

EntraPass and Salto Integration Guide

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Introduction

Integrating EntraPass software with Salto provides an access control solution that enhances security and operational efficiency. This integration combines EntraPass's robust security management platform with Salto's access control system. Use the information in this guide to connect and configure EntraPass with Salto.

System requirements

Table 1: Software requirements

Software	Version
Salto Space	6.10 or later ① Note: - To collect Salto events from ioSmart readers using ioSmart cards, Salto Space version 6.11 or later is required. - If you use Salto Space version 6.11, you need to update the Ncoder 2.0 firmware to 1.14 or higher.
EntraPass Corporate Edition	9.00 or later
EntraPass Global Edition	9.00 or later
EntraPass web	9.00 or later

Table 2: Hardware requirements

Hardware	Requirement
Door controllers: KT-1, KT-2, KT-4, or KT-400	Firmware 3.21.02
ioSmart Gen 2 card readers	Firmware 2.03.09
ioSmart Gen 1 card readers	Firmware 1.11.06
NCoder	Firmware 2.15 or higher. You can upgrade the firmware in Salto Space.

Installation and configuration

Before you operate Salto on EntraPass, set up Salto Space to migrate door data from the Salto server to the EntraPass server. Follow the requirements to deploy Salto Space, and for more information about specific tasks, refer to the *Salto Space User Guide* at <https://support.saltosystems.com/space/user-guide/>.

► **Important:** Before you start the integration, perform a backup of both EntraPass and Salto. Synchronizing automatic backups of both systems ensures the best integrity. Restore the backups together.

Setting up Salto Space before integration

Before the integration, in the **Salto Space Pro - Kantech** software, configure the following:

- Create a new Salto operator.
 - Navigate to **System > Operators**.
 - Create a new operator with administrative rights.
- Assign the Salto Space operator to an NCoder.
 - Log on to the Salto Space with the integration operator you just created.

- b. In the top-right, click the operator icon.
 - c. In the **encoder settings** section, select **Online**.
 - d. Select a specific NCoder. The NCoder is used in the integration for encoding with EntraPass, but can also be used for Salto requirements. For high traffic integrations, use a dedicated NCoder.
3. Adjust the NCoder previously programmed in Salto.
 - a. Navigate to **System > Salto Network**.
 - b. Click the NCoder name and in the information screen, ensure that:
 - The **Run update reader** check box is unselected
 - The **Enable dongle mode** check box is selected
4. Configure the Salto Host Interface Protocol (SHIP).
 - a. Navigate to **System > General options > SHIP**.
 - b. Under the **Salto ship server** section, select the **Enable** check box.
 - c. Select a **Transport Protocol**.
 - ❗ **Note:** Make a note of the protocol and port. The Kantech Salto Integration module requires this information later.
5. Configure user IDs
 - a. Navigate to **System > General options > Users**.
 - b. Under **User ID configuration**, click the **Edit** icon.
 - c. Select **(\$EXTID) Ext ID** as a field, and click **Ok**.
6. Create partitions: Each partition from Salto Space represents an EntraPass connection in an EntraPass site with Kantech controllers.
 - a. In Salto Space, configure each door with the respective partition. Each partition represents the customer's building.
7. Configure holidays in Salto Space and assign them to the Salto Calendars. If you rename the calendars, the list of names is imported into EntraPass.
 - ❗ **Note:** After the initial integration, manage Salto Calendars from the Salto Space server, not EntraPass.
8. For multi-location deployments, configure the UTC time zones.

EntraPass manages the following items with the Kantech Salto Integration module. Do not program these in Salto Space because they may become overwritten or ignored:

- All SAM data for ioSmart sectors and MAD keys
- Salto zones
- Card holder managements
- Door modifications
- Schedule
- Access level

Setting up Salto for EntraPass

This setup option comes in five different values. Each value correlates to the number of Salto doors you can define on the system: 1, 5, 10, 50, or 100. You can add as many options as you want when you add new Salto doors to your system, and Salto door licenses are available for each type of value.

For this option, the Kantech Advantage Program (KAP) increases so 1 token is required for each group of 250 programmed Salto doors. For example, 1 to 50 doors requires 1 token, and 51 to 500 doors requires 2 tokens.

1. In the EntraPass Global or Corporate Edition **Registration** window, under the **Optional or additional system components** list, select the **Salto Integration** option. This Salto option unlocks a specific number of Salto doors.
2. Click the **Click here to install component** button.
3. **Optional:** To increase the number of Salto doors, repeat the previous steps to complete another **Salto Integration** installation.

Setting up Salto with a Connected Program

After you install a Salto Integration option and activate the first Salto door license, the following occurs:

- A connected program is automatically generated and assigned to the Salto Integration. You cannot edit this connected program.
- The EntraPass system creates a Salto Integration operator. The operator is assigned to the Salto Integration connected program and is supervised. This operator is needed for the integration and notifies the EntraPass software of any communication issues.
 - Edit and create a password for the operator.
- Salto events become available.

Using Salto with EntraPass

After you install and set up Salto with your EntraPass system, you can configure different options to use Salto in EntraPass.

Configuring system parameters for the first time

Configure the following system parameters:

1. Update the system parameters for schedules.
 - a. From the **Options** tab, click **System parameters**.
 - b. Click the **Schedule** tab.
 - c. Select the **Upgrade to advanced schedule capabilities** check box.
2. Update the system parameters for a site and connections.
 - a. From the **Options** tab, click **System parameters**.
 - b. On the left pane, click **Workstation**.
 - c. Select the **Mandatory** check box.
3. Update the system parameters configuration screen.
 - a. From the **Options** tab, click **System parameters**.
 - b. On the left pane, click **Integration**.
 - c. Click the **Salto** tab.
 - d. Configure the **User default** options and **Web login additional parameters** options.
 - e. Click **Ok**.

Configuring the Kantech Integration Wizard

1. From the installation package, navigate to the **Salto Integration** folder and install the `SaltoIntegrationInstaller.exe` file.
 - For Global or Corporate Edition, install the file on either the SmartLink computer or the Salto Space server computer.
 - For hattrix, install the file on the on-site Salto Space server.
2. From your Windows desktop, run the Kantech Integration Wizard. Do not run as an administrator.
3. Configure the **Connectivity** section.
 - a. On the left pane, enter the EntraPass SmartLink information and click **Save**.

Note: By default, the integration port is 8801.
 - b. On the right pane, enter the Salto information and click **Save**.
4. Configure the **Import doors** section with the following options:
 - The left pane lists the available EntraPass sites. To add a new site, click **Add**, enter the site name, and click **Save**.
 - The right pane lists the available Salto partitions. Click and drag the Salto partitions into the corresponding EntraPass sites. You can only assign each Salto partition to one EntraPass site. Each EntraPass site can have multiple Salto partitions assigned.
 - The interface displays the number of Salto door licenses in EntraPass. If you do not have enough licenses, the integration does not work correctly and no doors are imported. The operator needs to add more Salto door licenses to EntraPass.
5. Click **Next**. After the integration completes, to start the Kantech Salto Integration service, close the wizard. If you leave the wizard open, the daily operations are not available.
6. Validate that the SAM and Mifare options are displayed correctly. If not, configure the Mifare Plus 2K and 4K keys.
 - a. Navigate to **System > SAM and Issuing options**.
 - b. Select **Mifare Plus** and click the **Edit** icon.
 - c. In the **Issuing Data** section, in both the **Mifare Plus 2K** and **Mifare Plus 4K** tabs, configure the following information:
 - **Key A:** ffffffffffffffffffffffffffffffff
 - **Key B:** ffffffffffffffffffffffffffffffff
 - **MAD key:** C49695A3409481928540948540D4C1C4
 - Select the **Enable MAD reserved sectors** check box
 - Select sectors 10 to 32
 - d. Click **Save**.

Adding or deleting a Salto door after a completed integration

To add or delete a Salto door after a completed integration, complete the following steps:

1. Either delete the existing door or add a new door to Salto Space, and assign the door to the correct partition.
2. Run the Kantech Salto Integration Wizard again. This action only affects the new or deleted doors, and the new partitions become available for you to import and assign to an EntraPass site.
3. After the integration completes, to start the Kantech Salto Integration service, close the wizard. If you leave the wizard open, the daily operations are not available.

Configuring EntraPass operators with Salto encoders

EntraPass operators can have access to one or multiple Salto encoders. After integration, a Salto encoder list appears and admins can select the specific encoder options to display for the operator.

To select encoders for an operator, complete the following steps:

1. Navigate to the EntraPass **Operator** window.
2. From the **Salto encoder** list, select one or more encoders that the operator can access.

Configuring Salto doors

You can create or delete Salto doors with the Kantech Integration Wizard and Salto Space, but not with EntraPass. When you configure settings related to Salto doors in EntraPass, the updated settings are sent to Salto Space. the following options are available:

- Use the door configuration screen to configure various settings for Salto doors, including the camera or video view, graphic, trigger, and alarm.
- If you add or remove Salto doors, update the doors using the Salto Portable Programming Device (PPD) menu. See [Updating Salto doors](#) for more information.

Updating Salto doors

After you modify Salto doors, update the doors using the Salto PPD menu:

1. At the top of either the **Door** configuration screen or the **Door operation** screen, click the **PPD encoder** button.
2. In the **Salto PPD** menu, configure the following:
 - Select the NCoder.
 - Select the doors to update. If a door requires an update, a visual indication appears next to it.

❗ **Note:** You can only select Salto doors on the same UTC time zone. When you select the first door, the remaining doors available to select are all in the same time zone.

 - To transmit the Salto data from the NCoder to the PPD, click the **PPD** button. The physical PPD must be on the Salto NCoder.

Configuring door groups

You can manage door groups from the **Groups > Door group** menu. The following options are available:

- Modify or delete a door group.
- Create a new door group with any type of doors in the Site, including Salto online, Salto offline, and Kantech doors. The door groups represent Salto Zones.
- If you add or remove Salto doors in a door group, update the door groups using the **Salto PPD** menu.

Operations on doors

In the **Operations > Door** window, you can perform the following operations for doors:

- **View the door statuses:** The window displays both Salto and Kantech doors and their statuses. The Salto doors have different status indications than the Kantech doors. See the following table.

Table 3: Salto door statuses

Status	Display
Battery level	Green = high battery Yellow = low battery Red = critically low battery
Offline	The door has a gray overlay
Online	The door has a colorful overlay
Updating the PPD	The door has a red circle over it

- **Get a full status:** Double-click the door icon.
- **Perform actions on Salto doors:** Click the door and select an action on the toolbar, or right-click the door and select an action. The available actions differ depending on the door type and whether the door is offline or online.
- **Unlock a group of doors:** Select the door group to unlock.
- **Perform actions on door groups:** Select the door group, and select the action on the toolbar. Door groups can have a variety of doors configured, which may not perform all actions. For example, if you select an action for Kantech door types, the Salto doors in the door group do not perform the action.

Configuring cards

The cardholder information that you define in EntraPass is then defined in the Salto server. In the **Card** window, you can use the **Salto** tab to set extra functionality into EntraPass. When you add a new card to an account, new configuration fields display:

- On the left, the list displays the account's associated card numbers. A button next to the list indicates the card statuses. For example, if you select a card from the list, an **Update required** status may appear.
- Select encoder: This list displays the encoders. The list is provided by the integration application and is filtered by the operator credentials. To trigger an update, click **Update key**. This button is only enabled when the integration application is running.

Configuring card access levels

In the **Access level** window, you can configure card access levels for doors. You can assign up to 96 Salto doors or door groups for each access level. Use the **Salto** tab to view the list of Salto door groups and assign a schedule to each door group as needed.

Salto events in EntraPass

Salto events are available in EntraPass. You can use Salto events for reporting, email notifications, tasks, pop-ups, and video integration. The Salto events are altered to fit with the standard EntraPass events.

Salto connections

Salto partitions appear in EntraPass as connections. You can create or delete Salto connections with the Kantech Integration Wizard and Salto Space, but not in EntraPass. EntraPass stays updated with the Salto Server through the initial integration setup and real-time mode.

► **Important:** Do not change a Salto connection configuration in EntraPass.

Integration functionality

When you integrate Salto with an EntraPass system, certain functionality in EntraPass changes. See the following table for information about the differences.

Table 4: Functionality differences

Functionality	Description
Initial integration setup	During the initial integration setup, the following may occur: - Salto events are not migrated to EntraPass, but remain available in Salto - The ioSmart reader encodes the ioSmart cards, but EntraPass displays an encoding error Solution: Restart the SmartLink service
Event for a Salto door forced open or open too long	A Salto door forced open or open too long event automatically takes 60 seconds to update. You can set the Overall status update to a minimum of 30 seconds.
Events	Salto events are available in EntraPass for items such as reporting tasks, video integration, and emails. The system may automatically rename some Salto events to align with EntraPass. For example, <code>key opening</code> is renamed to <code>Salto : Access granted - <reason></code> , such as <code>Salto : Access granted - valid key</code> .
Card usage	The Users > card > usage settings only apply to EntraPass doors and EntraPass cards. These settings do not work for Salto Space users.
Keypad PIN	In the Devices > Door window, you must manually assign the following door Open Modes in both Salto Space and EntraPass: - Keypad + office - Keypad + toggle You can manage all other door openings in EntraPass.
Mobile credentials	- EntraPass uses the two applications, go Pass and JustIN, separately - go Pass requires you to activate Salto mobile - Salto JustIN fees are managed in Salto Space - You must enter a mobile number with the country code
Card gateway, Salto cardholders	The Salto cardholder fields are not visible. The system takes the default values assigned under Options > system parameters > integration>salto . You can link the card access groups to the cardholder through the card type.
LDAP integration	The Salto cardholder fields are not visible. The system takes the default values assigned under Options > system parameters > integration>salto .

Table 4: Functionality differences

Functionality	Description
EntraPass go	The Salto cardholder fields are not visible. The system takes the default values assigned under Options > system parameters > integration > salto .
Door temporarily unlocked	The Salto online lock follows the time (m:ss) set on the EntraPass Temporary unlock door command.
One-time access	The system generates an event for one-time access.
Keypad and office open mode	Under Devices > Door > Salto , if you select and save Keypad + Office mode, it is not sent to the Salto Space server. This functionality is only available with Salto Space version 6.11 and later.
Schedule	Salto receives only the first 8 rows of a Kantech extended schedule.
Offline lock	A Salto lock that is offline may appear as an online lock in the status and icon. Restart the middleware service.
Multi-swipe	On ioSmart card readers with enabled encoding, multi-swipe may not work.
Encoding and audit trail	- The encoder is used for the integration to encode with EntraPass, but you can also use it for Salto requirements. For high traffic integrations, use a dedicated encoder. - After an ioSmart card is programmed, ioSmart readers with the Read/Write feature activated automatically encode ioSmart cards. - If the primary server is down and the redundant server takes over, you need to restart the Kantech Salto Integration Service for Salto encoding to work. - For doors with an ioSmart reader, to enable the revalidation, encoding, and audit trail with ioSmart cards, under Devices > Doors, select the Enable read/write on card device and card compatible check box. - The NCoder firmware must be version 2.15 or higher.
Revalidation	When an ioSmart reader revalidates an ioSmart card, the reader flashes blue. This takes 2 to 10 seconds. The door controller then grants or denies access on the Kantech door, even if the ioSmart card is not revalidated.
ioSmart cards	- ioSmart cards with D880306## artwork do not work in the Salto integration. - Events: To receive an audit trail from an ioSmart card, you must present the ioSmart card to an online Salto reader, an encoder, or an ioSmart reader.

Table 4: Functionality differences

Functionality	Description
Migration Wizard	- When you execute the Migration Wizard, all Salto doors, locks, and readers require an update with the Salto PPD. - When you complete the Migration Wizard, the Kantech Salto Integration Service is prompted to reconnect to EntraPass. In some cases, the Kantech Salto Integration Service does not reconnect and the Windows operator must manually connect it in the Windows Services console. - When you enter the EntraPass logon information, you must click the continue button within two minutes. In cases where the SmartLink disconnects from the Migration Wizard after two minutes, then you must restart the wizard. - In some cases, on the first migration, the existing EntraPass access levels are not associated to the cardholders in Salto Space. Wait three minutes and restart the Kantech Salto Service in the Windows Service console.
Door counts	- The Always Valid access levels include all Salto doors for each site. If this exceeds Salto's limit of 96 doors or door groups, you can use custom access levels with door groups (Zones). - In Salto, card holders can have a maximum of 96 Salto components, such as doors and zones. EntraPass does not block you from exceeding this number. - The data on card transaction amounts varies depending on the amount of access levels or zones assigned to a card holder.

Technical support

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

If you require additional information, email access-support@jci.com, or go to: <https://support.kantech.com>.

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

Table 5: Technical support contact details

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

Latin America	Number type	08:00 to 20:00 GMT -03:00
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

Latin America	Number type	08:00 to 20:00 GMT -03:00
Costa Rica, National VOIP, Direct	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	Number type	09:00 to 17:00 GMT +08:00
Asia Pacific	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	Number type	08:00 to 18:00 GMT +01:00
Europe, Middle East, and Africa	Toll free	+800 2255 8926
Europe, Middle East, and Africa	Direct	+31 475 352 722
Bahrain	Direct	(0)800 04127
Belgium	Direct	+0800 76 452
Denmark	Direct	+45 4494 9001
Egypt	Direct	(0) 8000009697
France	Direct	+0800 90 79 72
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Italy	Direct	+39 02 3051 0112
Kingdom of Saudi Arabia	Direct	+96 6800 8500 509
Kuwait	Direct	(0)22062915
Lebanon	Direct	01 426 801, new dial tone and then dial 8552343677
Nordic countries	Direct	04494 9001
Oman	Direct	(00) 8007 4364
Qatar	Direct	(00) 800100841
Russia	Direct	+81 0800 2052 1031
South Africa	Direct	+27 10 100 3292
Spain	Direct	+900 99 31 61
Turkey	Direct	+00800 3192 3007

EMEA	Number type	08:00 to 18:00 GMT +01:00
United Arab Emirates	Direct	(0)800 0310 7123
United Kingdom	Direct	+44 330 777 1300

End-User License Agreement

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