be used for ioSmart card readers in RS-485 mode. Creating a template allows the same configuration to be shared across a number of card readers. To create a reader template complete the following steps:

1. Click the **Devices** tab.
2. Click **Reader template** from the menu. When the Reader template window appears, click the **New** icon to enable editing.
3. Select the Status bar **LED color**, **Buzzer**, and **Backlight** setting for each **State** of the reader.
4. Select the **Send UID** option for the reader. Use this option to define which type of card is accepted by the reader.
 - **Never**. Only send card ID from ioSmart Cards
 - **When not ioSmart card**. Send card ID from ioSmart cards and UID from non ioSmart cards.
 - **Always (No encryption)**. Always send UID from a card.
5. Select the **HID 125 kHz** and **ISO 14438B** options to define the card technology.
6. If the controller connects to ioSmart readers and you want to enable the BLE technology, select the **BLE** check box. EntraPass selects the **BLE** check box by default as all ioSmart readers are **BLE** enabled.
7. Select the **Keypad backlight intensity when in idle mode**.
8. Set the delays for the **LED flash duration (ms)**, **Buzzer signal duration(ms)**, and **Keypad backlight duration(s)**.
9. Select **Visible in all accounts** to make the template accessible for all accounts.

Result

The **Visible in all accounts** checkbox is available in system account. When it is selected, the template is viewable across all accounts, however operators cannot edit or delete the template. When you clear the checkbox, the default reader template is reassigned to the controllers that previously used the assigned template. A confirmation message appears and the option to delete becomes available.

Input configuration

Door controllers can monitor the state of input points such as: door contacts, interlocks, alarm points, motion detectors, temperature sensors, any REX and other devices with dry contacts. KT-100 monitors the state of 4 input points, KT-200 monitors the state of 16 input points, and KT-300 monitors the state of 8 on-board input points, with a maximum capacity of 16.

- **KT-200 controllers:** Inputs are normally closed or normally open dry contacts connected in series with one resistor. If the dry contact is connected in series with the green resistor, the input number will be odd. If the dry contact is connected in series with the red resistor, the input number will be even.

- **Inputs 1** (door contact) **and 2** (request to exit device) are ideally reserved for Door 1 of the controller whereas Input 9 (door contact) and 10 (request to exit device) are ideally reserved for Door 2 of the same controller. The input that is used for the door contact or REX contact SHOULD NOT have a “monitoring” schedule defined in the “Input Definition” menu.
- **KT-100 Controllers:** Input 1 is reserved for door contact while input 2 is reserved for a request to exit device.
- **KT-300 Controllers:** Input 1 should be reserved for contact on door 1 while input 2 should be used for request to exit device for door 1 of the controller. Input 3 should be reserved for contact on door 2 while input 4 should be used for request to exit device for door 2 of the controller.
- **KT-400 Controllers:** Reserve input 1 for the contact on door 1. Reserve input 2 for a request to exit device for door 1. Reserve input 5 for the contact on door 2. Reserve input 6 for a request to exit device for door 2. Reserve input 9 for the contact on door 3. Reserve input 10 for a request to exit device for door 3 of the controller. Reserve input 13 for the contact on door 4. Reserve input 6 for a request to exit device for door 4 of the controller.
 - ⓘ **Note:** For a single gateway, limits are 2048 connections, 10,000 doors, 100,000 inputs and 100,000 outputs.
- **KT-1 controllers:** Reserve input 1 for the contact on door 1. Reserve input 2 for a request to exit device for door 1.
- **KT-2 controllers:** Reserve input 1 for the contact on door 1. Reserve input 2 for a request to exit device for door 1. Reserve input 5 for the contact on door 2. Reserve input 6 for a request to exit device for door 2.

Defining Input

About this task:

You may define inputs from the **Input** button of the **Devices** toolbar. You can also define inputs using the **Express Setup** when defining a controller (see [Express Setup Program](#)).

1. From the **Devices** toolbar, select the **Input** button.
2. Select a **Site filter** from the first drop-down list.
3. select the **Gateway**.
4. From the **Connection** drop-down list, select the connection where the controller is located.
5. From the **Input** drop-down list, select the input you want to define. Once selected, the language section is enabled. You may rename the selected input.
6. From the **General** tab, assign a **Monitoring schedule** to the selected input: this is the schedule during which the system will supervise the condition of the input. When the schedule is valid, a change in input condition generates either an “Input in alarm” or “Input restore” event.
 - ⓘ **Note:** The input that is used for the door contact, REX contact or interlock contact SHOULD NOT have a monitoring schedule.
7. Specify the **Normal condition** for the input: it may be **Closed** or **Opened** .
 - ⓘ **Note:** When using single or double EOL resistors, set input **Normal Condition** to **Closed** .
8. Specify the **Notify abnormal condition** for the input: it may be **Alarm** or **Activate** .
 - ⓘ **Note:** When configuring event parameters with **Input in alarm** or **Input activated** as the selected event, only the inputs corresponding to these criteria are displayed. See [Event Parameters Definition](#) for more information.

9. By default, EntraPass will not select the **Suspend status update when not monitored** . This is to keep data traffic at a minimum. However, this option can be enabled if necessary.
10. Specify the **Input response time**. This delay corresponds to a period within which an input must remain in the same state before a transition is recognized. This delay is expressed in minutes (mm:ss:cc). **Values range from 10 secs to 10 min:55 secs:35 cc** for both the alarm response and alarm restore times.
 - **Alarm response time (mm:ss:cc)**: The delay before the system generates the input and alarm event. Default is 50 cc.
 - **Restore response time (mm:ss:cc)** : The delay before the system generates the input restore events Default is 50 cc.
 - ① **Note:** Specifying the input response time allows bouncing time when the contact changes state, and helps to generate only one event for each transition if this time is longer than the bouncing time. For example, a 01:00:00 delay requires that a condition remains stable for at least one minute before it is reported.
11. Specify the **Telephone Entry System** options (applies to KTES only).
 - ① **Note:** To access the **modem call type** feature, the site connection type must be set to **Modem**. For more information, see [Connection Configuration](#). The modem call type feature is supported by multi-site Gateways only.
 - **Pager call type** : You can select **Do not call** (the relay activation for that event will not be sent to the pager), **Call immediately** (the relay activation for that event will be sent immediately to the pager) or **Call when scheduled** (the relay activation for that event will be sent to the pager according to the pager call schedule). Default value is **Do not call** .
 - Under **modem call type** , assign the call type option that best suits event reporting. Default value is **Do not call**.
 - **Input pager ID** : Enter the pager code corresponding to the selected input. Possible values are 201, 202, 203 and 204.
 - ① **Note:** To specify pager call types for each events, the **Pager reporting** function must be enabled. See [KTES Configuration](#).
12. **For KT-400 and KTES only**, check **Override default EOL (56K)**, and then, in the drop-down menu, select the appropriate item. Default is unchecked.
13. Select a **Graphic** and **Video view** associated with the input, if applicable.

Defining Relays and Inputs

1. Select the **Relay and input** tab to define which relay(s) or input(s) will be activated or shunted when this input is enabled.
2. From the **Activate relay** list, select a relay or a relay group that will be triggered when this input is enabled.
3. **Activate relay temporarily** will activate the relay according to the **Temporary activation parameters** defined in the **Relay** dialog. Default is unchecked.
4. In the **Temporary Shunt Timer (h:mm:ss)** field, specify the period during which an input is not monitored. Setting the timer to 0:00:00 will instruct the relay to follow the input state. The maximum value for the **Shunt delay (hh:mm:ss)** is 18:12:15 when you are using the KT-400 or the KTES. Default is 0s.

2. From the **Local activation relay** list, select a relay or a relay group that will be triggered when this input is in alarm (activated).
 - ① **Note:** The relay group is only available when you are using KT-400.
3. Under **modem call type** , assign the call type option that best suits event reporting. Default value is **Do not call** .
 - ① **Note:** To access the **modem call type** feature, the site connection type must be set to **Modem**. For more information, see [Connection Configuration](#). The modem call type feature is supported by multi-site Gateways only.

Integrated component configuration

Use the **Integrated Component** window for any type of panel component, including partition and zone, under any type of panel, including intrusion and temperature control.

1. On the EntraPass workstation, click **Devices** and click **Integrated Component**.
2. From the **Component** list, select the component.
 - ① **Note:** You can use the list in the toolbar to sort the displayed components by type.
3. From the **Component type** list, select the component type.
4. Click **Configuration Form** to display the **DSC Power Series** window.
5. For a **User** component type, enter the **User access code**. This code is a PIN number used for arming or disarming a partition.
6. For a **Simplex** panel, select proper values to define the fire panel device point. After the device is granted an address (manually or automatically from IDNet import), the user cannot change it unless the point is deleted and another one is created.
7. For a **Virtual Zone**, from the **Component type** list, select a component type. You can select door, input, or event.
 - a. For an **Event** component type, select an event. For a list of events based on the selected component type, see Table 27.
 - b. For a **Door** or **Input** component type, indicate the component source (controller).
 - c. Select the appropriate **Component action** to be reported for the virtual zone and click **OK**.

The purpose of this feature is to create virtual zones in an alarm panel that receive commands from groups of selected inputs, doors, and other events of a gateway. These commands are then transmitted from the panel to a central station.

- ① **Note:** The DSC PowerSeries Neo 1.1 integrated panel can support 16 or 32 virtual zones: 16 virtual zones for HS2016 and 32 virtual zones for HS2032/3032, HS2064, HS2128/3128, and HS3248.
- ① **Note:** This feature is available only when using KT-400, KT-1, and KT-2 controllers. You require the following firmware: KT-400 v1.16.xx, KT-401 v1.22.xx, KT-1 v1.02.xx, or KT-2 all firmware versions.

Table 27: Events sent to the virtual zone

Component	EntraPass event	Report alarm	Report trouble	Report tamper
Input	Input in alarm / Input restored or in normal condition	X		
	Input in trouble/ Input in trouble restored		X	
	Input tamper in alarm / Input tamper restored			X
Door	Door forced open / Door forced open restored	X		
	Door open too long / Door open too long restore		X	
	Door lock device failure / door lock device failure restored		X	
Duress	Duress feature	X		
Controllers	Controller AC power failed / Controller AC power restored		X	
	Tamper switch in alarm / Tamper switch restored			X
	Controller Auxiliary power failure / Controller Auxiliary power restored		X	
	Controller reader power failure / Controller reader power restored		X	
	Controller battery power failure / Controller battery power restored		X	
	Controller module communication failure /Controller module communication restore		X	
	Controller DC power failed / Controller DC power restored		X	
	Controller lock power failed / Controller lock power restored		X	
	Controller power trouble (KT-1)		X	
Access Denied	Access denied - Bad card status		X	
	Access denied - Card lost or stolen			X
	Access denied - Card expired	X		

8. If the **Video feature** is enabled, the **Video view** field appears (for zones and partitions only). If this is the case, select the video view in which you want the defined component to appear. For information about defining video views, see [Video Views Definition](#).
9. From the **Graphic** list, select the graphic to which the application is assigned, if applicable (for zones and partitions only). For information about defining graphics, see [Graphics Definition](#).
 - ⓘ **Note:** The **Details** button is available only for a **User** or a **Virtual Zone** component type.
10. Click **Save**.

What to do next: To complete the configuration, see [Manual Operations on Integrated Panels](#).

Integrated panel configuration

To view and use the integration buttons, ensure that your system meets the following minimum requirements:

- Load the Integration DLL on the EntraPass Server. If the toolbar does not display the two buttons, see [System Parameters Configuration](#).
- Connect the third party hardware on the serial port of the multi-site gateway or on the serial port of a pass-through KT-400 controller.
- Turn on the third party hardware.

General tab

1. From the **Connection type** list, select a connection type.
2. From the **Panel model** list, select a panel model.
3. If the **Video feature** is enabled, the **Video view** list appears. If so, select the video view in which you want the defined component to appear. For more information about defining video views, see [Video Views Definition](#).
4. From the **Graphic** list, select the graphic to which the application is assigned, if applicable. For more information about defining graphics, see [Graphics Definition](#).
5. Click **Configuration** to display the **Panel Configuration** window. A different window displays according to the selected connection type.

Table 28: List of panel models and connection types

Callout	Panel model connection type
A	DSC PowerSeries Neo connected to serial or IP controller
B	DSC PowerSeries Neo connected to serial or IP gateway
C	DSC PowerSeries Pro connected to IP controller
D	DSC PowerSeries Pro connected to IP gateway
E	DSC PowersSeries or MaxSys connected to serial controller
F	DSC PowersSeries or MaxSys connected to serial gateway
G	Bentel Kyo320 connected to IP gateway
H	Honeywell Galaxy connected to IP gateway
I	Simplex 4100 & 4007ES connected to serial controller
J	Simplex 4100 & 4007ES connected to serial gateway

Table 29: Panel configuration parameters summary

Parameters	A	B	C	D	E	F	G	H	I	J
Virtual Zone management: Select Single controller to limit the integration to the controller it is connected to. Select Multiple controllers so the integration can use events/components for any controller of the same gateway.	Yes		Yes							
Intrusion model: Select the access management. By partition means that the default user code is used to arm and disarm the system. By users means that the user card is used to arm and disarm the system.	Yes		Yes		Yes					
Controller selection for pass-through: Select the controller to which the panel is connected to establish communication.	Yes		Yes		Yes				Yes	
Integration identification number: Enter the DSC communicator code to establish communication.	Yes	Yes	Yes	Yes						
Integration access code: The DSC communicator code that the user can configure.	Yes	Yes	Yes	Yes						
Number of digits: Enter the number of digits for the master access code.	Yes									
Master access code: Enter a code that is used to program the panel.	Yes	Yes	Yes	Yes	Yes	Yes				
Default user access code: From the list, select a default user access code.	Yes	Yes	Yes	Yes	Yes	Yes				
Communication port COM: From the list, select a port. This port is used for manual operations and when the system uses the managed by partition mode.		Yes				Yes				
Communication type: Select between Serial (RS-232), IP-TCP, and IP-UDP physical connections.	Yes	Yes	Yes	Yes						
Connection filter NEO connected to serial or IP controller: Used to filter controllers on the gateway. Selected controllers are used for virtual zones.	Yes	Yes	Yes	Yes						
Baud rate: Default is 9600.						Yes				
Ethernet IP address: Enter the controller IP address to allow communication.							Yes	Yes		
Domain name address: Enter the controller domain name to allow communication.							Yes	Yes		

Table 29: Panel configuration parameters summary

Parameters	A	B	C	D	E	F	G	H	I	J
DSL Port: Enter the panel communication port.							Yes			
IP ports: Select the three IP ports to communicate with the Galaxy panel.								Yes		
PIN value: Enter the remote panel PIN number. The displayed value is the default value from the Galaxy panel.							Yes			
Select Always validate MAC address upon startup to verify that it is the right panel.							Yes			
For Simplex 4100 panels, select Import IDNet points to automatically import the panel points defined into the IDNet boards located on the fire panel. The information imported is the point addresses includes the slot number, the point value, and the subpoint value with the corresponding point label.									Yes	Yes
For Simplex 4100 panels, select Import panel button points to retrieve the button addresses to generate an EntraPass-specific named event for the following buttons: <ul style="list-style-type: none"> • System Reset key • Alarm Silence key • Master Fire alarm Ack key • Master Supervisory Ack key • Master Trouble Ack key • Master Priority Ack key 									Yes	Yes

① **Note:** You cannot use the default integration access code when you program a DSC PowerSeries Pro or Neo panel. For information about retrieving an integration access code from a DSC PowerSeries Pro or Neo panel, refer to the following application notes: *Integrating the DSC PowerSeries Pro panel with KT controllers using type 2 encryption* and *Integrating the DSC PowerSeries Neo panel with KT controllers using a DSC communicator 5.3x with type 2 encryption*.

① **Note:** If you select **Access managed by user**, on the **Users** tab, in the **Card** window, an **Intrusion** tab becomes available.

For the KT-400 version, an additional list is available to select a controller for pass-through.

Panel component tab (Bentel, DSC Maxsys, PowerSeries Neo and Pro)

This feature depends on the type of intrusion panel. You must create the device in EntraPass for the DLL to download to the corresponding gateway or KT-400. After it downloads, the auto-detection becomes active.

1. Define the **Zone**, **Partition**, **User**, and **Virtual Zone** parameters. The following table lists the parameters' maximum values.

Table 30: Parameter maximum values

Parameter	PC1616	PC1832	PC1864	HS2016	HS2032/ 3032	HS2064	HS2128/ 3128	HS3248
Zones	32	32	64	16	32	64	128	248
Partitions	2	4	8	2	4	8	8	32
Users	48	72	95	48	72	500	1000	1000
Virtual Zones				16	32	32	32	32

2. Select the number of **Zones**. Click the button in the upper left to display a table that shows all the defined zones. Click **View** or **Edit** to view or edit the selected zone.
3. Select the number of **Partitions**. Click the button in the upper left to display a table that shows all the defined partitions. Click **View** or **Edit** to view or edit the selected partition.
4. Select the number of **Users**. Click the button in the upper left to display a table that shows all the defined users. Click **View** or **Edit** to view or edit the selected user.
5. Select the number of **Virtual Zones**. This is available only for Neo panels connected to a KT-1 or a KT-400. A corresponding number of virtual inputs are added in **Integrated Component** window. Configure virtual zones in the **Integrated Panel** window to view all zones. Configure virtual zones in the **Integrated Component** window to view one zone at a time.

- ⓘ **Note:** The default number of **Virtual Zones** is the maximum value shown in Table 30. The purpose of this feature is to create virtual zones in an alarm panel that receives commands from groups of selected inputs, doors, and other events of a gateway. These commands are then transmitted from the panel to a central station.

The DSC PowerSeries Neo 1.1 integrated panel can support 16 or 32 virtual zones: 16 virtual zones for HS2016 and 32 virtual zones for HS2032/3032, HS2064, HS2128/3128, and HS3248.

This feature is available only when using KT-400, KT-1, and KT-2 controllers. You require the following firmware: KT-400 v1.16.xx, KT-401 v1.22.xx, KT-1 v1.02.xx, or KT-2 any firmware versions.

6. Click **Virtual Zone List**. The displayed table allows you to map Kantech components to DSC virtual zones.

① **Note:** The **Physical Zone** column is displayed only with a valid DSC panel communication.

- a. Click the **Door**, **Input** and **Event** tabs, and select a physical zone number and the type of event (**Alarm**, **Trouble** or **Tamper**) to be sent to the central. View the remaining available zones on the counter in the upper right.

Table 31: Events sent to the virtual zone

Component	EntraPass Event	Report Alarm	Report Trouble	Report Tamper
Input	Input in alarm / Input restored or in normal condition	X		
	Input in trouble / Input in trouble restored		X	
	Input tamper in alarm / Input tamper restored			X
Door	Door forced open / Door forced open Restored	X		
	Door open too long / Door open too long restore		X	
	Door lock device failure / door lock device failure restored		X	
Duress	Duress feature	X		
Controllers	Controller AC power failed / Controller AC power restored		X	
	Tamper switch in alarm / Tamper switch restored			X
	Controller Auxiliary power failure / Controller Auxiliary power restored		X	
	Controller reader power failure / Controller reader power restored		X	
	Controller battery power failure / Controller battery power restored		X	
	Controller module communication failure / Controller module communication restore		X	
	Controller DC power failed / Controller DC power restored		X	
	Controller lock power failed / Controller lock power restored		X	
	Controller power trouble (KT-1)		X	
Access Denied	Access denied - Bad card status		X	
	Access denied - Card lost or stolen			X
	Access denied - Card expired	X		

- b. Click **Add** to add a new event in the list or click **Remove** to remove the selected event.
- c. Click **Save** or **Cancel** to return to the **Integrated Panel** window.
- d. **Printing:** Use the **Print** button from the **Virtual Zone Summary** section to send the virtual zone configuration parameters to the central.

Figure 4: Virtual zone printing

NEO Virtual Zone	NEO Physical Zone	Component Type	Component	Report Alarm	Report Trouble	Report Tamper
1	110	Door	Door #1	✓		✓
2	111	Door	Door #5	✓	✓	
3	112	Input	Input #1	✓	✓	✓
4	114	Controller	Controller #4	✓		

RS-232 tab

1. From the lists, select the **Communication port COM** and the **Baud rate**.
2. Click **Save**.

Kantech Telephone Entry System (KTES) Configuration

The Kantech Telephone Entry System (KTES) is a telephone entry system that is suited for small and large applications with a separate access control system, or in applications that require telephone entry access only. This system provides visitor access control for a variety of applications: apartment buildings, gated communities, condominiums, office buildings, factories, and industrial sites. Visitors use the KTES to communicate directly with a tenant and are easily identified by voice communication. The tenant can grant or deny the visitor access directly from a telephone land line or a cellular phone.

Designed as a stand-alone unit, the system controls one door, auxiliary relay, and supports postal lock access. For larger commercial installations, the KTES integrates with EntraPass Special Edition and KT-controllers to provide a complete access control solution. The entire programming of the system can be done directly on the keypad or remotely from a PC via a modem, Ethernet connection or RS-485 interface.

The system reports all events directly to EntraPass, where you can obtain a detailed event log. Additionally, programmed alarms can be reported to a pager and/or to the EntraPass system via an integrated modem. For more information on the KTES, see the *KTES Installation Manual, DN1769* and the *KTES Programming Manual, DN1770*.

- ① **Note:** For reliability and configuration consistency, Kantech currently supports the US Robotics Sportster external modem only. Even if other type of modem are available, we strongly recommend using the officially supported external US Robotics.

Defining general parameters for the KTES

1. On the **Devices** toolbar, select the **KTES** button.
 - ① **Note:** You must select a multi-site Gateway when configuring a KTES.
Use the **KTES Setup Wizard** to set up the Kantech Telephone Entry System (KTES) in a few steps. For more information, see [Configuring a KTES Using Express Setup](#).
2. Select a **Site filter** from the first list.
3. Select the **Gateway**.
4. From the **Connection** list, select the connection where the controller is located.
5. From the **KTES** list, select the KTES you want to define. Once selected, the language section is enabled. You may rename the selected KTES.
 - ① **Note:** For more information about configuring connections, see [Connection Configuration](#).

6. On the **General** tab, specify the **visitor call settings** :
 - **Talk time**: This is the maximum talk duration in seconds for a normal call between a visitor and a tenant (10 secs to 59 min:59 secs). Default value is 40 secs.
 - **Extended talk time**: This is the maximum talk duration in seconds for a extended call between a visitor and a tenant (10 secs to 59 min:59 secs). Default value is 60 secs.
 - **Talk time remaining warning** : The system sends a warning ring (a beep sound), a certain number of seconds (depending on the value entered) to indicate the end of the allowed talking period (1 sec to 59 min:59 secs). Default value is 10 secs.
 - **Number of rings before answer** : This is the maximum number of rings allowed for a tenant to answer (4 to 16). Default value is 5.
 - **Extended number of rings before answer** : This is the maximum number of rings allowed, for a tenant with the extended option, to answer (4 to 16). Default value is 10.

7. Specify the **Postal Lock options** :
 - **Postal lock contact**: This is the input corresponding to the door postal lock (0 to 4). Select an input and click **OK**:
 - ⓘ **Note**: See [Input Configuration](#) for more information.
 - **Postal lock Schedule** : This is the schedule inside which the input, corresponding to the postal lock, generates a valid postal lock request when that input is in alarm.
 - ⓘ **Note**: See [Schedules Definition](#) for more information about schedule definition.

8. **Disable KTES polling** option: Select this checkbox when you need to put the KTES in disable mode. In disable mode, the KTES will never be polled and all status requests from this specific. Default value is selected.

9. Specify the **Tenants list** options:
 - **Tenants list capacity** : By default, the capacity is 250 tenants unless you have registered for 500, 1000 or 3000 tenants total.
 - ⓘ **Note**: Remember that you are limited by the options purchased with the software. If you have registered many KTES options for additional capacity, make sure to assign it to the correct KTES site.
 - **Tenants list** : Select a tenants list. Default value is empty.
 - ⓘ **Note**: See [Tenants List](#) for more information about Tenants list definition.
 - **Use all tenants from list** : Check this box to include all the tenants from the list. Otherwise, leave the check box empty and click the **Customize** button. Select the check boxes for tenants to be included and/or displayed on the LCD. Default value is selected.
 - Use the **Print** button to send a printout of the tenants list to a printer of your choice. Sort by **name** or by **code** and **preview** before printing.
 - Select a **Graphic** and **Video** view to which the gateway is assigned, if applicable.

Defining the Kantech Telephone Entry System parameters

1. From the **KTES** window, select the **Kantech Telephone Entry System** tab.

2. Specify the **General options** :

- **Serial number** : The serial number is unique to each KTES . It is used for communication between the KTES and the EntraPass software. Default value is 00000000.
- **Enable fail-soft delay** : Enter the delay before EntraPass enters fail-soft mode and consider communication with the KTES lost . Values range from 10 secs to 4 min:15 secs. Default value is 45 secs.
- **EOL resistor** : This parameter defines the input termination as:None for no end-of-line resistor (dry contact), Single for single end-of-line resistor (5.6K) or Double for double end-of-line resistor (2 * 5.6K). Default value is **None**.

3. Specify the **Regional configuration** parameters:

- **Line Type** : Set this parameter to select the telephone line type used by the system. Possible values are Tone or Pulse . Default value is **Tone**.
① **Note:** For New Zealand, pulse dialling cannot be used.
- **Telephone line regional setting** : The Telephone line regional setting must be set to specify which telephone line country code should be used by the KTES. Default value is USA/Canada (0). Click the drop down list to display the available countries:



- **Time base** : Main time base comes from the AC power input (50 Hz or 60 Hz) for best accuracies over large operating temperatures. Time base will be automatically switched to internal Xtal in case of AC power failure. Time base can be forced to internal Xtal when DC power only or unstable AC source is used. Default value is 60Hz.
- **Line monitoring** : The telephone line is monitored when busy or disconnected, when this option is selected. Default value is selected.
① **Note:** In order to comply with New Zealand Telepermit requirements, line sensing must be turned on.

4. Specify the **Tenant response setting** :

- **Keypad key for access granted by tenant** : This telephone key can be used by a tenant to grant access to a visitor. Default value is 9.
- **Keypad key for access denied by tenant** : This telephone key can be used by a tenant to deny access to a visitor. Default value is *.

- **Keypad key for auxiliary relay activated by tenant** : This telephone key can be used to grant access to a visitor that is using a secondary entrance. Default value is empty.

5. Specify the **Wiegand interface** options:

- **Reader type** : This is the Wiegand Interface output format to be sent to the KTES. Default value is KantechXSF .
- **Reader's Driver download**: Click on the  button to open the selection window and select a driver to download:
- **Wiegand integration with an access controller** : Selecting this option indicates that the KTES is connected to an access controller. Otherwise it is operating in Standalone mode (not available in **EntraPass KTES Edition**) .
- **Card holder used for postal activated** : This is the card number used by the KTES to generate a Wiegand code when the postal lock is activated. Default value is empty.

Defining the Language and Welcome Message Parameters

1. From the **KTES** window, select the **Languages and Welcome messages** tab.
2. Specify the **Enabled languages** : Select the languages available in the KTES LCD Display. Default values are deselected.
3. Specify the **Custom language** : Select the custom language available in the KTES LCD Display, chosen by the customer (in addition to the enabled languages). Use the + button to add other languages. Default value is **None** .
 ⓘ **Note:** See [Vocabulary Editor](#) for more information about Custom language definition.
4. Specify the **Default KTES language** : Select the default language used by the KTES . Default value is **None**.
5. Define the **Welcome Messages** :
 - Enter the message to be displayed on the KTES LCD for each enabled language. Default value is empty. Use the button next to the **Display delay** text box to centre the message text.
 - Enter the displaying delay in seconds (0 sec to 4 min:15 secs). Default value is 2 secs.
 - Repeat both steps for the second message.

6. Click the **Save** button.

Special characters

By combining the commands listed in the following table, you can display the **KTES** current hour and date according to different formats. For example:

- The complete current date in the international format: `&yyy/&o/&d` = 2007/01/18
- The complete current date in the American format: `&o/&d/&y` = 01/18/07
- The complete current hour in 24 hours format: `&h:&m:&s` = 14:50:55
- The complete current hour in am/pm format: `&h:&m:&s&a` = 02:50:55pm
- The current day in 3 letters format: `&ww` = mon
- The current day in 10 letters format: `&wwwwwwwww` = wednesday
- The current month in 3 letters format: `&oo` = jan
- The current month in 9 letters format: `&Ooooooooo` = January

- The complete current date in letters and digits format: &ww &oo &d &yyy = thu jan 18 2007

Table 32: Special characters commands

Display	Format
Hour displayed in 24 hours format	&h
Hour displayed in 12 hours format	&h&a
Minutes	&m
Seconds	&s
Ten of years	&y
Year	&yyy
Month	&o
Date	&d
Day of the week	&ww to &wwwwwwwwww
Current month in text format	&oo to &oooooooo

Defining the Options Parameters

1. From the **KTES** window, select the **Options** tab.
2. Specify the **LCD setting** :
 - **Hide PIN number** : Select this check box to hide the tenant's PIN numbers on the LCD. Default value is deselected.
 - **Backlight delay** : The Backlight Delay is the maximum delay of inactivity before the LCD backlight turns low (0 sec to 4 min:15 secs) . Default value is 20 secs.
 - **Next character delay** : The Next Character Delay is the maximum delay allowed between each key press before considering a next character entrance when entering a text string at the keypad (0 sec to 4 min:15 secs) . Default value is 2 secs.
 - **Find user timeout delay** : After pressing the Find option key, the Find user timeout delay is the maximum delay allowed between each key press before cancelling a find sequence (5 sec to 4 min:15 secs). Default value is 15 secs.
 - **Programming PIN timeout delay** : The Programming PIN timeout delay is the maximum delay allowed to enter a complete valid PIN number before entering in system programming mode (5 sec to 4 min:15 secs) . Default value is 20 secs.
 - **Programming mode timeout delay** : The Programming mode timeout delay is the maximum delay allowed between each key press before exiting from the programming mode and returning to the welcome messages (5 secs to 9h:59 min). Default value is 60 secs.
3. Specify the **Duress** options. A Duress alarm is used by employees or tenants to signal for help:
 - **Duress on access granted** : Allows a tenant to trigger a duress alarm after a valid PIN entry. Default value is deselected.
 - **Duress on access denied** : Allows a tenant to trigger a duress alarm after an invalid PIN entry. Default value is deselected.
 - **Keypad duress key** : Set this parameter to configure the symbol that will activate the duress functions. A Duress alarm is used by employees or tenants to signal for help (0 to 9, # and *). Default value is 9.

4. Specify the **Supervision Schedule** options:
 - **Power supervision schedule** : To define the schedule applicable to KTES power monitoring. Select a schedule from the list and click **OK**. Default value is empty.
 - **Tamper switch supervision schedule** : To define the schedule applicable to KTES tamper switch monitoring. Select a schedule from the list and click **OK**. Default value is empty.
5. Click the **Save** button.
 - ① **Note:** See [Schedules Definition](#) for more information about schedule definition.

Defining the status relay parameters

1. In the **KTES** window, click the **Status relay** tab.
 - ① **Note:** See [Relay Configuration](#) for more information about relay configuration.
2. Specify the **Relay activation** parameters:
 - **Power failure:** This is the relay that can be activated when a KTES AC power failure occurs. The default value is none.
 - **Battery trouble:** Relay that will be activated if the 12 volts standby battery is disconnected or comes low (under 11.5 volts DC). The default value is none.
 - **Tamper in alarm:** This is the relay that can be activated when a KTES tamper switch event occurs. The default value is none.
 - **Buffer 70% full:** Relay that will be activated if the event buffer for the EntraPass software has reach a 70% capacity. The default value is none.
 - **Lock power trouble:** This parameter defines the relay to be activated in the event of a door lock problem, locking device disconnected or shorted to ground. The default value is none.
 - **Other troubles:** Relay that will be activated when any other trouble on the KTES occurs. The default value is none.
 - **Heater kit activated:** Relay that will be activated when cabinet inside temperature falls below +5°C. The default value is none.
 - **Postal lock:** Relay that will be activated with an entry request from the front door postal lock. The default value is none.
3. Specify the **Pager call type**:
 - For each event you can configure a pager call type. You can select **No call** (the relay activation for that event will not be sent to the pager), **Immediate call** (the relay activation for that event will be sent immediately to the pager) or **Schedule call** (the relay activation for that event will be sent to the pager according to the pager call schedule). The default value is **No call**.
 - ① **Note:** To specify pager call types for each events, the Pager reporting function must be enabled.

Defining the Pager Options

1. From the **KTES** window, select the **Pager** tab.
 - ① **Note:** For New Zealand: This equipment shall not be set up to make automatic calls to the Telecom "111" Emergency Service.

2. Specify the **Pager Reporting** options:

- **Pager phone number** : The pager phone number to which events will be reported (24 characters maximum). Default value is empty.
- **Pager call schedule** : The schedule number from which the KTES can communicate programmed events, alarms and troubles to the pager. Select a schedule from the list and click **OK**.
Note: See [Schedules Definition](#) for more information about schedule definition.
- **Unit ID** : The Unit ID identifies the KTES that sent the pager code (0001 to 9999). Default value is 0001.
- **Restore code** : The Restore code is the pager code corresponding to the general event that triggered a zone restore condition (0 to 999). Default value is 0.
- **Alarm code** : The Alarm code is the pager code corresponding to the general event that triggered a zone alarm condition (0 to 999). Default value is 1.
- **Tamper code** : The pager code corresponding to the general event that triggered a zone tamper condition (0 to 999). Default value is 2.
- **Trouble code** : The pager code corresponding to the general event that triggered a zone trouble condition (0 to 999). Default value is 3.
- **Field separator** : The Field separator is the character to be used as a field separator or delimiter (*, # or ,). Default value is *.
- **Field ending** : The Field ending is used to indicate that the call is completed. Remember that you can enter any signs for the ending parameter (*, # or ,). Default value is #.

3. Specify the **General event** pager codes:

- **Tamper in alarm** : The pager code that corresponds to a tamper switch problem (0 to 999). Default value is 100.
- **Power failure** : The pager code that indicates an AC power failure on the KTES (0 to 999). Default value is 101.
- **Battery trouble** : The pager code that indicates a low battery problem on the KTES (0 to 999). Default value is 102.
- **Buffer 70% full** : The pager code sent to indicate that the event buffer for the EntraPass software has reached a 70% capacity (0 to 999). Default value is 103.
- **Other troubles** : The pager code that corresponds to any other system event that can occur (0 to 999). Default value is 104.
- **Door forced open** : The pager code that corresponds to a forced open door (0 to 999). Default value is 120.
- **Door open too long** : The pager code that corresponds to a door opened for too long (0 to 999). Default value is 121.
- **Door alarm on relock** : The pager code that corresponds to a door left opened (0 to 999). Default value is 122.
- **Lock trouble** : The pager code that corresponds to a problem with the door locking device supervision (0 to 999). Default value is 123.
- **Keypad disabled** : The pager code that corresponds to a keypad disabled condition (when the option is enabled) (0 to 999). Default value is 124.

- **Duress alarm** : The pager code that corresponds to a duress alarm. A Duress alarm is used by employees or tenants to signal for help (0 to 999). Default value is 125.
- **Access granted** : The pager code that corresponds to a granted access. An access granted code is sent when the tenant was granted access using his PIN (0 to 999). Default value is 140.
- **Invalid access schedule** : The pager code that corresponds to a denied access. An access denied code is sent when the tenant was denied access using his PIN (0 to 999). Default value is 141.
- **Access granted by tenant** : The pager code that corresponds to an allowed access by a tenant to a visitor (0 to 999). Default value is 142.
- **Auxiliary relay activated by tenant** : The pager code that corresponds to an allowed access by a tenant to a visitor at an alternate entrance, different from the main entrance usually used by the tenants or visitors, for example (0 to 999). Default value is 143.
- **Access denied by tenant** : The pager code that corresponds to a denied access by a tenant to a visitor (0 to 999). Default value is 144.
- **Tenant traced** : The pager code that corresponds to a granted access for a traced tenant (0 to 999). Default value is 145.
- **Disabled tenant** : The pager code that corresponds to an access attempt from a tenant with an invalid status (0 to 999). Default value is 146.
- **Other access denied** : The pager code that corresponds to an access attempt from a tenant outside of his assigned schedule (0 to 999). Default value is 147.

Configuring Tenant Administration Level Parameters

1. From the **KTES** window, select the **Tenant administration level** tab.
2. Specify the access parameters rights: Use the scroll boxes to set the administration level for the four different tenant types (**Full access**, **Read only** or **No access**).

Output device configuration

Outputs usually control the reader LED and buzzer. There are four outputs available for each KT-200, KT-300 (2 per door), but there are 16 outputs for KT-400 controllers (4 per door). A KT-100 supervises the state of two outputs. Electrical outputs are configured as open-collector. They provide an open circuit when deactivated (not connected to ground) and are switched to ground when activated. You may configure Output devices from a controller definition menu or from a gateway window.

- ① **Note:** For a single gateway, limits are 2048 connections, 10,000 doors, 100,000 inputs and 100,000 outputs.

Defining General Options for an Output

1. From the **Devices** configuration window, select the **Output** button.
 - ① **Note:** The **Miscellaneous** section is hidden in the case of using the KT-400 system because the items are already defined in the Gateway/KT-400 events.
2. Select a **Site filter** from the first drop-down list.
3. Select the **Gateway**.
4. From the **Connection** drop-down list, select the connection where the controller is located.
5. From the **Output** drop-down list, select the output you want to define. Once selected, the language section is enabled. You may rename the selected output.

6. From the **General** tab, specify the **Operating mode** for the output device (default is **Normal**):
 - **Normal** : The output is switched to ground when it is activated.
 - **Inverse** : The output is an open circuit (not grounded) when it is activated.

7. In the **Selected doors** section, select which door will affect the output you are configuring:
 - **First door**: Only the first door port will follow the state programmed for these events.
 - **Second door** : Only the second door port will follow the state programmed for these events.
 - ⓘ **Note**: This option is not available with KT-100 and KTES.

8. Set the **Activation period (m:ss) delay** . It defines the activation time in seconds during which the output remains active when it is programmed for a temporary activation. It will leave the output activated indefinitely, regardless of the activation type. Values range from 1 sec to 4 min:15 secs. Default is 5 secs.
 - ⓘ **Note**: This option is not available when you are using the KT-400 or the KTES.

If you are using the **Video Integration** feature, EntraPass enables you to assign all system components into a video view, the same way you assign them to a system interactive floor plan (graphic). To do this, you simply select the video view where you want the system component (Workstation, site, gateway, controller, etc.) to appear.

Associating Events with Auxiliary Outputs

About this task:

System events can trigger auxiliary outputs. You can define how each event will trigger the output.

1. Select the **Definition** tab to associate a door event with an auxiliary output.
2. In the **Options** column, associate an event with an output state. Default is **None** .
 - **Steady timed** : The output given this option will not flash, it will remain activated for the specified activation period and will return to normal state when the activation period is over.
 - **Flash timed** : The output will flash and remain activated for the specified activation period and will return to its normal state when the activation period is over.
 - **Steady** : The output given this option will not flash, it will remain activated until it returns to normal condition.
 - **Flash** : The output will flash and remain activated until its condition returns to normal.

Relay configuration

Use the output control relays provided on each KT-100, KT-200, KT-300, KT-400 and KTES to activate alarms or other devices such as lighting control, ventilation, and air conditioning. You can activate these relays according to schedules, events reported by the system. You can also activate them to indicate the status of an alarm system or a combination of different logic conditions.

Defining relays

1. Click the **Devices** tab, and click **Relay**.
2. Select a **Site filter** from the list.
3. Select the **Gateway**.

4. From the **Connection** list, select the connection where the controller is located.
5. From the **Relay** list, select the relay you want to define. Once selected, the language section is enabled. You may rename the selected relay.
6. On the **General** tab, specify the **Operating mode** for the relay:
 - **Normal** : The relay is normally de-energized (deactivated) until it is energized (activated) by an operator, an event or any other system schedule.
 - **Reverse**:The relay is normally energized (activated or resting) until it is de-energized (deactivated) by an operator, an event or any other system function.
7. Specify the **Automatic activation schedule**: When this schedule is valid, the relay will be triggered (activated or deactivated) according to the specified activation mode.
8. Specify the **Disable relay action**: When this schedule is valid, the relay will be deactivated (or activated) according to the predefined operating mode .
9. Set the **Temporary activation timer** to indicate the delay during which the relay will be temporarily triggered following a temporary activation.
 - ① **Note**: When the timer is set to zero, the default activation delay is set to five seconds. Maximum time allowed: 9:06:07 (9 hours, 6 minutes and 7 seconds). When you are using the KT-400, the maximum time allowed is 18:12:15 (18 hours, 12 minutes and 15 seconds).
10. Select a **Graphic and Video view** associated with the relay, if applicable.

Setting up Communication Timing

⚠ CAUTION: Do not use the **Communication timing** option. If you need to set up the communication delay and polling frequency, call Kantech Technical Support Help Desk. Inappropriate use of this option may cause serious problems to the system. The **Communication timings** window shows the actual default settings. They must be preserved unless advised otherwise by Kantech.

Site configuration

About this task:

A site is composed of one or many physical connections. For more information about connections, see [Connection Configuration](#).

You can link together a large number of controllers, communicating over IP within an EntraPass system, into a common virtual site, regardless of their physical connections.

- ① **Note**: Dial-up connections are not supported by virtual sites.
1. Click the **Devices** tab and click **Site**.
 2. If you are defining a new site, click the **New** icon, assign a name to the new site and click the **Save** icon. The bullet next to the site name turns green.
 3. Enter or edit the description in both languages.

Video

Use video to define cameras, video servers, and events recorded by cameras. You can also view video recordings. The is an archive management tool that organises recordings in a directory style pane that makes retrieval easy, and has large storage capacity. You can use Video Vault to export video files, to find video events, set up recording parameters, link video clips with key frames, and view recordings of up to 16 cameras simultaneously.

Camera definition

You can assign names to cameras, presets, and patterns for easy identification in the Video desktop and in all system video events.

The definition of a camera includes identifying its:

- Types: fixed or dome
- Presets: for dome cameras
- Patterns: for dome cameras

The camera name is displayed when viewing live or recorded video events (Intellex only). The default names are Camera1 through Camera n (where n is the last camera number).

Defining a Camera

1. From the Video window toolbar, click the **Camera** button. The Camera window appears.
2. Select the camera you want to define, then assign it a descriptive name in the enabled language fields. It is recommended to assign a name both in the primary and secondary languages if the system is running in two languages.
3. Select the **Camera type** from the drop-down list.
 - **Fixed camera:** no preset/pattern; operators cannot control a fixed camera.
 - **Dome:** preset and pattern (Intellex only) available; selecting this option allows operators to control the camera. If you select this option, assign descriptive names to the camera presets.
4. Check the **Show camera** option for the camera to be accessible for selection and display in the Video view desktop. It is important to check this option if you want the camera to be enabled in EntraPass. Only operators with appropriate permission will be able to view a camera with the **Show camera** option not checked (Hidden/covert cameras). To assign permission to an operator: **System > Operator definition > Privileges** .
 - ① **Note:** If you leave the Show camera box unchecked, the camera will not appear in the Video view component window (Video view > Modify video view components) and will not therefore be assigned in the Video desktop for view. This feature allows to hide a camera from all view. Operators who do not have appropriate permission will not be able to view, search, export or carry any other operation on a camera for which they do not have access permission. However, all links and references to this camera will be kept. This feature is different from deleting a camera since links to a deleted camera are deleted as well.

5. Check the **Select specific events** option if you want this camera to record specific events. By default all camera events are displayed in the Video Events List. However, you can decide which events will be recorded by a specific camera by checking this option. When you do this, the **Event** tab appears. You can then select it and specific events will be recorded by the camera being defined. If this option is checked, you have to select events that will be recorded by this camera.
6. Using the **Up/down** controls, adjust the number of presets and patterns for the selected camera if the selected camera is a dome. When you do this, the **Preset** or **Pattern** tabs appear in the Camera window.
7. Select the view type you want to display when an alarm occurs.
 - **Video View:** The video view selected will be displayed when an alarm occurs on this camera.
 - **Graphic View:** The graphic view selected will be displayed when an alarm occurs on this camera.

Associating a Camera with an Icon

About this task:

EntraPass offers you the ability to associate a specific button with a camera for easy identification in the Video desktop and system Graphic.

1. From the Camera window, select the camera you want to associate with an button, then click or double-click the button next to the camera type drop-down list. The **Select an button** window opens.
2. Choose an appropriate button to associate with the selected camera, then double-click it to close the window. When you do this, a camera is associated with an button using the button index.
 - The Camera button in the Camera window toolbar allows you to add custom buttons to the list of available buttons. The list of buttons is displayed when you click the Camera button in the toolbar.

Defining Presets and Patterns

1. From the Video server window select the **Preset** (or **Pattern**) tab to assign custom names to your presets.
2. Select a table cell, then overwrite the default name. If you are running the system in two languages, enter the name in both the primary and secondary language, then click **Close** to close the Preset (or Pattern) window.
 - ① **Note:** If you select a preset or pattern and click the Default button, the assigned name is replaced by the default name.

Defining Events Recorded by a Camera

If the **Select specific events** option is checked in the **General** tab, you have to:

- Select events that will be recorded by the camera being defined and that will be sent to the EntraPass Server. This option is disabled when a camera is connected to an Intellex LT DVR.

- Select or define a schedule that will be used by the video server to report selected events to the EntraPass Server. This schedule can be used as a filter to limit the message flow from the Video Server to the EntraPass Server. For instance, choosing an Always valid schedule will send all the selected events to the EntraPass server. Specifying a limited period of time will allow to send events that occurred during a targeted period of time.

To Select Camera Events and Schedules

1. From the Camera window, select the **Event** tab. Typical camera events are displayed in the window. These are specific to the selected DVR.
2. Select a schedule for camera event reporting. Only events that will be recorded during the specified period of time will be sent to the EntraPass server. Right clicking the Event report schedule field enables operators to create a new schedule or to select an existing one. To define a schedule, make sure that you are selecting the proper category for this schedule. For example, if you are assigning or defining a system schedule (for workstation, operators, video triggers) this schedule will be available for selecting components of this category. If you are selecting a schedule for physical components such as controllers, doors, inputs, their schedules will be grouped. If you have defined two sites in your system, there will be two separate groups of schedules for each connection. You can define up to 99 schedules for each connection.
3. Select camera events that you want to send to the EntraPass server. Specifying events to be sent to the video server is a way of saving on controlling the flow of the video data, and hence of decreasing bandwidth usage. The list of events is specific to the video server:
 - **Camera advanced motion alarm (Intellex only)** : the camera will send any event related to a motion alarm.
 - **Camera alarm (Intellex only)** : the camera will send any event related to a change that occurred in the target area.
 - **Camera light alarm (Intellex only)** :
 - **Camera motion alarm** : the camera will send to the EntraPass server all video segment events related to any movement that occurred in the target area.
 - **Camera override (Intellex only)** :
 - **Camera perimeter (Intellex only)** : the camera will send all video segment events related to an object, that has crossed into or out of the target area, to the EntraPass server.
 - **Camera text alarm (Intellex only)** :
4. Enter the comment you want to associate with the camera being defined, then save and close the window.

Result

Current recording

Use the current recording feature to view the list of all on-going recordings. The information displayed depends on the source of the recording request:

- Started by a video trigger
- Started by an operator
- Started by an alarm on the video server

Viewing the current recordings

1. On the Video toolbar, click the **Current recording** button. The **Current recording** window displays all on-going recordings.

Result

The following table shows the information displayed in the **Current recording** window depending on the source of the recording.

Table 33: Current recording information

Initiated by	Information
Video server alarm	<ul style="list-style-type: none">• Initiated by• Event name• Start date and time
Video trigger	<ul style="list-style-type: none">• Initiated by• Video trigger• Recording parameter• Event• Start date and time• Remaining time for the recording
Operator	<ul style="list-style-type: none">• Initiated by• Workstation• Operator name• Start date and time• Remaining time for the recording

Viewing exported videos

About this task:

EntraPass enables users to view all exported videos. Use this feature to browse the list of all exported videos and to preview a key frame of the exported videos sequence for all KVI and KVA formats. You can preview the exported video segment before viewing it.

1. In the **Video** window, click the **View exported video** button. The Video folder opens automatically and includes the list of all exported video sequences that have been exported.
2. Select a video sequence. The video thumbnail appears in the lower left part of the window. The directory contains the **Date and Time** the video was taken, the video file format (**Type**) and the **File Name** . You can then click the **Preview** button for details about the exported video.

Exporting Video Files

About this task:

EntraPass exports video segments in four formats: KVI and KVA.

- KVI (Kantech Video Intellex format). Video data are stored in Intellex format (.img). A simple double-click allows you to view the file using VideoPlayerIntellex.exe.

- KVA (Kantech Video AVI format). Video data are stored in AVI format (.avi). A double click opens the video file using VideoPlayerWindow.exe.
- AVI format
- IMG format
- PS format

EntraPass users have two options when exporting videos:

- From the Video event list (without previewing the video)
 - From the video playback window: in this case, the video is previewed before it is exported.
1. From the video event list, select the video event you want to export.
 2. Click the **Export** button. The **Enter a video filename** window opens.
 3. Enter a file name in the **File name** field. By default, the file is assigned the Kantech KVI format. The file will be saved among EntraPass program files:\Kantech\Server SE\Video. Later you can call this file simply by double-clicking it.
 - ① **Note:** Video files can be viewed in the **Exported video** window (Video tab > Exported video). The video file is displayed with its name, date and time. Key frames (if any) associated with a video clip can also be previewed in this window.
 4. Click **Save** to close the **Enter filename** window. When you do this, the **Description and password** window appear.

Finding video events

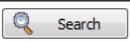
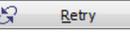
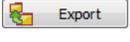
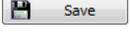
About this task:

Go to **Video > Video event** list, and click the **Search** button to locate and view video segments. If the **Search** button is not displayed, click the **Menu** button.

- Click the **Video server** tab to search for a video segment on a specific video server.
 - Click the **Events** tab to filter events.
 - Click the **Options** tab to determine the size of the video you are looking for. Appropriate user access rights are necessary for performing this task.
1. In the **Video Events** window, click the **Search** button.
 - ① **Note:** If the **Menu** button is not activated, the window will not show the button in the lower part.
 2. In the **Find video events** window, select the **Start date and time** and the **End date and time** for the video segments you are looking for.
 3. Select the video server that you want to include in the search. You can select **All video servers** if you want to search through all video servers defined in the system.
 - ① **Note:** If an event was registered by more than one video server, at least one of the servers must be selected for the event to be included in the list.
 4. Click the **Events** tab to filter events to be included in the report. If you select **All events**, all the specific events are selected.
 5. Click the **Options** tab to filter video segments according to their duration.
 6. Check the **Video segment duration limit** option, and enter the duration in the **Greater than (mm:ss)** and **Smaller than (mm:ss)** fields. The value entered is in minutes and seconds. This feature allows you to target video segments meeting specific duration criteria.

7. Click **OK** to go back to the **Video event list** window.
8. Complete one of the options outlined in the following table:

Table 34: Finding video events buttons

Button	Use description
	Use this Search button to search for events associated with a video segment.
	Use the Play button to view a video event. When you click this button, the Video desktop displays the video event. If only one camera was used, which is most often the case, the system displays the duration of the video event. If the video event was recorded by more than one camera on a single server, the video server will use the most optimal display layout. If the video event was registered by more than one server, it is possible to select a specific video server. For example, 2x2 for a maximum of 4 camera, 3x3 for a maximum of 9 camera and 4x4 for a maximum of 16 cameras. For events with various length, events will be played based on the longer event. Note that this feature shows limitations when used in systems not configured for continuous recording as it will not display cameras involved outside the selected time frame.
	The Retry aborted button enables operators to trigger any archiving process that was suspended.
	Use the Menu button to display the buttons in the lower part of the window and the Legend button to display a legend about the status of the displayed video recording events.
	The KVI (Kantech Video Intellex), KVA (Kantech Video AVI), IMG, AVI and PS formats are available for your Export needs. These formats allow users to store all the data relative to a video event such as the event button or key frame, description, etc.
	The Save button is enabled when an operator enters data in the Comment field. It enables operators to save comments associated with a video event.
	The Cancel button is enabled when the Comment field is modified. It enables operators to discard the comment and to go back to the previous value.

Recording parameters

Use the **Recording Parameters** menu to define parameters that control video recording and to associate recording parameters, such as video source and cameras, with a video trigger. For each recording event, you must specify parameters such as the video server source, the camera, etc.

A recording can be stopped by a timer (maximum recording time) or by a trigger when a stop recording trigger is used. A source component must be specified for each type of triggering event. For example, the “door” component must be specified for the “Door forced” event message. The resulting action (whether to start or stop recording) must also be specified.

You can associate multiple recording parameters with one trigger. In this case, all recordings are associated with the single event and it is possible to save all record segments as a single event recording.

Setting Up Recording Parameters

About this task:

The Video record window lets you configure how EntraPass Video records videos. You must possess the appropriate privileges to set up this feature. There is no limit to the number of definable recording parameters. The following information can be defined:

- Name in two languages (for systems in two languages)
 - Video source (server and camera)
 - Preset and patterns
 - Start recording trigger
 - Pre-alarm time
 - Maximum total recording time, etc.
1. From the Video toolbar, click the **Recording parameters** button. The **Recording parameters** window appears with the **General** tab enabled.
 2. Click the **New** button to create new **Recording parameters** (or select one from the Recording parameters drop-down list) and assign a descriptive name to the Recording parameters.
 3. From the **Video server** pop-up window, select the video server that will be used for the Recording parameters.
 4. From the **Camera** drop-down list, select the camera for this Recording parameters.
 - ① **Note:** If the selected camera is a dome, you can specify the **Preset or Pattern** name and number. Defining these options allows you to direct the camera to a specific position for recording. However, the pre-alarm time feature may not work well with the preset/pattern option. In fact, the pre-alarm may be triggered when the camera is directed to a location different from the one where the video recording event occurred.
 5. From the **Start recording trigger** pop-up window, select the Video trigger you want to associate with the Recording parameters being defined. The Video trigger pop-up window displays all video triggers defined in the system.
 6. In the **Timings** section, specify:
 - **Pre-alarm time (m:ss)** : This option enables users to retrieve from the video server, segment that was recorded before recording was triggered. For example, if a recording was triggered at 2:00 PM and if the Pre-alarm time is 1min. 0 seconds, the record segment will start at 1h 59.
 - **Maximum total recording time (m:ss)** : This options allows you to specify a maximum length for the recording. This includes the pre-alarm time but not the post-alarm recording delay. The maximum allowed is 5 minutes.

Setting Up Stop Recording Trigger Parameters

About this task:

If you want to associate the defined recording parameters with a trigger for stopping recording, check the **Stop recording trigger** option. If you do this, the **Stop recording trigger** tab appears in the Recording parameters window.

1. From the Recording parameters window, select the **Stop recording trigger** tab.
 - **Post-alarm recording delay (m:ss)** : this delay enables the system to end recording when an “end recording delay” condition has been used. Moving the mouse pointer over the field shows the value range allowed in the field.
 - **Trigger** : select one (or more) trigger(s) that will stop recording.

- ① **Note:** You can create new stop recording triggers by right-clicking the triggers display area.

Video desktop

The video desktop allows operators to display and monitor, in real-time, video cameras that are configured and connected to the network.

Displaying a video view

1. On the EntraPass workstation, click the **Desktops** tab, and select the desktop dedicated to video.
 - ① **Note:** The Video desktop is empty the first time you open it and the message **No video view selected** displays.
2. In the **Video View** window, select **Video view** from the list. You can edit the view (**Video view** > select a specific **View** > **Modify Video view components** button).
3. Perform various tasks using the icons in the lower part of the window. The following table describes the icons.

Table 35: Video view icons

Icons	Description
	Use these icons to select a size for the displayed video. Note: A bigger image requires more process power. Therefore, selecting a bigger image may result in lower process power.
	Use these icons to Create and Edit video views.
	Use this Show view selector icon to display a mosaic view of all the camera defined in the system.
	Help and Close icons. These are EntraPass standard icons.

4. Click the **Show view selector** icon to display the View selector window. This small window allows you to so select a specific view or to monitor a specific camera pattern. For instance, if you select a cell in the View selector, the sequence is interrupted to display the selected cell.
 - ① **Note:** When you open the Video view selector while a camera is recording, the camera icon blinks until the end of the recording.
5. From the displayed view, you can click a dome camera icon to display control icons for this camera (movement, zoom, focus). Available options depend on the Digital Video Management system connected to your system. For more information, refer to your DVMS documentation.
 - ① **Note:** If your dome camera is set with pre programmed movement patterns, you can define a view displaying a pattern composed of one or many of these patterns. For more information, see [Video Views Definition](#).

Video event list

The Video Event List window displays all video segments recorded in the system and stored in the Video server database . These video segments can originate from three sources:

- Video triggers

- Manual requests from operators
- Automatic recordings from video servers
- ① **Note:** Operators must have access rights to the video server to perform operations on events displayed in the Video Event list. For example, if an operator has not been assigned permission to use a specific video server, he/she will not view events originating from this server. User permissions are assigned while defining the security level: System > Security level.

Using the Video Event List

The **Video event list** window displays all video events as well as their description. EntraPass operators can:

- Search for a specific event associated with a video segment based on the date and time when the video was recorded
- Play a video segment
- Export the video segment for future consultation

Finding video events

- For information about how to find video events, see [Finding video events](#).

Playing Video Segments

About this task:

The Video Event List window is divided in two panes: the left-hand pane displays all video events that were retrieved according to the search criteria. The lower pane of the window displays the legend explaining the status of each event. It also contains buttons that enable operators to perform operations on video recordings. The right-hand pane contains three tabs:

- The **Details** tab displays the text description of the video event such as the video server that recorded the event, the operator who was logged on, etc.
- The **Cameras** tab shows cameras that are associated with a selected event.
- The **Image** tab contains the key frame for the video sequence. The key frame serves as preview of the video sequence. It is from this pane that you can associate a video key frame and link it to the video segment.

- ① **Note:** Video recordings can be streamed from the left-hand pane (Play button) or from the Camera tab. You can also view camera recordings from the **Message** desktop. To do so, you have to select a video recording event (identified by a camera button in the Message desktop), right-click it and select **Video recording > Play** from the shortcut menu.
1. From the Video event list, select an event, then click the **Play** button. The video clip appears in the Video Playback window.
 2. You may select the **Cameras** tab to view information about the camera that captured the selected event.
 - **Start/End dates and times** when the recording event occurred.
 - **Recording time (mm:ss)** : duration of the video segment. This duration is specified when defining recording parameters (**Video** menu > **Recording parameters**).
 - **Video trigger** , if any: the video trigger is defined in the **Video trigger** menu and then selected in the **Recording parameters** definition.

- ① **Note:** The status indicator next to the video server name indicates the current connection status of the server.

3. You can:

- Click the **Play** button to view this video segment of the selected camera for the duration of the recording. The video appears also in the Video desktop (**Desktop** menu)
- Click the **Export** button to export it for future use. For details, see [Exporting Video Files](#).

Linking Video Clips with Key Frames

About this task:

EntraPass users have the ability to save a still image that best represents a video sequence linking this image to the whole video recording. This may be useful for example if one event was registered by more than one camera and you want to associate the recording with a more explicit image. Viewing the video event will enable users to identify the best image for this video event, to snap it, paste it and save it as the best sequence for the video clip. It is also possible to retrieve a previously saved image and to link it to a video segment, or to paste a previously snapped image.

1. From the **Video event list** , select an event, then click the **Image** tab (right pane).
2. From the image window, you can:
 - **Import image** : click the **Import** button to retrieve a previously saved or exported image from a file.
 - **Paste image** : click this button to paste a previously snapped image. The **Paste image** button is enabled only when you have snapped (copied) an image while viewing it. You can first play a video clip, snap it and then paste it.
 - **Clear** : click the clear button to delete the displayed image from view.

Exporting Video Files

About this task:

EntraPass exports video segments in four formats: KVI and KVA.

- KVI (Kantech Video Intellex format). Video data are stored in Intellex format (.img). A simple double-click allows you to view the file using VideoPlayerIntellex.exe.
- KVA (Kantech Video AVI format). Video data are stored in AVI format (.avi). A double click opens the video file using VideoPlayerWindow.exe.
- AVI format
- IMG format
- PS format

EntraPass users have two options when exporting videos:

- From the Video event list (without previewing the video)
 - From the video playback window: in this case, the video is previewed before it is exported.
1. From the video event list, select the video event you want to export.
 2. Click the **Export** button. The **Enter a video file name** window opens.

3. Enter a file name in the **File name** field. By default, the file is assigned the Kantech KVI format. The file will be saved among EntraPass program files: \Kantech\Server SE\Video. Later you can call this file simply by double-clicking it.
 - ① **Note:** Video files can be viewed in the **Exported video** window (Video tab > Exported video). The video file is displayed with its name, date and time. Key frames (if any) associated with a video clip can also be previewed in this window.
4. Click **Save** to close the **Enter file name** window. When you do this, the **Description and password** window appear.

Protecting a Video with a Password

About this task:

You can protect exported videos using a password. Users must enter this password to view exported videos.

- ① **Note:** The password protection is applicable to KVI and KVA video formats only.
1. Select the video you want to export, then click the **Export** button.
 2. Enter a description for the video segment, in the Enter Video file name window, then click **Save** . The Description and password window appears.
 3. Check the **Use password** box if you want to add more security to this video segment. Users will have to enter this password in order to view the saved video segment.
 4. Enter a password and confirm the password in the displayed field.
 5. Click **OK** to close the Description and password window. Click **OK** to close the system message confirming the export.

Video playback

Use the video playback feature to view recorded video of up to 16 cameras simultaneously. To do so, you have to specify the period of time for the playback. A maximum of one hour is allowed.

- Select cameras in the left-hand pane.
- Drag them to the **View playback** area.

Viewing a Video Playback

1. From the Video playback window, specify the **Start date** and **time** and **End date** and **time** for the video you want to view. The maximum allowed is 1 hour. Therefore you may stream video events that occurred on the same date and for a maximum of one hour.
2. From the left-hand pane, select a camera then drop it into the right pane. It plays for the time specified in the start and end time. Use the controls in the lower part of the Playback window (right pane) to play, fast forward, rewind or stop the video playback.
 - ① **Note:** If the requested video is not available, a message appears in the lower part of the window; the Snap and Export buttons remain disabled. If a video is available, the message Requesting video is displayed.
 - **Snap** : copy the displayed image and save it in the \tmp\image folder and use it as a still image representing the video sequence. Later, the snapped image will automatically appear in the View exported video when browsing the exported videos. It is recommended to add a comment to the snapped image; the comment will appear next to the image.
 - **Export** : export the video clip for future usage

3. To save a specific video image, click the **Snap** button.
4. Accept the default name or enter a specific name for the video recording. The video recording is saved in: Program files\Kantech\Server_SE\Tmp\Image. The video image can then be viewed using a Windows® image viewer such as Paint. Simply, double-click the video image to view it.
 - ① **Note:** For the TVR II, the video sequence can only be played forward. That is why the slider can be moved to the right side only. Also, a new button has been added to jump 30 seconds before the beginning of the current sequence.

Video server configuration

A video server is connected to EntraPass through a specific IP address. The video server captures, stores and distributes video data to the EntraPass desktops for monitoring and surveillance purposes. Video data can then be accessed by any EntraPass workstation (with appropriate permission) through the network. To use the video feature in EntraPass, the video server must be identified to EntraPass. To ensure that the video server is identified to EntraPass, complete the following steps:

- Define the video server communication settings.
- Specify video parameters including the number of cameras connected to the server.
- Set communication delays.

Defining the video server communication settings

1. On the EntraPass workstation, click the **Video** tab, and click **Video server**.
2. From the **Video server** list, select the server that you want to configure, or to add a new server, click the **New** icon on the toolbar.
3. In the **English** field, enter a descriptive name for the server. Enter a name in the other language field if the application runs in two languages.
4. On the **General** tab, from the **Video Server type** list, select the digital video recorder (DVR) type for the video server you are configuring.
 - ① **Note:** EntraPass supports the following integrations:

Table 36: American Dynamics models

Name	Model	Maximum number
Intellex	DVMS8000	8 cameras
Intellex	DVMS1600	16 cameras
Intellex IP		16 network video streams
Intellex Ultra		16 channels
Intellex LT-4		4 channels
Intellex LT-8		8 channels
Intellex LT-16		16 channels
AD-TVR-04	ADTVR04050	4 video channels
AD-TVR-04	ADTVR04100	4 video channels
AD-TVR-08	ADTVR08100	8 video channels
AD-TVR-08	ADTVR08200	8 video channels
AD-TVR-16	ADTVR16050	16 video channels

Table 36: American Dynamics models

Name	Model	Maximum number
AD-TV-16	ADTVR16100	16 video channels
AD-TV-16	ADTVR16200	16 video channels
AD-TV-16	ADTVR16400	16 video channels
AD-TV-VS		4 video inputs
AD-HDVR-16		16 cameras
AD-HDVR-32		32 cameras

Table 37: Exacq models

Name	Maximum number of IP cameras
Exacq-8	8
Exacq-16	16
Exacq-32	32
Exacq-48	48
Exacq-64	64
Exacq-256	256

5. To register the video server as online in EntraPass, select the **Online** check box.
 - If the server is offline for long periods, for example for maintenance, clear the **Online** check box. If you do not clear the check box, EntraPass continues to poll the video server and this may cause the system to hang.
6. In the **IP address** field, enter the static IP address of the video server. Ensure that the video server is set to a static IP address. For more information about the video server IP address, contact your network administrator.
7. In the **Domain name** field, enter the video server domain address.
8. In the **Web service port** field, enter a port number for **Video (Intellex only)**, **Communication (Intellex, HDVR and TVR II)**, and **Event (Intellex only)**. Ensure that the port number matches the port used by the DVR.
 - ⓘ **Note:** The video application uses transmission control protocol (TCP) port to communicate with EntraPass. Options displayed in the TCP port section depend on the device you are configuring. For details about ports and their settings, contact your network administrator or refer to the documentation provided with your DVR.
9. The **Secure Connection (HTTPS)** check box is selected by default for the primary and alternative IP addresses.
 - If the server cannot support HTTPS protocol, clear the **Secure Connection (HTTPS)** check box. A warning message appears: **Using a non-HTTPS protocol will make your system less secure. Are you sure?** Click **Yes** to change the protocol to HTTP.
 - ⓘ **Note:** To use HTTPS protocol, you require an SSL certificate. For more information, see Step 2 in the [Security hardening guide](#).
10. On the **Server Parameters** tab, select the **Bypass Ping for identification (Intellex only)** check box if you want to conserve bandwidth usage. If you do not select this option, the workstation continually polls for server identification.

11. If you want users to enter their credentials to access the video server, select the **Specify video server login (Intellex only)** check box. If this option is selected, the **Login** tab appears in the **Video Server** window.
12. To cancel all the messages coming from Intellex, select the **Bypass DVR Messages** check box.
13. In the **Video server parameters** area, complete the following steps:
 - In the **Number of cameras** field, enter the number of cameras that are connected to the video server or click **Import camera details**. If you click the button, EntraPass connects to the video server to retrieve the number of cameras and the default names for the cameras.
 - Specify the **Polling frequency (mm:ss)**. The polling frequency refers to the delay between two polls from the Kantech server to the video server. This operation is processed by the Kantech video server interface.
 - Specify the **Polls before Communication failure**. This refers to the number of unsuccessful polls before the video server is declared as offline. For example, if you enter 4 in this field, EntraPass attempts to connect to the video server four times before the video server is declared as offline.
 - Click the up and down arrows to specify the **Time zone adjustment** if the EntraPass server and the DVR server are not in the same time zone. The time zone adjustment refers to the time zone difference between the DVR server and the EntraPass server. Adjusting the time zone enables workstations to retrieve events generated by the DVR server at the EntraPass server's time.
 - Select the **Time for clock synchronization (Intellex only)** check box. The time synchronization refers to the time of the day when the video server synchronizes with the Kantech server for date and time. This operation is processed by the Kantech video server interface.
 - ① **Note:** The EntraPass server is the reference time source. The video server processes the time according to the EntraPass server's time. For example, if the EntraPass server's time is 3:00 and the video server's time is 2:00, the timezone adjustment data is -1 so that the video server can display the correct information about an event that occurred at a specific time.

Enhancing the Security of Video Servers

1. If your Intellex video server uses Policy Manager, EntraPass operators must use a domain name, a specific login and password to access the video server. On the **General** tab, select the **Specify Video server login** check box.
 - ① **Note:** Login name and password are mandatory if a HDVR or a TVR II video server type is used.

For details about the video server security parameters, contact the network administrator.
2. If the **Specify video server login** option is checked, the **Login** tab is displayed.
3. Enter the login data in the displayed fields:
 - **Domain name** : enter the domain name used by the Intellex Video server (**not used for HDVR and TVR II**) .
 - **Login name** : enter the login name used for accessing the video server.
 - **Password** : enter the password specific to the domain controller.

- **Password confirmation** : the password for confirmation must be identical to the password entered in the previous field. If you get an error message, make sure that the Caps Lock key is not activated. For a HDVR or a TVR II, it corresponds to the DVR server password.

Remote Video Connection

- IP address
- Domain name (from which the RemoteVideoProcess.exe will be executed)
- Communication port (port opened by the RemoteVideoProcess.exe application to monitor incoming requests from the EntraPass server)

❗ **Note:** The **RemoteVideoProcess.exe** is not accessible from the redundant server.

The **Video Viewer** option, accessible from the EntraPass installation process, must be used for the RemoteVideoProcess function to work.

Installation of the **Remote Video Connection** will add 128 new video servers.

Defining the EntraPass Video Vault

About this task:

- For details about installing EntraPass Video Vault, see [Adding System Components](#).
- For details about configuring the EntraPass Video Vault application, see .
- For details about using EntraPass Video Vault, see .

Result

Video triggers

Video triggers are system events that start or stop recording. Any event related to the selected component type can trigger recording including exception events originating from a video server. A source component must be specified for each type of triggering event. For example, the “door” component must be specified for the “Door forced” event message. There is no limit to the number of definable video triggers.

Defining Video Triggers

About this task:

The following information can be defined:

- A name in two languages
- The component type: type of component to be programmed for the trigger. Events are related to system components: gateway, connection, controller, etc.

Based on an event that occurred on the selected system component, the trigger will start or stop recording.

❗ **Note:** The list of parameters depends on the video server type connected to EntraPass. It can vary depending on server feature availability and decisions on subsequent implementation. All EntraPass events can be associated with the video trigger function.

1. From the Video toolbar, select the **Video trigger** button. The Video trigger window appears.
2. Click the new button (or select an existing trigger if you want to modify one). Assign a descriptive name to the trigger.

- ① **Note:** An alert message appears when you attempt to save before selecting the component type as well as the component for the trigger being defined.
- 3. From the **Component type** drop-down list, select the component that will trigger the recording event. It may be a door controller, for example.
- 4. As a trigger source you can select **Single** , **group** or **All components** from the component radio buttons.
- 5. Use the three-dots button to select a component.
- 6. From the **Trigger schedule** select a schedule for the trigger to be valid. If necessary, you can define a specific schedule for this trigger (**Definition** > **Schedule**). If there is no schedule selected for a trigger, the trigger will be disabled.
- 7. From the **Event category selection** , choose between the **EntraPass** or **Intrusion** groups of events from the drop-down list.
 - ① **Note:** This field is available only when an intrusion panel has been configured in the system.
- 8. Click on the **Events** tab and select events from the list.

Video Views Creation and Modification

Video presets and patterns enable users to perform automatic actions on domes. They are configured for view in the desktop dedicated to Video viewing. They enable to optimize the time dedicated to video viewing when displaying videos using pre-programmed views.

EntraPass enables users to define a wide variety of views, depending on their needs:

- Single camera
- Multiple cameras
- Multiple graphics and cameras
- Server-specific view: these are created by dragging a server into the display
- Multiple video servers: depending on their needs, EntraPass users can create views from multiple video servers.

Modifying a Video View

1. From the Video view window, click the **Modify Video view components** button to edit or create content for the Video view desktop.
2. From the left-hand panes, select a camera, a camera preset, or a camera pattern, then drag it into a right-hand pane cell. A camera is identified by its name and corresponding button. A preset is identified by the camera name and the preset name.
 - ① **Note:** A specific camera can appear in more than one cell; in this case, the **Enable video sequence** option must be enabled. A graphic can appear only in one cell.

A Video view may only includes cameras of the same DVR type (HDVR, Intellex, TVR).

The maximum number of TVR available is 2 .
3. Select the camera layout you want by clicking on the corresponding button in the upper part of the right pane to specify the number of images you want to display:
 - Click 1 X 1 to display 1 image
 - Click 2 X 2 to display 4 images
 - Click 3 X 3 to display 9 images

- Click 4 X 4 to display 16 images.
- ① **Note:** You can create a view by dragging a video server into the display. This view will contain all cameras from this specific server.

The number of images displayed influence the speed of the network bandwidth. For example, if you are displaying 4X4 images, the network bandwidth will be slower than when you are displaying a 1X1 image.

4. Click the **Test** button to view the result of the selection. The displayed Video view appears in the Video desktop for video monitoring and surveillance (**Desktops** > Desktop dedicated to video monitoring).



- ① **Note:** To delete a camera from a cell, right-click it, then select Delete from the shortcut menu.

5. Click the **Close** button (bottom left or the "X" top right) to close the Video test window.

Video views definition

After the video server is defined and its cameras are identified, operators can define video views that are displayed in the video desktop for viewing and monitoring purposes. EntraPass operators can then call previously configured presets and patterns.

EntraPass Devices (workstations, gateways, sites, controllers, etc.) can be associated with video views. Later, the video view can be selected in the components definition to display the component in the video view.

Defining video view general parameters

1. Click the **Video** tab and click **Video view**. The Video View window appears with the **General** tab enabled.
2. In the **Video view** window, from the **Video view** list, select a video view (or click the **New** icon to create one), and enter a name for the video view. If the system is running in two languages, enter a name in each language.
3. From the **Video server** list, select a video server type (Intellex, HDVR or TVR).

4. From the **Default size on video** list, select an appropriate size for the image to display. You can select a smaller size if you have to display the video window with another window.
 - **Large:** 1024x768
 - **Medium:** 800x600
 - **Small:** 640x480
 - **Tiny:** 400x300
 - **Last used:** displays the size that was previously displayed in the video desktop.
5. From the **Default size on graphic** list, select a size for the image to display on the system graphics (Large, Medium, Small, Tiny, Last used).
6. Specify the **Refresh rate percentage** using the **Up/down** arrows.

① **Note:** The **Refresh Rate Percentage** is related to the image compression/quality. The image quality impacts the system performance: the higher the quality, the lower the compression and the lower the system performance. If you set the Refresh Rate to high (> 80), the compression is low. As result, the application uses a larger network bandwidth. This may result in a slower process. The following table shows the recommended options.

Table 38: Image quality options

Quality	Description	Result
80 and over	Super quality	Images are recorded at the highest image quality, using the lowest level of compression. This setting requires the highest amount of storage space and network bandwidth.
50	Normal, Default	Images are recorded at normal image quality. This setting provides a balance between compression and storage space requirements. The smaller, more subtle changes between images are ignored.
40	Low quality	Images are recorded at low image quality, using the highest level of compression. This setting requires the lowest amount of storage space and network bandwidth.

7. Select the **Re-initialize video view delay (mm:ss)** option if you want the system to refresh the displayed image. If you select this option, the displayed image updates automatically when the specified delay elapses. This feature is useful if the defined camera view includes patterns or presets.
8. In the **Video control** section, select the appropriate options:
 - **Show overlay Intellex and HDVR only):** select this option if you want the camera identification (camera name and server) to appear in the video desktop.
 - **Show camera control:** select this option for use with dome cameras. Selecting this option allows operators to control a dome camera. It is not available with fixed cameras.
 - **Show metrics (Intellex only):** select this option to enable the system to display the number of frames per second (Fps) and the number of bits per seconds (Bps) for the selected camera. The information appears in the upper section of the video window (and in the video desktop).
 - **Auto-hide text (Intellex only):** if you select this option, the system does not display the information related to a camera.

- **Enable image zoom (Intellex only):** select this option if you want to display the zoom value for the selected camera.
9. Select the **Enable video pattern** check box to alternate video images in the video window. If you have defined a 2X2 view, the video pattern is composed of four images alternating in the video display according to the delay specified in the **Camera display** delay field. If you do not select this option, the video view displays all the cameras simultaneously.
 - ⓘ **Note:** The enable video pattern section is enabled once components are assigned to the video view.
 10. Select the **Delay before launching sequence (m:ss)** check box to specify the transition delay before the images start alternating in the Video window.
 11. Specify the **Display delays for Cameras, Presets, Patterns and Graphics.**
 - ⓘ **Note:** These delays indicate the time interval during which a video or graphic appears in the video display before it is replaced by another. See the following table for the minimum or default delays. The maximum delay is 9:59 seconds.

Table 39: Display delays default times

Delay	Minimum (seconds)
Delay before launching sequence	2 seconds
Camera display delay	3 seconds
Preset display delay	5 seconds
Pattern display delay	10 seconds
Graphic display delay	5 seconds

12. Click the **Details** tab to view data about the selected view: video servers, cameras, and when applicable, camera presets and patterns.

System

Use this section to create, define, and modify an operator's security level. For more information, see [Security level definition](#). Before defining operators, a system administrator must grant or deny operators access to system components. For more information, see [Workspace Definition](#).

Use associations to logically group devices and use commissioning to perform a series of tests to verify correct installation of each device. To define how EntraPass processes each event, see [Event Parameters Definition](#).

Database Structure Definition

Use the Database structure menu to browse the system database. It will display the entire structure of the database including:

- The physical components (EntraPass applications, sites, controllers, doors, relays, inputs and auxiliary outputs), and
- The logical components (cards, schedules, reports, instructions, groups, etc.).

Operators can edit or sort the system components from the Database structure window.

Viewing the Database Components

1. From the **System** toolbar, click on the **Database structure** button.
 - ① **Note:** If the Video feature is enabled in EntraPass, its components will appear in the Database explorer.
2. To display only the **Physical components**, select the physical components button. When selected, only the physical components of the database will be displayed.
 - ① **Note:** By default, physical components are always displayed.
3. To display **Logical components**, select the logical components button. When selected, logical components of the database will be displayed along with the physical components.
4. You may use the **Refresh** button to refresh the display in order to obtain the most recent information saved in the server database.
5. You may select the **Full Expand** button to fully expand the tree structure and view all sub-components of a selected component. For example, if you use this button on a controller, the system will display the controller components (doors, inputs, relays) on the right-hand side of the window.
6. You may select the **Full Collapse** button to fully collapse the tree structure and hide all sub-components of a selected component.
7. To edit a component, right-click it and select **Edit** from the contextual menu. The system will display the corresponding definition window so you can modify its parameters.
8. To sort the component, right click the component, then select **Sorted by** from the contextual menu. Sort the components listed in the right-hand pane of the window for an easier find. You can sort by **component** or **name**.
 - ① **Note:** You can define how the component's physical address will be displayed. This will also affect how components will be sorted. For more on this, see [Security Level Definition](#).

Event Parameters Definition

Defining event parameters is one of the most powerful features of the system. For each event, you can determine how it will be processed by the system. For example, you can:

- Direct events to output devices (such as Messages desktop and log printer),
- Define schedules that will allow, for example, to send alarms only at night,

There are more than 400 system events. The most common among them are:

- Access granted
- Input in alarm
- Card modified by operator, etc.

Events are associated with system components, such as doors, controllers, etc. Every event message is associated with a system component and output devices or group of devices. For example, an Access granted event can be defined for each individual door or by default it can be defined for all doors. This flexibility allows for different actions or responses on a door-by-door basis.

Defining events parameters

About this task:

The **Event parameters** dialog allows you to customize your system events. In fact, you can specify events that will be printed automatically or acknowledged during a specific schedule. You can also send instructions to inform an operator of an alarm through other media (i.e.: email, pager, etc.) when alarms are generated. By default, all events are defined to be displayed on all the Message desktops . You can customize your system events by manually associating events and components. There are two types of associations: manual and default association.

- **Default associations:** Default associations are preset in the system. By default all events messages occur on all components associated with them and are displayed in messages desktops. You can keep the default settings.

Table 40: Default associations

Default associations		Comments
Component	Workstation	
Default	Default	All events originating from all components are sent to all workstations
Default	(Specific) Workstation 2	All events originating from all components are sent to only Workstation 2
Specific (Door 1)	Default	Only events originating from Door 1 are sent to all workstations

- **Manual associations:** Manual associations are set up by the administrator and allow you to send messages to message desktops for specific events. The following table shows the three types of manual associations.

① **Note:** Manual associations take priority over default associations. When you define a manual association between an event message and a component, the default association is ignored. It can be restored by deleting the manual association. Manual associations should be used with caution.

1. Click the **System** tab, and click **Event parameters**.
2. From the **Event** list, select an event for which you want to define settings.

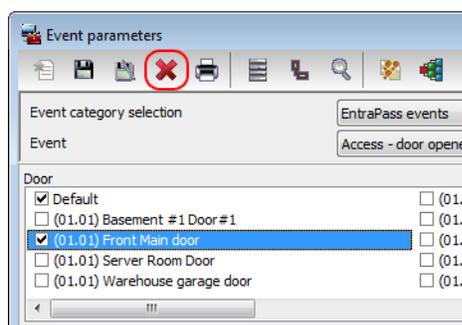
- ① **Note:** By default, all events are defined to be sent to the Messages desktop with an always valid schedule. It is recommended to keep default settings especially when these settings apply to all events . However, you may decide to create manual associations if you want a specific event to generate a specific message or alarm.
- In the **Display settings** section, specify the display options: by default, all events are programmed to be displayed in the Messages desktop window , and are assigned an **Always valid** schedule.
 - From the **Print** pop-up menu, select a schedule to determine when the event will be printed. When this schedule is valid, the selected event will be printed
 - From the **colour** drop-down list, select the colour that will be used to display the event in the Message desktop. The default colours are set according to the following convention:
 - **Red** for alarm events;
 - **Green** for elements returning to a normal condition;
 - **Yellow** for warnings and errors;
 - **Blue** for other events.
 - In the **Alarm Settings** section, specify:
 - **Alarm (schedule)**—When this schedule is valid, the event will be sent to the Alarms Desktop and will require an acknowledgement from the operator.
 - **Instructions** —Select the instruction that will be sent to the Instruction desktop with the event to be acknowledged. Instructions will only be sent when the alarm schedule is valid.
 - Assign the **Priority** level to the event using the slider. This determines the sequence in which alarm messages will be displayed to the operator in the alarm queue. The priorities are preset to the most common values (0 = higher, 9 = lower).

Viewing Default Parameters

- From the component pane select a component .
- Click on the **View default parameters** button in the toolbar to view the default parameters message box. It will show if the event parameters were set by default or manually.
- Click again on the **View default parameters** button to close the message box.

Deleting and Restoring Associations

- In the **Event parameters** window, select the category and then the event you want to modify from the **Event** drop-down list.



Printing Event Parameters

About this task:

EntraPass allows you to print events parameters (alarm and display settings) for the selected events.

1. From the **Event parameters** window, select the **Printer** button.
2. In the **Select events** pane, select the events to be included in your printout or click on the **Select all** button to select all the events from the displayed list.
3. In the **Select workstations** pane select the EntraPass workstation to be included in your printout or click on the **Select all** button to select all the EntraPass workstations from the displayed list.
 - **Print empty fields** : If selected, the system will print the fields that do not contain any information. Only the field title will be printed.
 - **Print with default values** : If selected, the system will print the default associations as well as manual associations.
 - ① **Note:** If you do not select this field, only manual associations (not involving defaults) will be displayed in the report. If you do not have manual associations (component x with event y), the report will be empty.
 - **Print components reference** : If selected, the system will print the component physical address next to the component identification.
 - Use the **Font** button to choose a different font (and font size) for your report.
 - Select the **Preview** button before printing, if desired.

Instructions definition

This menu is used to define instructions that must be assigned to events. When an alarm is generated, the instruction will display in the Instruction window (Desktop menu) for acknowledgement. Usually, each line will contain a single directive; the response instructions will be composed of several directives (lines). This allows for greater flexibility when modifications are required.

Defining an Instruction

1. From the **Definition** main window, select the **Instruction** button.
2. To create a new instruction, click the **New** button. To modify an existing instruction, select one from the **Instruction** drop-down list.
3. Enter the instruction name/identification in the language section.
4. If the **Mandatory alarm comment** checkbox selected, the operator will have to add a comment in order to mark the alarm as “acknowledged”.
5. Select an appropriate language tab to enter the instruction. Instructions are entered in one selected language.
 - ① **Note:** You may enter up to 511 characters (including spaces) per instruction.
6. To assign instructions to events, see [Trigger and Alarm](#).

Message Filters Definition

The Message filter feature allows you to define filters for the Filtered Messages desktop. These filters are used to view a specific selection of events. There are many pre-defined filters such as:

access events, controller events, etc. These filters can be accessed by all operators. You can select or create filters directly from the “Filtered Messages” desktop or from the Message Filters menu.

① **Note:** For more information, see [Filtered Messages Desktop](#).

Defining Event for a Message Filter

1. In the System main window, select the **Message Filter** button. The Message filter window appears.
2. From the **Message filter** drop-down list, select an event message type (for example: Door events or Relay events) for which you want to define a filter. You may also click the **New** button to create your own filter.
3. From the **Event list**, select the events that must appear in the selected filter. You may check the **Select all events** option, if you do not want to select specific events. For example, for a Door events type filter, you may decide to include all events or select the **Access-denied** events.
4. Select the **Door filters** tab to filter doors that will send messages to the Filtered messages desktop. Additionally, when “Access events” are filtered, the card holder’s picture can be displayed with the event (if pictures are assigned to cardholders). You can select which doors will display the cardholder picture when the event for this door is generated.
5. Check the **All doors** option or choose specific doors for which the cardholders picture will be displayed an door event.
6. From the **Door filter type**, select the filter that will be used for filtering Door events:
 - **Door filter** : Only events related to the selected doors will be sent to the Filtered Message desktop
 - **Pictures filter** : Cardholders pictures related to cards presented to the selected doors will be sent to the Filtered Message desktop
 - **Filters for doors and pictures** : Door events related to the selected doors as well as cardholders pictures that triggered door events on the selected doors will be sent to the Filtered Message desktop.
7. Select the **Gateway and connection** tab to filter gateways and sites events sent to the Filtered Messages desktop.
8. Check the **All events** option to receive events originating from the components of the sites. You may select the connection that will send events to be displayed.

① **Note:** When you use filters, the system retrieves events that are already displayed in your Message desktop and sorts these events according to the settings of the selected filter.
9. Select the **Special filter** tab to filter events according to their type.
 - **Picture** : all events associated with a card holder’s picture will be displayed in the Filtered Message desktop.
 - **Fail-soft** : all events generated by a controller in stand-alone mode following a communication failure will be sent to the Filtered Message desktop. Fail-soft messages are identified with a + sign in the Filtered Message desktop (and Message Desktop) when this option is select when defining the Messages list properties (**Desktop > Message Desktop > right-click an event > Properties**).
 - **Video** : all video record events will be sent to the Filtered Messages desktop.

- ① **Note:** When you use filters, the system retrieves events that are already displayed in your Message desktop and filters these events according to the settings of the selected filter.

Operators definition

Use the Operator menu to define system operators and to determine their security level and privileges. An operator is responsible for issuing cards, carrying out manual operations on system components, requesting reports, and arming the system. For security reasons, each operator accessing the system database should have his/her profile defined to ensure that all the actions performed in the system will be traceable. You need to create at least one operator account or modify the pre-created accounts for the operator to use and operate EntraPass and to receive event messages.

There is one default operator created in the system:

Installer: full access to view, modify, delete, and print components. The default username is `kantech`. You must create a new password. For information about creating passwords, see [Password rules](#).

- ① **Note:** You can define operators using the default operator or you can create new operators. For information about operators' security levels, see [Security Level Definition](#).

Creating or editing an operator

1. Click the **System** tab, and click **Operator**.
 - ① **Note:** The upper right-hand corner shows the last time the operator logged on.
2. In the **Operator** window, enter the operator **Name**. The operator name can have a maximum of 40 alphanumeric characters including spaces. The operator name displays in the desktop message lists and the reports.
3. **Optional:** Enter the operator's **email**.
4. Enter the operator **Login name**. This descriptive name can have 6 to 20 alphanumeric characters including spaces.
 - ① **Note:** On login, operators must enter their login name and password to validate their access. The login name is displayed in the events details when operator events are generated, for example, manual operation, login, and logout.
5. In the **Password** field, enter a new password. For information about creating passwords, see [Password rules](#).
6. In the **Password Confirmation** field, re-enter the new password. If this password is not identical to the one entered in the password field, an error message appears.
7. In the **Language** section, select the display language for this operator. If you change the display language, it is effective only when the operator logs out and logs on again. When an operator logs out and exits an application, the next operator who logs on to the application sees the startup window in the language of the last operator.
8. In the **Privileges** section:
 - Select the **Auto acknowledge** option. If this option is selected, the **Manual** button is added to the Alarms desktop (see [Alarms Desktop](#)). The operator can decide to manually or automatically acknowledge events. This is an operator privilege.

- Automatic video display: this option tells the system to automatically display video clips on an alarm event for the operator who is logged on. If the Alarm desktop is configured and open, the video displays automatically. If the alarm desktop is not open, the system checks the video display settings for this workstation: **Devices > Messages 2 of 2, Disable autodisplay of video views**, if this option is not selected, the system checks the video view settings for this operator: **Operator > Automatic video display checkbox**.
 - ① **Note:** The **Override workstation workspace message** option is a privilege granted to operators. It allows them to receive all events regardless of which workstation they are logged on to. If this option is selected and **Apply operator parameters for messages** and **Apply operator parameters for alarms options of the Workstation definition** are also selected, then the basic configuration is ignored and events are filtered according to the security level of the operator who is currently logged on to the workstation.
 - Select **Filter reports using workspace** to issue all requested custom and in/out reports according to the operator's permissions as defined in their workspace.
 - ① **Note:** A selected component in the workspace must have its parent component selected as well, otherwise it does not display in the report even if the **Filter reports using workspace** option is selected.
9. Click the **Security tab** to set operator access parameters.
 10. From the **Login Schedule** list, select the schedule when the operator can log on to the system. You can create a specific schedule for an operator, **Definition > Schedule**, and then assign the schedule to the operator.
 - ① **Note:** To allow an operator to log on to different EntraPass applications or to the EntraPass Server, select **Allow login on application** and **Allow login on server** (System > Security Level > Miscellaneous tab).
 11. From the **Security Level** list, select a security level that determines which components an operator has access to. A security level consists of menus through which an operator can perform tasks such as modify the database, create components, and view system components and events.
 - ① **Note:** You can define up to 250 custom security levels. EntraPass offers three built-in security levels, Installer, Administrator and Guard. The default configuration for an installer permits access to all system components. The installer must program other security levels to limit operator access to menu commands or options.
 12. From the **Workspace** list, select a workspace that determines which physical components, including desktop display and card fields, the operator can access for day to day operations.
 - ① **Note:** EntraPass offers one built-in installer workspace when you install EntraPass for the first time.
 13. If you select the **Disable synchronization** check box, [Single Sign On](#) is disabled and Active directory ceases to update any data. The operator still exists in EntraPass but is not updated by the synchronization.
 14. Click the **Save** icon.

Security level definition

Security level refers to the permissions granted to an operator to access EntraPass logical components including desktops and card information, as well as to perform some actions on those components.

- ① **Note:** You have to program the appropriate security levels if you want to limit operator access to commands or options on the system menu.

You can customize an operator security level; the system allows you to create up to 250 security levels. Each operator has a separate logon name, password, and a corresponding security level. The password is case sensitive. There is one operator and security level pre-configured in EntraPass.

Installer

- **Logon name:** kantech.
- **Password:** You must create a new password. For information about creating new passwords, see [Password rules](#).
- **Security level:** By default, a user that is defined as an installer has full access to all the system menus, can read and edit system components, and has unrestricted access to the system.

Creating and modifying operator security levels

About this task:

Assigning security levels is critical to the system. If a security level is given full access to a system menu, operators who are assigned this security level are able to modify system parameters. Ensure that each operator is given the security level corresponding to their tasks.

Items in the security level window are presented in a root tree with all components available for selection. This structure makes it possible to target specific components when granting security levels for manual operations. Each security level is identified by a colour: full access (green), read-only (yellow) and no access (red). The security manager or an operator with appropriate permissions can easily change or assign a component to a lower security level by double clicking an item until it changes to the desired colour code.

- ① **Note:** Operators cannot see items that they have not been given access to.

1. On the **System** tab, click **Security level**.
2. In the **Security level** window, from the list, select the **Security level** you want to modify.
 - To create a new security level, click the **New** icon and enter the necessary information in the language section.
3. Select a system tab: **Workstation**, **EntraPass Web**, **EntraPass Go** or **Smartlink API**.
4. Double-click an item until it reaches the desired status: **No access** (red) , **Read-only** (yellow), or **Full access** (green) . You can also check the appropriate items on the left to be more specific about the allowed rights.

- ① **Note:** A user with read-only rights cannot print components in EntraPass.

Defining Login Options for an Operator

About this task:

The **Miscellaneous** tab allows you to define operator login and system display options:

- Operator login options: you can allow or restrict an operator to log in an EntraPass workstation.
- Active windows that can be kept on the desktop: EntraPass allows operators to keep two active windows on the desktop.
- Component display options: components can be displayed with or without their physical address. The physical address can appear on the left or right of the component name.

1. Select the **Miscellaneous** tab to define parameters for the security level being defined.
2. In the **Login restrictions** section, select the appropriate login options:
 - Select **Allow login on server** to allow the operator to log in to the EntraPass server (Primary or Redundant).
 - Select **Allow login on workstation** to allow the operator to log in to any application in the system. the system.
3. The **Keep on application desktop** section allows users to increase the number of active windows on the desktop. In fact, operators can open two windows at the same time. EntraPass windows are classified in two categories:
 - **Configuration screen** : this group includes all the menus that allow an operator to program the system. This group includes such menu items as: **User** menu (card, Badging, card access group, access level, Definition menu; **Group** menu; **Devices** menu; **System** menu; Custom and **In/Out reports** .
 - **Operation screen** : this group includes all the Operation menu items and the Video playback option.
4. In the **Components physical address** section, specify how the component's physical address will be displayed. This will also affect how components will be sorted.
 - **Display on left** —If selected, components will be sorted by their address (i.e. 01.01.01 Controller xyz).
 - **Display on right** —If selected, components will be sorted by their component name (i.e. Controller xyz 01.01.01).
 - **No display** —If selected, the address will not be displayed (i.e. Controller xyz) and components will be sorted by name.
5. In the **Miscellaneous** section:
 - Hide card holder pin content: If selected, it offers you the ability to hide the card holder pin content from the view.
 - Hide Camera from video view: If you are using the Video feature, EntraPass enables you to deny viewing permission to a specified security level.
 - ⓘ **Note:** Checking the Hide camera from video view option tells the system to verify access permission to cameras before loading a video view. For example, if the selected operator's security level has access to a video server but not to all cameras defined in the video server and has access to the selected video view, the system will hide the camera that has been un-selected when assigning permission to the video server. For details, see [Video Server Configuration](#).

Hiding Card Information

About this task:

EntraPass offers you the ability to hide card information fields from view. For example, you can decide that a certain security level (Guard for example) can view or modify card information field. To do so, select the security level, then under the **Card database fields** tab, check the box that corresponds to the fields you want to hide.

1. Select the **Card database fields** tab to limit the number of card fields that are visible to the operator who is assigned this security level.
2. Select the fields (either individually or in groups) that will be hidden to the selected security level. Click on a field box repeatedly to scroll through the different status (Normal, Hide, or Read only).

Assigning Video Custom Buttons

About this task:

EntraPass offers you the ability to customize five buttons for use in the Video interface. System installers and administrators can customize buttons for use by operators in the Video desktop. For example, a button customized for Playback with fixed delay with specific pre-record and record delays and assigned to a specific Security level will enable operators to trigger the actions related to the specific button. If you associate a custom button with a specific task (play back or generating video events, additional buttons are added to the Video desktop (**Desktops** > Desktop dedicated to video viewing)

1. From the **Security level** drop-down list, select the security level you want to define/edit.
2. Select the **Video custom button** tab to assign permission to this operator. The following permission can be granted:
 - Playback with fixed delay
 - Playback with custom delay
 - Generate recording event with fixed parameters
 - Generate recording event with custom parameters.
3. Select the option you want to assign to the operator being modified.
 - ① **Note:** Pressing the button associated with Playback with fixed delay will start a play back with the specified duration. This includes the pre-alarm recording time and the maximum recording time.

Workspace Definition

Workspaces allow System Administrators to grant or deny operators access to system physical components such as gateways, sites, relays, etc. Workspaces are defined according to the type of tasks the operators will be allowed to perform in EntraPass; creating and editing items, viewing components, printing lists or reports, etc. Operators who are assigned a given workspace will not be able to see nor modify EntraPass components that are not selected in that workspace definition. Workspaces can also be used by operators to discriminate the information they want to view on screen. For example, a System Administrator who has access to all components of the EntraPass system may want to view only specific components. In that case, the System Administrator can define a specific workspace for that environment and work within those parameters.

- ① **Note:** There is only one default Installer workspace created when you install EntraPass for the first time.

Workspace Filtering

- **Hierarchical filter** : items in a list will be displayed according to the item selected in the level above. For example, when selecting a specific site (parent), the system will automatically adjust itself to display only the corresponding controllers (children). And if you select a specific controller (parent), the system will adjust itself to display only the corresponding doors (children), and so on.
 - ① **Note:** If a tab is empty, verify that you have selected components from its parent.
- Once you have selected the **Hierarchical** filtering mode, it will remain activated under all tabs.

Defining Gateways and Sites

1. Move to the **Gateway and Site** tab to select the list of gateways and sites that will be available to an operator who is assigned the workspace.
 - Select **All gateways and sites** if you want all the displayed gateways and sites to be available to the operator assigned to this workspace.
 - You can also select individual gateways and sites from the displayed list.
2. Save your modifications.

Defining Schedules

1. Move to the **Schedule** tab to select the list of schedules that will be available to an operator.
 - Select **All schedules** if you want all the displayed schedules to be available to the operator who is assigned this workspace.
 - You can also select individual schedules from the displayed list.
2. Save your modifications.

Defining Controllers

1. Move to the **Controller** tab to select the list of controllers that will be available to an operator who is assigned the workspace.
 - Select **All controllers** if you want all the displayed controllers to be available to the operator who is assigned this workspace.
 - You can also select individual controllers from the displayed list.
2. Save your modifications.
 - ① **Note:** When you select a controller, you also select all the components defined “under” or related to the controller (i.e. doors, relays, inputs, outputs). Make sure that you have also selected the gateway (Gateway and Site tab) for which the selected controller is defined. If the gateway is not selected, the controller will not be available even if it is selected in the list.

Defining Doors

1. Move to the **Door** tab to select the list of doors that will be available to an operator who is assigned this workspace.
 - Select **All doors** if you want all the displayed doors to be available to the operator who is assigned this workspace.
 - You can also select individual doors from the displayed list.
2. Save your modifications.

Defining Relays

1. Move to the **Relay** tab to select the list of relays that will be available to an operator who is assigned the workspace.
 - Select **All relays** if you want all the displayed doors to be available to the operator assigned this workspace.
 - You can also select individual relays from the displayed list.
2. Save your modifications.

Defining Inputs

1. Move to the **Input** tab to select the list of inputs that will be available to an operator who is assigned the selected workspace.
 - Select All inputs if you want all the displayed inputs to be available to the operator assigned this workspace.
 - You can also select individual inputs from the displayed list.
2. Save your modifications.

Defining Access Levels

About this task:

Associating specific access levels to a workspace allows you to control the access levels that an operator can define or modify. For example, a security guard may have the right to issue cards that are valid for a given door or access level only.

1. Move to the **Access level** tab to select the list of access levels that will be available to an operator who is assigned this workspace.
 - Select **All access levels** if you want all the displayed access levels to be available to an operator who is assigned this workspace.
 - You can also select individual access levels from the displayed list.
2. Save your modifications.
 - ⓘ **Note:** Make sure that you have also selected the gateway for which the selected access level is defined. If the gateway is not selected, the access level will not be available even if it is selected in the list.

Defining Alarm Systems

About this task:

Associating alarm systems to a workspace allows you to control the alarm systems that an operator can define or modify.

1. Move to the **Alarm system** tab to select the list of alarm systems that will be available to an operator who is assigned this workspace.
 - Select **All alarm systems** if you want all the alarm systems to be available to the operator assigned this workspace.
 - You can also select individual alarm systems from the displayed list.
2. Save your modifications.

Defining Card Filters

About this task:

Associating card filters to a workspace allows you to control the card filters that an operator can define or modify.

1. Move to the **Card Filter** tab to select the list of card filters that will be available to an operator who is assigned this workspace.
 - Select **All cards filter** if you want all the card filters to be available to the operator assigned this workspace.
 - You can also select individual card filters from the displayed list.
2. Save your modifications.

Defining Reports

About this task:

This feature gives operators access to specific reports according to their workspace. For example, a System Administrator may have access to all the reports that can be generated whereas the Guards' Supervisor may only have access to all Guard Tour related reports. The reports will be generated from the **Archived Message list** on the workstation desktop. Once the reports have been assigned to workspaces, operators will only have access to reports that correspond to their workspace.

1. Move to the **Report** tab to select the list of reports that will be available to an operator who is assigned this workspace.
 - Select **All reports** if you want all the displayed reports to be available to the operator who is assigned this workspace.
 - You can also select individual reports from the displayed list.
2. Save your modifications.

Defining Graphics

1. Move to the **Graphic** tab to select the list of graphics that will be available to an operator who is assigned the workspace.
 - Select **All graphics** if you want all the displayed graphics to be available to the operator assigned this workspace.
 - You can also select individual graphics from the displayed list.

2. Save your modifications.

Defining Operators

About this task:

For security reasons, an operator can see and change another operator's rights. Use the Operator tab to limit the possibility for an operator to see, edit or delete another operator.

1. Move to the Operator tab to select the list of operators that will be available to an operator who is assigned the workspace.
 - Select All operators or individual operators from the displayed list.
2. Save your modifications.

Defining Badge Layouts

1. Use the Badge Layout tab to determine which badge layout will be available for a given operator who is assigned the workspace.
2. Move to the Badge Layout tab.
 - Select All badge layout or individual badge layouts from the displayed list.
3. Save your modifications.

Defining Workspaces

About this task:

This feature gives operators access to information that pertains to specific workspaces according to other operators workspaces. For example, Guards in the system may have a workspace assigned to them according to the area they are patrolling and the type of information they can view and edit in EntraPass. The Guard's Supervisor, however, must have access the information available to all the Guards working in his department. In that case the list of workspaces for the Supervisor will contain all the Guards' workspaces defined in EntraPass.

1. Move to the **Workspace** tab to select the list of workspaces that will be available to an operator who is assigned the selected workspace.
 - Select **All workspaces** if you want all of them to be available to the operator who is assigned this workspace.
 - You can also select individual workspaces from the displayed list.
2. Save your modifications.

Specifying Security Level

About this task:

The Security level tab in the workspace only limits the operators to select which security levels they can assign when creating/modifying operators.

1. Move to the **Security level** tab to select the security level (s) that you want to assign that workspace. If you must create a new security level, see [Security Level Definition](#).
 - Select **All security levels** if you want to assign them all to that workspace.
 - You can also select individual security level from the displayed list.

2. **Save** your modifications.

Defining Video Servers

About this task:

The video server list allows you to assign or limit operator access to specific video servers and cameras. For example, even if a workspace level allows access to a video server, you still have the ability to restrict access to a specific camera for that workspace. This feature makes it easier to define or modify permission for accessing a video server, a video view or other video menu items.

1. Move to the **Video server** tab to select the list of video servers that will be available to an operator who is assigned the selected workspace.
 - Select **All video servers** if you want all of them to be available to the operator who is assigned this workspace.
 - You can also select individual video servers from the displayed list.
2. Save your modifications.
 - ① **Note:** To filter video views available to an operator, the operator's workspace must have access permission to the video server associated with this specific video view. For example, if operators are granted access permission to a video view but their workspace definition does not give them access to the video server where the video view is defined, the video view will not be available to operators with this workspace.

Defining Cameras

1. Go to the **Camera** tab to select the list of cameras available to an operator who is assigned the selected workspace.
 - Select **All cameras** if you want all the cameras to be available to the operator who is assigned this workspace.
 - You can also select specific cameras from the displayed list.
2. Save your modifications.

Defining Video Views

1. Move to the **Video views** tab to select the list of video views that will be available to an operator who is assigned the selected workspace.
 - Select **All video views** if you want all of them to be available to the operator who is assigned this workspace.
 - You can also select individual video views from the displayed list.
2. Save your modifications.

Defining Panels

About this task:

Associating panels to a workspace allows you to control the panels that an operator can define or modify.

1. Move to the **Panel** tab to select the list of panels that will be available to an operator who is assigned this workspace.
 - Select **All panels** if you want all the panels to be available to the operator assigned this workspace.
 - You can also select individual panels from the displayed list.
2. Save your modifications.

Defining Panel Components

About this task:

Associating panel components to a workspace allows you to control the panel components that an operator can define or modify.

1. Move to the **Panel Component** tab to select the list of panel components that will be available to an operator who is assigned this workspace.
 - Select **All panel components** if you want all the panel components to be available to the operator assigned this workspace.
 - You can also select individual panel components from the displayed list.
2. Save your modifications.

Defining events

About this task:

Use this feature to define the event messages that display to operators who are assigned the selected workspace.

1. Click the **Events** tab to select the list of events that you want to display on an operator workstation. These events display for operators who are assigned to the workspace.
2. Save your modifications.

Operators in Workspace

1. For security reasons, an operator can see and change another operator's rights. An additional tabulation was integrated under Workspace to limit the possibility for an operator to see, edit or delete another operator.
2. From the **System** menu, select **Workspace**.
3. Select an operator from the drop down list.
4. Select the **Operator** tab. You will see a list of operators who can be seen by the selected operator in the **Workspace** drop down.

Audit

About this task:

Use the **Audit** icon to view which operator made changes or deleted a component.

1. To open the **Audit** window, click the **System** function, and click **Audit**.
2. To select an operator, choose from the **Operator** list.

3. To select a component, choose from one of the following options in the **Component** list.

- **All**
- **Create**
- **Modify**
- **Delete**

4. In the **Start date and time** field, select a date and time to start the search.

5. In the **End date and time** field, select a date and time to end the search. Click **Search**.

The search results populate two tables, the first table contains the following component information:

- **Color coded column:** indicates if the component was created, modified, or deleted.
 - Green: **Create**
 - Blue: **Modify**
 - Red: **Delete**
- **Date and time:** the date and time the card was created, modified, or deleted.
- **Type:** the menu that was changed.
- **Component Type:** the component that was changed.
- **Count:** the number of fields that were changed.
- **Account column:** indicates, which system account the change occurred.

The second table contains the following component information:

- **Reference:** the item the change references.
- **Field name:** the name of the GUI field.
- **Old value:** the value before the change occurred.
- **New value:** the value when the system saved the change.
- **Field description:** description of the field name.

To access the following column options, click the **Hamburger** icon in the upper left table.

- **Data type:** the database data type:
 - **TimeStamp**
 - **Integer**
 - **Object**
 - **Components**
- **Table name:** the database table name.

ⓘ **Note:** Define the results based on the amount of records, or by date. For more information, see .

To access the context menu, select a table entry, and right-click. The following options are available:

- CSV export selected: export the selected entry of the card audit trail to a CSV format file.
- CSV export all: export the entire content of the card audit trail to a CSV format file.
- View old value: view a window with the value before the change.
- View old value parent: view a window of the parent of the selected component with the value before the change.
- View old value link: view a window representing a link to the component with the value before the change.
- View new value: view a window with the value after the change.
- View new value parent: view a window of the parent of the selected component with the value after change.
- View new value link: view a window representing a link to the component with the value after the change.

Reports

Use this section to view, and define reports, their formats, and schedules. You can use [Quick Report Definition](#) to create a report for a set number of specific events. If you want to configure the system to generate automatically a report on a specific recurring day, see [Custom reports definition](#).

You can choose to customize the report with an event filter, and component filter. To view archived reports saved in the system, use [Archive viewing](#). The [Card Use Report](#) creates reports that lists cardholders who did, or did not generate events for a specific period. To choose an output format, see defining a report output format, and for report schedules, see [Defining Automatic Report Schedules](#).

You can use [Requesting Reports](#) to request pre-defined historical reports, or card use reports that the system created using the [Custom reports definition](#). To view the status of all requested reports that are still pending, see [Report state](#). The [Report Log](#) is a detailed list of all history reports processed by the system. If you need to know who swiped their card at a reader or group of readers within a certain period, use [Roll Call Reports](#).

Archive viewing

The Archive feature enables users to view the reports that were defined and saved in the system. Operators can use it to view reports in any format, or to customize a report before printing it.

- ① **Note:** When you create a report (csv, db or dbf), the system automatically creates an associated rdf file. This rdf file is the one that is listed in the Archive window. When you click "Preview", the system automatically launches the appropriate program to view the report.

Displaying a Report

1. Under the **Report** toolbar, click the **Archive** button. The system displays the default destination folder. If the report was saved in a different folder, browse the disk, using the scroll-down arrow (bottom of the window) to the report you want to display.
2. Select the report you want to view. If there is a printer installed, the **Preview** button is enabled. It is used to preview the report before printing it.
 - ① **Note:** You must have a printer installed on your computer in order to preview or print reports. To setup a printer, click on Start > Settings > Printers > Add Printer . For more information, consult your system administrator.
3. Click the **Details** button to display information about the report. If you click the **Details** button, the Report details window appears, displaying information related to the selected report file such as the report file name, title, type, date, etc. The **Workspace as report filter** field indicates whether the report has been filtered according to the requester's workspace restrictions.
4. Click the **Details** button again to close the Report details window.
5. Click the **Preview** button to view the report in the system displays the Report preview window.

Previewing Reports

1. From the **Archive** window, select the report you want to view in the right-hand pane. If you select a report generated by Sybase, the Report Options window will display allowing you to customize your report before printing it.
 - ① **Note:** If you select a CSV type of report, the report will be generated in a WordPad window, in text format.

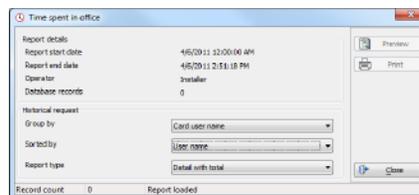
2. Define the filter options: enter a text string in the **Search description** field. The report will be sorted leaving only events containing the specified text string. You may refine your filter:
 - **Contains:** All events which contain the specified text will be included in the report.
 - **Starts with:** All events which start with the specified text will be included in the report.
 - **Ends with:** All events which end with the specified text will be included in the report.
 - **Exact words:** All events containing the exact specified text will be included in the report.

3. Click on the **Preview button** , select a **printer** from the drop-down list and click **OK** . The system displays the result of the report. From that window, you can:
 - Search text within the report
 - Print a report
 - Save a report in various formats such as PDF, RTF, HTML and TXT
 - Load a report (in a.QRP format)

4. Click **Properties** to access the Reports details window where detailed information is displayed:
 - **Report file name** : Displays the whole path where the report was saved as well as its name.
 - **Report title** : Displays the title of the report.
 - **Start date** : Reports are created for a selected time frame. This option specifies the starting date of this time frame.
 - **End date** : Reports are created for a selected time frame. This option specifies the ending date of this time frame as well as the time.
 - **Requested** : Displays the date and time at which the report was requested.
 - **Delivered** : Displays the date and time at which the report was produced and printed.
 - **Requested by** : Displays the name of the operator that requested the report.
 - **Count** : Displays the number of transactions (lines) in the report.
 - **Output process** : Displays a list of the possible templates used for this report.

Previewing In/Out Reports

1. In the Archive window, select the report you want to view. If the selected report was defined as a "Display In/Out Report" and "Sybase Database" as the output format, the following window appears.



2. Select the display options:
 - Group by— Select this option for easier management. The report data may be grouped by card user names or by card numbers.
 - Sort by—You may choose a sort order, by user names, or by card numbers.
 - Report type—Select this option for easier management. You may choose to include details with or without total.
3. Click Preview to display the result of the report. From that window, you can save the report (in.QRP format) or print the report.

Card Use Report

About this task:

The card use report feature is used to create reports that will list cardholders who did, or did not, generate events for a specific number of days or a specific date. For example, operators could request a report including “access granted” events that were generated since a specific date. The system displays five event types:

- Access denied (bad location, bad access level, bad card status, etc.)
 - Access granted
 - Database (events that have affected the database, such as card definition modified)
 - In/Out events (entry, exit)
 - Other events
1. In the **Card use report** window, select a report from the **Report** drop-down list. If you are creating a new report, click the **New** button in the toolbar, then enter the necessary information in the language section.
 2. You may also check the **Process separately** option if you want the events to be processed individually for each card. For example, if you want a report for “Access denied events” and “Access granted events”, if you do not check the **Process separately** option, the report will contain all these events. When the **Process separately** option is checked the report will display **Access granted events** and **Access denied events** separately.
 3. Specify the card use options (**Not used since or Used since**) and defined periods.
 4. To define the target period, click the **From** radio button and select a date. You may select a date in the calendar when you click the **drop-down arrow**. Alternatively, you may use the up/down controls or enter the **number of days back**, starting from today’s date.
 5. When you have finished defining the report, save it. You may request it using the **Report request** button in the **Report** toolbar.

Automatic Report Schedule

Select the **Automatic report schedule** tab to define automatic settings for your reports so they can be automatically generated when needed. Click [here](#) for more details.

Automatic Report Output

Select the **Automatic report output** tab to define automatic output settings for your reports. Click [here](#) for more details.

Custom reports definition

The custom report definition feature allows users to define customized reports with their own automatic execution parameters. Reports that are defined with automatic settings are automatically generated at the specified time. However, they can be requested manually when needed.

Using the Default “All Events” Report

About this task:

You can generate a default report that will include all events. The default report is an historical report type. EntraPass can send you an automatic report by email.

1. Under the **Report** toolbar, click the **Custom report** button. The Custom report window appears.
2. You can only edit the language section for the **All events** report.

Defining a Custom Report

General parameters

1. Click the **Report** tab, and click **Custom report**. The Custom report window appears.
2. In the **Custom report** window, to create a new report, click the **New** icon and enter the necessary information in the language section. To modify an existing report, select it from the **Report** list.
3. You can use the default **All events** option or select a specific event type from the list. To select particular events, go to [Events Selection](#).
4. Choose an **Events filter**:
 - **Normal and abnormal events**: select this option to include normal and abnormal events in the report.
 - **Normal events**: quick report can create reports based on normal events. In an access report, normal events would be events such as access granted.
 - **Abnormal events**: events such as access denied (bad access level, supervisor level required), workstation server abnormal disconnection, gateway communication failure, or all events related to a process that is not complete (a controller reload failure, for example), are considered abnormal.
 - **Watchable events**: These are preselected events that can be displayed on EntraPass Web Watchlist. It can be used to issue a report of events related to EntraPass Web.
5. Check **Bypass operator workspace** to issue a report with no regards to the operator’s workspace permissions. For more information, see [Creating or editing an operator](#).
6. **Origin Filter**: This filter is used to define a report of events coming from one or more of the selected sources only. If one or more sources (connection, gateway, site and application) are selected in the **Origin Filter**, an **Origin** tab is added and this allows user to select one or more components related to selected source
7. **Component filter**: Select a **Filter mode** for the components to be included. Use the checkbox to display deleted components.
8. **Specific time frame**: Only events (event time) that are within this specific time frame are included in your report.

Events Selection

1. Select an event category from the drop-down list.
2. Select **All events** or select each event to include in the report individually.
3. If you have selected **Select all events**, you can also indicate which component status to display (New, Modify or Delete). In reports, events will be precessed by the following signs:

- + (New)
- = (Modify)
- - (Delete)

① **Note:** The checkboxes under **Specific Database Event** are displayed only when a database event is selected.

The **Events selection** tab contains events based on the selected filters only.

Origin

From this tab, you can select components from the origin(s) selected in the **General** tab with the **Origin filter**.

Components

About this task:

If you have selected a Step 7, the **Components** tab will appear **only when the corresponding events are checked**. You must specify the components that may affect the report.

1. Move to the **Component** tab.
2. Select a component type to display its items in the right-hand pane. If you select Doors, all the access system doors are displayed in the right-hand pane.

Cards

1. In the Custom report window, move to the **Cards** tab. It is displayed only when access events are selected. It is used to add more filters to your report in order to target specific events.
2. Select the **All Cards** option to include all cards.
3. From the **Filter mode** drop-down list (None, Include, Exclude), specify if the system should exclude or include the value range that you specify in the Upper/Lower boundary fields. When a filter mode is selected (**Exclude** or **Include**), the "Boundary" fields are enabled.
4. Enter the value range in the **Lower/Upper boundary** fields according to the selection in the **Filter mode** field. These may be, for example, alphabet letters (if the filter index is by names; or numeric, if the filter index is by card number). You could, for instance, use the card user name and specify A to F in the **Lower/Upper boundary** as the lower and upper boundaries. As a result the system will include events in which the selected door is defined and events in which the defined card numbers appear but only for card holders whose names begin with A to F.

① **Note:** Users can select more than one filter for the same report using the filter index. Events are filtered in times depending on how many filter indexes are defined for the report.

Automatic Report Schedules

About this task:

Use the **Automatic report schedule** tab to define automatic settings for your reports so they can be automatically generated when needed. These settings indicate:

- The frequency: when the report should be generated: none, weekly, monthly, and once.

- The time period covered .
 - The output process: display, print, etc.
 - The output type: Sybase, CSV, PDF.
 - The language and the file name.
- ⓘ **Note:** Make sure that EntraPass is running at the time you have defined for the automatic report generation. For example, if you have set the report schedule to daily, at 00:30, EntraPass must be running at that time to generate the report.
1. In the Custom report window, move to the Automatic report schedule tab.
 2. From the Schedule mode drop-down list, select the frequency at which the report should be executed:
 - Select None if you want the report to be manually requested (see [Report Request](#)).
 - Select Weekly if you want a report every week. You have to check the day on which the report should be executed automatically.
 - Select Monthly if the report is needed once a month. You have to specify the day (ex. the second Friday of the month or the 15th day of the month) when the report will be executed automatically.
 - Select Once if you want the report to be executed automatically on a specified date.
 3. In the Start at this time field, enter the time the system will start executing the report.
 4. Specify the Scheduling parameters:

ⓘ **Note:** These settings are ignored when the report is requested manually by an operator.

 - **Start this many days back:** The report starts collecting events according to the number of days specified in this field. It is based on the present date.
 - **Start at this time:** When you specify the amount of days, specify the starting time (i.e.: 7:00am). For example, if you enter 7:00, events that occurred at 6:00 will not be included in the report.
 - **Stop this many days back:** The report includes the specified number of days entered in this field. It is based on the present date.
 - **Stop at this time:** Once you specify the number of days, specify the ending time (i.e.:5:00 pm), that is, the day on which the system will stop collecting data; you may also specify the time at which it will stop. For example, if you enter 7:00 and an event occurred at 8:00, then this event will not be included. To target events that occurred during a specific time frame, you must use the Specific time frame option.

ⓘ **Note:** The start and end time are only used for the first day and last day, for example if you start collecting events on Monday at 8:00 and end on Friday at 17:00 all events between 8:00 Monday and 17:00 Friday will be included. The system does not use the start and end time for each day but for the whole period.

Automatic report output

1. Enter a **Report Name**. The default report name is `YYY_MM_DD-HH_MM_SS`, indicating the year_month_day-hours, minutes_second. This name will also be used as the output file name. The default output directory is `\Users\Public\Documents\EntraPass`.
2. From the **Database output type**, select the output format of the report. You may choose Sybase, CSV, PDF, Excel, RTF, or text formats by selecting the icon.

- From the **Database output process** drop-down list, select the report template. It will be used with the requested report. For details on the output format, see [Defining a Report Output Format](#).
 - ① **Note:** From the **Database output process** drop-down , you can select **Email custom report** if you want this report to be automatically sent to specified recipients. When you select the **Email custom report** the email options are displayed within the same page. EntraPass enables you to protect the report by a password before emailing it. When the email option is selected, the option to **use any smartlink available** is enabled. This option will use any available SmartLink to send the report email.

The following table shows the difference between these database formats and their output file formats.

Table 41: Database formats and output file types

Database	Description
SyBase	The EntraPass database.
CSV	Save the report in a comma separated values format (yourfile.csv). A data format in which each piece of data is separated by a comma. This is a popular format for transferring data from one application to another; because most database systems are able to import and export comma-delimited data.
Excel	Microsoft Excel file type.
PDF	Portable Document Format (PDF) is an open standard for document exchange. It can be opened with the free application Adobe Reader.
RTF	The Rich Text Format (RTF) is a proprietary document file format with published specification for cross-platform document interchange. Most word processors are able to read and write some versions of RTF.
text	A text file is a kind of file that is structured as a sequence of lines.Can be opened by a large number of editing tools.

- Select the report language.

Defining a Report Output Format

Historical and Card use reports

- If you select **Database only** (CSV and Sybase): The report will include the following information: event sequence, date and time, event message, description types (displays a specific number that identifies a component in the system), description names (displays the name of the component as defined in the system—name of description type number) as well as the card number (for card-related events).
 - ① **Note:** A database only report is saved in the reports folder in the specified format. It will not be printed nor displayed.
- If you select **Display custom report - Display card last transaction report** (Sybase Only): The report will automatically be displayed on your desktop when completed. You can customize the report before you print it manually. For more information on how to customize the report, see [Previewing Reports](#). The report will include the following information: event sequence, date and time, event message, card number (for card-related events) and descriptions 1 to 4 which contain details on the event.
- Report printed by sequence (Sybase Only): This report is sorted by event sequence number (order in which they were generated by the system) and printed automatically at the printer.

4. Report printed by date and time (Sybase Only): This report is sorted by date and time and printed automatically at the printer of the destination workstation.
 - ⓘ **Note:** The printed reports (option three and four) will be saved in the reports folder in the specified format. They will also be printed but not displayed.
5. **Report printed by event** (Sybase Only): This report is sorted by event message (alphabetically) and printed automatically at the printer. The report is saved in the reports folder in the specified format, but not displayed.

In/Out Reports

About this task:

In/Out reports will be saved in the reports folder, they are not printed nor displayed. User have to manually retrieve the report to view it, they can also use the “Archive” menu.

1. Single file with all data (CSV only): The report is generated in one file containing the data and the descriptions (date & time, transaction ID, card number, card user name and door description).
2. Database with transactions (CSV): The report is generated with all the data and transactions in one single file. It includes the date & time, the transaction ID, the card number and the card user name.
3. Display In/Out report (Sybase only): The report will automatically be displayed on the desktop when completed. You can customize the report before you print it manually. It contains: the card number, card user name, entry time, exit time, contents of the card information field as selected in report definition and total hours per cardholder. For more information on how to customize the report, see [Previewing In/Out Reports](#).
4. Two (2) databases with all data (Sybase): the report will be generated in two separate files:
 - One file containing: date, time, event message (transaction type), pkcard, pkdoor, pkdoorgroup.
 - One file containing: pk description (explaining pkcard, pkdoor and pkdoorgroup), card number, object and contents of card information field selected in the report definition menu.
 - ⓘ **Note:** PK refers to a component unique number within the system.
5. Single database with all data (Sybase): The report will be generated in one file containing the data and the descriptions (date and time, transaction ID, card number, card user name, door description and sequence).
6. CSV compilation In/Out (CSV Only): The report will be generated in two files. One file containing a total, of hours for instance, by department, and the other file containing detailed information. Depending on the number of days covered by the report, a “day” column will be reserved for each day.
 - File name—If you wish to overwrite the same report (for example—every week), you can enter a file name here and when the report will be executed according to specifications, the new report will replace the oldest report.
 - Destination: this is where the report should be sent/printed automatically. You can also use the Overwrite existing output option to specify a different destination file.
 - Report language—This field is used to include additional information in your report. Select from the displayed list.

Defining Automatic Report Schedules

About this task:

Select the **Automatic report schedule** tab to define automatic settings for your reports so they can be automatically generated when needed. These settings indicate:

- The frequency: when the report should be generated (none, weekly, monthly, once)
 - The time period covered
 - The output process (display, print, etc.)
 - The output type (Sybase, CSV, PDF)
 - The language and the file name
- ① **Note:** Make sure that EntraPass is running at the time you have defined for the automatic report generation. For example, if you have set the report schedule to daily, at 00:30, EntraPass must be running at that time to generate the report.
1. From the **Schedule mode** drop-down list, select the frequency at which the report should be executed:
 - Select **None** if you want the report to be manually requested (see Report Request).
 - Select **Weekly** if you want a report every week. You have to check the day on which the report should be executed automatically.
 - Select **Monthly** if the report is needed once a month. You have to specify the day (ex. the second Friday of the month or the 15th day of the month) when the report will be executed automatically.
 - Select **Once** if you want the report to be executed automatically on a specified date.
 2. Select the **Queue priority** level. A report with a priority of 1 will be processed before a report with a priority of 99.
 3. In the **Start report** field, enter the time at which the system will start executing the report.
 4. Specify the **Scheduling parameters**.
 - ① **Note:** These settings are ignored when the report is requested manually by an operator.
 - **Start this many days back:** The report will start collecting events according to the number of days specified in this field. It is based on the present date.
 - **Start at this time:** Once you specify the amount of days, specify the starting time (i.e.: 7:00am). For example, if you enter 7:00, events that occurred at 6:00 will not be included in the report.
 - **Stop this many days back:** The report will include the specified number of days entered in this field. It is based on the present date.
 - **Stop at this time:** Once you specify the number of days, specify the ending time (i.e.:5:00 pm), that is, the day on which the system will stop collecting data; you may also specify the time at which it will stop. For example, if you enter 7:00 and an event occurred at 8:00, then this event will not be included. To target events that occurred during a specific time frame, you have to use the Specific time frame option.
 - ① **Note:** The start and end time are only used for the first day and last day, for example if you start collecting events on Monday at 8:00 and end on Friday at 17:00 all events between 8:00 Monday and 17:00 Friday will be included. The system does not use the start and end time for each day but for the whole period.

Specifying additional options for automatic reports

1. Click the **More** button to configure additional settings for the automatic scheduled report. When you click the **More** button, the **Automatic report output definition** window appears.
2. From the **Database output type** list, select the output format of the report. You can choose Sybase, CSV, PDF, Excel, RTF, or text formats.
3. From the **Database output process** list, select the output type.

The following table describes the different database formats and their output file formats.

Table 42: Database formats and output file types

Database	Description
SyBase	The EntraPass database
CSV	The report saves in a comma separated values format (yourfile.csv). In this formate, each piece of data is separated by a comma. This is a popular format for transferring data from one application to another because you can import and export comma-delimited data into most database systems.
Excel	Microsoft Excel file type
PDF	Portable Document Format (PDF) is an open standard for document exchange. It can be opened with the free application Adobe Reader.
RTF	The Rich Text Format (RTF) is a proprietary document file format with published specification for cross-platform document interchange. Most word processors are able to read and write some versions of RTF.
text	A text file is structured as a sequence of lines. It can be opened by a large number of editing tools.

4. You can select the **Automatic file name (...)** option. The default file name is `YYY_MM_DD-HH_MM_SS.X`, indicating the year_ month_ day-hours, minutes_second.file extension.
5. Select the report language. For more information about the available languages, see [System Language Selection](#).
6. Select a destination.

In/Out reports definition

Use this feature to define customized In/Out reports with automatic execution parameters.

- ❗ **Note:** Reports can be defined with automatic settings so they are generated when you need them or can be requested manually using the **In/Out report request** button. When requested manually, automatic settings are ignored.

Defining In/Out Reports

1. Under the **Report** toolbar, click the **In/Out Report** button.
2. If you select the **Doors** option, only the doors defined as “In/Out” doors (in the Door definition menu) are displayed. Check the **View deleted doors** to add deleted doors to the list. When you select the **Door group** option, the **View deleted doors** option is disabled. The system displays the door groups of your system; then you may select one.
3. Check the **Overwrite existing output file** option if you want the system to replace the existing file. If you leave this option unchecked, the system will create another output file.
4. Select **Display Hours and Minutes** to add them to the report.
5. Select the **Card** tab to add other filters for the report.

Filter Index	Filter mode
Card user name	None
Employee Name	None
Employee Number	Include
Department	Exclude
Card Information 4	None
Card Information 5	None
Card Information 6	None

6. Select a filter index, then select a filter mode (**None** , **Include** , **Exclude**). If you have selected a filter index, select the filter mode and enter the value range in the **Upper/Lower boundary** fields. To include all the fields, leave the filter mode to **None** . For example, if you select Card number as the Filter index, leave the filter mode to **None** so that all events triggered by cards will appear in the report.
7. To add information in the sort criteria, select an item from the **Additional information** drop-down list.
 - ① **Note:** Repeat these steps for all the card information fields that are listed in the filter index field. You could use the card user name and specify A to F in the Upper/Lower boundary fields for the system to include events in which the defined card numbers appear but only for card users whose names begin with A to F (G and up will not be included even if the card number is included in the range).
8. Select the **Automatic report schedule** tab to specify information for automatic reports. For details, see [Defining Automatic Report Schedules](#).
9. Select the **Automatic report output** tab to define automatic output settings for your reports. Click [here](#) for more details.
10. Select the **Rules** tab to define the rules of In/Out in employee time reports. Rules can be created to define periods of time as specific values. For example, all employee entries between 7:50 AM and 8:15 AM can be defined as the value of 8:00 AM on reports.
 - Select the **Keep only the first entry (first IN) and the last exit (last OUT)** option to get the time lapsed between the first reading of the card on an entry reader and the last reading of the card on an exit reader.

In/Out reports request

Use the Request In/Out reports feature to request the pre-defined In/Out reports that were created using the In/Out report definition menu. This feature is useful when you want to override automatic settings.

- ① **Note:** If the report contains automatic settings, these are ignored.

Requesting a In/Out Report Manually

1. Under the **Report** toolbar, click the **In/Out Request** button. The In/Out Request report window appears.
2. From the **Report list** display pane, select the In/Out report that you want to execute.
3. Specify **Date and time** as well as the **Output parameters** .
4. Select the **Queue priority** level. A report with a priority of 1 will be processed before a report with a priority of 99.
5. Click **Execute** to trigger the report.

- ⓘ **Note:** For the Sybase output type, the system displays a report preview window. For other output formats, you will have to retrieve the report manually since it is not printed or displayed. To view all the reports that have been generated, use the Archive button in the Report toolbar. For information about reports output formats, see [Defining a Report Output Format](#).

Operations on In/Out

Use the Operation on In/Out feature to manually insert, add or delete In/Out transactions in the database. This feature is useful for an organization using the In/Out feature for the payroll system, for instance.

Adding a Transaction in the In/Out Database

1. Under the **Report** toolbar, click the **In/Out Adjustment** button.
2. Enter the **Card number** for which you want to modify the In/Out transactions, then click the **Load** button. If you do not know the number, use the **Find** button.

ⓘ **Note:** The card number field is mandatory to start loading.
3. Select the **View deleted transactions** option if you want to view the transactions that were previously deleted. Deleted transactions are marked with an "X" in the **Delete** column.
4. Check the **Find deleted cards** option if you want to find the deleted cards. This does not apply to entries that were added manually.
5. Specify the **Start date**, the day on which the system will start to collect the events, by clicking the **Calendar** button and selecting a specific date. Only events that occurred on this date and after are displayed.

ⓘ **Note:** The Start date is mandatory to start loading.
6. Specify the **End date**, that is the day and time on which the system will stop collecting events. Only events that occurred on the specified date and before are displayed. If you do not specify an end date, the system will include all the data up to the present day time.
7. In the **Connection** drop-down list, select the appropriate connection to view the In/Out doors.

ⓘ **Note:** The gateway is mandatory to start loading.
8. You may check the **All Doors** option, then all the doors displayed under this field will be selected. You may also select specific doors. All the In/Out events that were generated for the selected doors will be displayed.
9. Check the View deleted doors option so that even doors that are no longer defined as In/Out doors (but that have been defined as In/Out) will be displayed.

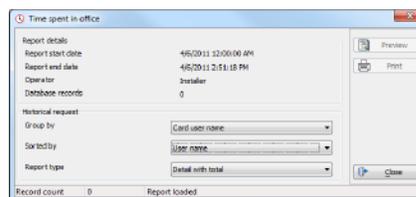
ⓘ **Note:** Doors are mandatory to start loading.
10. Enter the necessary information in the transaction table. The transaction table displays the transactions for the selected cardholder:
 - The **Delete** column indicates transactions that have been deleted (if the **View deleted transactions** option is checked). These are identified by an X.
 - The **Date** column indicates the date on which the transaction occurred. Use this field to specify the date when you manually insert a new transaction.
 - The **Time** column indicates the time at which the cardholder entered or exited an area. Use this field to specify the time (entry or exit) when manually inserting a new transaction.

- The **Transaction** column indicates the transaction type. For every entry transaction, there should be an exit transaction.
 - **Entry** —indicates that this is an entry transaction generated when a cardholder presented his/her card at a door defined as entry.
 - **Exit** —Indicates that this is an exit transaction generated when a cardholder presented his/her card at a door defined as “Exit”.
 - **Manual entry** —Indicates that this is an entry transaction that was manually inserted or added in the system. When you manually insert a transaction, you have to specify if this transaction is an “Entry” transaction or an exit transaction. For every entry, there should be an exit.
 - **Manual exit** —Indicates that this is an “exit” transaction that was manually inserted or added in the system. When you manually insert a transaction, you have to specify if this transaction is an entry transaction or an exit transaction. For every entry, there should be an exit.
- The **Door** column indicates which door was accessed by this user. When you manually insert a transaction, you have to specify the door according to the transaction type (Entry or Exit).
 - ① **Note:** If you are inserting an entry transaction, only doors defined as “Entry doors” will be displayed in the list. If you are inserting an exit transaction, only doors defined as “Exit doors” will be displayed in the list.

11. Click the **Load** button to load the transactions from the server for this cardholder. You have to enter the card number, select the connection and door(s), then click the **Load** button. The button is disabled once you have loaded the transactions.
12. Click the **Add** button to add a transaction to the existing transaction list. The new transaction will be added at the end of the list.
13. Use the **Insert** button to insert a transaction between existing transactions or above any transaction.
14. Click **Cancel** to cancel any insertion or modification that was made BEFORE saving.
 - ① **Note:** When you delete a transaction that was added manually, it is permanently deleted from the list; as opposed to transactions that were generated by controllers. When they are deleted, they are identified by an X in the Deleted column.

Previewing In/Out Reports

1. In the Archive window, select the report you want to view. If the selected report was defined as a “Display In/Out Report” and “Sybase Database” as the output format, the following window appears.



2. Select the display options:
 - **Group by**— Select this option for easier management. The report data may be grouped by card user names or by card numbers.

- Sort by—You may choose a sort order, by user names, or by card numbers.
 - Report type—Select this option for easier management. You may choose to include details with or without total.
3. Click **Preview** to display the result of the report. From that window, you can save the report (in.QRP format) or print the report.

Previewing Reports

1. In the **Archive** window, select the report you want to view in the right-hand pane. If you select a report generated by Sybase, the Report Options window will display allowing you to customize your report before printing it.
 - ⓘ **Note:** If you select a CSV type of report, the report will be generated in a WordPad window, in text format.
2. Define the filter options: enter a text string in the **Search description** field. The report will be sorted leaving only events containing the specified text string. You may refine your filter:
 - **Contains:** All events which contain the specified text will be included in the report.
 - **Starts with:** All events which start with the specified text will be included in the report.
 - **Ends with:** All events which end with the specified text will be included in the report.
 - **Exact words:** All events containing the exact specified text will be included in the report.
3. Click on the **Preview button**, select a **Printer** from the list and click **OK**. The system displays the result of the report. From that window, you can:
 - Search text within the report
 - Print a report
 - Save a report in various formats such as PDF, RTF, HTML and TXT
 - Load a report (in a.QRP format)
4. Click **Properties** to access the Reports details window where detailed information is displayed:
 - **Report file name** : Displays the whole path where the report was saved as well as its name.
 - **Report title** : Displays the title of the report.
 - **Start date** : Reports are created for a selected time frame. This option specifies the starting date of this time frame.
 - **End date** : Reports are created for a selected time frame. This option specifies the ending date of this time frame as well as the time.
 - **Requested** : Displays the date and time at which the report was requested.
 - **Delivered** : Displays the date and time at which the report was produced and printed.
 - **Requested by** : Displays the name of the operator that requested the report.
 - **Count** : Displays the number of transactions (lines) in the report.
 - **Output process** : Displays a list of the possible templates used for this report.

Quick Report Definition

Use the Quick report to quickly create reports for certain types of events. For example, you can create a report regarding all abnormal or normal access events in just a few seconds. Quick report files may be viewed using the EntraPass Quick Viewer, a utility that allows users to display Quick report files and all .QRP files. These include report files that are saved from a report preview. The Quick Viewer is launched from Windows® **Start** menu, without the need to launch the software.

Defining a Quick Report

1. Under the **Report** toolbar, click the **Quick report request** button.
2. From the **Event** drop-down list, select the event type for the current report (access, controller, door, relay, input, operator, manual operation events, and so on). If you have selected “access events”, the **Card** tab appears in the window.
3. Among the **Event type** options, select the event type to be included in the report.
 - **Normal and abnormal**—Select this option to include normal and abnormal events in the report.
 - **Normal** —Use Quick report to create reports based on normal events. In an access report, normal events would be such events as “access granted” for instance.
 - **Abnormal**—Such events as access denied (bad access level, supervisor level required), workstation server abnormal disconnection, gateway communication failure, or all events related to a process that is not complete (a controller reload failure, for example), are considered abnormal.
 - **Watchable events**—These are preselected events that can be displayed on EntraPass Web Watchlist. Use to issue a report of events related to EntraPass Web.
 - **Custom events**—Select this option to include your own events. The **Custom** events become visible when the **Custom events** option is selected. This option allows the operator to select the components that have generated the selected events according to the setting in the “event” field.
 - ① **Note:** When you use the Event field, you have to specify which component(s) should be used or not used. When you select an event (i.e. access), the system displays all the doors. If you select Controllers, the system displays all the controllers. Once you have selected an event (i.e. controller events), select the controllers, that is the list of controllers to be included in the report.
4. If **All Events** has been selected, **Specific Database Event** is displayed. You can choose to include **New(+)**, **Modify(=)**, and **Delete(-)** database events in the quick report.
5. Select the **Card** tab to specify filter details about the report. The **Card** tab appears only if a card-related event is selected.
6. In the **Card index** drop-down list, specify the information that will be used as the filter. For example, if you select “card number”, only access events in which the defined card numbers appear will be selected.
 - ① **Note:** If you select Card number, the Lower and Upper boundary editable fields display the default numerical values to be replaced by card numbers. If you select Card user name, these fields are enabled to receive text data. For example, you can enter A in the Lower boundary field and F in the Upper boundary fields for the system to include events in which the selected door is defined and events in which the defined card numbers appear but only for card users whose names begin with A to F. If you select All, the editable fields are disabled.

7. In the **Start/end date** field, enter the date and time on which the system will start to collect the events. For example, if you enter 7:00 and an event occurred at 6:00, this event will not be included. To target events that occurred during a specific time frame, use the **Time frame** field.
8. In the **Time frame** field, check the Specific time frame option to include events that match the specified time frame. Enter the target time for the report.
9. Define the output parameters:
 - **Database output type** : Select the database output format by selecting the icon for Sybase, CSV, PDF, Excel, RTF, or text.
 - **Report name** : The default is the current date and time. This can be edited.
The report name is used to name to output file.
 - Database output process —Select the appropriate output processes. A report template is associated with each output.
 - **Database only** : The report will be saved in the system database.
 - **Display (custom, detailed, summary or statistics) report**: The report appears on-screen.
 - **Report printed by (sequence, date & time or event)** : The report is printed according to the specified sort order.
 - **Email (custom, detailed, summary or statistics) report**: When email is selected a dedicated input box is launched to select which emails the report is sent to.
10. Click on the **Execute** button to launch the report.

Report Log

About this task:

The **Report Log** window allows you to view a detailed list of all history reports processed by the system.

1. To view the Report log, select the Report **Log** button from the **Report** menu.
2. Click the **Text filter** button to display the **Text filter** window. From that window, enter the text string (i.e. Kantech), and the system will only display logs containing the specified string text. To return to normal display, click text filter.
3. Click the **Refresh** button to update the displayed data.
4. Columns:
 - **Date requested**: This is the normal incoming sequence, if you select another sorting mode, you interrupt the normal sequence.
 - **Requested by** : When selected, all columns will be sorted according to the **Requested by** column in alphabetical order.
 - **Reportname** : When selected, all columns will be sorted according to the **Report name** column in alphabetical order.
 - **Date from** : When selected, all columns will be sorted according to the **Date from** column in alphabetical order.
 - **To (Date)** : When selected, all columns will be sorted according to the **To (Date)** column in alphabetical order.

5. You may also clear the window. To do this, right-click in the window, then select **Delete All** from the shortcut menu.
6. Fields:
 - **Report Type** : Show the type of report (quick, custom...).
 - **Process By** : Show which application executed the report.
 - **Workspace applied** : Show whether a workspace was applied.
 - **Destination** : Where the report was delivered.
 - **Used Template** : Show the dll that was used for the report.
 - **Items in report** : The number of items in the report.
 - **Requested date** : When the report was requested (date and time).
 - **Queued date** : Show when the report was added to the application queue that generated the report (Date and time and the total time elapsed).
 - **Process date** : When the process was started (Date and time and the total time elapsed).
 - **Delivery date** : Show when the report was delivered to destination (Date and time and the total time elapsed).
 - **Completion date** : Show end date and time of report execution.
 - **Completion State** : Show whether the report was completed successfully or aborted.

Report state

Use the **Report state** feature to view the statuses of all requested reports that are still pending. On the **Report** tab, click **Report state**.

Report state fields

- **Priority**: Priority level for the treatment of messages (1 to 99). A a priority of 1 will be processed before a priority of 99.
- **CPU**: Level of CPU usage to be allowed to process the report (Lower, Normal, Higher).
- **Report**: Name of the report in process.
- **Destination**: Displays the workstation or SmartLink name to which the report will be sent to.
- **Progress**: When the report is processed, it displays the date in treatment, from the start to the end.
- **Count**: Indicate the number of records in the report.

Select a report and right click to display the contextual menu:

- **Next to be processed**: Indicates that this is the next report to proceed.
- **Promote**: Increases the priority level (above the next lower priority report).
- **CPU**: Allows you to change the CPU usage for the treatment of reports (Lower, Normal, Higher).
- **Help**: Click to see the related help topic.

Contextual menu of in process reports

Select a report and right click to display the contextual menu:

- **Abort with data**: This function ends the process and the gathered informations are sent to the recipient.

- **Abort without data:** This function ends the process and the gathered informations are erased.
- **Priority:** Allows you to change the CPU usage for the treatment of reports (Lower, Normal, Higher).
- **Help:** Click to see the related help topic.
 - ① **Note:** A red dot indicates a pending report In/Out, and a green dot indicates a report in process.

Requesting Reports

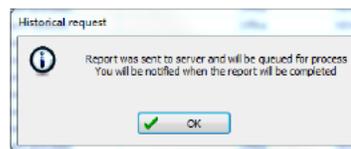
About this task:

With this feature operators can request pre-defined historical reports or Card use reports that were created using the Custom Report menu. Operators can also email the report to one or multiple recipients.

- ① **Note:** If your report contains automatic settings, these are ignored. You must indicate new settings.
 1. In the **Report** window, click the **Report request** button.
 2. In the **Report request** window, from one of the **Report list** display panes (Custom reports on top or Card Use reports on bottom), select the report that you want to execute.
 3. Select the **Queue priority** level. A report with a priority of 1 will be processed before a report with a priority of 99.
 4. You can define **output parameters**, including the **database output type** format (Sybase, CSV, PDF, Excel, RTF or Text), the target folder, the output file name, etc. For more information on how to select an output format, see [Defining a Report Output Format](#).
 - ① **Note:** From the **Database output process** list, you can select **Email custom report** if you want this report to be automatically sent to specified recipients. If you choose this option, the email page is launched. EntraPass enables you to protect the report by a password before emailing it.

If a Card use report is selected, the “Date and time” section is disabled.
 5. Click **Execute**. A system message informs you that the report is being processed. The Report options window appears and is then minimized to the task bar.

Figure 5: Historical request window



6. Select the **Preview** button to define the report and filter options. This will increase the readability of the report by adding, for instance, alternating band colours, framing events, buttons in the reports, etc., or by sorting events in the report (by event ID number, alphabetical order or date and time).
7. Enter the **description** in the **Search description** field. The report is updated in real-time when you enter a filter option.
8. Use **Preview** to preview the report or the **Properties** button to view details about the report. When you click the **Preview** button, the system displays the result of the report. From that window, you can save the report in various formats or print the report.

Roll Call Reports

The Roll call report is used to take a snapshot of who has swiped a card at a reader or a group of readers within a certain reset period. With the Roll call, one or many doors in EntraPass may be configured as entry points for a certain perimeter and upon criteria later defined in this document. Based on the last location a card holder has passed, operators will receive reports on who has entered this perimeter.

Since EntraPass Special Edition does not function in services mode, the application must be active on the PC at all times for the roll call report to be executed and produce accurate results.

Functionalities

- A maximum of 8 roll call reports can be configured through EntraPass.
- Doors must be assigned to a report number (1-8) in order to be considered for the roll call report (see [Doors Configuration for more information](#)).
- At runtime, the Roll call report will list all individuals that have swiped a card at a pre-defined reader. No other card holder will be shown in the report than the ones who have entered a perimeter after the last perimeter reset.
- To create an “in-out” functionality, the operator must make sure that doors considered “out” of a building or connection have a different roll call number. Any door that doesn’t have a number assigned to it will have no effect on the location of the card holder for the roll call report.
- A configurable reset of the report is available and the default value is 12:00PM (midnight) every day. This function cleans the report. Reset can be performed for all reports in the roll call report window.
- Upon manual request in Report -> Roll Call Report or on trigger of a pre-configured input, a report can be generated up to 3 times to a pre-defined printer, workstation or email address.

Roll Call Report generation

1. Under the **Report** toolbar, click the **Roll call report** button:
2. Select the roll call sector. If the roll call sector you wish to select is not listed, click on the button next to the drop-down arrow.
3. Specify the report destinations:
 - **Report Destination** : Select a destination using the three-dots button.
 - **Output printer** : Select the printer (s) from the list.
 - **E-mail recipient** : Enter the name (s) of the recipient (s) to email the report to.

Example of a Roll Call Report

TRACKING AND MUSTER VIEW REPORT				
<u>Area Name</u>	<u>Card ID</u>	<u>Status</u>	<u>Card Holder</u>	<u>Reader</u>
<u>Time & Date</u>				
00 Elite	29	Valid Card, door used	Bloyge Fred	Front Door - IN
15:22:07 16/03/2005				
	26	Valid Card, door used	Davies David	Front Door - IN
15:22:05 16/03/2005				
	27	Valid Card, door used	Johnson Sam	Front Door - IN
15:22:03 16/03/2005				
	30	Valid Card, door used	Smith John	Front Door - IN
15:22:09 16/03/2005				
	28	Valid Card, door used	Wilson Jane	Front Door - IN
15:21:59 16/03/2005				

Specifying additional options for automatic reports

1. Click the  button to add more settings to the automatic scheduled report. When you click this button, the **Automatic report output definition window** appears.
2. From the **Database output type** list, select the output format of the report. You can choose Sybase, CSV, PDF, Excel, RTF or text formats.
3. From the **Database output process** list, select the report template. It will be used with the requested report. For information about the output format, see [Defining a Report Output Format](#).
 - ① **Note:** From the **Database output process** list, you can select **Email custom report** if you want this report to be automatically sent to specified recipients. If you choose this option, select the **Email** tab to enter the recipients' email addresses in the **Send Email to** field. You can protect the report using a password before emailing it.

The following table describes the different database formats and their output file formats.

Table 43: Database formats and output file types

Database	Description
SyBase	The EntraPass database
CSV	The report saves in a comma separated values format (yourfile.csv). In this formate, each piece of data is separated by a comma. This is a popular format for transferring data from one application to another because you can import and export comma-delimited data into most database systems.
Excel	Microsoft Excel file type
PDF	Portable Document Format (PDF) is an open standard for document exchange. It can be opened with the free application Adobe Reader.
RTF	The Rich Text Format (RTF) is a proprietary document file format with published specification for cross-platform document interchange. Most word processors are able to read and write some versions of RTF.
text	A text file is structured as a sequence of lines. It can be opened by a large number of editing tools.

4. You can select the **Automatic file name (...)** option. The default file name is `YYY_MM_DD-HH_MM_SS.X`, indicating the year_ month_ day-hours, minutes_second.file extension.
5. Select the report language and the destination.

Options

EntraPass supports many reader types, use [Defining a card display format](#) to define the system for your particular card reader. You will also find [Changing from a 24-bit to 32-bit Global Card Format](#).

To change their appearance, and when you want to integrate EntraPass with a third party device, use [Integration](#) to select the hardware and register the DLL.

See [Multimedia devices configuration](#) to define alarm sounds, videos features, and video and signature capture devices. For printing instructions for event logs, reports and badge printing use [Printers selection and configuration](#). For new system components, you must register them in the system [Registration](#) section. Read the [System date and time modification](#) section to find out why you should approach changing the system time with caution and the options available. If you want to change the system language see [System language selection](#), and choose from English, French, Spanish, German, and Italian.

Use [System parameters configuration](#) to define the following components and features:

- [Disk Space](#)
- [Logout and Idle](#)
- [Schedule](#)
- [Icon Status](#)
-
- [Password rules](#)
- [Firmware Parameters](#)
- [Image Parameters](#)
- [Picture and Badging](#)
- [Report Parameters](#)
- [Disk Space](#)
- [User Name Format](#)
- [Video Parameters](#)
- [Time Parameters](#)
-
- [Toolbar Buttons](#)
- [Integration](#)
- [User Name Format](#)

Backup Scheduler

A backup is a copy of the systems database which serves as a substitute or alternative in case the computer fails. If your system computer fails, you may restore a backup copy onto another computer .

- Back up your files regularly, at least once a week or more if many modifications were made to the database.
 - We recommend that you make two backups of all your database files. To be especially safe, keep them in separate locations.
 - To backup your files, you can use any of the following options:
 - Menus of the Backup Tab
 - Backup Scheduler to apply automatic schedules
 - Mirror Database application
 - Other third party software and hardware. Third party software is not recommended.
- ① **Note:** By default, when you backup or restore files, the databases is temporarily disabled (not available). The Workstation will not be able to modify the databases.

The Backup Scheduler program is used to schedule automatic backups of your data, archives, and In/Out databases. Define the default settings and the system will do the rest.

Scheduling Automatic Backups of the System Database

1. From the Backup toolbar, select the Backup button.
2. Select the tab corresponding to the information you want to backup: Data, Archive, In/Out or Video event (In/Out) (In/Out is not available in EntraPass KTES Edition).
 - ① **Note:** By default, the system will automatically backup your files every Sunday at 4:00 AM for all new installations. Setting this feature at 4:00AM has an added benefit of not interfering with the system processing time or other tasks scheduled around midnight.
3. Select the **Automatic backup** option to enable the options displayed in the window. The options displayed depend on the tab that is enabled.
4. Select the **Backup folder** :
 - **Default folder** : Will backup your files in a system default backup folder. By default, the name of the backup sub-directory is generated automatically according to the following convention: X_YYYY_MM_DD_HH_MM_SS (Where 'X' = Data or Archives or In/Out (D, A or T), year, month, day, hour, minutes, and seconds).
 - ① **Note:** By default, the system backs up all the information originating from the following directories: C:\Program files\Kantech\Server\Data or Archive or Time on video or V . The information is sent to: C:\Program files\Kantech\Server\Backup\X_YYYY_MM_DD_HH_MM_SS.
 - **Specific folder** : Will backup your files in a sub-folder labeled according to the default convention in the XXX folder.

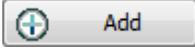
5. Select the Backup type: The options that are displayed depend on the type of the data to be saved.
 - Under the **Data** tab only:
 - **Separate files** : will backup the databases one by one.
 - **Self-extracting compressed file** : will create an executable file (*.exe) that will compress the information so as to reduce the amount of disk space taken by the backup.
 - Under the **Archive, In/Out** and **Video Event** tabs only:
 - **Separate files (full backup)** : will backup all databases.
 - **Self-extracting compressed file (full backup)** : will create an executable file (*.exe) that will compress the information so as to reduce the amount of disk space taken by the backup.
 - **Separate files (incremental)** : will backup all databases. Only the information that was modified since the last backup will be saved.
 - **Self-extracting compressed file (incremental)** : will create an executable file (*.exe) that will compress the information so as to reduce the amount of disk space taken by the backup. Only the information that was modified since the last backup will be saved.

ⓘ **Note:** Restoring a self-extracting backup after an EntraPass upgrade can only be done from the workstation where the original self-extracting backup was done.

When you have selected “full backup”, each time a backup is done a new sub-folder containing the data or the self-extracting file will be created. If you are using the incremental backup type, only the information that was modified since the last backup will be saved. If you want to restore information, you will have to restore all the sub-folders one-by-one (starting from the oldest).
6. Select the frequency of the backup,
 - **Weekly** : the backup will be carried out once a week. Specify which day (example, the backup will be executed every Thursday).
 - **Monthly**: the backup will be carried out monthly, specify the day of the month (example, the backup will be carried out every first day of the month).
 - **Daily** : the backup will be carried out every day.
7. Enter the time at which the backup will start (24:00 format).
8. Select **Now** if you want to perform a backup immediately after saving the backup parameters.
 - ⓘ **Note:** This is not applicable to the **Configure Automatic backup** feature in the **Mirror Database and Redundant Server** application.
9. Repeat steps 1 to 8 for all the remaining tabs.
10. Click **OK** to save.

Dealer Information

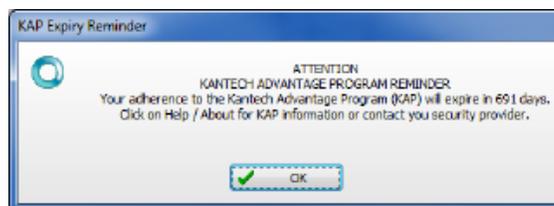
About box details

1. To add dealer information in the **About** window, select **Display details in About box**.
2. Fill in the dealer information and add a picture logo if needed using the  button.
3. Fill the **Site information** data.
4. Click **OK**.

KAP reminder

A message displays reminding the user that the KAP period is ending. There are two different notifications: a pop-up on the screen or an email containing the following information:

Figure 6: KAP expiry reminder



Pop-up message

A pop-up message is automatically generated by EntraPass to advise the user that their KAP is expiring. Messages display at the following times:

- 60 days before expiration
- 30 days before expiration
- On expiration
- 30 days past expiration

The user must acknowledge the reminder message. It is logged in the events database, displays in the message list, and appears in reports.

Email

In the **Dealer Information** window, you can configure the email reminder. You can add up to 4 recipients. Click the **Send reminder now** button to save the information and send a reminder immediately.

A new event is logged in the desktop events list.

Each workstation also receives a 60-second notification pop-up message. See the following figure.

Figure 7: KAP expiration message

Your adherence to the KAP program will expire in 60 days.
If you wish to continue to participate in the Kantech Advantage Program (KAP), please purchase the required Tokens from you dealer / installer.

System Registration code: hhdhdpxdew93in3d390d
KAP Expiry date: 21/08/2011
Tokens required to participate in the KAP: 5

For more information on the advantages of the Kantech Advantage Program (KAP), please visit www.Kantech.com

① **Note:** You can also access the KAP reminder feature in the **About** window.

Defining a card display format

About this task:

The EntraPass system can accommodate various reader types. Depending on the reader type, the card display format may vary. The Display format dialog allows you to select the default format that will be setup automatically when creating a new card.

1. Under the **Options** toolbar, click on the **Display format** button.
 - ① **Note:** The Card #2, Card #3, Card #4, Card # 5 sections will not appear unless the **Enhanced User Management** option is activated.
2. Select a display format for **Card #1** .
 - **Decimal** : Refers to numbers in base 10.
 - **Octal** : Each octal digit represents exactly three binary digits. An octal format refers to the base-8 number system, which uses eight unique symbols (0, 1, 2, 3, 4, 5, 6, and 7). Programs often display data in octal format because this format is relatively easy for humans to read and can easily be translated into a binary format, the format used in computer programming.
 - **Hexadecimal** : Each hexadecimal digit represents four binary digits. An hexadecimal format refers to the base-16 number system, which consists of 16 unique symbols: the numbers 0 to 9 and the letters A to F. For example, the decimal number 15 is represented as F in the hexadecimal numbering system. The hexadecimal system is useful because it can represent every byte (8 bits) as two consecutive hexadecimal digits. It is easier for humans to read hexadecimal numbers than binary numbers.
 - **FIPS** (Federal Information Processing Standard): This card format can use more than 32 bits of data.
3. Check the **Use multiple card format** box if your environment contains multiple reader types and you would like to have the capability to select a different reader, that is not the default reader, when creating a new card.

4. Select one of the **Duplicate PIN process** in the scrolling box. This feature can be used for example while loading cards in a batch. An operator may decide to set the PIN option to allow duplication. Later, if desired, the duplicate PINs can be changed to prevent confusion.
 - **No duplication** : An error appears on the workstation; the PIN field will be reset to the default value (00000) and will be highlighted, inviting you to enter a new and valid PIN. Only PIN 00000 will be duplicated regardless of the PIN setting option.
 - **Notify when duplication**: the server verifies if this PIN already exists. If the PIN exists, a message box appears, indicating that the PIN exists. A **Details** button will allow operators to view a list of cardholders who were issued this PIN.
 - **Duplication**: no test will be processed, the PIN will be accepted even if it is a duplicate.
5. **Number of PIN digits (KT-400 only)**: This function allows using the **Keypad Pin Digit** option with the new KT400 firmware. You can choose to have 4, 5 or 6 digits. For more information, see [Card options definition](#).
 - ⓘ **Note:** The PIN number must be set up once and kept that way in order to avoid any in duplication if truncated or filled by the system.
6. Under the Global display format for **KT-100** , **KT-300** and **KT-400** , select the appropriate option to coordinate with the selection in the upper section of the dialog.
 - **24-bit Wiegand card, 5-digit PIN (KT-200 default)** : for up to 24-bit for KT-100, KT-200, KT-300 and KT-400.
 - **32-bit card, 5-digit PIN** : for up to 32-bit for KT-100, KT-300 and KT-400.
 - **24-bit Wiegand card, 6-digit PIN** : for up to 24-bit for KT-100, KT-300 and KT-400.
 - **Up to 16 characters ABA card , 6-digit PIN** : for up to 16 for KT-100, KT-300 and KT-400.
 - ⓘ **Note:** KT-100, KT-300 and KT-400 controllers will do a hard reset on card format change. Avoid alternating between different card formats because this may result in lost card information.

Changing from a 24-bit to 32-bit Global Card Format

About this task:

Changing from 24-bit to 32-bit global card format extends the amount of cards you can configure on EntraPass.

The ioProx 26-bit Wiegand reader does not support changing from a 24-bit to 32-bit global card format. If you have a combination of ioProx XSF and ioProx 26-bit Wiegand readers, do not manually change the format, or turn on the auto conversion feature. You first have to replace the 26-bit Wiegand readers with XSF readers.

To manually change from a 24-bit to 32-bit global card format, complete the following steps:

1. Click the **Options** tab, and select **Display format** from the menu.
2. In the **Global card format** area, choose the **32-bit card, 5-digit PIN** option.
3. Click **OK**. If you made a change from a 24-bit Wiegand card, five or six digits, to a 32-bit card, five digit PIN, a prompt displays to ask if you require the cards converted to 32-bit family code.

The ability to change the global card format from 24-bit to 32-bit format is not available when running from a redundant server.

EntraPass does not automatically backup data when you switch from 24-bit to 32-bit card format.

Result

In the workstation, EntraPass backs up the system prior to conversion.

After you change formats, the KT-100, KT-200, and KT-300 automatically do a hard reset. For the KT-1 and KT-400 the change is seamless.

Auto conversion

When you select the **Use Auto Conversion for legacy 24 bit cards** check box in the **Display Format** window, EntraPass automatically converts all card accounts to a 32-bit card format. The default value is cleared. To enable the check box, you must set the **Global Card Format** to the **32-bit card, 5 digit PIN** option.

When you select the auto conversion feature, and have not converted the cards to a 32-bit format, the system automatically modifies the card number and triggers a **Card definition modified** event. The events have to be non-fail soft events. The feature is available in the multi-site gateway, the global gateway, and the KT-NCC gateway.

① **Note:** The Auto conversion feature is available when running the redundant server.

Integration

The **Integration** tab allows the user to select third party hardware that has been integrated to EntraPass by Kantech.

- **DLL registration:** The available DLL in this menu will be used to specify which type of hardware the customer will connect to EntraPass.
 - Click on **Add** to integrate another DLL. For additional details, see Integrated Panel Configuration.
- **Virtual keypad:** The **Virtual keypad** tab allows the user to customize the virtual keypad screen display. Three different display modes can be selected: **Floating**, **Modal** or **Stay on top**.

Multimedia devices configuration

The Multimedia devices utility allows you to set up your system multimedia objects:

- Alarm sound
- Video capture devices
- Signature capture devices
- Video feature devices

Selecting an Alarm Sound

1. From the Options main window, select the **Multimedia devices** button.
2. Check the **Assign alarm sound** option if you want an alarm sound notification.
3. Select a sound from the displayed list.
4. Select a **Priority** level for the selected sound so that it is played when an alarm defined with this priority is sounded.
 - ① **Note:** The Priority level refers to the order in which alarm messages are displayed in the Alarm desktop. In EntraPass, 0 is associated with the highest priority, and 9 to the lowest. For more information, see [Event Parameters Definition](#) .
5. Click the **Play** button to listen to the selected sound. The system will play the selected sound.

6. Click the **Add** button to add a new sound from your personal files. Clicking on this button displays a new window allowing you to add new alarm sounds.
 - ① **Note:** The **Current** selection section displays the sound currently selected (in use). You can adjust the delay of the alarm sound in the Delay field.

Defining Video Options

1. From the Multimedia devices window, select the **Video capture** tab.
2. Check the **Enable video capture** box to enable the video capture options in your system.
 - **MCI device** : Standard Windows® capture drivers.
 - **Twain device** : Twain capture drivers. (Recommended).
 - **Use overlay** : Option activated for image capture devices.
 - **Enable controls menu** : Activates options (such as zoom, pan and tilt) on image capture devices, if applicable.
 - **MCI device number** : Select identification number of MCI device.
 - **Portrait** : Enables portrait orientation of captured images.
 - **Landscape** : Enables landscape orientation of captured images. (Default value).
3. Click the **Test** button to verify if the video camera is functional.

Setting Up the Signature Capture Device

1. From the Multimedia devices window, select the **Signature** tab.
2. Check the **Enable Signature pad** option to enable the use of a signature pad device.
3. From the displayed list of supported Signature pad devices, select the driver for the signature pad you want to use.
4. Check the **Remote application** box if the signature device is setup as such.
5. Select a **Pen width** .
6. Use the **Test** button to check if the driver selected is functional. When you click the **Test** button, the **Signature Pad Test** window appears. This window appears whenever you choose the Signature pad option (Card definition windows).
7. Select the **Video** tab to set video options for use with the Video Integration feature. This option allows you to choose between the windows or video format for Video playback (for Intellex only).
 - **Disable DirectX** option: DirectX is a Windows® technology that enables higher performance in graphics and multimedia, including video and sound. By default, DirectX is enabled with the Video feature. However, you may want to disable it; if for example Video images are not correctly displayed or are not displayed at all, disabling DirectX can be useful. However, when DirectX is disabled, the system will use more system resources.
 - The **Video bandwidth control** option allows you to reduce or increase the bandwidth required to stream live video without compromising video storage quality and computer performance. The range value is between 64 KB/s and 8192 KB/s.
 - ① **Note:** The video bandwidth control value cannot **exceed** the EntraPass Server value (see page 476).

Printers selection and configuration

The **Printer options** window that can be accessed under the **Options** toolbar allows users to select a log printer that will be used when printing events and to select a report or a badge printer.

Selecting and Setting Up a Log Printer

About this task:

When you define events (in the **Events parameters** definition menu), it is possible to determine how and when events will be printed. For example, you can decide to dispatch events to an EntraPass application, a printer, or to activate a relay. Your decision may be based on, for instance, schedules that will send alarms to a remote terminal at a specific moment.

① **Note:** You need to assign a “print” schedule to certain events to print them at a specified time.

1. From **Printer options** dialog select the **Log printer** tab.
2. Select a printing option in the **Printer type** section:
 - **No log printer**— If you select this option, no event will be printed, even if a print schedule is defined for the events.
 - **Use Network/Local Windows® printer (page printer)** —If you select this option, all events sent to the printer will be buffered and printed when a full page is ready to be printed. Events will be printed on the network/local printer - not on a specific log printer.
 - **Use local dot matrix printer** —If you select this option, all events sent to the printer will be printed one-by-one and one under the other, or it will print one event per page, depending on your printer type. Select the printer port that will be used in the “printer” field. Specify if messages and alarms will be printed on this printer.
3. In the **Printer selection** section, specify whether you want to print message or alarms.
 - **Print messages log** —If you select this option, all events that are assigned a “display” schedule in the events parameters menu will be printed.
 - **Print alarms logs** —If you select this option, all events that are assigned an “alarm” schedule (and need to be acknowledged) in the events parameters menu will be printed.
4. From the **Printer** drop-down list, select the specific printer that will be used as a log printer.
 - If you have selected a **dot matrix printer**, select the **Port** on which the printer is connected to communicate with the computer. The **Port** field appears when a dot matrix printer is selected.
 - If you are using a **network/local printer**, select the **Font** and the **Font size**. The font and font size influence the number of events that will be printed on one page. Using a smaller font increases the number of events printed on a page.

Selecting and Setting Up a Report Printer

About this task:

The **Report printer** will be defined to print reports.

1. From the **Printer options** window, select the **Report printer** tab.

Selecting and Setting Up a Badge Printer

About this task:

The Badge printer will be defined to print badges that are created in EntraPass.

1. From the Printer option window, select the **Badge printer** tab.
2. Check the **Badge printer** option if a badge printer will be used; as a result, the Print badge and Preview badge button will be displayed in the Card window.
3. From the **Select badge printer** drop-down list, select the appropriate badge printer.
4. If you want the picture on the reverse side of the badge to be inverted, click the **Invert Reverse Side** box.
5. Check the **Use bar code 39** as font when appropriate, and select the corresponding **Font** .

Registration

Use this menu to register new system components, including the KTES, For more information, see [System Registration](#) .

Selecting and Setting Up a Badge Printer

About this task:

The Badge printer will be defined to print badges that are created in EntraPass.

1. From the Printer option window, select the **Badge printer** tab.
2. Check the **Badge printer** option if a badge printer will be used; as a result, the Print badge and Preview badge button will be displayed in the Card window.
3. From the **Select badge printer** drop-down list, select the appropriate badge printer.
4. If you want the picture on the reverse side of the badge to be inverted, click the **Invert Reverse Side** box.
5. Check the **Use bar code 39** as font when appropriate, and select the corresponding **Font** .

System date and time modification

About this task:

Use the **Change system** option with caution and only when necessary; this function may affect logical components of the access system (for example schedules).

1. From the Option main window, select the **Date and Time** button.
2. Enter the date in the **Date** field, or select a date from the calendar. Connected components of this application will also receive the date change notification.
3. Enter the time in the **Time** field. Connected components of this application will also receive the time change notification.
4. Click **OK** to exit.
 - ① **Note:** If you want the system to automatically change the time when necessary, use the Time adjustment tab of the Server Parameters definition menu. For more information, see [Time Parameters](#).
 - **Important:** Do not change the time using Windows settings. It is strongly recommended to change the system time through the server parameter settings.

System language selection

EntraPass allows you to run the software in the language of your choice. The basic languages are English, French, Spanish, German, and Italian. Use the vocabulary editor utility to add other custom languages.

Changing the System Language

1. From the EntraPass main window, select the **Options toolbar** , then click the **Select language** button.
 - ① **Note:** When you modify the primary language, the database operation will be suspended during the operation and the changes will be effective only when you shutdown and then restart the system. The database language will be modified according the ascii values of the characters in the primary language. Accents and special characters of different languages may have an impact on your database.
2. From the **Select primary language** drop-down list, select the language you want to use as a primary language. From the **Select Secondary language** drop-down list, select the language you want to use as a secondary language.
3. Log out of EntraPass and login again.

System parameters configuration

The system parameters window allows the system administrator to modify parameters that define the EntraPass system. Parameters have been grouped together under different labels such as Firmware, Image, etc. If the video integration feature is enabled in your system, the corresponding parameters will appear under the video label.

Server Parameters

On the **Server** tab, you can define disk free space threshold and button status.

E-mail Server

About this task:

EntraPass offers users the ability to send reports using email capabilities. This function can also be used with SMTP servers asking for a user authentication.

- ① **Note:** SSL connections are not supported.
1. In the **Email server (SMTP or Exchange server)** field, enter the IP address of the Email server that will be used for sending emails.
 2. In the **Email Port** field, enter the number of the port that will be used for sending emails (usually 25).
 3. Select the encryption method:
 - Unsecured (No SSL/TLS)
 - Gmail (SSL/TLS)
 - Secured (SSL/TLS)
 - Office 365 (STARTTLS)
 4. Enter a valid Email address in the **Email sender** field. This email address will be used for authenticating the email server.

Disk Space

The Disk Space feature has been developed as a protection against system failures that may be caused by the lack of disk space. This feature allows you to monitor the amount of free disk space for optimal system operation or for generating reports. In fact, EntraPass offers the ability to have the system abort the execution of a report if the free disk space has reached a specified threshold.

- **Disk free space threshold (MB)** : scroll-down list: specify a disk free space threshold that indicates when you want the system to send a message when the amount of free space falls below the value indicated. This value is in mega bytes. The range value is 2000 up to 99999 MB.
- **Time between notifications (hh:mm)** : enter the amount of time between notifications when the disk free space has reached the quota specified in the **Disk free space threshold** field. For example, if you enter 00:30 in the field, a system warning will be displayed every half hour. The time range value is 00:10 to 24:00.

Logout and Idle

- **Automatic logout on idle**: the operator will have to re-enter his user name and password to enable the server application again. The maximum allowed delay is (mm:ss): 9 minutes and 59 seconds.
 - **Send to tray on idle**: the server application will be minimized and sent to the task bar when the specified delay expires, if the operator who is currently logged in is inactive. The maximum allowed delay is (mm:ss): 59 minutes and 59 seconds.
 - **Must login to close a Server application**: if checked, this option obliges operators to authenticate themselves by entering user name and password to close the Server application.
 - **Notify last log out**: if checked, EntraPass will notify the last operator who is logging out.
 - **Display Login List**: if checked, the five most recent operators to log into any EntraPass application will be displayed in the login dialog. This feature allows for easier system access for the operators who will simply select their user name and enter their password. It can also be used for administrative follow up where a System Administrator can view the list of operators who have recently logged on a specific application.
- ⓘ **Note:** Despite the advantages, it is recommended to disable the Display Login List whenever system security is at stake.

Schedule

- **System schedules**: System schedules are applicable to system logical components such as: operators login schedules, video triggers, etc. System schedules are not loaded in a particular controller; they are applicable to all the system. You can program an unlimited number of system schedules.
- **Multi- site schedules**: These are defined per connection. You can define 100 schedules per Multi-site for such purposes as power supervision (controllers), door unlocking, REX trigger (doors), activation mode (relay), input monitoring, etc.
- After checking the box and clicking **OK**, a warning will popup on screen indicating that the action is reversible but with consequences.
- We strongly suggest that you perform a backup of your data before activating this option.
- Once the process has been completed, you will notice that the **Schedule** tab will have disappeared from the System Parameter dialog.

- **Enable schedule to bypass Rex:** In order to enable the primary and secondary **Rex Bypass message schedule** options for doors, The **Enable schedule to bypass Rex** option must be selected. Please refer to [Door Configuration](#) for more details.

Icon Status

The **Status time out delay (m:ss)** parameter allows you to define a period of time before the workstation queries the server for the latest button statuses. The higher the delay, the lower the button refresh rate will be, therefore creating less traffic on the network. The maximum time out delay is 1 min. 30 seconds.

Password rules

The purpose of this feature is to add more parameters to the operator's password.

1. On the **Options** tab, click **System parameters** and click **Server**.
 2. Click the **Password rules** tab and select **Specific password rules**. To create strong passwords, for each field, select the following values:
 - A minimum of 8 and a maximum of 20 characters.
 - A minimum of 1 numerical character.
 - A minimum of 1 special character.
 - A minimum of 1 uppercase letter.
- ① **Note:** Also, when you create passwords, remember the following rules:
- Passwords are case sensitive.
 - Passwords cannot contain the word `Kantech`.

Result After you select this option, all newly created or modified operators must comply with the password rules.

Firmware Parameters

This section contains all the information pertaining to controllers, gateways and IP communication module, as well as the section to update you firmware.

- ① **Note:** The KTES tab will be available only if a KTES controller have been previously defined in the system. See [Kantech Telephone Entry System \(KTES\) Configuration](#) for more information.

KT-100

The **KT-100** tab specifies the location of the folder containing the firmware for KT-100 controllers. The system will use this data to update the installed controllers (not available in EntraPass KTES Edition).

KT-300

The **KT-300** tab specifies the location of the folder containing the firmware for KT-300 controllers. The system will use this data to update the installed controllers (not available in EntraPass KTES Edition).

KT-400

The **KT-400** tab specifies the location of the folder containing the firmware for KT-400 controllers. The system will use this data to update the installed controllers (not available in EntraPass KTES Edition) .

- When checked, the **Enable TFTP KT-400 updater** option will allow operators to upgrade the KT-400 firmware from the **Update firmware** button from the **Operation > Site** dialog in EntraPass.
- Enable automatic firmware update: Select to make an update of each KT-400 with a different firmware version.
 - ⓘ **Note:** The automatic firmware update function applies only to KT-400s that support it. The multi-site Gateway must be restarted in order to enable the TFTP KT-400 updater.
- For security reasons, you may decide, as a System Administrator to disable this option and not allow operators to update the firmware.

KT-1/KT-2

The **KT-1/KT-2** tab specifies the location of the folder containing the firmware for KT-1 and KT-2 controllers. The system will use this data to update the installed controllers (not available in EntraPass KTES Edition).

- Select the **Enable TFTP KT-1/KT-2 updater** option to allow operators to upgrade the controller firmware using the **Update firmware** button from the **Operation > Site** dialog in EntraPass.
- **Enable automatic firmware update:** Select to make an update of each controller with a different firmware version.
 - ⓘ **Note:** The automatic firmware update function applies only to controllers that support it. Restart the multi-site Gateway to enable the TFTP KT-1 updater.
- For security reasons, you may decide, as a System Administrator, to disable this option and not allow operators to update the firmware.
- Select the **Firmware flashing mode** to apply.

KTES

The **KTES** tab specifies the location of the folder containing the firmware for the KTES. The system will use this data to update the installed KTES.

Kantech IP Link

The **IP Link** tab specifies the location of the folder containing the firmware for the Kantech IP Link module . The system will use this data to update the installed firmware (not available in EntraPass KTES Edition) .

- When checked, the **Enable TFTP IP Link updater** option will allow operators to upgrade the IP Link firmware from the **Update firmware** button from the **Operation > Site** dialog in EntraPass.
 - ⓘ **Note:** The Multi-site Gateway must be restarted in order to enable the TFTP IP Link updater.
- For security reasons, you may decide, as a System Administrator to disable this option and not allow operators to update the firmware.

ioSmart reader

- The **ioSmart reader** tab specifies the location of the folder containing the firmware for ioSmart readers. The system will use this data to update the installed readers.

ioModules

The **ioModule** tab specifies the location of the folder containing the firmware for the ioModules. The system uses this data to update the installed ioModules.

KT-401

The **KT-401** tab specifies the location of the folder containing the firmware for KT-401 controllers. The system will use this data to update the installed controllers (not available in EntraPass KTES Edition) .

- When checked, the **Enable TFTP KT-401 updater** option will allow operators to upgrade the KT-401 firmware from the **Update firmware** button from the **Operation > Site** dialog in EntraPass.
- Enable automatic firmware update: Select to make an update of each KT-401 with a different firmware version.
 - ① **Note:** The automatic firmware update function applies only to KT-401s that support it. The multi-site Gateway must be restarted in order to enable the TFTP KT-401 updater.
- For security reasons, you may decide, as a System Administrator to disable this option and not allow operators to update the firmware.

Image Parameters

The **Image** section is where you will define parameters for the badging features. You will define image quality for picture, signature and background images.

- If you are using the badging feature, it is recommended to leave the jpeg quality to default. Reducing the image quality may affect the quality of the pictures imported from badges.
- If you are not using the badging feature, you may reduce the jpeg quality of your images so that they will not occupy a large space in the database. You must take in consideration, however, that reducing the quality of the saved images may affect the quality of the photos imported into badges.

A parameter allows you to save cards and visitor card pictures, signatures and background graphics to a file instead of directly to the database. We are offering this option for sites that have large banks of pictures and graphics. The picture, signature and graphic database can currently contain up to 2 Gb of data each. The parameter will be used in instances where a site may need more space to save pictures, signatures and graphics.

Picture and Badging

The picture and badging feature allows you to adjust the image and signature quality for use with the Badging feature (not available in EntraPass KTES Edition).

- Unchecking **Use JPEG format for pictures, signatures and badges** tells the system to save pictures (or signatures) in a tiff format.
 - ① **Note:** Remember that this may affect the image quality. If you are not an advanced user, leave these values to default.
- The **User picture, Signature, Badge background** and **Badge picture** indicate the quality of the image that will be saved. If you choose 10, the saved image quality will be poor; 100 indicates an excellent quality.

- Select the location of the **Picture (Signature) transparent colour position** for pictures and signature. Four choices are available (top-right, top-left, bottom-right and bottom-left). By default, the system chooses the bottom left-hand corner for the transparent background colour. EntraPass allows operators to choose a more suitable colour.
- When checking the **Save card pictures and signatures in a file** box, the system will create **Picture** and **Signature** directories under C:\Program Files\Kantech\Server_SE\Data where all pictures and signatures will be saved instead of directly in the database.
- When checking the **Save visitor pictures and signatures in a file** box, the system will create **Picture** and **Signature** directories under C:\Program Files\Kantech\Server_SE\Data where all visitor pictures and signatures will be saved instead of directly in the database.
 - ⓘ **Note:** When modifying an existing picture or signature, EntraPass will save it to the appropriate file and delete the corresponding entry in the database.

Graphic

The graphic feature allows you to adjust the graphic quality for use with the EntraPass software.

- Unchecking **Use JPEG format for graphics** tells the system to save graphics in a tiff format.
 - ⓘ **Note:** Remember that this may affect the image quality. If you are not an advanced user, leave these values to default.
- The JPEG quality value for **Graphic background (picture)** indicates the quality of the image that will be saved. If you choose 10, the saved image quality will be poor; 100 indicates an excellent quality.
- When checking the **Save graphics in a file** box, the system will create a **Graphic** directory under C:\Program Files\Kantech\Server_SE\Data where all graphics will be saved instead of directly in the database.
 - ⓘ **Note:** When modifying an existing graphics, EntraPass will save it to the appropriate file and delete the corresponding entry in the database.

Report Parameters

The **Report** tab enables users to define the field separator for reports, disk free space threshold and user name format.

CSV

Under the **CSV** tab, you can define the field separator for your reports.

- By default, the system uses a comma (,) as the **Field separator** . You can modify the comma for another character. Other options are: Period, Equal, Semicolon, Colon, Space and tab.
- It is recommended to check the **Date and time on separate fields** option . When selected, CSV (comma separated values) as the output process for your reports, by default, the system includes the date and the time in a single field. When you select this option, the system will separate the date and the time fields.

Disk Space

This feature is a protection when for instance a huge report has been requested. In this case, the system will abort the execution of the report and displays an alert message indicating the reason of the cancellation.

- **Abort report if free space lower than (MB):** scroll-down list allows you to specify the minimum amount of free disk space required for the execution of reports. The range value is 2000 to 999,999 MB.

- **Maximum event for email report** scroll-down list allows you to specify the maximum number of events that can be sent via an email report. The range value is 100 to 100,000 events.
- **Maximum event for standard report** scroll-down list allows you to specify the maximum number of events that can be sent in a report. The range value is 1000 to 500,000 events.
- **Simultaneous report process:** specify the maximum number of reports that can be generated simultaneously. Up to 10 reports can be executed simultaneously without affecting the performance of the system.
 - ① **Note:** When the number of events for reports exceeds the maximum number, some events will not be included in the report. This will create the event **Report event quota exceeded**. This will be displayed in the desktop Messages and be added to the report.

User Name Format

Specifying the user name format will tell the system how card holder's names will be displayed in EntraPass (not available in EntraPass KTES Edition).

- **Parse user name** should be checked if you want to select a method of parsing the user's name in the system.
- **User name format** lets you select the parsing method. Options are: Begin with last name, Begin with first name.
- **Parse user name with** lets you select the character that will be used to parse the user name fields. Options are: Comma, Period, Equal, Semicolon, Colon, Space.
- **Strict search on card field** should be left empty unless you wish to keep the previous method (EntraPass Version 3.17 and lower) of strict searching a card field for reports.
 - ① **Note:** Prior to version 3.18 of EntraPass, the system used a strict search method that required Administrators to enter specific upper and lower boundaries to attain specific results. For example, for generating a report that included all users whose last name started with A, the lower boundary had to be A and the upper boundary had to be AZZZZZ. Now, the system will display all user names that start with an A just by entering A as a lower and upper boundary.

Video Parameters

The **Video** section will display only if the Video integration option is enabled in the EntraPass system. You will define the time synchronization, remote video process and JPEG format for video images.

Parameters

The **Parameters** tab allows you to define parameters for the video process.

- **Disable manual time synchronization** will keep the EntraPass server from updating the video server date and time following a manual modification of time. This feature is useful when, for example, you want to keep all recording events that occurred at the video server regardless of the actual time at the EntraPass server.

- The **Remote video process control parameters** section contains parameters that define remote management of video processes between the EntraPass Server and the video servers connected to EntraPass. It manages all the tasks (controls) related to: recordings, polls, events, and presets and patterns.
 - **Preset and pattern control application** field allows you to enter the number of applications that will be simultaneously launched for processing presets and patterns. The system is preset with a range value of 1 to 8 concurrent applications.
 - ① **Note:** A Preset and Pattern Control application is launched each time a video recording is started following a trigger on a preset. If you set this number to 1 and if there are for instance more than 1 video servers with presets and patterns defined, the control application will process presets on all video servers. If you decide to increase the number of Preset and Pattern Control Applications, keep in mind that running many concurrent applications takes a great amount of system resources.
- **Reset remote video process application** will allow the system to terminate and automatically restart the Remote Video Process application a few seconds later. This option may be used in instances when the video events are not being displayed.
- **Reset remote video process applications control** will allow the system to terminate the Control applications (recordings, polls, events and preset and patterns) and automatically restart the Remote Video Process application.
- Log Video process error will allow the system to keep a log of all video process errors in the EntraPass server files. Video process errors are logged in C:\Program files\Kantech\Server_SE\Bin\Log. Each Remote Video Process Control application generates a log file:
 - RVP_LOG_00.txt (errors generated by RVP0.exe)
 - RVPPoll_LOG_01.txt (errors generated by RVPPOLL1.exe)
 - RVPEvent_LOG_02.txt (errors generated by RVEVENT3.exe)
 - RVPRecord_LOG_03.txt (errors generated by RVPRECORD3.exe).
 - RVPControl_LOG_04.txt (errors generated by RVPCONTROL4.exe).The system will generate as many log files as there are control applications running concurrently (RVPControl_LOG_05 to 08). The number of error log files will be equal to the number defined in the **Preset and pattern control application** field .

Snap:

The **Snap** option allows you to define the image quality that will display in the video thumbnails.

- The **Video image snap** indicates the quality of the image that will be saved as a thumbnail for each video. If you choose 10, the saved image quality will be poor; 100 indicates an excellent quality.

Intellex:

The **Intellex** options allow you to define the bandwidth allowed for the video process (for Intellex only).

- **Disable DirectX** will disable DirectX, a Windows® technology that enables higher performance when working or viewing graphics and other multimedia contents, including video and sound. By default, DirectX is enabled with the Video feature. You may sometimes need to disable it if, for example, video images are not correctly displayed or are not displayed at all.
 - ① **Note:** The system will use more system resources when DirectX is disabled
- **Limit video bandwidth** allows you to reduce or increase the bandwidth required to stream live video without compromising video storage quality and computer performance. The range value is between 64 KB/s to 8192 KB/s. The value will apply to all workstations . However, for any specific workstation, this value can be reduced locally from the Options toolbar > Multimedia Devices > Video .
- **Video vault save delay** is used to indicate the time delay before the video vault recording can be played back.
- **Video vault save delay** is used to indicate the time delay before the video vault recording can be played back.
- **Video vault save delay** is used to indicate the time delay before the video vault recording can be played back.

Time Parameters

- **No time adjustment** will disable the option.
- **By Gateway** will automatically synchronize the time of all computers with the Gateway selected in the scrolling list.
- **By Server** will automatically synchronize the time of all computers at regular intervals. You must also select the rate of **Hours between refreshes** in the adjacent selection box. The range value is 1 to 9999 hours.

Workstation and Server

Toolbar Buttons

The toolbar buttons size can be increased up to 2.5 times the original size, in order to improve visibility of the text below the button. Logout and log back in to apply the change to the toolbar.

Assign a New Connection to a Site

① **Note:** Please refer to [Connection Configuration](#) for more details

To enable or disable the feature, select an option:

- **Prompt:** System will prompt the user to specify the site to be connected to (optional) when creating a new connection.
- **Mandatory:** System will prompt the user to specify the site to be connected to (mandatory) when creating a new connection.
- **Disable** (default)
 - ① **Note:** No reference will be made virtual sites unless at least one has been created previously (see [Site Configuration](#) for details).

Integration

The **Integration** tab allows the user to select third party hardware that has been integrated to EntraPass by Kantech.

DLL registration: The available DLL in this menu will be used to specify which type of hardware the customer will connect to EntraPass.

- Click on **Add** to integrate another DLL. For additional details, see Integrated Panel Configuration.

Virtual keypad: The **Virtual keypad** tab allows the user to customize the virtual keypad screen display. Three different display modes can be selected: **Floating**, **Modal** or **Stay on top**.

Web Interface

Web tab

Use the **Web interface** button to configure EntraPass Web parameters.

- **Allow messages to EntraPass Web:** Select to allow the operator to see messages in EntraPass Web.
- **Maximum web messages:** Select a maximum from the counter.
- **Signature pad pen width:** Select a width value for the pen used with the signature pad.
- **Maximum request simultaneously by session:** Select the maximum number of report requests that can be done simultaneously.
- **Message filter for web messages:** From the drop-down list, select a filter for the messages to be displayed.
- **Badge image ratio for web:** Use the selector to increase the image printing quality (default value is 2). Note that increasing the ratio value will also increase the file size.

Web Customization tab

- **Custom color:** Click to change the color used in the interface (menus perimeter lines for example).
- **Page logo:** Click to insert (or change) a logo in the top left corner of the interface.

go Pass Tab

About this task:

If you register the go Pass mobile application, the **go Pass** tab appears. Use go Pass with a smartphone or an Apple watch to lock or unlock a door. For convenience, you can control a door from a remote location. For a higher level of security use an ioSmart reader with the door, ioSmart readers use BLE technology. To cater for a range of security levels, select an option from the

Proximity Restriction list.

1. To display a cardholder's encrypted personal profile on notification e-mails, select the **Display viable notification information** check box. Cardholders use their personal profile details or a link on the e-mail to gain access to the go Pass application.
2. To resend all go Pass notification e-mails to all valid cardholders, click the **Resend go Pass notification for all valid card holders** button.
3. To control how and when SmartLink responds to invalid go Pass commands, define all three settings in the **Security** area:
 - To set how many invalid requests occur before SmartLink responds, enter a number in the **Notification debounce on wrong request** field.

- To set the time to pass before SmartLink responds, enter a number in the **Debounce delay (ss)** field.
- To prevent SmartLink responding to any go Pass requests for a certain amount of time, enter a number in the **Disable Go Pass when notification (m:ss)** field.

For example, # of invalid requests within # seconds = # seconds before SmartLink responds to go Pass requests + “Too many goPass failed request” event displays.

4. Select one of the following options from the **Proximity Restriction** list:

- **None** there is no restriction, the go Pass cardholder can lock, and unlock doors remotely, and at the door. EntraPass ignores BLE technology.
- **Strict (ioSmart BLE only)** - if the go Pass cardholder presents go Pass at an ioSmart reader, the go Pass cardholder has to be within range of the door.
- **Hybrid (BLE when available)** - use for go Pass cardholders who have access to ioSmart readers and non-ioSmart readers. If the go Pass cardholder is at an ioSmart door, the cardholder has to be within range, if it is a non-ioSmart door the cardholder can control the door remotely

① **Note:** If you fail to select the **BLE** checkbox in the reader template that the controller uses, the **Proximity Restriction** selection is redundant.

User Name Format

- **Parse user name** should be checked if you want to select a method of parsing the user’s name in the system.
 - **User name format** lets you select the parsing method. Options are: Begin with last name, Begin with first name.
 - **Parse user name with** lets you select the character that will be used to parse the user name fields. Options are: Comma, Period, Equal, Semicolon, Colon, Space.
 - **Strict search on card field** should be left empty unless you wish to keep the previous method (EntraPass Version 3.17 and lower) of strict searching a card field for reports.
- ① **Note:** Prior to version 3.18 of EntraPass, the system used a strict search method that required Administrators to enter specific upper and lower boundaries to attain specific results. For example, for generating a report that included all users whose last name started with A, the lower boundary had to be A and the upper boundary had to be AZZZZZ. Now, the system will display all user names that start with an A just by entering A as a lower and upper boundary.

Backups

A backup is a copy of your system database which serves as a substitute or alternative in case the computer fails. Backing up your files safeguards them against accidental loss when for example the hard disk fails or when you accidentally overwrite or delete data. If your computer system fails, you can restore a backup copy onto another computer, that has the EntraPass application installed .

The EntraPass **Backup** tab allows operators to perform manual backups of the system data (D), archive (A), In/Out (T) and video (V) databases. It is also used to restore backup data.

Use the following safeguarding tips:

- Back up your files regularly, at least once a week or more if many modifications were made to the database.
 - We recommend that you make two backups of all your database files and keep them in different locations.
 - To backup your files, use any of the following options:
 - The menu of the EntraPass backup utility.
 - Other third party software and hardware.
- ⓘ **Note:** By default, when you backup or restore files, the EntraPass database is temporarily disabled. In the EntraPass application main window, the second colored square at the bottom left of the screen turns red when the database is unavailable. Modifications made on the workstations are not applied to the database until the database is available again.

All the system data can be found under the following path: C:\Program Files\Kantech\ Server_SE \XXXX. If you are using a third party program to perform backups, it is recommended to backup the whole Kantech directory and sub-directories. Each time a backup is done (even if it is done automatically), a new sub-folder containing the data or the self-extracting file is created. If you are using the “incremental” backup type and you want to restore information, you will have to restore all the sub-folders one-by-one (starting with the oldest).

Creating Backups of Type D, A, T and V

About this task:

By default, the name of the sub-directory in which the data/archive/In-Out/Video databases will be saved is generated automatically according to the following convention: X_YYYY_MM_DD-h_mm_ss, where X is the data type (D for Data, A for archive, T for In/Out, V for video). The following steps explain how to backup data. The same steps apply also when you backup archives or In/Out data.

1. Select the item you want to backup:
 - **Backup Data**
 - **Backup Archive**
 - **Backup In/Out**
 - **Backup Video Events**
- ⓘ **Note:** By default, EntraPass backs up all the information originating from the following directory: C:\Program Files\Kantech\Server_SE\Data or Archive or In/Out to C:\ProgramFiles\Kantech\Server_SE\Backup\ X_YYYY_MM_DD-h_mm_ss, where X is the data type. The data type is followed by the year, month and day information as well as the time of the backup.

2. Select the Backup type:
 - **Separate file:** The system will back up the databases one by one (standard). This backup type includes the Regdata.ini file containing the following identification data: software used to create the backup, backup type (data, archive, In/Out), operator who requested the backup, date and time of the backup as well as the software version.
3. From the **Drives** drop-down list, select the drive on which the backup will be performed. A list of choices is available according to your computer settings. To save as default, leave as is.
4. You may click the **New folder** button if you want to specify a new destination folder.
5. Click **OK** to launch the backup procedure. The backup process can be viewed on the bottom part of the window.
 - ① **Note:** You can use the “Backup Scheduler” to schedule or plan automatic backups. To schedule automatic backups see [Backup Scheduler](#). When you backup or restore files, the Server databases are temporarily disabled. You cannot modify the databases when a backup is in process.

Restores

About this task:

If you are restoring data, it is strongly recommended to perform a backup before you do so. If you are using a third party program to restore the data, it is recommend to restore the whole Kantech directory and sub-directories.

1. From the **Backup** tab, select the appropriate restore button: **Data, Archive, In/Out, Video**. The system displays the **Restore data** window. It displays the path of the backup folder.
2. To change the destination folder, browse **the Drives** list. Click **OK** to launch the restore process.
3. If you click the **Complete** button, the system restores all the information from the selected directory.
 - ① **Note:** By default, the system restores all the information originating from the following directory: C:\ProgramFiles\Kantech\Server_SE\Backup\X_YYYY_MM_DD-h_mm_ss to C:\Program Files\Kantech\Server_SE\Data or Archive or In/Out.

We recommend to reload the Gateway after restoring the data (Operation > Reload data).

Log

About this task:

The log window contains all the login and logout events for all workstations defined in the system. The logs are displayed with date and time, the workstation name, the operator name using the workstation as well as the log type. The log window contains all the login and logout events for all workstations defined in the system.

1. To view system logs, select the **Log** button from the **Server** menu.
2. Click the **Text filter** button. In the **Text filter** window, enter the text string, for example `Kantech`, and the system will only display logs containing the specified string text. To return to normal display, click **Text filter**.

3. Columns:
 - **Date and time:** This is the normal incoming sequence, if you select another sorting mode, you interrupt the normal sequence. Select date and time to restore the normal sequence. To do this, you have also to use the **Restart scroll** button.
 - **Workstation:** When selected, all columns are sorted according to the **Workstation** column in alphabetical order.
 - **Operator name:** When selected, all columns are sorted according to the **Operator** name column in alphabetical order.
 - **Transaction:** When selected, all columns are sorted according to the **Transaction** column in alphabetical order.
4. To change the **background color**, right-click in the window and select **Background color** from the displayed shortcut list. Pick a color from the standard Windows dialog.
5. To clear the window, right-click in the window and select **Delete All** from the shortcut menu.
6. **Optional:** To export the logs to a CSV file, right-click in the window and, from the shortcut menu, select **CSV Export**.

Error Log

About this task:

The system errors are displayed with the date and time, the code number, the workstation name where the error originated from, the error code and its description.

1. Select the **Error Log** button from the **Server** menu to view all the errors that occurred in the system.
2. Click the **Text filter** button to display the Text filter window. From that window, enter the text string (i.e.: Kantech), and the system will only display logs containing the specified string text. To return to normal display, click on text filter.
3. Columns:
 - **Date and time:** This is the normal incoming sequence, if you select another sorting mode, you interrupt the normal sequence. Select date and time to restore the normal sequence. To do this, you have also to use the **Restart scroll** button.
 - **Code :** When selected, all columns will be sorted according to the **Code** column in alphabetical order.
 - **Workstation :** When selected, all columns will be sorted according to the **Workstation** column in alphabetical order.
 - **Error Code :** When selected, all columns will be sorted according to the **Error Code** column in alphabetical order.
 - **Description :** When selected, all columns will be sorted according to the **Description** column in alphabetical order.
4. You may also use the right-click menu to change the window background or to clear all the data displayed.
 - ① **Note:** You can export the logs to a CSV file. To do this, right-click in the window, then select **CSV Export** from the shortcut menu.

Utilities

Use utilities to manage, maintain and optimize EntraPass. The express setup feature provides a quick and simple way to configure all the components of a new connection, use [Express setup program](#) when configuring a KTES, system gateway, or controller. If you want to define operation modes and schedules for relays, see [Defining Relays](#). For input response times and monitoring schedules, see [Defining Inputs](#). To establish which, auxiliary output to use for your controller, see [Defining auxiliary outputs \(LED and buzzer\)](#).

Use the [Database utility](#) program to verify manually the integrity of the database tables. Features include verifying database index, links, and hierarchy, as well as updating database fields and cleaning the database.

The [Video Vault](#) is a video data storage and archive management tool. Use this section to install and launch Video Vault, and to manage archived video segments.. To view EntraPass reports without starting EntraPass use [Quick report viewer](#) from Windows Start menu.

Use the [Vocabulary editor](#) to change the Graphical User Interface (GUI) language, choose from English, French, Spanish, Portuguese, German, Italian, Dutch, Turkish, and Simplified Chinese.

Database utility

The database utility program verifies the integrity of the database tables that are used to store events, alarms, network alarms, and graphics. The system scans all the system database tables and corrects errors (when they are found). Usually, the system verifies the database integrity automatically at start-up (a system message is displayed). If an operator decides not to perform a database check at startup, they can trigger the operation later, using the database utility program. It may also be necessary to launch the database utility program when for instance the system experiences problems frequently. This operation should be executed when the system is not used since the system database is not available during operations on the databases. Some verifications such as re-indexing the archive files, updating database fields, verifying archive files, or swapping database languages require that the EntraPass applications be shutdown. Once all the EntraPass applications that are running on the EntraPass Server computer are closed, you can start the database utility. When an operation that requires the application to be shutdown is launched, the operator is warned that the database access will be suspended during the operation.

① **Note:** You must shut down the EntraPass workstation before you run the database utility.

Running the Database Utility

1. You can launch the Database Utility from the Windows® **Start > All Programs > EntraPass Special Edition > Database Utility**.

① **Note:** When you select the File > Workstation menu, the system displays only two buttons, the Verify database integrity and the Update database fields buttons. The File > Server menu offers more choices.

Verifying Database Integrity

1. Click the **Verify database integrity** button in the toolbar. You have the choice to perform a **quick** or a **complete** check.
 - **Quick check** : The system scans through the database tables, but does not display a detailed report afterwards.
 - **Complete check** : The system scans through the database tables and a detailed report is displayed.

Updating Database Fields

About this task:

This function is automatically executed when you perform a software is updated. If an operator performs a database restore (**Server , Options** toolbar, **Restore**), the database fields are automatically updated when the information is restored. Even when an operator performs a database restore outside the Server (copies the databases from a third party backup program), this function is automatically carried out when the Server is started up again.

1. From the EntraPass Database utility window, select the **Update database field** button.
 - ① **Note:** Use this function when, for instance, you experience problems when starting the workstation. When the system does not start, this may imply that there are problems in the database; that the source and the structure do not match.

Verifying Database Index

The **Verify database Index** program allows to entirely rebuild the database index by using the information that was copied in the primary databases and grouping it to rebuild the Registry.DB database. The latter is used to increase the system performance.

- ① **Note:** This program can be used when a database is corrupted because it has not been backed up.

Verifying Database Links

The Verify Database Links utility is used to rebuild all the links of the database. Moreover, this program cleans the databases by deleting links that are no longer valid. For example, if a schedule was assigned to a functionality and this schedule was deleted, the system will initialize the field where it was assigned in the primary database. It will also remove the records that point to deleted components. For example, if an access level is assigned to a gateway and this access level was deleted, it will delete the record in the database. The Verify Database Links utility enables complete management of the links between each component and ensures that the correct information is displayed when:

- Viewing the structure of a component's links to all other components of the system,
 - Removing all the traces of a component within the database when this component has been deleted. For example, if a schedule is deleted, the system will use the link list to initialize all the database fields that contains this schedule.
- ① **Note:** It may be necessary to use this function when it is obvious that the database links are incorrect. This features is useful when for example the system experiences abnormal terminations.

Verifying Database Hierarchy

In EntraPass, the database is set up in a hierarchical way, which means that all components have a parent and can have children components. The Verify database hierarchy utility is used to rebuild the parent-child links within the database. The results of this program are limited if the damages of the database are severe.

- ① **Note:** When a user tries to access a controller by selecting a gateway and a connection and when the result does not correspond to the reality, this means that the database hierarchy is probably corrupted. In this case, the Verify database hierarchy feature can be used to correct the problem. If the problem cannot be fixed, this could mean that the database is too damaged to be fixed. It will be necessary to restore the database.

Verifying Database Archive Files

This function is used to verify archive files. It assigns a new unique sequential value to all primary indexes of archive files.

Verifying In/Out Files

This function is used to verify In/Out database files. It assigns a new unique sequential value to all primary indexes of In/Out database files.

Swapping Descriptions

This function is used to interchange or to swap the database descriptions.

Cleaning the Database

This option is used to physically remove database records which have been identified by the system as erased. Most of these records relate to cards and are kept in the Deleted Components section of the database. Using this option will considerably reduce the space required by your database. It will also improve system performance relating to searches for card information. It will not affect the table Registry, nor will it have an impact on historical reports.

- ① **Note:** It is strongly suggested to back-up the database before performing this operation. Clean database will suspend operation of the database while cleaning is in effect.

Rebuilding Card Last Transaction Files

This function is used to rebuild the card last transaction files.

Express setup program

The express setup program offers a quick and simple way to configure all the components of a system : type of readers used, number of connections, connection name, number of controllers on a connection, etc. For example, users can modify a door's name by automatically applying default settings to all relays and inputs of controllers connected to the selected door.

Configuring a multi-site gateway connection using express setup

1. From the Windows® Start menu: Start > **All Programs** > **EntraPass Global/Corporate/Special Edition** > **Workstation/Server** > **Express Setup**. You may also launch Express Setup by clicking the Express Setup button from the registration window or gateway definition window.
2. From Windows® Start menu: **Start** > **All Programs** > **EntraPass Special Edition** > **Express Setup**. You may also launch the Express Setup by clicking the Express Setup button (rabbit) from the various dialogs in the **Devices** toolbar.
3. Click the **New connection** button to create a new connection.
4. Enter the connection name in the **connection description** field, then select the reader type.
5. Select the **Controller type** for this connection.
 - ① **Note:** The KTES option is available for a Multi-site Gateway only.
There is no **reader type** or **number of controllers** to select when the controller type is a KTES.
6. Select the **Reader type** .
7. Set the **Number of controllers** .
8. Specify the **Connection type** . This indicates how the connection communicates with the computer. The connection types available will follow the controller type selection.
 - Select **Direct (RS-232 or USB)** , if the connection is integrated to the gateway computer and connected to it by an RS-232 serial port. If the connection type is direct, then you have to specify the serial port (com:.) as well as the controller connection baud rate (usually set at either 9600 or 19200). The default value is 19200.

- Select **Ethernet (polling)** if the connection communicates with the gateway through a terminal server device (Lantronix) using a port number. Then you have to specify the terminal server's IP Address and Port number . To configure the terminal server, follow the manufacturer's instructions or refer to the terminal server documentation.
 - Select **Dial-up (RS-232) modem** if applicable.
 - Select **IP address (KT-400)** if applicable. Complete the associated tabs.
 - Select **IP address (KTES)** if applicable. Complete the associated tabs.
 - Select **IP address (IP Link)** if applicable. Complete the associated tabs.
9. Click **OK** .
 10. Specify the minimum configuration for the controllers or KTES defined in the site. This includes assigning a name to the controller/KTES, specifying the passback option, and entering the serial number.
 - ⓘ **Note:** The **serial number** column appears only for the KT-100, KT-300, KT-400 controllers and the KTES. The **passback type** column only appears for the KT-300 and the KT-400. The passback feature will not allow any card to re-enter unless it has been used to exit. This requires that readers be used for both entry and exit.
 11. For a new site with a **KTES**, go to [Step 14](#).
 12. Check the **Same door 1 and 2** and **Same door 3 and 4** option if a reader is installed on each side of the door. The **Same door 3 and 4** boxes are available only when you are using KT-400.
 13. Select the appropriate **Passback type** (none, soft or hard). If a door is defined as an access door, there is no anti-passback defined for this door. An entry or an exit door can be assigned a passback option.
 14. Go to [Step 16](#).
 15. Check the **Door contact** option.
 16. Check the **Postal lock** option, if applicable, for a KTES only.
 17. Enter the **Serial number** , if this column is displayed. The serial number (**S/N**) is on a sticker and generally starts with **Axxxxxxx** .
 18. Click **OK** . The components associated with the controller and to the site are created in the server database. By default, the KT-200 and KT-300 are assigned two doors except for the KT-400 which is assigned four doors, if the **Same door** option is not checked. The following table summarizes default values that are assigned to controllers.
 - ⓘ **Note:** When the system is updating the database, the second status flag turns red, indicating that the system database is locked. When you try to access another system menu while the database is locked, an error message appears. Simply wait until the system database becomes available.

Result

The following are default values assigned to controllers by the Express Setup program.

Table 44: Express Setup controller default values

Controller or KTES	Door	Relay	Input zone	Auxiliary output
KT-100	1	4	4	2
KT-200	2	2	16	4
KT-300	2	2	8	4
KT-400	4	4	16	16

Table 44: Express Setup controller default values

Controller or KTES	Door	Relay	Input zone	Auxiliary output
KTES	1	3	4	2
KT-1	1	2	5	5
KT-2	2	2	8	5

The following table summarizes how input zones are used by the system for controllers.

Table 45: How the system uses input zones for controllers

Input zone	System use	Controllers
1	Door 1 contact	KT-100, KT-200, KT-300, KT-400, KT-1, and KT-2
2	Door 1 Rex	
3	Door 2 contact	KT-300
4	Door 2 Rex	
5	Door 2 contact	KT-400 and KT-2
6	Door 2 Rex	
9	Door 2 contact	KT-200
10	Door 2 Rex	
9	Door 3 contact	KT-400
10	Door 3 Rex	
13	Door 4 contact	
14	Door 4 Rex	

The following table summarizes how input zones are used by the system for the KTES.

Table 46: How the system uses input zones for the KTES

Input zone	System use	Kantech Telephone Entry System
1	Door Contact	KTES
2	Postal Lock	
3	Door Rex	
4	Future	

The following table summarizes how output zones are used by the system.

Table 47: How the system uses output zones

Auxiliary output	Use	Controllers
1	LED (Door 1)	KT-100, KT-200, KT-300 and KTES
2	Buzzer (Door 1)	
3	LED (Door 2)	KT-200 and KT-300
4	Buzzer (Door 2)	

Table 47: How the system uses output zones

Auxiliary output	Use	Controllers
1	OUT1 (Door 1)	KT-400
2	OUT2 (Door 1)	
3	LED (Door 1)	
4	Buzzer (Door 1)	
5	OUT1 (Door 2)	
6	OUT2 (Door 2)	
7	LED (Door 2)	
8	Buzzer (Door 2)	
9	OUT1 (Door 3)	
10	OUT2 (Door 3)	
11	LED (Door 3)	
12	Buzzer (Door 3)	
13	OUT1 (Door 4)	
14	OUT2 (Door 4)	
15	LED (Door 4)	
16	Buzzer (Door 4)	
1	OUT1 (Door 1)	KT-1
2	OUT2 (Door 1)	
3	LED (Door 1)	
4	Buzzer (Door 1)	
5	Unassignable	
1	LED (Door 1)	KT-2
2	Buzzer (Door 1)	
3	LED (Door 2)	
4	Buzzer (Door 2)	
5	Unassignable	

① **Note:** The remaining components (relays and input zones) are undefined, that is, they have been created but not yet defined. Components that are defined are grayed out. You cannot select them or change their description. You can change their description in their respective definition menu (Devices > Relays/Input zones).

By default, the system assumes that:

- The reader is ioProx Kantech XSF Format,
- The power supervision schedule is always valid,
- The failsoft delay is enabled for 45 seconds,
- The resistor type is **none** (KT-100, KT-300, KT-400 and KTES),
- The wait for second card delay is 30 seconds.

Configuring a Controller Using Express Setup

About this task:

When you select a connection type to a **new site** and immediately **save**, the system prompts you to use the **Express Setup** tool to define the device. You may also launch this tool by selecting a controller and clicking the **Express Setup** in the **Controller** dialog.

1. From the **Controller** window, select an undefined controller.
2. Under the **General** tab, select the **Controller type**.
3. Click on **Save**, a message box should display: Do you want to use the **Express Setup** program to configure the associated devices. Click **Yes** to continue with the **Express Setup**.
 - If you click on **No**, you can always return to the **Express Setup** by clicking on the button.
 - ① **Note:** Please note that the KT-300 is a 2-door system while a KT-400 is a four-door system.
4. Specify if **Both readers are installed on the same door**, if applicable (not for a KTES). When two readers are installed on the same door, the REX contact option is disabled.
5. Click the **Advanced** button to define the other devices, such as doors, inputs, relays and outputs.
 - ① **Note:** Components are listed in the left-hand pane. The related tabs are displayed in the middle of the window. When you select a component, its default name, number and default settings are displayed in the language section. Select a component to enable its tab. Components that are assigned are gray and cannot be modified at this stage. However, you may later modify any component description in its definition menu (Devices > **Controller/Door/Relay / Input / Output**).

Configuring a KTES Using Express Setup

About this task:

When you select a connection type to a **new site** and immediately **save**, the system prompts you to use the **Express Setup** tool to define the device. You may also launch this tool by selecting a KTES and clicking the **Express Setup** (rabbit button) in the **KTES** dialog.

1. From the **Site** window, click on **New** to define a new site. Assign it a name for both languages.
2. Under the **General** tab, select the **Controller type : Secure IP (KTES)**.
3. Click on **Save**, a message box should display: Do you want to use the **Express Setup** program to configure the associated devices. Click **Yes** to continue with the **Express Setup**.
 - If you click on **No**, you can always return to the **Express Setup** by clicking on the button.
4. Check the **Door contact** and the **REX contact** options.
5. Check the **Postal lock** option, if applicable.
6. Click the **Advanced** button to define the other devices, such as doors, inputs, relays and outputs.
 - ① **Note:** Components are listed in the left-hand pane. The related tabs are displayed in the middle of the window. When you select a component, its default name, number and default settings are displayed in the language section. Select a component to enable its tab. Components that are assigned are gray and cannot be modified at this stage. However, you may later modify any component description in **KTES** dialog menu (Devices > **Kantech Telephone Entry System**).

Defining Relays

About this task:

You may configure relays to define their operation mode, activation and deactivation schedules. If you want to assign a name to the relay, you have to select it. When you use the Select All button, the default names are kept.

1. Select the first relay if you want to modify its description. The relay tab is enabled. You have to check the box beside the relay name in order to enable the language section.
2. Check the appropriate options for the **Operating mode** .
3. In the **Automatic activation schedule** drop-down list, choose the appropriate activation schedule.
4. In the **Disable relay action** drop-down list, choose the appropriate action.

Defining Inputs

About this task:

By default, the response time for a REX is 250 ms; it is 500 ms for other input zones. The alarm restore time is 500 ms by default. The Express Setup program allows you to define the **Input Normal State** and **Monitoring Schedule**.

1. Select the first undefined input (its checkbox is not gray). Check its box to enable the language fields, then assign names to it.
2. Choose the **Input normal state** option.
3. Select the **Monitoring schedule** from the drop-down list. If you want to assign a custom schedule to the selected input, you have to define it in the **Definition > Schedule** .

Defining auxiliary outputs (LED and buzzer)

About this task:

When you define a controller or a KTES, you can also change the assignment of auxiliary outputs. On the EntraPass workstation, click **Devices** and click **Output**.

1. Select the first undefined output; its check box is not gray. Select it to enable the language fields, and then assign names to it.
2. Choose the **Operating mode** option.
3. Assign a door to the output from the **Selected doors** list.

Result

The following table summarizes how output zones are used by the system.

Table 48: How the system uses output zones

Auxiliary output	Use	Controllers
1	LED (Door 1)	KT-100, KT-200, KT-300 and KTES
2	Buzzer (Door 1)	
3	LED (Door 2)	KT-200 & KT-300
4	Buzzer (Door 2)	

Table 48: How the system uses output zones

Auxiliary output	Use	Controllers
3	LED (Door 1)	KT-400
4	Buzzer (Door 1)	
7	LED (Door 2)	
8	Buzzer (Door 2)	
11	LED (Door 3)	
12	Buzzer (Door 3)	
15	LED (Door 4)	
16	Buzzer (Door 4)	

Quick report viewer

About this task:

The **Quick Report Viewer** program allows operators to view previously saved reports without having to start EntraPass. It is used to view, display and load reports that were previously saved (in a.QRP format) during a print preview or Quick reports. For more information about requesting and generating reports, see [Requesting Reports](#). This program is useful when EntraPass is off-line and when a report must be displayed for specific purposes.

1. From the Windows® task bar, click Start > All Programs > EntraPass > Quick **Report Viewer**.
2. Click the **Open** button to open a report. The system displays the **Open** window.
3. By default, when a report is saved in a QRP format, the system automatically saves it in **My Documents** folder. If you have saved the report in another folder, browse to the folder to select the report.
4. Click **Open** to preview the report.
5. Use the toolbar buttons to preview the report.

Table 49: Report toolbar icons

Icon	Description
	Use the Zoom out icon to zoom out the report view.
	Use the Zoom In icon to display details.
	Use Previous Page and Next Page icons to change pages.
	Use the Open icon to open a report located in any folder on your computer.
	Use the Print icon to print the report. There is no printer setup dialog box, the report prints automatically. To cancel the printing, click Cancel .
	Use the Quit icon to quit the application.

Vocabulary editor

Use the vocabulary editor to translate the display text of the software into the language of your choice. EntraPass offers you the possibility of adding up to 99 languages for the purpose of changing the text language in the graphic user interface. However, you can only run the software

in two languages at a time, a primary and a secondary language. If you want to use the software in a language other than English, French, German, Italian or Spanish, you can have the database dictionary translated in the language of your choice. You will then have to integrate the translated dictionary in the software. The creation of a new display language is carried out in three stages:

1. Translating the source text
 2. Integrating the newly created language to the EntraPass dictionary in the Server
 3. Distributing the new custom language to all EntraPass application
- ① **Note:** To be able to run a new language, your operating system (Windows ®) must support the desired language. For example, your keyboard (characters) and window (display) must support the specific characters of the desired language. The computers where EntraPass applications are running must also support the language. For more information on language support, contact your system administrator.

Installing the Vocabulary Editor

EntraPass Vocabulary Editor is a stand-alone program. You can install it and run it independently. If you want to translate the system language, you just have to install the Vocabulary editor and then to translate the vocabulary database.

- ① **Note:** You do not need an additional license to install the Vocabulary Editor. You just have to select it in the Setup window. For more information, see [System Installation](#).

Translating the system language

About this task:

EntraPass Vocabulary Editor is a stand-alone program. You can run it independently, you do not need to launch EntraPass software to run the Vocabulary editor. The Vocabulary Editor program will assist you if you want to translate the software in a language, other than English, French, Spanish Italian or German.

1. Start the Vocabulary editor from the Windows® **Start** menu: click Start > All Programs > **EntraPass Special Edition > Vocabulary Editor > Vocabulary Editor**.
 2. Select one of the **available languages** and click on **New** . The system displays the **Select language** window.
 3. Select the source language for the translation, then click **OK** . The newly selected language is transferred to the right in the **Custom Languages** display list.
 4. Click on the new **Custom Language** and then on the **Edit custom language** button to start translating the software vocabulary. The system displays the dictionary database.
- ① **Note:** You must make sure that the Customdictionary directories are regularly backed up (C:\ProgramFiles\Kantech\Vocabulary Editor\CustomDictionary\files.xxx.ath) or C:\ProgramFiles\Kantech\“Application type”\CustomDictionary\files.xxx.0

Result

The following table shows the value of the Vocabulary Editor color codes.

Table 50: Vocabulary editor color codes

Vocabulary editor color codes	Value
Green	Valid text string.
Blue/Green	New text string.
Red	Obsolete text string.

- The “Source language” column contains text based on the basic language that was selected during the creation of the vocabulary. This column will serve as a “source” for the translation. Software language columns cannot be modified by the user.
- Use the right-click to enable a contextual sub-menu or use the **Language editor** toolbar. A hint appears when you position the mouse over a button.

Integrating the custom language in EntraPass

About this task:

After the translation is finished, integrate the new dictionary into the system dictionary so that system operators can use it. The following table describes the icons in the vocabulary editor window. You can also select these options from the **Actions** menu.

Table 51: Vocabulary editor icons

Icon	Description
	Apply changes to operational dictionary: Select this option when you want to test your changes before you update the whole system.
	Restore operational vocabulary: Select this option to restore the default languages. It creates a self-extracting file which restores the original dictionary.
	Scan dictionary for new entries: Select this option when the software was updated.
	Create self-extracting file for update: Select this option if you decide to implement the new vocabulary. The system creates an <code>Updatedictionary.exe</code> file, and prompts you to select a destination folder for the file.

1. Start the **Vocabulary Editor**. The **Vocabulary Editor** window toolbar displays five buttons.
 - ① **Note:** The Graphic User Interface appears only in one of five languages: English, French, German, Italian or Spanish.
2. Select a newly translated vocabulary.
 - You can choose to **Apply changes to the Operational dictionary:** this option is useful when you want to test your changes before you update the whole system.
 - **Restore the operational vocabulary:** this option allows the user to easily restore the default languages. It creates a self-extracting file which restores the original dictionary.
 - **Scan dictionary for new entries:** this option is useful when the software was updated for example.
3. If you decide to implement the new vocabulary, click the **Actions** menu and select **Create self-extracting file for update**. The system creates the `Updatedictionary.exe` file, and prompts you to select a destination folder for the file.
4. Select the destination folder for `Updatedictionary.exe`. By default, the self-extracting file is stored in `C:\Program Files\Kantech (application)`.

- ① **Note:** Copy the `Updatedictionary.exe` file on a network folder if you want operators to access the file to update their software application.

Distributing the New System Vocabulary

Before you run the file, make sure to exit the EntraPass software; otherwise the operation will not work.

Updating the system vocabulary

1. Exit all EntraPass programs.
2. Start **Windows Explorer®** > **Kantech** > (**EntraPass application**), then copy the `Updatedictionary.exe` on the server.
3. Double-click `Updatedictionary.exe`. The system displays the EntraPass applications that are installed on the computer.
4. Select each application and click **Update dictionary**.
5. Add the `Updatedictionary.exe` to every computer where EntraPass is installed, and double-click it to launch the language update. Exit all EntraPass applications before you run the self-extracting file.
6. Select the applications you want to update, one at a time, and click **Update dictionary**. The system automatically copies the vocabulary to the **Custom Dictionary** directory, and merges the custom directory with the application dictionary.

- ① **Note:** You must update all the applications in the system.

To restore the dictionary to original default values, follow the same procedures as for updating the dictionary.

7. Click **Options** and click **Select language**.
8. In the **Select the language** window, select the primary language and the secondary language. The newly integrated language is displayed in the list. It is important to select the language at this stage, otherwise the operators of the system cannot use it.
 - ① **Note:** For example, if your primary language is English and your secondary language is French, and you select the new language, for example Russian as primary, all operators who have English as their display language in the **Operator menu** now see the Russian language. However, if you change the secondary language to Russian, operators must manually select Russian in the **Operator definition** menu to use it. To assign the desired language to an operator, use the **System definition** menu, then select the **Operator definition** menu.

Upgrading the System Vocabulary

When you upgrade your system, the new or modified strings are automatically inserted in the system vocabulary and also in the custom dictionary. If you have added a custom language to your system, you have to translate the new/modified strings following a system upgrade. Therefore, you have to re-edit the vocabulary and create a new self-extracting file. When you re-open the vocabulary table, new strings are indicated by a green point. Obsolete strings (no longer used) are tagged red.

- ① **Note:** For easier management, we recommend that you always edit your vocabulary from the same computer and integrate it to the system using a self-extracting file.

EntraPass icons

There are over 90 animated icons in EntraPass that indicate the status of a physical or logical component.

Alarm Systems

Alarm system icons indicate the status of an alarm system within the Graphic desktop (Desktop > Graphic desktop) or in the "Operation" window.

Alarm system is in alarm



This animated icon appears when the alarm system is in alarm. It is displayed in:

- the Alarm message box when an acknowledgement is required.
- the "Operation" window
- the Desktop > Graphic desktop.

Alarm system is armed



This animated icon appears when the alarm system is armed. It is displayed in:

- the Operation window
- the Desktop > Graphic desktop.

Alarm system is armed with input in alarm (forced arming)



This animated icon appears when arming the alarm system while a surveillance area is in alarm. The system will allow you to arm the system (forced armed) and the icons will display the input in alarm in:

- the Operation window
- the Desktop > Graphic desktop.

Alarm system is in arming request delay



This animated icon appears when the alarm system is in the "arming request" delay (waiting for confirmation with the arming request input button). It is displayed in:

- the "Operation" window

- the Desktop > Graphic desktop.

Alarm system is disarmed



This animated icon appears when the alarm system is disarmed. It is displayed in:

- the “Operation” window.
- the Desktop > Graphic desktop.

Alarm system is in entry delay



This animated icon appears when the alarm system is in “entry” delay. It is displayed in:

- the “Operation” window.
- the Desktop > Graphic desktop.

Alarm system is in “Exit” delay



This animated icon appears when the alarm system is in “exit” delay. It is displayed in:

- the “Manual Operation” window.
- the Desktop > Graphic desktop.

Alarm system status is not yet known



This animated icon appears when the status of the alarm system is unknown. It is displayed in:

- the “Graphic” window (the Desktop > Graphic desktop) when the status of the alarm system is unknown.

Alarm system is in “Postpone” mode



This animated icon appears when the alarm system is in “postpone” mode. Once this delay is over, the system will initiate the exit delay and arm again (if the “no disarm” schedule is still valid). It is displayed in:

- the Operation window.
- the “Graphic” window (the Desktop > Graphic desktop).

Controllers

Controller animated icons indicate the status of a door controller in the graphic window (Desktop > Graphic desktop) or in the “Operation” window.

Status unknown



Appears when the EntraPass application has not received the component status after four (4) attempts. It is displayed in:

- the Operation window (alarms, areas, guard tours, door, elevator door, relay, input, reload data)
- or the Desktop > Graphic desktop.

Controller AC failure



Appears when the controller is in AC failure. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Controller Reset

Controller Polling Malfunction



Appears when the controller polling function is malfunctioning. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Controller

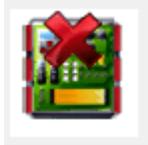
Controller AC failure and Tamper Switch in “alarm”



Appears when the controller is in AC failure and the tamper switch is in alarm. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Controller Reset

Controller is not communicating



Appears when the controller is not communicating. It is displayed in:

- the “Operation” — “Area”, “Guard Tour” and “Controller Reset” windows. “Controller Reset” windows. “Controller Reset” windows.
- the Desktop > Graphic desktop.

Controller communication is regular (no problem)



Appears when the controller is communicating and the communication is regular. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Controller Reset.

Controller is in “Reset” and AC failure



Appears when the controller is in “reset mode” and in “AC failure”. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Controller Reset.

Controller is in “Reset”, “AC failure” and “Tamper in alarm”



Appears when the controller is in “reset mode”, in “AC failure” and the tamper is in alarm. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Controller Reset

Controller is in reset and tamper in alarm



Appears when the controller is in “reset mode” and the tamper is in alarm. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Controller Reset.

Controller tamper in alarm



Appears when the controller tamper is in alarm. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Controller Reset when the controller tamper is in alarm.

Controller reloading firmware



Appears when the controller is reloading firmware. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Controller Reset.

KT-400 controller trouble



Appears when there is a KT-400 controller trouble. It is displayed in:

- the Desktop > Graphic desktop
- the Operation > Controller.

Doors

Icons representing a door state indicate the status of door within the graphic window (from the desktop) or within the “Operation” window.

Door forced open



This animated icon appears when the door is opened and that no access granted nor request to exit was permitted. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door, Elevator Door

Door forced open (reader disabled)



This animated icon appears when the door is opened and that no access granted nor request to exit was permitted and the reader is disabled. It is displayed in:

- the “Graphic” window (desktop—graphic)
- the Operation > Door, Elevator Door

Door closed and locked



This animated icon appears when the door is closed and locked. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door

Door closed and locked (reader disabled)



This animated icon appears when the door closed and locked and that the reader is disabled. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door.

Door open too long



This animated icon appears when the door is opened more than the permitted delay set in “open time”. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door, Elevator door.

Door open too long (reader disabled)



This animated icon appears when the door is opened more than the permitted delay set in “open time” and that the reader is disabled. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door, Elevator door.

Door open and unlocked manually



This animated icon appears when the door is opened and it was unlocked by an operator. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door > Elevator door.

Door open and unlocked manually (reader disabled)



This animated icon appears when the door is opened and it was unlocked by an operator and the reader is disabled. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door > Elevator door.

Door is opened and unlocked by schedule



This animated icon appears when the door is opened and it was unlocked by a schedule. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door > Elevator door.

Door is opened and unlocked by schedule (reader disabled)



This animated icon appears when the door is opened, and it was unlocked by a schedule and the reader is disabled. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door > Elevator door.

Door pre-alarm on open too long



This animated icon appears when the door is opened more than half the time permitted delay set in “open time”. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door > Elevator door.

Door pre-alarm on open too long (reader disabled)



This animated icon appears when the door is opened more than half the time permitted delay set in “open time” and the reader is disabled. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door > Elevator door.

Door still opened schedule invalid



This animated icon appears when the door is opened and the unlock schedule is invalid. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door/Elevator door.

Door still opened schedule invalid (reader disabled)



This animated icon appears when the door is opened and the unlock schedule is invalid and the reader is disabled. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door/ Elevator door.

Door unlocked by an operator



This animated icon appears when the door is unlocked by an operator (manually). It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door > Elevator door.

Door unlocked by an operator (reader disabled)



This animated icon appears when the door is unlocked by an operator (manually) and the reader is disabled. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door/Elevator door.

Door unlocked by a schedule



This animated icon appears when the door is unlocked by a schedule. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door/Elevator door.

Door unlocked by a schedule (reader disabled)



This animated icon appears when the door is unlocked by a schedule and the reader is disabled. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door/Elevator door.

Elevator door unlocked and closed



This animated icon appears when the elevator door is closed and unlocked. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Door/Elevator door.

Wireless lock connected



This icon appears when the wireless lock is connected. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Integrated Panel/Wireless Lock.

Wireless lock error



This icon appears when the wireless lock has an error associated with it. It is displayed in:

- the Graphic desktop (Desktop > Graphic desktop window)
- the Operation > Integrated Panel/Wireless Lock.

Relays

Relays icons indicate the status of a relay within the graphic window (from the desktop) or within the “Operation” window.

Relay activated by alarm system in alarm



- the “Graphic” window (desktop—graphic) for a relay triggered by an alarm system in alarm.
- the Operation > Relay when the relay is triggered by an alarm system in alarm.

Relay activated by alarm system function



- the “Graphic” window (desktop—graphic) for a relay triggered by a function of an alarm system.
- the Operation > Relay when the relay is triggered by a function of an alarm system.

Relay activated by alarm system delay



- the “Graphic” window (desktop—graphic) for a relay triggered by the delay of an alarm system.
- the Operation > Relay when the relay is triggered by the delay of an alarm system.

Relay activated by an event



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the relay is triggered by an event.
- the Operation > Relay when the relay is triggered by an event.

Relay temporarily activated by an event



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the relay is temporarily activated by an event.
- the Operation > Relay when the relay is temporarily activated by an event.

Relay activated by an input



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the relay is triggered by an input.
- the Operation > Relay when the relay is triggered by an input.

Relay temporarily activated by an input



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the relay is temporarily activated by an input.
- the Operation > Relay when the relay is temporarily activated by an input.

Relay activated by an operator



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the relay is activated by an operator.
- the Operation > Relay when the relay is activated by an operator.

Relay temporarily activated by an operator



This animated icon appears in:

- the “Graphic” window (desktop—graphic) for a relay temporarily activated by an operator.
- the Operation > Relay when the relay is temporarily activated by an operator.

Relay temporarily activated by a schedule



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the relay is activated by a schedule.
- the Operation > Relay when the relay is activated by a schedule.

Relay deactivated



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the relay is not activated.
- the Operation > Relay when the relay is not activated.

Inputs

This section is used to indicate the status of an input within the graphic window (from the desktop) or within the “Operation” window.

Input activated—Not supervised



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the input is activated and the monitoring schedule is invalid.
- the Operation > Input when the input is activated and the monitoring schedule is invalid.

Input activated—Supervised



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the input is activated and the monitoring schedule is valid.
- the Operation > Input when the input is activated and the monitoring schedule is valid.

Input activated—Not supervised manual operation



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the input is activated, manually operated and the monitoring schedule is invalid.
- the Operation > Input when the input is activated, manually operated and the monitoring schedule is invalid.

Input activated—Supervised manual operation



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the input is activated, manually operated and the monitoring schedule is valid.
- the Operation > Input when the input is activated, manually operated and the monitoring schedule is valid.

Input activated—Supervised temporarily manual operation



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the input is activated, manually operated and the monitoring schedule is temporarily valid.

- the Operation > Input when the input is activated, manually operated and the monitoring schedule is temporarily valid.

Input in alarm—Not supervised



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the input is in alarm and the monitoring schedule is invalid.
- the Operation > Input when the input is in alarm and the monitoring schedule is invalid.

Input in alarm—Shunted by operator



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the input is in alarm and it is shunted by an operator.
- the Operation > Input when the input is in alarm and it is shunted by an operator.

Input in alarm—Supervised



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the input is in alarm and the monitoring schedule is valid.
- the Operation > Input when the input is in alarm and the monitoring schedule is valid.

Input in alarm—Supervised by operator



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the input is in alarm and it is supervised by an operator (continuous supervision).
- the Operation > Input when the input is in alarm and it is supervised by an operator (continuous supervision).

Input OK—Not supervised



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the input is in normal condition and the monitoring schedule is invalid.
- the Operation > Input when the input is in normal condition and the monitoring schedule is invalid.

Input OK—Shunted by operator



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the input is in normal condition and it is shunted by an operator.
- the Operation > Input when the input is in normal condition and it is shunted by an operator.

Input OK—Supervised



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the input is in normal condition and the monitoring schedule is valid.
- the Operation > Input when the input is in normal condition and the monitoring schedule is valid.

Input OK—Supervised by operator



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the input is in normal condition and it is supervised by an operator (continuous supervision).
- the Operation > Input when the input is in normal condition and it is supervised by an operator (continuous supervision).

Controller connection

These icons indicate the status of a connection, or gateway within the graphic window (from the desktop) or within the “Operation” window.

Connection status is not yet known



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the status of the controller connection is not yet known.

Controller connection connected



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the connection is connected and communication is OK.
- the Operation > Reload data when the connection is connected and communication is OK.

Controller connection connected and in “Reload Data”



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the connection is connected and is in “reload data” state.
- the Operation > Reload data when the connection is connected and is in “reload data” state.

Controller connection—Communication Failure



This animated icon appears in:

- the “Graphic” window (Desktop—graphic) when the connection is disconnected and there is a communication failure.
- the Operation > Reload data when the connection is disconnected and there is a communication failure.

Gateways

Gateway—Communication Failure



This animated icon appears in:

- the “Operation” (door, elevator door, relay, input, reload gateway) window when the gateway is in communication failure.
- the “Graphic” window (desktop—graphic) when the gateway is in communication failure.

Gateway in “Reload Data”



This animated icon appears in:

- the “Graphic” window (Desktop—graphic) when the gateway is being reloaded.
- the Operation > (door, elevator door, relay, input, reload gateway) when the gateway is being reloaded.

Gateway—Communication Failure during Reload Data



This animated icon appears in:

- the “Operation” (reload data gateway) window when the gateway loses communication during a reload data operation.
- the “Graphic” window (desktop—graphic) when the gateway loses communication during a reload data operation.

Gateway communication is regular (no problem)



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the gateway is communicating and the communication is regular.
- the Operation > Reload data gateway, communication is regular.

Gateway Trouble



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the gateway is not communicating.
- the Operation > Reload data gateway, the gateway is not communicating.

Gateway Trouble when Reloading



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the gateway is not communicating.
- the Operation > Reload data gateway is not communicating with the gateway during a reload data operation.

Gateway (Gateway Software Interface):

Gateway OK—communicating



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the gateway is communicating.
- the Operation > Reload data when the gateway is communicating.

Gateway in “Reload Data”



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the gateway is being reloaded.
- the Operation > Reload data when the gateway is being reloaded.

Gateway—Communication Failure



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when gateway is not communicating.
- the Operation > Reload data when the gateway is not communicating.

Gateway—Reload KT-NCC Firmware



- the “Graphic” window (desktop—graphic) when the system is performing an automatic upgrade of the KT-NCC firmware.

- the “Operation” when the system is performing an automatic upgrade of the KT-NCC firmware.

EntraPass Application

Application status is not yet known



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the status of the application is not yet known.

Application attempts communication



This animated icon appears in:

- the start-up window when the workstation attempts to communicate with the server.

Application—Communication Failure



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the workstation is in communication failure.
- the “Operation” window (alarm, area, guard tour, door, elevator door, relay, input, reload gateway) when the workstation is in communication failure.

Others

Database Initialization



This animated icon appears in:

- the start-up window when the workstation initializes the database.

Data not available



This animated icon is used to indicate a transient stage. This could indicate that the requested information is not currently available.

No status available



This animated icon is used to indicate a transient stage. This could indicate that the requested component status is not currently available.

Output status is not yet known



This animated icon appears in:

- the “Graphic” window (desktop—graphic) when the status of the output is not yet known.

Status unknown



This animated icon appears in:

- the “Operation” (alarms, areas, guard tours, door, elevator door, relay, input, reload) window when the workstation has not received the component status after four (4) attempts.
- the “Graphic” window (desktop—graphic) when the workstation has not received the component status after four (4) attempts.

Error in process



This animated icon appears in:

- the “Operation” (alarms, areas, guard tours, door, elevator door, relay, input, reload data) window when a specific error is detected.
- the “Graphic” window (desktop—graphic) when a specific error is detected.

Undefined Component



This animated icon appears in:

- the “Operation” window (alarm, areas, guard tour, door, elevator door, relay, input, reload data gateway) when the component does not exist.

- the “Graphic” window (desktop—graphic) when the component does not exist.

EULA

TYCO INTERNATIONAL LTD

END-USER LICENSE AGREEMENT

IMPORTANT - READ THIS END-USER LICENSE AGREEMENT ("EULA") CAREFULLY BEFORE OPENING THE DISK PACKAGE, DOWNLOADING THE SOFTWARE OR INSTALLING, COPYING OR OTHERWISE USING THE SOFTWARE.

THIS EULA IS A LEGAL AGREEMENT BETWEEN YOU AND SENSORMATIC ELECTRONICS, LLC ("TYCO"), AND GOVERNS YOUR USE OF THE SOFTWARE ACCOMPANYING THIS EULA WHICH SOFTWARE INCLUDES COMPUTER SOFTWARE AND MAY INCLUDE MEDIA, PRINTED MATERIALS, AND "ON-LINE" OR ELECTRONIC DOCUMENTATION (COLLECTIVELY, THE "SOFTWARE"). BY BREAKING THE SEAL ON THIS PACKAGE, DOWNLOADING THE SOFTWARE OR INSTALLING, COPYING OR OTHERWISE USING THE SOFTWARE, YOU AGREE TO BE BOUND BY THE TERMS OF THIS EULA. IF YOU DO NOT AGREE TO ALL OF THE TERMS AND CONDITIONS OF THIS EULA, DO NOT OPEN, DOWNLOAD, INSTALL, COPY OR OTHERWISE USE THE SOFTWARE.

1. **SCOPE OF LICENSE.** The Software may include computer code, program files and any associated media, hardware or software keys, printed material and electronic documentation. The Software may be provided to you pre-installed on a storage device (the media) as part of a computer system or other hardware or device ("System"). The Software is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. All title and intellectual property rights in and to the Software (including but not limited to any images, photographs, and text incorporated into the Software), the accompanying printed materials, and any copies of the Software, are owned by Tyco and/or its suppliers. The Software is licensed, not sold. All rights not expressly granted under this EULA are reserved by Tyco and its suppliers.
2. **GRANT OF LICENSE.** This EULA grants you the following rights on a non-exclusive basis:
 - a. **General.** This EULA permits you to use the Software for which you have purchased this EULA. Once you have purchased licenses for the number of copies of the Software that you require, you may use the Software and accompanying material provided that you install and use no more than the licensed number of copies at one time. The Software is only licensed for use with specified Licensor-supplied Systems. If the Software is protected by a software or hardware key or other device, the Software may be used on any computer on which the key is installed. If the key locks the Software to a particular System, the Software may only be used on that System.
 - b. **Locally Stored Components.** The Software may include a software code component that may be stored and operated locally on one or more devices. Once you have paid the required license fees for these devices (as determined by Tyco in its sole discretion), you may install and/or use one copy of such component of the Software on each of the devices as licensed by Tyco. You may then use, access, display, run or otherwise interact with ("use") such component of the Software in connection with operating the device on which it is installed solely in the manner set forth in any accompanying documentation or, in the absence of such, solely in the manner contemplated by the nature of the Software.

- c. **Remotely Stored Components.** The Software may also include a software code component for operating one or more devices remotely. You may install and/or use one copy of such component of the Software on a remote storage device on an internal network with all of the devices and may operate such component with each device over the internal network solely in the manner set forth in any accompanying documentation or, in the absence of such, solely in the manner contemplated by the nature of the Software; provided however, you must still acquire the required number of licenses for each of the devices with which such component is to be operated.
 - d. **Embedded Software/Firmware.** The Software may also include a software code component that is resident in a device as provided by Tyco for operating that device. You may use such component of the Software solely in connection with the use of that device, but may not retrieve, copy or otherwise transfer that software component to any other media or device without Tyco's express prior written authorization.
 - e. **Backup Copy.** You may make a back-up copy of the Software (other than embedded software) solely for archival purposes, which copy may only be used to replace a component of the Software for which you have current valid license. Except as expressly provided in this EULA, you may not otherwise make copies of the Software, including the printed materials.
3. **OTHER RIGHTS AND LIMITATIONS.** Your use of the Software is subject to the following additional limitations. Failure to comply with any of these restrictions will result in automatic termination of this EULA and will make available to Tyco other legal remedies.
- a. **Limitations on Reverse Engineering and Derivative Works.** You may not reverse engineer, decompile, or disassemble the Software, and any attempt to do so shall immediately terminate this EULA - except and only to the extent that such activity may be expressly permitted by applicable law notwithstanding this limitation. You may not make any changes or modifications to any portion of the Software, or create any derivative works, without the written permission of an officer of Tyco (except as provided in Section 3(f) of this EULA with respect to "open source" software). You may not remove any proprietary notices, marks or labels from the Software. You shall institute reasonable measures to ensure compliance with the terms and conditions of this EULA by your personnel and agents.
 - b. **Copyright Notices.** You must maintain all copyright notices on all copies of the Software.
 - c. **Transfer.** You may only transfer your rights under this EULA (i) as part of a permanent sale or transfer of all of the devices for which the Software is licensed as applicable; (ii) if you transfer all of the Software (including all component parts, the media and printed materials, any upgrades and this EULA); (iii) if you do not retain any copies of any portion of the Software; (iv) if the recipient agrees to the terms of this EULA; and (v) if the Software is an upgrade, such transfer must also include all prior versions of the Software. You agree that failure to meet all of these conditions renders such transfer null and void.
 - d. **Termination.** Without prejudice to any other rights, Tyco may terminate this EULA if you fail to comply with the terms and conditions herein. In such event, you must immediately destroy all copies of the Software and all of its component parts. To the extent the Software is embedded in hardware or firmware, you will provide prompt access to Tyco or its representative to remove or lock Software features or functionality as Tyco determines.

- e. Subsequent EULA. Tyco may also supersede this EULA with a subsequent EULA pursuant to providing you with any future component, release, upgrade or other modification or addition to the Software. Similarly, to the extent that the terms of this EULA conflict with any prior EULA or other agreement between you and Tyco regarding the Software, the terms of this EULA shall prevail.
- f. Incorporation of "Open Source" and other Third Party Software. Portions of the Software may be subject to certain third party license agreements governing the use, copying, modification, redistribution and warranty of those portions of the Software, including what is commonly known as "open source" software. No warranty is provided for open source software. By using the Software you are also agreeing to be bound to the terms of such third party licenses. If provided for in the applicable third party license, you may have a right to receive source code for such software for use and distribution in any program that you create, so long as you in turn agree to be bound to the terms of the applicable third party license, and your programs are distributed under the terms of that license. If applicable, a copy of such source code may be obtained free of charge by contacting your Tyco representative.
- g. Trademarks. This EULA does not grant you any rights in connection with any trademarks or service marks of Tyco, its affiliates or its suppliers.
- h. Rental. You may not sub-license, rent, lease or lend the Software. You may not make it available to others or post it on a server or web site or otherwise distribute it.
- i. Software Keys. The hardware/software key, where applicable, is your proof of license to exercise the rights granted herein and must be retained by you. Lost or stolen keys will not be replaced.
- j. Demonstration and Evaluation Copies. A demonstration or evaluation copy of the Software is covered by this EULA; provided that the licenses contained herein shall expire at the end of the demonstration or evaluation period.
- k. Registration of Software. The Software may require registration with Tyco prior to use. If you do not register the Software, this EULA is automatically terminated and you may not use the Software.
- l. Additional Restrictions. The Software may be subject to additional restrictions and conditions on use as specified in the documentation accompanying such Software, which additional restrictions and conditions are hereby incorporated into and made a part of this EULA.
- m. Upgrades and Updates. To the extent Tyco makes them available, Software upgrades and updates may only be used to replace all or part of the original Software that you are licensed to use. Software upgrades and updates do not increase the number of copies licensed to you. If the Software is an upgrade of a component of a package of Software programs that you licensed as a single product, the Software may be used and transferred only as part of that single product package and may not be separated for use on more than one computer or System. Software upgrades and updates downloaded free of charge via a Tyco authorized World Wide Web or FTP site may be used to upgrade multiple Systems provided that you are licensed to use the original Software on those Systems.
- n. Tools and Utilities. Software distributed via a Tyco-authorized World Wide Web or FTP site (or similar Tyco-authorized distribution means) as a tool or utility may be copied and installed without limitation provided that the Software is not distributed or sold and the Software is only used for the intended purpose of the tool or utility and in conjunction with Tyco products. All other terms and conditions of this EULA continue to apply.

4. EXPORT RESTRICTIONS. You agree that you will not export, re-export or transfer any portion of the Software, or any direct product thereof (the foregoing collectively referred to as the "Restricted Components"), to IRAN, NORTH KOREA, SYRIA, CUBA and SUDAN, including any entities or persons in those countries, either directly or indirectly ("Tyco's Position"). You also agree that you will not export, re-export or transfer the Restricted Components to any other countries except in full compliance with all applicable governmental requirements, including but not limited to applicable economic sanctions and constraints administered by the U.S. Treasury Department and applicable export control measures administered by the U.S. Department of Commerce and U.S. Department of State, any other U.S. government agencies, and measures administered by the European Union or the government agencies of any other countries. Any violation by you of the applicable laws or regulations of the U.S. or any other government, or where you breach Tyco's Position notwithstanding whether or not this is contrary to any aforementioned applicable laws or regulations, will result in automatic termination of this EULA.
5. U.S. GOVERNMENT RESTRICTED RIGHTS. The Software is Commercial Computer Software provided with "restricted rights" under Federal Acquisition Regulations and agency supplements to them. Any use, duplication or disclosure by the U.S. Government is subject to restrictions as set forth in sub-paragraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFAR 255.227-7013 et. seq. or 252.211-7015, or sub-paragraphs (a) through (d) of the Commercial Computer Software Restricted Rights at FAR 52.227-19, as applicable, or similar clauses in the NASA FAR Supplement. Contractor/manufacturer is Sensormatic Electronics, LLC, 6 Technology Park Drive, Westford, MA 01886.
6. LIMITED WARRANTY.
 - a. Warranty. Tyco warrants that the recording medium on which the Software is recorded, hardware key, and the documentation provided with it, will be free of defects in materials and workmanship under normal use for a period of ninety (90) days from the date of delivery to the first user. Tyco further warrants that for the same period, the Software provided on the recording medium under this license will substantially perform as described in the user documentation provided with the product when used with specified hardware. THE FOREGOING EXPRESS WARRANTY REPLACES AND IS IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED OR OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT OR NON-MISAPPROPRIATION OF INTELLECTUAL PROPERTY RIGHTS OF A THIRD PARTY, CUSTOM, TRADE, QUIET ENJOYMENT, ACCURACY OF INFORMATIONAL CONTENT, OR SYSTEM INTEGRATION. TYCO MAKES NO WARRANTY THAT ANY PORTION OF THE SOFTWARE WILL OPERATE ERROR-FREE, FREE OF ANY SECURITY DEFECTS OR IN AN UNINTERRUPTED MANNER. TYCO SHALL NOT BE RESPONSIBLE FOR PROBLEMS CAUSED BY CHANGES IN THE OPERATING CHARACTERISTICS OF THE DEVICE(S) UPON WHICH THE SOFTWARE IS OPERATING, OR FOR PROBLEMS IN THE INTERACTION OF THE SOFTWARE WITH NON-TYCO SOFTWARE OR HARDWARE PRODUCTS. TYCO NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON PURPORTING TO ACT ON ITS BEHALF TO MODIFY OR TO CHANGE THIS WARRANTY, NOR TO ASSUME FOR IT ANY OTHER WARRANTY OR LIABILITY CONCERNING THIS SOFTWARE. THE WARRANTY MADE BY TYCO MAY BE VOIDED BY ABUSE OR MISUSE. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS UNDER MANDATORY LAW THAT VARY FROM STATE TO STATE AND COUNTRY TO COUNTRY.

- b. **Exclusive Remedy.** Tyco's entire liability and your exclusive remedy under the warranty set forth in this Section 6 will be, at Tyco's option, to (i) attempt to correct Software errors with efforts Tyco believes suitable to the problem, (ii) replace at no cost the recording medium, Software or documentation with functional equivalents as applicable, or (iii) refund a pro-rated portion of the license fee paid for such Software (less depreciation based on a five-year life expectancy) and terminate this EULA, provided, in each case, that Tyco is notified in writing of all warranty problems during the applicable warranty period. Any replacement item will be warranted for the remainder of the original warranty period. No remedy is provided for failure of the Software if such failure is the result of accident, abuse, alteration or misapplication with respect to the Software or any hardware on which it is loaded. Warranty service or assistance is provided at the original point of purchase.

7. LIMITATION OF LIABILITY & EXCLUSION OF DAMAGES.

- a. **LIMITATION OF LIABILITY.** IN NO EVENT WILL TYCO'S AGGREGATE LIABILITY (INCLUDING, BUT NOT LIMITED TO, LIABILITY FOR NEGLIGENCE, STRICT LIABILITY, BREACH OF CONTRACT, MISREPRESENTATION AND OTHER CONTRACT OR TORT CLAIMS) ARISING FROM OR RELATED TO THIS EULA, OR THE USE OF THE SOFTWARE, EXCEED THE GREATER OF USD\$5.00 OR THE AMOUNT OF FEES YOU PAID TO TYCO OR ITS RESELLER FOR THE SOFTWARE THAT GIVES RISE TO SUCH LIABILITY. BECAUSE AND TO THE EXTENT THAT SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSIONS OR LIMITATIONS OF LIABILITY ABOVE, THESE MAY NOT APPLY TO YOU.
 - b. **EXCLUSION OF OTHER DAMAGES.** UNDER NO CIRCUMSTANCES SHALL TYCO OR ANY OF ITS RESELLERS OR LICENSORS BE LIABLE FOR ANY OF THE FOLLOWING: (I) THIRD PARTY CLAIMS; (II) LOSS OR DAMAGE TO ANY SYSTEMS, RECORDS OR DATA, OR LIABILITIES RELATED TO A VIOLATION OF AN INDIVIDUAL'S PRIVACY RIGHTS; OR (III) INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL, PUNITIVE, RELIANCE, OR COVER DAMAGES (INCLUDING LOST PROFITS AND LOST SAVINGS), IN EACH CASE EVEN IF TYCO HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. YOU ARE SOLELY RESPONSIBLE AND LIABLE FOR VERIFYING THE SECURITY, ACCURACY AND ADEQUACY OF ANY OUTPUT FROM THE SOFTWARE, AND FOR ANY RELIANCE THEREON. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR THE LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO SOME OF THE ABOVE LIMITATIONS MAY APPLY TO YOU ONLY TO THE EXTENT PERMITTED BY THOSE LAWS.
8. **GENERAL.** If any provision of this EULA is found to be unlawful, void, or for any reason unenforceable, then that provision shall be severed from this EULA and shall not affect the validity and enforceability of the remaining provisions. You should retain proof of the license fee paid, including model number, serial number and date of payment, and present such proof of payment when seeking service or assistance covered by the warranty set forth in this EULA. This EULA is governed by the laws of the State of New York, without regards to its conflicts of law principles. The parties hereby irrevocably agree that they submit themselves to the personal jurisdiction of the state and federal courts of New York for purposes of resolving any and all disputes arising under or related to these terms and conditions. The parties specifically exclude the application of the provisions of the United Nations Convention on Contracts for the International Sale of Goods.

