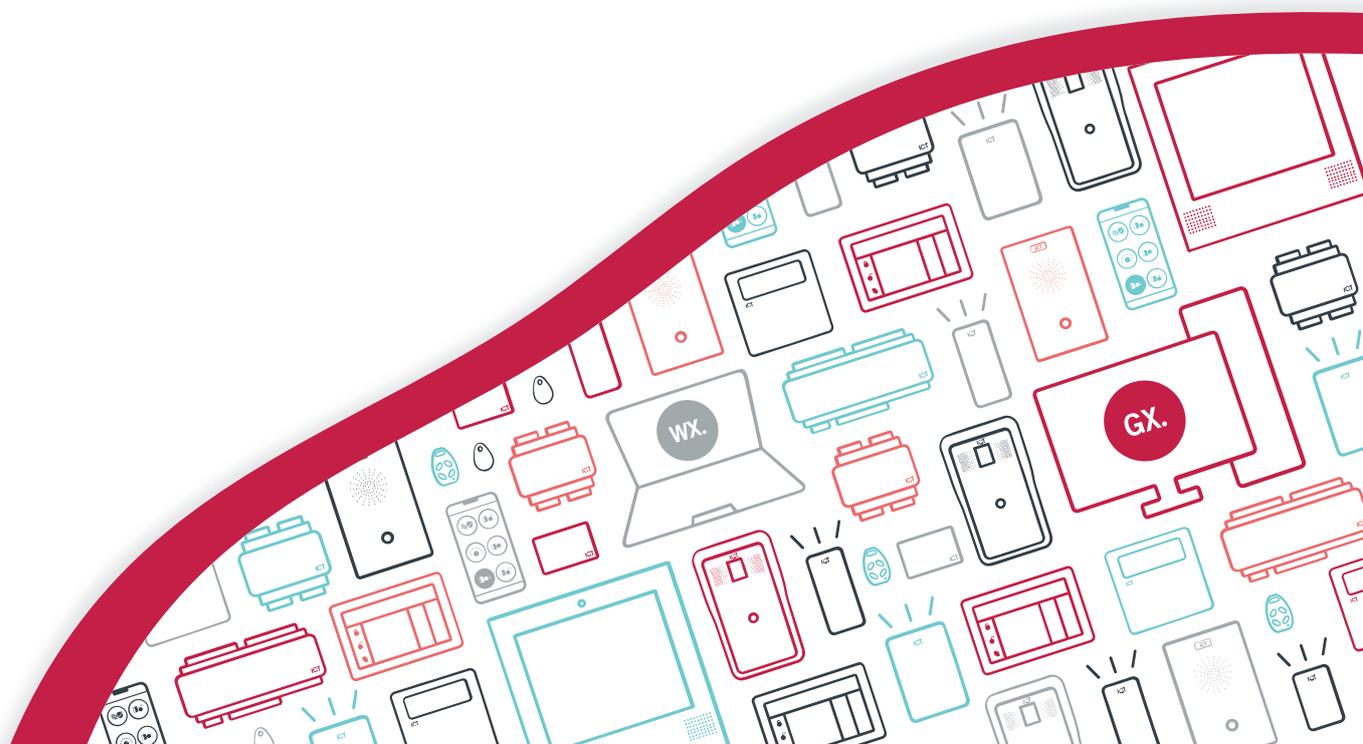




**AN-301**

# **Commend Intercom Integration with Protege GX**

Application Note



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Last Published: 11-May-22 10:43 AM

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# Introduction

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Protege GX integration with Commend intercom terminals incorporates essential communication system operation with the integrated access control, intruder detection and building automation of Protege GX.

Integration with the Commend intercoms enables mapping of intercom call states and alarms to Protege GX inputs, allowing call states and alarms to be identified, reported and displayed on floor plans and status pages.

This document describes how to program the Protege GX components to interface with the Commend intercom terminals. It does not cover the programming or hardware setup required within the Commend system.

## Prerequisites

Commend intercom terminal integration with Protege GX is compatible with IP based Commend systems only. The following prerequisites are required:

- An operational Protege GX system.
- A Protege GX controller with firmware version 2.08.922 or higher.
- The Commend server IP address, TCP connection port, and secure connection password.
- The Commend Input ID configuration of the various alarm messages for each Commend intercom terminal.

# Commend Intercom Integration

Integration with Commend intercom terminals must first be enabled and configured in Protege GX.

The integration operates as a specially configured service, which is enabled and configured via commands in the controller programming. This enables the controller to communicate with the Commend system server and integrate the intercom terminals with Protege GX.

## Enable the Integration

To enable the Commend intercom integration:

1. Navigate to **Sites | Controllers** and select the controller that will communicate with the Commend server.
2. In the **Commands** section, enter the following:  
`Commend = true`  
`Commend_IP = <CommendServerIP>`  
`Commend_Port = <CommendTCPPort>`  
`Commend_PW = <CommendPassword>`
3. Click **Save**.

Repeat the above process for all controllers that will communicate with the Commend server.

## Commands Reference Table

The following table describes the commands required to enable and configure the integration.

Command	Reference
<code>Commend = true</code>	Enables the Commend Intercom Service. If this command is absent or incorrect the Commend integration is disabled.
<code>Commend_IP = &lt;CommendServerIP&gt;</code>	Specifies the IP address of the Commend server the controller will connect to.
<code>Commend_Port = &lt;CommendTCPPort&gt;</code>	Specifies the TCP port the controller will connect to for the Commend server.
<code>Commend_PW = &lt;CommendPassword&gt;</code>	Specifies the pre-determined password to be used when establishing a secure connection to the Commend server.

## Programming Intercoms as Input Expanders

Each Commend intercom terminal is configured in Protege GX as an input expander.

This allows the intercoms to mimic ICT input expanders so that the intercom terminal call state can be identified and reported as an input state in Protege GX.

1. Navigate to **Expanders | Input Expanders**.
2. From the **Controller** dropdown, select the controller that will connect to the Commend server.
3. Click **Add** to create the input expander record for the intercom terminal.
4. Enter a **Name** for the Commend intercom terminal. This would typically identify its location or ID.
5. Set the **Physical Address** to any available unique number. This value must not be left as <not set>.

6. In the **Commands** section, enter the following command:

**CommendDeviceID = <DeviceID>**

This configures the unique Commend system ID of the intercom terminal, so that it can be identified.

7. Click **Save**.

8. In the **Configure Module** popup window:

- Set **Inputs** to 1
- Set **Outputs** to 0
- Click **Add Now**.

Repeat the above process for all Commend intercom terminals that will be integrated with Protege GX.

## Intercom Call State Mapping

The call states of the Commend intercom terminals are automatically mapped to input 1 of the intercom's Protege GX input expander record.

### Call States Reference Table

The following table describes the mapping of Commend intercom call states to Protege GX input states.

<b>Commend Intercom Terminal Call State</b>	<b>Input Expander Input 1 State</b>
Initiating a Normal Call	Shorted
Accepting a Call	Tamper
Ending a Call	Closed
Initiating an Emergency Call	Opened

Note: When a line fault is reported, the Module Offline trouble input for that input expander will report Open.

## Programming Alarm Inputs

In addition to mapping and monitoring the standard Commend intercom call states, additional inputs can be configured to monitor alarm messages sent by the Commend intercom terminals. Specific messages such as tamper alarms, duress button and door release can be created and referenced within Protege GX. This provides the ability for Protege GX to monitor, display and report these Commend intercom alarms.

Each unique alarm message must be created as an input, and linked to the input expander record of the specific intercom terminal.

1. Navigate to **Programming | Inputs**.
2. From the **Controller** dropdown, select the controller that will connect to the Commend server.
3. Click **Add** to create the required input.
4. Enter a **Name** to describe the intercom alarm message input function.

This should include the name or ID of the intercom to uniquely identify the alarms for each terminal.

5. Set the **Module Type** to Input (ZX).
6. Set the **Module Address** to the corresponding **Physical Address** of the input expander record representing this intercom (see previous page).

This links the input programming and reporting to the specific intercom terminal.

7. Set the **Module Input** to any available unique number other than 1, which is the default input for call states.

8. In the **Commands** section, enter the following command:

**CommendInputID = <InputID>**

This configures the unique **input call number**, specific to each alarm message and terminal, that the intercom will use when sending alarm messages.

9. Click **Save**.

Repeat the above process to create the required alarm inputs for each Commend intercom terminal.

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