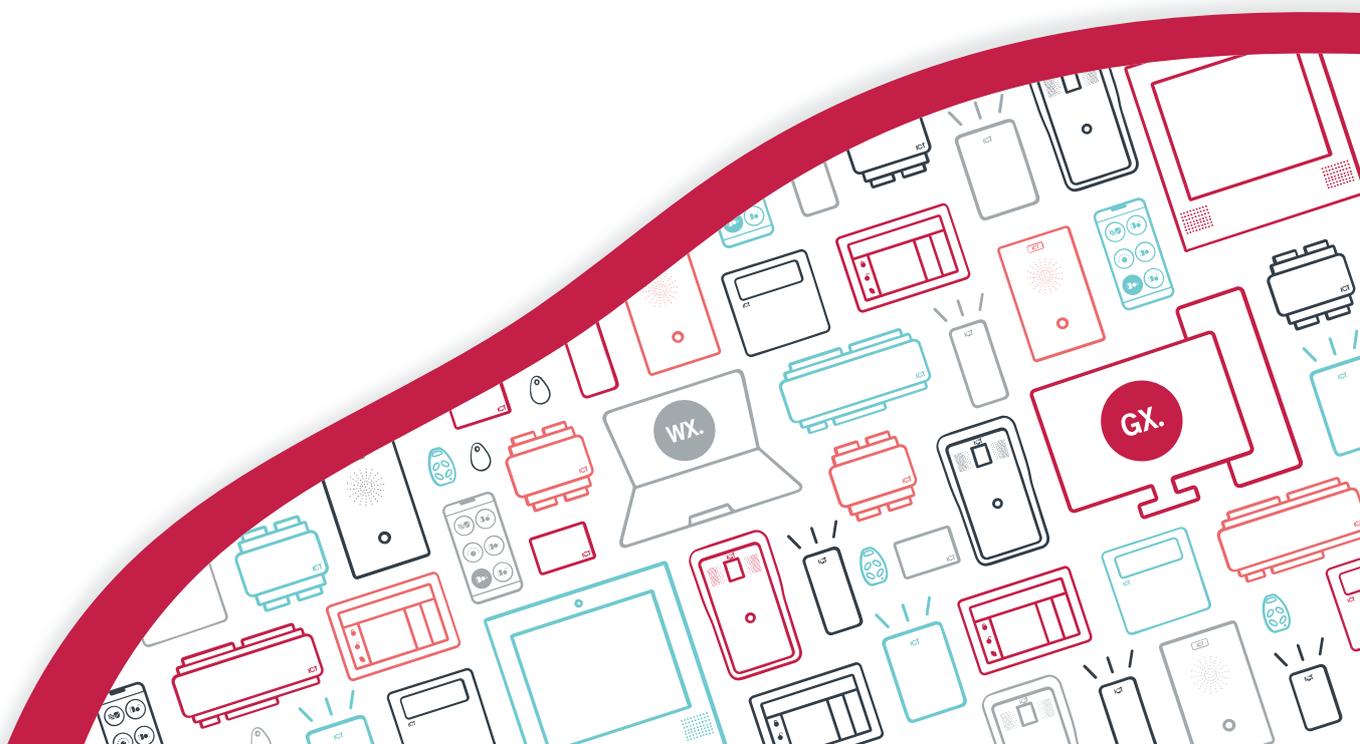




AN-160

Cencon Integration with Protege GX

Application Note



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Introduction

Cencon integration is a licensed feature that enables you to monitor and manage access to Cencon locks from within Protege GX. This integration allows you to manage Cencon users, create logical lock groups, view Cencon lock status, and monitor Cencon events.

This document describes how to program Protege GX for integration with Cencon locks. It does not include instructions on installing or configuring the Cencon system. For further information, consult the following documentation:

- Cencon Getting Started Guide
- Centran Getting Started Guide
- Centran Agent Getting Started Guide
- Centran Keybox Getting Started Guide

These documents are available from the [dormakaba](http://dormakaba.com) website.

Prerequisites

Cencon integration in Protege GX requires the following:

- An operational Protege GX system version 3.2.69.6 or higher.
- An operational Cencon locking system meeting the compatibility requirements listed below.
- A Cencon Integration license (ordering code: PRT-GX-CEN).
- A Cencon Lock license (ordering code: PRT-GX-CEN-LK) is required for each individual lock connected.

Version Compatibility

The following software and firmware versions are required for this integration:

Software	
Protege GX Software	3.2.69.6 or higher
Cencon	5.1.0.3494
CenTran	5.1.0.3494
CenTran Agent	5.1.0.3494
CenTran Keybox Agent	5.1.0.3494
Firmware	
Cencon Gen 2 Deadbolt Lock	2.2.1107
Cencon Gen 2 Swingbolt Lock	2.2.1107

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.

Integration Limitations

- This integration does not support the creation of Cencon branches within Protege GX.
- Only one Cencon branch can be managed from Protege GX, as individual locks or lock groups.

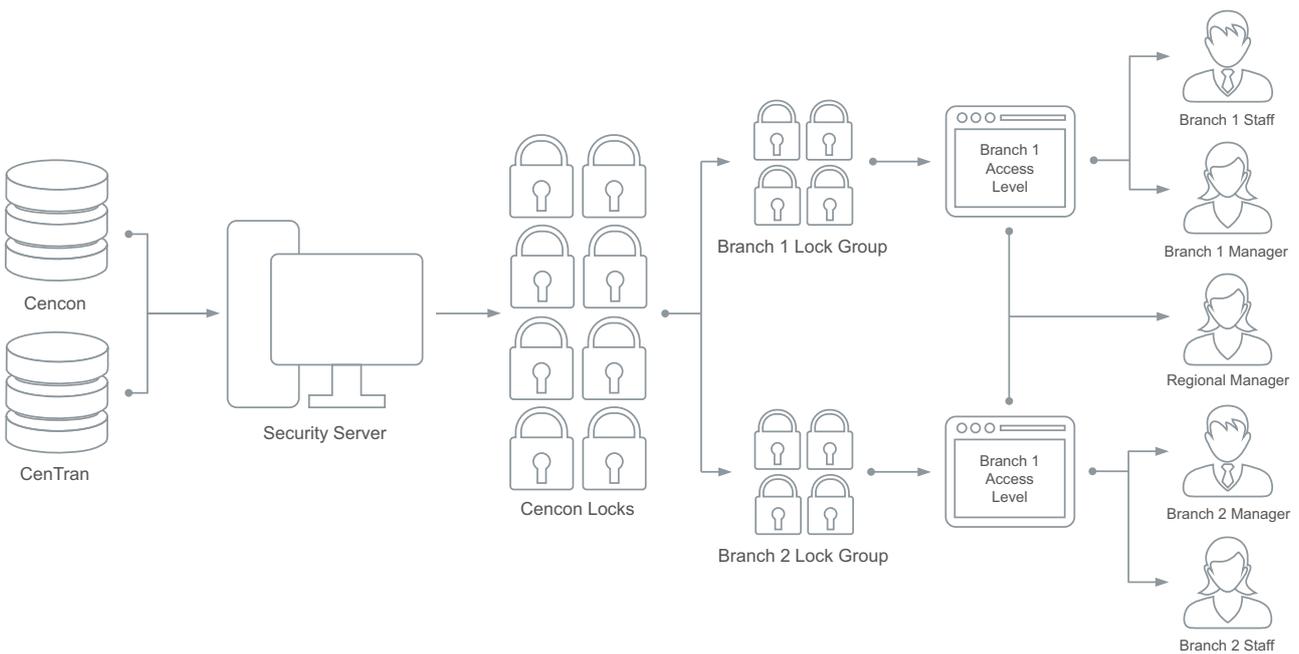
- Only Bank Mode User operations are supported. Events from keys operating in FLM or Route mode will be displayed with key serial numbers only.

Configuring Cencon Integration

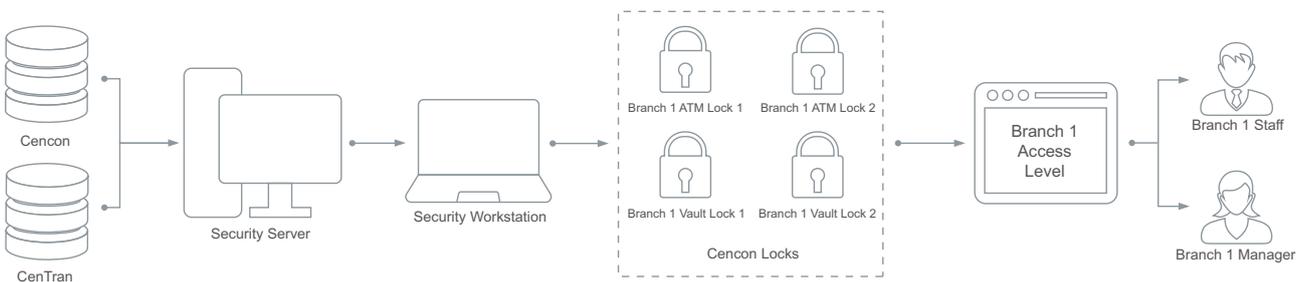
System Layout

Traditionally, each Cencon lock will be assigned to a branch within the Cencon database. However, when integrated with Protege GX there is no need to manage multiple branches in Cencon. Integrating with Protege GX allows unlimited Cencon locks to be managed as lock groups that can be assigned to users through access levels. Single Cencon locks can also be assigned to users and access levels.

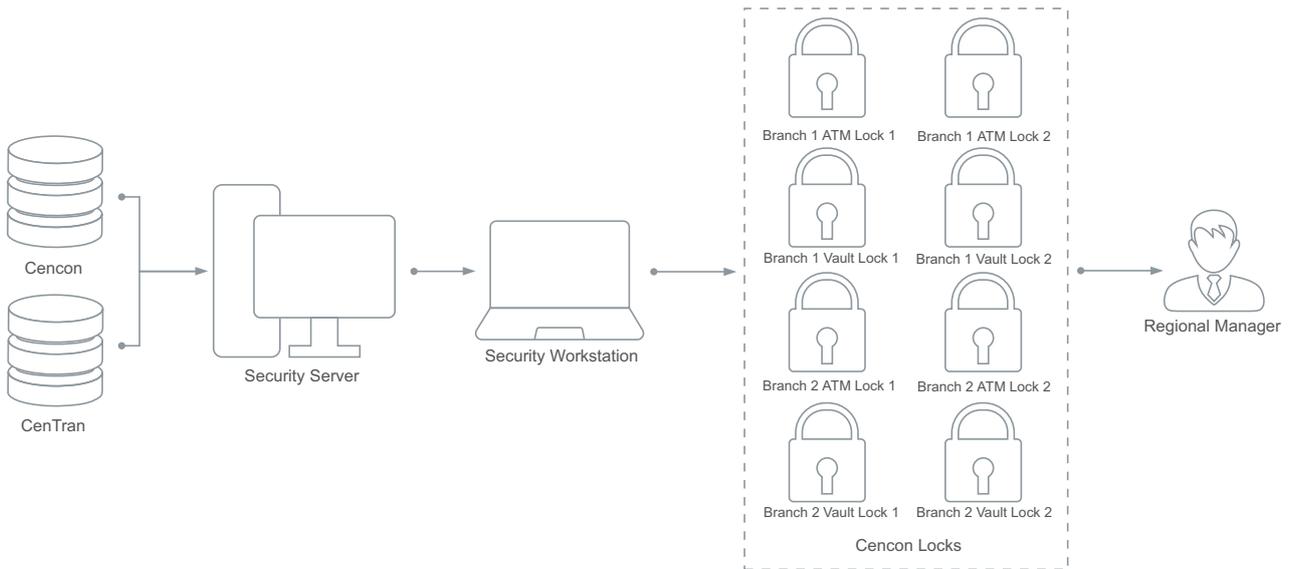
The example below illustrates Cencon locks collected in two lock groups, which are added to two access levels. The lock groups have been used to separate the Cencon locks that operate in Branch 1 from the locks that operate in Branch 2, and the access levels have been used to assign access to specific staff members.



The following example demonstrates individual Cencon locks added to an access level. This setup is best used when you don't want to assign access to all locks in the group.



Individual Cencon locks can also be assigned directly to a user without requiring an access level.



Configuring the Cencon Connection

1. To enable the integration, navigate to **Global | Sites** and select the site where the integration will be used.
2. Select the **Cencon** tab.

This tab is not available until the integration licensing requirements have been met (see page 4).

3. Enable the **Enable Cencon Integration** option.
4. Enter a **CenTran Input Transaction Path**. This is where Protege GX will send all outgoing transactions.
5. Enter a **CenTran Output Transaction Path**. This is where Protege GX will retrieve all incoming transactions.

For the Cencon integration to function correctly, ensure that there are no access restrictions applied to either of these directories, and that they can be accessed freely by the Protege GX and CenTran services.

6. Enter the **Dispatcher ID**. This is required for Cencon to function. However if the default Dispatcher ID is being used in the Cencon system configuration, it does not need to be entered into Protege GX.
7. Enter the name of the **Branch** that Protege GX will be managing.
8. The **Cencon Command Timeout (Seconds)** defines how long Protege GX will wait for a response from Cencon after sending a transaction file.

The default value is **30**. This should not be changed unless advised by ICT Technical Support.

9. The **Cencon Synchronization Interval (Minutes)** defines is how often a synchronization between Protege GX and Cencon will occur.

The default value is **5**. This should not be changed unless advised by ICT Technical Support.

10. If you want all Cencon transactions to be logged in Protege GX, select the **Log All Cencon Transaction** option. When this option is disabled, only error transactions will be logged.

Transactions can be viewed in **Cencon | Transaction Logs** once the integration has been fully enabled.

This option should remain disabled unless instructed otherwise by ICT Technical Support.

11. Click **Synchronize**.
12. Click **Save**.
13. Close and restart the Protege GX user interface.

Key Box Setup

Before any users can be assigned lock access, a key box needs to be assigned to a workstation.

Before attempting to assign a key box to a workstation, ensure that the key box is connected via USB to the workstation and is visible in the **Centran Configuration Manager** client's list.

1. Using the **CenTran Keybox Agent**, locate and note the key box's ID.
2. In Protege GX, navigate to **Events | Workstations**.
3. Select the workstation that the key box is connected to, or create a new workstation record with the correct **Computer Name**.
4. In the **Cencon Key Box** section, enter the **Key Box ID**.
5. Click **Save**.

Cencon Locks

This integration does not require you to program the Cencon locks within Protege GX. All locks assigned to the connected branch will automatically be added to Protege GX during synchronization.

Due to Cencon system requirements, each lock used in the integration must be initialized within the Cencon interface with two 'default' Cencon Bank Mode users.

User One:

- **User ID:** Default User One
- **Bank User ID:** 9999999999

User Two:

- **User ID:** Default User Two
- **Bank User ID:** 9999999998

These users must be added to every integrated Cencon lock at the time of installation / initialization.

Cencon Lock Groups

Cencon lock groups allow you to place Cencon locks into logical groups based on user access.

Example: Branch 1 has two ATM locks and two vault locks. Only a branch manager may access ATM locks. The locks can be split into a vault lock group and an ATM lock group. All users at the branch would be assigned the Branch 1 - Vault Lock Group, with the branch manager additionally assigned the Branch 1 - ATM Lock Group.

1. To create a Cencon lock group, navigate to **Cencon | Cencon Lock Groups** and click **Add**.
2. Enter a **Name** for the group.
3. Enable the **Include All Locks** option to add all of the Cencon locks to the group.
4. To add individual locks to the group, click **Add** in the **Cencon Locks** window.
5. Select the locks that belong to this group.
6. Click **OK**.
7. Click **Save**.

Managing Cencon Locks within Protege GX

Protege GX users must be correctly configured and synchronized to the Cencon database, with their Cencon key initialized, before they will be recognized at Cencon locks.

1. To create a new Cencon user, navigate to **Users | Users** and click **Add**.
2. Enter the user's **Name**.
3. Enter or generate a **6 digit PIN**.

PINs must be 6 digits in order to comply with Cencon database requirements.

4. Click **Save**.
5. Scroll down to the **Cencon Key** section and click **Initialize Key**.

You will be prompted to place a key into the key box. If the initialization is successful it will trigger an immediate synchronization and request the user be added to the Cencon database.

Protege GX users will not be synchronized with the Cencon database until a valid key initialization has taken place.

6. When complete, the **Cencon Key ID** will be displayed.
7. Click **Save**.

Managing Cencon Locks for Individual Users

To provide users with access to doors using Cencon locks, individual locks can be assigned directly to a user.

Adding individual locks to a user

1. Navigate to **Users | Users** and select the user to assign Cencon locks to.
2. Select the **Cencon Locks** tab, and click **Add**.
3. Select the locks you want the user to have access to.
4. Click **OK**.
5. Click **Save**.

Managing Cencon Locks using Access Levels

For a higher level of control, locks and locks groups can be assigned to an access level.

Adding individual locks to an access level

1. Navigate to **Users | Access Levels** and select the access level to assign Cencon locks to.
2. Select the **Cencon Locks** tab, and click **Add**.
3. Select the locks you want users with this access level to have access to.
4. Click **OK**.
5. Click **Save**.

Adding lock groups to an access level

1. Select the **Cencon Lock Groups** tab, and click **Add**.
2. Select the lock groups that you want users with this access level to have access to.

3. Click **OK**.
4. Click **Save**.

Lost / Disabled Key

If a Cencon user loses their key or their key needs to be disabled to restrict access, the key can be removed from within Protege GX.

1. Navigate to **Users | Users** and select the user that needs their key disabled.
2. In the **Cencon Key** section, click **Disable Key**.
This causes Protege GX to initiate an immediate synchronization, requesting that the user be deleted from the Cencon database and all associated locks. If the removal is successful, the button will toggle back to **Initialize Key**.

Deleting a User

Deleting a user in Protege GX causes Protege GX to immediately request that the user be deleted from the Cencon database and all relevant locks.

Active / Inactive Users

If a user record is disabled within Protege GX, Protege GX will send a request to delete the user from the Cencon database and all relevant locks, during the next synchronization.

If a disabled user record is enabled within Protege GX, Protege GX will initiate an immediate synchronization and request that the user be re-added to the Cencon database, resulting in a new key being required. The **Initialize Key** process will need to be performed.

Monitoring

Lock Status

The status of the Cencon locks can be viewed from a Protege GX status page using status lists.

Creating a Status List

1. Navigate to **Monitoring | Setup | Status Lists** and click **Add**.
2. Enter a **Name** for the status list.
3. In the **Devices** section, click **Add**.
4. Set the **Device Type** to Cencon Lock.
5. Select the locks you want to display in the status list, then click **OK**.
6. Click **Save**.

Creating a Status Page

1. Navigate to **Monitoring | Setup | Status Page Editor**.
2. To create a new status page, click **Add**.
3. Enter a **Name** and select a **Default Layout**, then click **OK**.
4. To add the lock status to a status page, select the page you want to add to.
5. Set the **Type** to Status List and set the **Record** to the list containing the Cencon locks.
6. Click **Save**.

Viewing the Status Page

1. Navigate to **Monitoring | Status Page View**.
2. Select the status page containing the Cencon locks.

Due to periodic synchronization, the status of the locks may not be displayed in real time.

Transaction Logs

Cencon Transaction Logs can be viewed from with Protege GX. This allows you to view the communications between the Cencon database and Protege GX.

1. To view the transaction log, navigate to **Cencon | Transaction Logs**.
2. To reload the feed, click **Refresh**.
3. To import more transactions, click **Load More**.

Events

The following events can be displayed within Protege GX.

- Bank Mode Closed Lock
- Bank Mode Confirm Bank mode lock open as closed
- Bank Mode Covert Detected Close
- Bank Mode Covert Detected Open and Close
- Bank Mode Covert Entry Cleared

- Bank Mode Opened and Closed Lock
- Bank Mode Opened Lock
- Bank Mode Verify Close
- Bolt works extended sensor disconnected
- Consecutive-Failed attempts limit
- Door open while getting close seal
- Door sensor disconnected
- FLM Mode Closed Lock
- FLM Mode Confirm FLM mode dispatched call closed
- FLM Mode Covert Detected Close
- FLM Mode Covert Detected Open and Close
- FLM Mode Covert Entry Cleared
- FLM Mode Opened and Closed Lock FLM Mode Opened Lock
- FLM Mode Retrieval of Close seal from a closed lock
- Remote disable asserted
- Route Mode Closed Lock
- Route Mode Confirm Route mode dispatched call closed
- Route Mode Covert Detected Close
- Route Mode Covert Detected Open and Close
- Route Mode Covert Entry Cleared
- Route Mode Opened and Closed Lock
- Route Mode Opened Lock
- Route Mode Retrieval of Close seal from a closed lock
- Unexpected bolt retraction. The bolt was retracted possibly by not having been extended completely from the previous open bolt
- Unexpected bolt works retraction. The bolt works sensor indicates open while the bolt is still extended
- Unexpected door open. The door sensor indicates open while the bolt is still extended
- Cencon Lock Group Added by Operator
- Cencon Lock group Modified by Operator

All new events will be loaded into Protege GX during each synchronization period.

Errors

If any Protege GX requests to the Cencon database cannot be completed, you will be informed via an error message. If an error occurs, no data will be lost and the action can be requested again once the issue is resolved.

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