

inception

WEB POWERED SECURITY

Simple & Easy Installation
Integrated Security - Access Control



Inception ELAN Driver Setup Guide

Version History

- **1.0.0**
 - Initial release.

Introduction

This guide will take you through the process of configuring the Inception and ELAN systems to integrate with each other through the Inception ELAN driver.

Prerequisites

- An Inception controller running firmware version 3.3.0 or later
- A compatible ELAN system controller device (tested against gSC10 with firmware version 8.4.16)
- A PC with ELAN g!Tools software version 7.3.77.0 or later installed
- The Inception Security driver file (Inception.EDRVC) and the Inception Output driver file (InceptionOutputs.EDRVC)

Configuring Inception for ELAN Integration

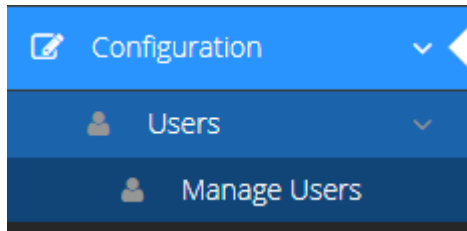
The ELAN driver logs into Inception as a standard web user. The permissions of this user determine what items are synced to ELAN and what can be controlled by default.

All inputs in the Inception system will be available to ELAN automatically, but only the areas, doors and outputs that this new user has permission to access will be available to ELAN. This allows a reduced number of items to be synced across to ELAN to help simplify configuration. Any control requests of areas, outputs or doors that don't require a PIN (e.g. auto-arming an area from ELAN) will also be performed by this user, so this step ensures that the correct permissions for this user are already in place.

If a PIN is provided to perform an action in ELAN, the user who is assigned that PIN in Inception will be the one who performs the action, with their permissions checked and their name logged in the review event history. All other commands will be logged by being requested by the API user.

In the Inception web interface, go to the **[Configuration > Users > Manage Users]** page and create a new user called "ELAN Driver User", or another name of your choice. In the credentials section for this user, tick the *Enable*

Web Login option, assign a username and password for this user, and set their Web Page Profile to REST Web API User.



Enable Web Login

Username

Password

Web Page Profile

This new user will act as the operator who will perform any area, door or output control actions from the ELAN integration by default. This means that this user also needs to have permissions assigned for any of the areas/outputs/doors/etc. that you wish to be able to control from within the ELAN system.

Permissions

Permissions	Allowed	What		When	
	Allow	Door	Car Park Door	Access	Always
	Allow	Door	Front Door	Access	Always
	Allow	Door	Warehouse Main Door	Access	Always
	Allow	Area	Administration	Arm	Always
	Allow	Area	Carpark	Arm	Always
	Allow	Area	Warehouse	Arm	Always
	Allow	Custom Output	Office Lighting	Control	Always
	Allow	Custom Output	Warehouse Lighting	Control	Always

Add Items Remove Selected Items

By default, outputs can't be directly controlled by users. For any outputs that you wish to expose for external control, make sure they are configured to be user controllable from the [Configuration -> Outputs -> Set as User Controllable] page.

Configuring Multi-Mode Arming (Full/Perimeter/Night) for Areas

By default in Inception, areas can be simply armed or disarmed. The multi-mode arming options available in ELAN must be enabled per-area within Inception, allowing an area to be armed in Full, Perimeter and Night modes. This is optional per-area, so you can have a multi-mode House area, but a standard arm Garage and Workshop area for example. The arm modes have the following behaviour:

- **Full Arm** - Exactly the same behaviour as the standard Arm mode. The whole area is armed with Exit Delay if required. Intended for use when everyone is leaving the area.
- **Perimeter Arm** - Arms the area in Perimeter mode. Intended for use when people will remain in the area, securing only the perimeter of the building. No exit delay will activate even if requested and only the perimeter inputs are monitored (specified in the "Perimeter Inputs" option below). If a Primary input activates, entry delay will begin (e.g someone opens a door).
- **Night Arm** - Arms the area in Night mode. Intended for use when people will remain in the area, but no one is expected to enter or leave. Similar to Perimeter mode, no exit delay will activate even if requested and only the perimeter inputs are monitored (specified in the "Perimeter Inputs" option below). Unlike Perimeter mode though, if any perimeter input activates (including Primary inputs), the alarm will activate immediately. This allows warning if someone breaks into the front door while everyone is asleep for example.

The modes can be enabled by going to the [**Configuration > Areas > Edit Areas**] page within Inception and to the **Inputs** section. Tick the *Multi-Mode Arming (Full/Perimeter/Night)* option and specify which intruder inputs are in the perimeter of the area. These are the inputs that will be monitored in Perimeter and Night modes.

Multi-Mode Arming (Full/Perimeter/Night)	<input checked="" type="checkbox"/>		
Perimeter Inputs	<table border="1"> <thead> <tr> <th>Perimeter Inputs</th> </tr> </thead> <tbody> <tr> <td>8 Input Expander 1 - Input 2</td> </tr> </tbody> </table>	Perimeter Inputs	8 Input Expander 1 - Input 2
Perimeter Inputs			
8 Input Expander 1 - Input 2			

When the ELAN driver syncs area data from Inception, it will also check each area's multi-mode arm flag. Areas with multi-mode arm enabled will have buttons visible in the ELAN interface for Full/Perimeter/Night mode arming, areas without multi-mode enabled will only have buttons visible for standard Arm/Disarm. If multi-mode arm mode has been enabled on an area after the ELAN driver has already connected to Inception, you can bring in new changes to the ELAN driver by clicking the "Reconnect and Sync Data" button on the driver configuration page.

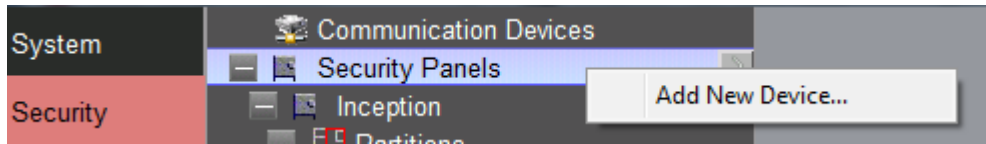
Configuring the ELAN Inception Driver

Due to constraints in the ELAN driver API, the Inception driver functionality is split into 2 separate drivers. The Security driver is responsible for monitoring and controlling Inception's Areas and Inputs, and the Output Controller driver is responsible for monitoring and controlling Inception's Outputs and Doors (Lock/Unlock only). Both drivers need to be configured individually but the process is similar for each one.

Configuring the ELAN Inception Security Driver (1/2)

Open the ELAN g!Tools software and open the Configurator for the ELAN controller that you want to install the Inception driver on. Go to the "Security" tab and right click "Security Panels" and click "Add New Device...". Select the Inception Security driver from the list of devices (you may need to use the "Search Folder..." button to choose

the location where the Inception.EDRVC file is stored on disk). Click OK, and a new instance of the Inception driver will be created.



Device : Inception

Name:

System #:

Status Color Coding:

Status: ■ Username or password is blank

Driver Version:

Driver Vendor:

Installed:

Device Type:

Username:

Password:

IP Address:

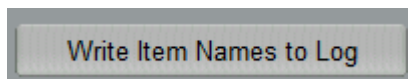
Port:

Mode	Name	Show Mode	Auto-Arm	Auto-Bypass	Key Entry
Disarm	Disarm	Yes	No	No	Code+Enter
Mode 1	Full	Yes	No	No	Code+Enter
Mode 2	Perimeter	Yes	No	No	Code+Enter
Mode 3	Night	Yes	No	No	Code+Enter

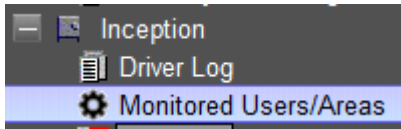
Set the Username and Password fields to match the Inception ELAN API User you created earlier and set the IP Address to match the IP Address of the Inception controller. Click the Apply button, and the driver should connect to Inception and begin syncing Area and Input data. The Status will change to “Connected” to indicate that the driver is online and communicating with the Inception controller.

Configuring Specific User Arm/Disarm Events

In order to utilise the “Area A Disarmed by User”, etc. events in the driver, you will need to retrieve the IDs of the Areas and Users you wish to monitor, so they can be filled in on the “Monitored Users/Areas” configuration page. Click the “Write Item Names to Log” button on the driver configuration page, and all Area IDs and User IDs should be written to the Driver Log.



Open the Monitored Users/Areas config page, and you will be able to assign IDs for “User A-J” and “Area A-D”. These placeholder items are used in system events to identify when a specific user controls an area, for example, you may want to trigger an action in the ELAN system when “John Smith” arms a certain area, but not for anyone else. Input the IDs of the users and areas you wish to monitor (from the driver log output) and apply the changes.



Monitored Users/Areas

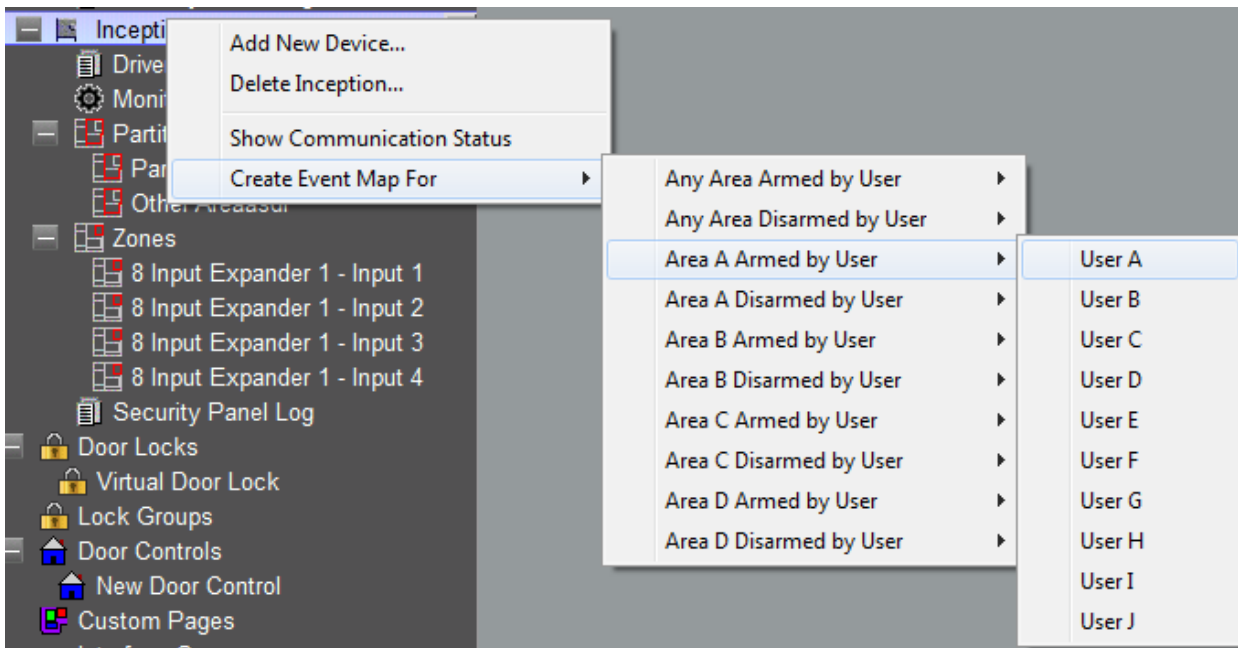
Monitored Users

User A ID	1
User B ID	4
User C ID	
User D ID	
User E ID	
User F ID	
User G ID	
User H ID	
User I ID	
User J ID	

Monitored Areas

Area A ID	1
Area B ID	2
Area C ID	
Area D ID	

You should now be able to create event maps for when specific users arm or disarm areas by right clicking the Inception driver and selecting the event type.



Configuring the ELAN Inception Output Driver (2/2)

In the ELAN Configurator application, select the Input/Output tab and right click Relay Outputs and click the “Add New Output Controller...” button. Select the Inception Output controller driver from the list of devices. Click OK, and a new instance of the Inception Output driver will be created.



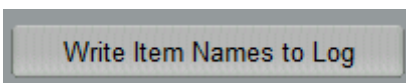
Output Controller : Inception Output Controller

Name	Inception Output Controller
System #	12408
Status Color Coding	Enabled
Status	Username or password is blank
Driver Version	1.0.0
Driver Vendor	ELAN Certified
Installed	5/14/2020 3:38
Device Type	Inception Output Controller
Username	
Password	
IP Address	192 . 168 . 0 . 0
Port	80

Set the Username and Password fields to match the Inception ELAN API User you created earlier and set the IP Address to match the IP Address of the Inception controller. Click the Apply button, and the driver should connect to Inception. The Status will change to “Connected” to indicate that the driver is online and communicating with the Inception controller.

Retrieving User, Output and Door Information

Inception supports up to 512 outputs. Due to limitations in the ELAN driver API, the driver is not able to automatically sync the configured output names and IDs, so the Output controller driver has the ability to write the names of all Users, Outputs and Doors in the Inception system to the Driver Log in the ELAN Configurator program.



To list the User, Output and Door names, click the “Write Item Names to Log” button on the Output Controller driver’s configuration page, then open the Driver Log. There should be an entry for each User, Output and Door configured in the Inception system (ID numbers are shared across Outputs and Doors; each one should be unique). You can use this information to identify which Output IDs map to which items in the Inception system and rename

items in the ELAN system to make them easier to identify. You can also use these IDs to enable monitoring for door access events for specific users.

Inception Output Controller Log:

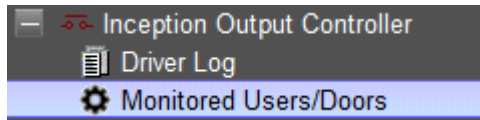
Start Date/Time: 05/13/2020 5:13 PM
End Date/Time: 05/14/2020 5:13 PM

Get Records Get Previous Get Next

Date/Time	Item Type	ID	Name
5/14/2020 7:11:55 AM	Door	1	Inception Controller - Door 1
5/14/2020 7:11:55 AM	Output	4	Inception Controller - Generic Output 3
5/14/2020 7:11:55 AM	Output	3	Inception Controller - Generic Output 2
5/14/2020 7:11:55 AM	Output	2	Output 1
5/14/2020 7:11:55 AM	=====	=====	=====

Configuring Monitored Users and Doors for User Door Access Events

The Inception driver is capable of raising events when specific users access certain doors, which can be used to trigger automation in the ELAN system. To use these events, items IDs must be assigned to the “Users A-J” and “Doors A-E” item slots on the Monitored Users/Doors page. The “User A”, “Door A”, etc. item slots are used by the driver to trigger events such as “Door A opened by User A” when an event occurs involving the matching item IDs. Click on the “Monitored Users/Doors” configuration page to bring up the event config options.



Monitored Users/Doors

Monitored Users

User A ID: 1

User B ID: 2

User C ID: 3

User D ID: 4

User E ID:

User F ID:

User G ID:

User H ID:

User I ID:

User J ID:

Monitored Doors

Door A ID: 1

Door B ID: 6

Door C ID: 7

Door D ID:

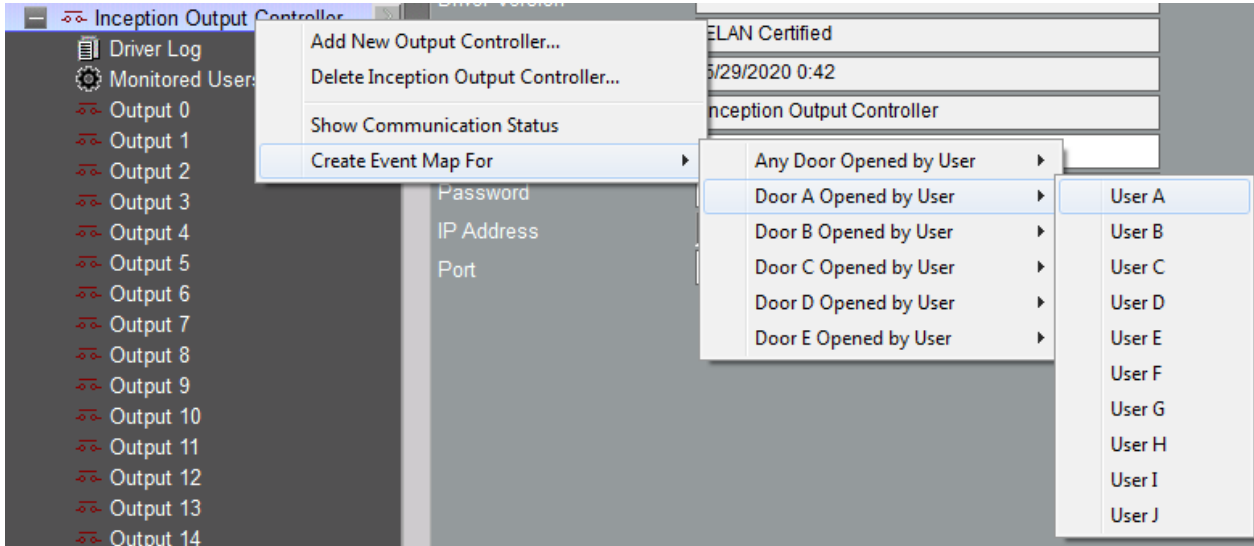
Door E ID:

The IDs printed by the “Write Item Names to Log” button can be used to assign IDs on this page. For example, you could create an event map to trigger certain actions (e.g. lights on, change TV channel) when John Smith opens

the Front Door, by assigning John Smith’s ID and the Front Door’s ID to a Monitored User slot and Monitored Door slot respectively, and creating a corresponding event map for them.

The “Any Door Opened by User” event will be raised for any door, even unmonitored doors (i.e. ID not assigned to Door A-E) when they are opened by a monitored user.

You can create event maps for these events by right clicking the Inception Output Controller driver and selecting the desired event.



Troubleshooting

Driver status shows “Network Connection Issue”

The driver cannot connect to Inception. Check that the driver’s configured IP Address matches the Inception controller’s IP address and that the Port is set to 80. Make sure that both the ELAN controller and Inception controller are properly set up and able to communicate on your local network.

Driver status shows “Inception Firmware version is out of date”

The Inception controller’s firmware version is too old to support the integration. Log into the Inception web interface and go to the [System -> Firmware Update -> Update Controller] page to update to the latest firmware version (the driver requires at least firmware version 3.3.0).

Driver status shows “Failed to sync Areas/Doors/Outputs”

The ELAN driver was able to connect to Inception but couldn’t retrieve item data due to a permissions error. Check that you have properly assigned the “REST Web API User” Web Page Profile to the Inception ELAN API User you created for the integration, and that the Web Page Profile has not been modified (Area/Door/Output State in the Item Monitoring Permissions section should be set to “Control”).

Driver does not appear when adding a new device

Make sure that your ELAN controller is running at least firmware version 8.4.16 or newer, otherwise the Inception driver may not appear in the list even if you’ve selected the folder that the .EDRVC files are located in.

Partition names do not match Inception area names

If area names or inputs names are changed in the Inception system, you will need to click the “Reconnect and Sync Data” configuration button to bring the updated names into the ELAN system.

Tech Support

For support on setting up and using the Inception controller, Inner Range support can be contacted on +61 3 9780 4300. Note that as the Inception controller is a security system, you must be a registered technician with an Inner Range account to receive support.