AN-212

Two Factor Authentication in Protege GX

Application Note

ICT® eSecurity.

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Two Factor Authentication in Protege GX

Two Factor Authentication ensures that the person identifying themselves at a card reader is actually who they claim to be. It is designed to guard against a lost or stolen card being used to unlawfully gain access to something.

It takes into account two different aspects: What you have (card) and what you know (PIN).

Using a card reader with an inbuilt PIN pad, or combining a card reader with a traditional alarm keypad, two factor authentication to be easily implemented at a single door, or across an entire site. It can even be enabled at certain times of day, or based on any other condition such as whether the system is armed.

Two Factor Authentication is not limited to Card and PIN. A Biometrics reader can be used together with a traditional card reader to provide combinations of **Card and Finger** or **Finger and PIN**.

Prerequisites

Hardware and software requirements:

- An operational Protege GX system.
- A Protege Controller using PRT-CRTL-DIN firmware.

It is assumed that the following fields have already been configured:

- The door to which you want to apply Two Factor Authentication.
- Door input options for the entry and exit points are assigned:
  - **Area Inside Door**
  - **Area Outside Door**

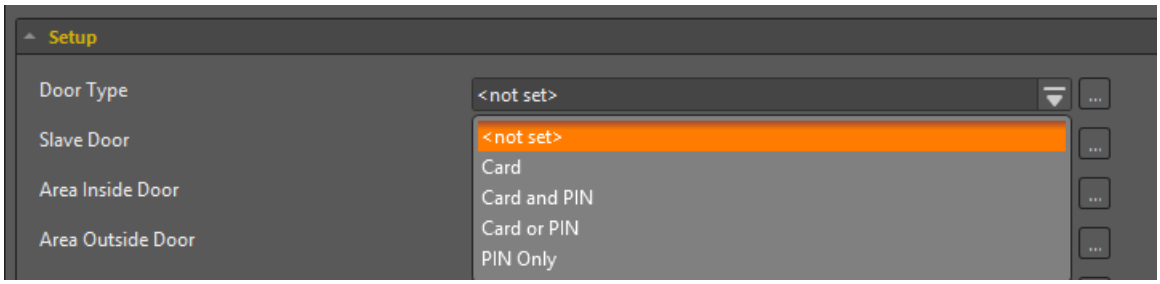
Overview

The following instructions outline the steps required to implement Two Factor Authentication in Protege GX:

- Creating a new **Door Type**.
- Applying the new **Door Type** to the selected **Door**.

Implementing Two Factor Authentication in Protege GX

When navigating to **Programming | Doors**, notice that the **Door Type** field already has some default door types.



It is not recommended that you use the default door types.

The default door types exist mainly for testing purposes because the selected **Door Type** is applied to the readers on both sides of the door. For example, many installations include a keypad on the outside of the building, and a reader on the other side of the door within the building. You cannot assign the default **Card and PIN** door type as the indoor reader does not contain a PIN pad.

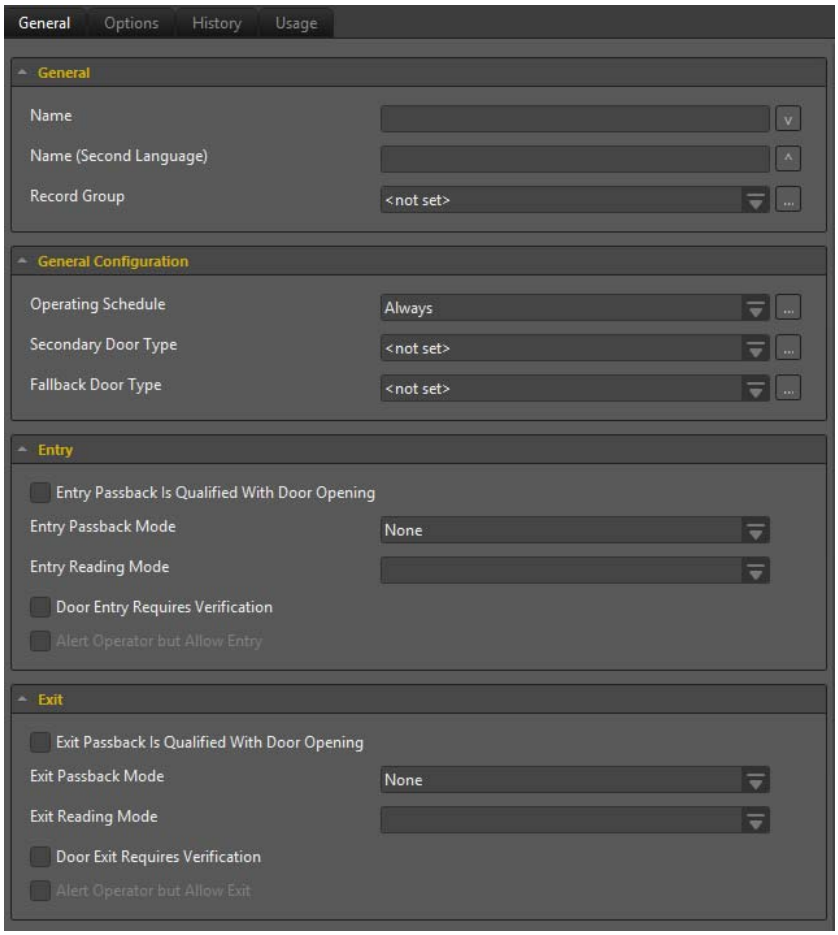
The following instructions outline how to create a customized **Door Type** to suit your installation.

Creating a New Door Type

1. Navigate to **Programming | Door Types**.
2. Click **Add** to create a new door type and enter the following options:

- **Name:** The name of the door type being created.
- **Operating Schedule:** The operating schedule for which this Door Type will be valid. If you do not want the authentication for this door to operate by a schedule, leave this field set to Always.
- **Entry Reading Mode:** The type of authentication required to enter through the specified door.

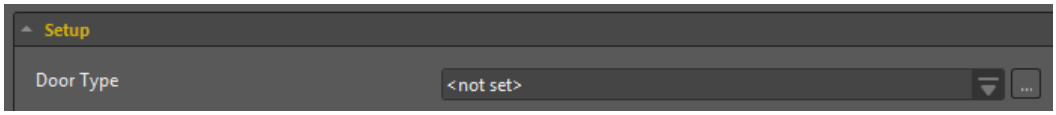
  This is generally where two factor authentication is implemented as it is likely that you wish for users to enter the building using two different types of credentials.
- **Exit Reading Mode:** The type of authentication required to exit through the specified door.



3. Click **Save**.

Assigning the Door Type to the Door

1. Navigate to **Programming | Doors** and select the **Door** you wish to apply Two Factor Authentication to.
2. Set the **Door Type** field to that created previously (see page 6).



3. Click **Save.**

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Integrated Control Technology welcomes all feedback.

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