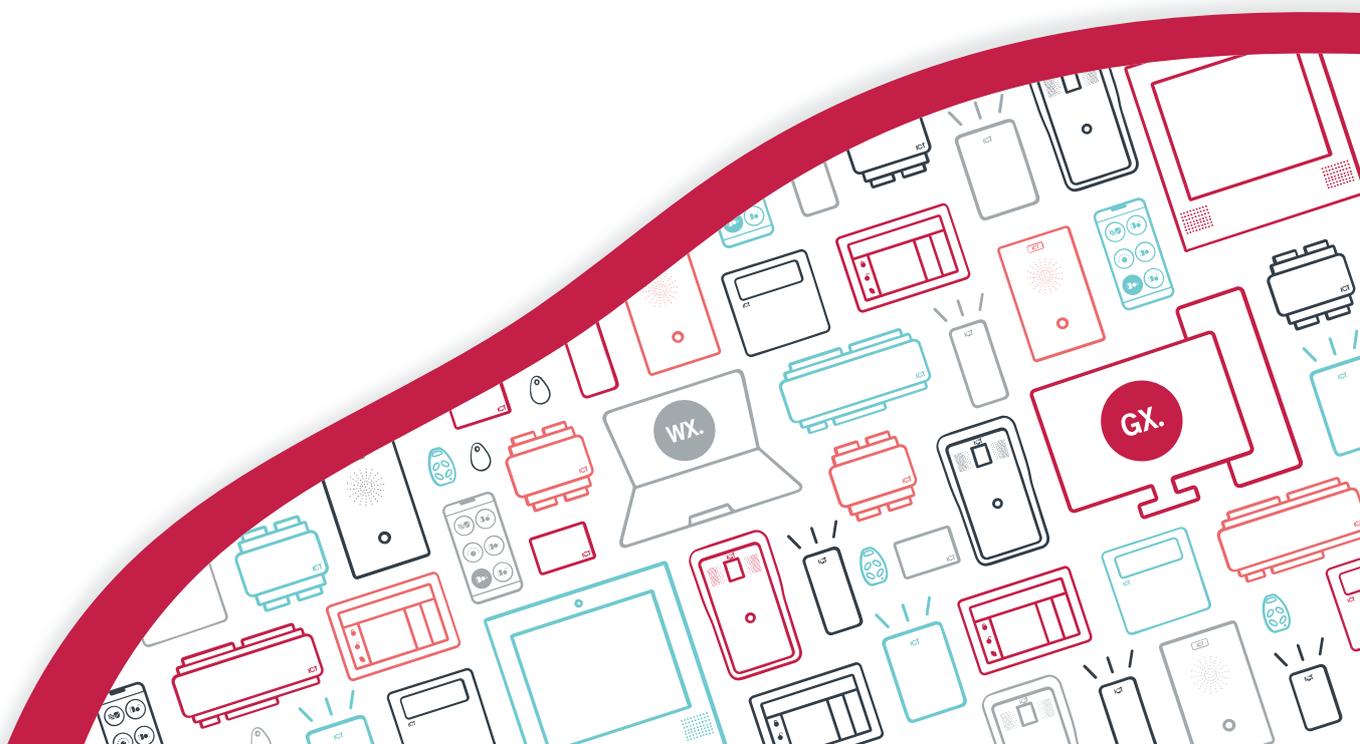




AN-215

Protege GX VingCard Visionline Integration

Application Note



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Last Published: 31-May-23 11:34 AM

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Introduction

Integration between Protege GX and the VingCard Visionline system provides a simple and seamless way to manage back of house staff access to electronic hotel locks, directly from the Protege GX interface. This is a wireless locking solution that contains standalone electronic hotel locks operating in online mode through radio frequency. The VingCard Visionline system is based on the secure networking platform Zigbee, which is used for wireless short-range communication.

Users are configured within Protege GX and then transferred to the VingCard Visionline system. User access to VingCard locks is determined by the VingCard lock ID associated with Protege GX door records assigned to the user's access level. When a user presents their access card at a VingCard lock, the VingCard Visionline system verifies their credentials using the information supplied by Protege GX to determine if the user is granted or denied access to the associated door.

Prerequisites

The following prerequisites must be installed and operational to configure this integration.

Software	Version	Notes
Protege GX software	4.3.285 or higher	
VingCard Visionline system	1.27.1	This is the only tested and supported version for this integration.
Firmware	Version	Notes
Protege GX controller	2.08.741 or higher	

It is the responsibility of the installation professional to verify the version of the proposed third-party system and supported components with the version listed in this document. ICT will not accept responsibility for the failure to verify integrated system versions and requirements.

Protege GX Licensing Requirements

License	Order Code	Notes
Protege GX VingCard integration license	PRT-GX-VING-HLI	1 license applied to the server
Protege GX Door License	PRT-GX-DOR-1	1 license per VingCard lock
	PRT-GX-DOR-10	
	PRT-GX-DOR-50	

Programming Steps

To program the Protege GX VingCard Visionline integration:

- The Protege GX controller time must be synchronized with an internet time server.
- The integration is enabled on the Protege GX controller, and connection to the VingCard server configured.
- The controller's onboard reader expander needs to be configured for use with the integration.
- Door records are programmed to represent each VingCard lock. A user will be allowed access to a lock based on the doors assigned in their access levels.
- Smart readers are programmed to provide the VingCard lock ID configuration associated with each door.
- User access levels are customized to control which doors (VingCard locks) the user has access to.

Set the Controller Time

1. Navigate to **Sites | Controllers**.
2. Select the controller connected to the VingCard server and click on the **Time update** tab.
 - **Automatically synchronize with an internet time server:** This option must be enabled as all communication with the VingCard server requires timestamps to avoid replay attacks. Timestamps are based on UTC time.
 - **Primary SNTP time server:** Leave this field with the default setting of **000.000.000.000**.
 - **Secondary SNTP time server:** Leave this field with the default setting of **000.000.000.000**.
 - **Time zone:** Defines the time zone to be used when setting the time on the controller.
3. Click **Save**.
4. Right-click the controller and update the time by clicking **Set controller date time**.

Configure the Controller

1. Open the **Configuration** tab, then scroll down and expand the **VingCard Visionline integration** section.
2. Select the **Enable Integration** option to display relevant fields:
 - **IP address:** The IP address of the VingCard server.
 - **Restart integration:** Click to restart VingCard Visionline integration.
 - **Port:** The TCP port of the VingCard server. This is set to 443 by default.
 - **Username:** The username of the account to be used to connect to the VingCard server.
 - **Password:** The password of the account to be used to connect to the VingCard server.
 - **VingCard Visionline encoder:** The name of the encoder to be used to program cards within the VingCard server.
 - **Enable integration debug:** When this option is enabled, system debug messages will be logged in the event log for troubleshooting.

This option may be useful for initial configuration and troubleshooting but should be disabled during normal operation to save event storage.

3. Click **Save**.

Configure the Onboard Reader Expander

VingCard locks are configured as smart readers, so the controller's onboard reader expander needs to be configured for use with the VingCard server.

1. Navigate to **Expanders | Reader expanders** and select the reader expander addressed as the controller's onboard reader expander.

This is set in the **Register as reader expander** setting (**Sites | Controllers | Configuration**).

2. Select the **General** tab and set the **Ethernet network type** to VingCard Visionline.
3. Click **Save**.
4. The reader expander will require a module update. Right click on the record and click **Update module** to restart the expander.

Add the Doors

A door record needs to be programmed for each VingCard lock in the system. This allows the lock to be associated with access levels for user access.

1. Navigate to **Programming | Doors** and click **Add** to create a new door record.
2. Enter a **Name** for the door which describes the lock that the door represents.
3. In the **Setup** section, set the **Door type** to Card.
4. Click **Save**. Repeat for each VingCard lock in the system.

Note: Door type support is limited to Card.

Add the Smart Readers

A smart reader record is programmed for each VingCard lock. This provides the lock identification and expander port configuration required for communication with the VingCard system. Communication with the VingCard server is over ethernet.

1. Navigate to **Expanders | Smart readers**.
2. Click **Add**.
3. Enter a **Name** for the smart reader record which describes the lock that the smart reader represents.
4. Set the **Expander address** to the address of the controller's onboard reader expander.
5. Set the **Expander port** to Ethernet.
6. Assign a **Configured address** from the dropdown menu. Each smart reader record must have a unique configured address value.
7. Expand the **VingCard Visionline integration** section and enter a value for the **VingCard Visionline door ID**. This defines the ID of the VingCard lock as assigned in the VingCard Visionline system.
8. In the **Reader** tab, set the **Reader 1 door** to the corresponding door record created above. This associates the VingCard lock ID with the selected door record to provide user access to the lock via access levels.
9. Click **Save**.

Configure User Access

Access to VingCard locks is assigned to users via access levels in the same way as normal door access. To provide a user with access to a VingCard lock, ensure that the smart reader record with the lock's ID assigned has an associated door record which is included in an access level assigned to the user.

To be transferred to the VingCard Visionline system a user must have at least one door which is associated with a VingCard lock ID included in an access level assigned to them. When users are transferred to the VingCard Visionline system, a user group is created for each user. This user group includes all the VingCard locks that the user has access to, based on the doors included in their access levels.

Program Staff Cards

Staff cards can be programmed using the VingCard encoder specified in the controller configuration (see page 5).

1. Navigate to **Users | Users** and select the user to program a card for.
2. Under the **General** tab, scroll down to the **VingCard Visionline** section.
3. Click on the **Program staff card** button. A popup will advise that the programming command has been sent to the VingCard Visionline encoder.

An event will be generated stating that the service either created the card successfully or failed to create the card.

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