WEB POWERED SECURITY

Simple & Easy Installation Integrated Security - Access Control

Province theme clock to pair of the second s

A CONTRACT OF A

Inception - Milestone XProtect Access Plugin Guide

Description

The Inception to Milestone XProtect Access integration plugin allows Milestone XProtect to monitor and control items in the Inception system via the Inception REST API. The plugin supports real-time item state monitoring, user/cardholder info syncing, event monitoring and item control commands. With the Inception plugin, the XProtect Smart Client can act as the "head-end" software through which access control, security, and CCTV operations are carried out.

Features

- Real-time Item State Monitoring
 - Doors Locked, Unlocked, Open, Closed, Forced
 - Areas Armed, Disarmed, Entry/Exit Delay, In Alarm
 - Outputs On, Off
- Item Control Commands
 - Doors Grant Access, Unlock, Lock, Lock Out, Reinstate
 - Areas Arm, Disarm
 - Outputs Turn On, Turn Off
- Real-time Event Monitoring
 - Server Connection/Disconnection
 - Area Arm/Disarm and Alarm events
 - Door access granted/denied events
- Access Request Notifications
 - Optionally require a guard to visually validate cardholders requesting door access.
- User/Cardholder Data Syncing
- Direct link for User Editing
- Inception Web Interface within XProtect Smart Client



INCEPTION

Inception - Milestone XProtect Access Plugin Guide

Setup - Inception

- The Milestone ACM plugin requires at least Inception Firmware version 3.1.0
- To upgrade the firmware, log into the Inception web interface, go to the [System > Firmware Update > Update
 Controller] page and click the "Download Firmware to Controller" button to update the firmware directly from the internet, or the "Update Application Software" button if you have acquired the firmware file already and want to upload it to the device.



Setup - Milestone

This guide assumes you are running Milestone XProtect Server Software 2018 R2 or newer installed.

Download the Inception Milestone ACM plugin installer onto the PC running the Milestone Server software.

Integration_InceptionMilestoneACM_Milestone_Plugin_1.0_(583).exe

• In the notifications tray in the bottom right of the screen, right-click the Milestone XProtect Event Server icon and click the "Stop Event Server service" option.



- Run the Inception Milestone ACM plugin installer and choose the folder that you want to install the plugin to.
- Right-click the Milestone XProtect Event Server icon again and click the "Start Event Server service" option.
- The Inception plugin is now installed on the Milestone server and should show up in the list of available integration plug-ins when you add a new integration.



Configuration - Inception

- 1. Log into the Inception web interface and create a new User from the [Configuration > Users > Manage Users] page.
- 2. Assign the new User a Web Login Username & Password. This User's login credentials will be used by the Milestone integration to authenticate with the Inception REST API.
- 3. Assign a web page profile for the user. By default, the *REST Web API User* should have the correct web permissions assigned.
- 4. Assign the desired item permissions and/or permission groups to the Milestone REST API User. The permissions assigned to the User will determine which areas, doors, and outputs are visible and controllable through the Milestone interface.

lanage Users	Je Back to	Checklist Add	Duplicate Item	Delete	Cross Reference	¥ and All
is page is used to configure the users th	nat interact with the Inception Co	ontroller and the Inceptio	on web interface. This inclu	udes their credentials and user	permissions. Read More	
Search Q Sort	🚔 General					
Linstaller	Name	Milestone Access	User			
A Milestone Access User	Notes					
Laniel Joubert						
Lord		-				
Paul Clayton	🔊 Credentials					>
Jade Binns	🖌 Permissions					~
Alex Willmore	Permissions	Allowed		What		0
		Allow 🔻	Door	Inception - Meeting Room Door	Access	
		Allow 🔻	Door	Inception - Server Room Door	Access	
		Allow 🔻	Area	Meeting Room	Arm, Disarm, Access	
		Allow 🔻	Area	Server Room	Arm, Disarm, Access	
		Allow 🔻	Hardware Output	Level 4 Lights	Control	
		Allow 🔻	Hardware Output	Inception Controller - pump	Control	
		Add Items Re	emove Selected Items			
	Use Extended Unlock Times					0
	Permanently Add to SLAM Cache					0
	🗰 Expiry / Cance	ellation				>

Inception Tech Guide May 2019.

The specifications and descriptions of products and services contained in this tech guide were correct at the time of publishing. Inner Range reserves the right to change specifications or withdraw products without notice.

www.innerrange.com

er range

Intelligent Security Solutions

WEB POWERED SECURITY

Inception - Milestone XProtect Access Plugin Guide

Configuration - Milestone

ncedtior

- 1. Open the XProtect Management Client software and go to the Access Control section in the Site Navigation window.
- 2. Right-click the Access Control option and select Create New



- 3. Name the Access Control System.
- 4. Enter the IP Address or hostname URL of your Inception device into the Address field, and the username and password of the Milestone Access User that you created in the Inception system. Multiple Inception systems can be added to a Milestone system.

Create Access Control Syst	eate Access Control System Integration				
Create access	Create access control system integration				
Name the access con	Name the access control system integration, select the integration plug-in and enter the connection details.				
Name	News				
Name:					
Integration plug-in:	Inception Access Control System				
Address:	127.0.0.1				
Username:	ACMUser				
Password:	••••••				

5. The Inception Milestone plugin will sync the system configuration from your Inception device (NOTE: if you make future changes to the Inception system configuration, e.g. adding/removing doors, you will need to manually refresh the configuration from the Milestone server software in order to pull in the new changes. This can be done from the "General Settings" panel of the Milestone Access Control screen for the plugin).



Configuration - Milestone (cont.)

Connecting to the access control system...

Collecting configuration data...

Configuration successfully received from access control system.

Added:	
Doors (2)	•
Units (8)	•
Servers (1)	•
Events (51)	•
Commands (10)	•
States (23)	•

- 6. At this point, you can choose to associate cameras with Access Points in the system if required. Each door has "Inside" and "Outside" access points, both of which can have cameras assigned to them.
- 7. From the XProtect Management Client, you should now be able to see that state changes, access events, and user updates are coming into the Milestone system from the connected Inception in real-time.
- 8. In the Access Control Events section of the plugin configuration, specific events can be disabled or added to other event categories if required. Events are assigned relevant event categories by default.

Access control events					
Select the events you want to monitor in XProtect Smart Client. Use categories to simplify the use of triggering events.					
Enabled	Access Control Event	Source Type	Event Category		
-	Card Read Failed because Card Parity Check Failed	Access Point	Access denied, Access request		
-	Card Read Failed because Card was Unknown	Access Point	Access denied, Access request		
1	Card Read Failed because Reader is Locked Out	Access Point	Access denied, Access request		

9. (Optional) The Inception web interface does not natively support adding images for users/ cardholders, but the Milestone software supports adding its own image data to users synced from the Inception system. This can be done from the "Cardholders" tab of the Inception plugin configuration in the XProtect Management Client.

Access Control Information		
Cardholders		
Search for cardholders to view, add or delete a	picture of the cardholder. The cardholder picture is use	ed in the XProtect Smart Client, when an access control event has been registered.
ja 🛛 🔊		_
Name	Туре	James Allwood
Jade Binns		
James Allwood		Select picture
		Delete picture
		Manage Cardholder: http://192.168.7.39/EditUser?id=83afd4b7-b97d-4e7f-8f81-3505175f532d
		Cards: 52101

Inception Tech Guide May 2019.

The specifications and descriptions of products and services contained in this tech guide were correct at the time of publishing. Inner Range reserves the right to change specifications or withdraw products without notice.



WEB POWERED SECURITY

Inception - Milestone XProtect Access Plugin Guide

Using the Integration

State Monitoring

 Inception Item states will update automatically in the Milestone client interface as they change in the Inception system. If you can't see a certain door/item's state, make sure the REST API User in Inception has been given permission to control it.

Item Control

- Control doors from the Milestone Client software on the Access Control tab, grant access, unlock, lock, etc.
- Make sure the appropriate item control permissions have been assigned to the Milestone ACM User you created in the Configuration > Inception step of this guide, or item control commands may fail due to permissions.

Access Event Monitoring

• In the Access Control Events section of the Inception plugin instance in the Milestone Management Client, you can choose which events to enable or disable from view on a per-event basis, as well as what event categories the event should be in.

Cardholder/User Management

- Add images for users using the Milestone client software if required (pictures are stored with the Milestone software only; Inception does not currently support User images as of version 3.1.0).
- Within the client, the Manage Cardholder link below a user's details will open the Inception web interface and automatically go to the edit page for that user.

Access Request Notifications

- "User Access Denied" Inception events triggered by card access attempts will automatically trigger an Access Request dialog in Milestone if the event type is enabled in the Access plugin (it is by default). From here, an operator can view the live video from the associated Access Point's camera and compare with the user's image, choosing whether to let the requesting user through the door or not.
- If you plan to use this method of granting access, make sure that the Inception Milestone API User has permission to access the door(s), but not the users/cardholders. To exclude a cardholder from this process (e.g a manager), just give them permission to the door.



Inception Interface within XProtect

The Inception web interface can be displayed directly inside XProtect Smart Client as a HTML page. This provides Milestone Operators full access to view, configure and monitor the Inception System directly from the Inception's Web Interface.

Milestone XProtect Smart Client		-		29/04/2019 4:01:23 PM 🗕 🗗 🗙
Live Playback Seque	ince Explo	erer Alarm Manager LPR	Access Control System Monitor	+01 -
XProtect		New View (1 x 1)	• •	Setup 🔯
III Vees	-	<>0余曲		
Earth wear and mercen.		inception	▲Warnings:7 ■ Messageni 1 🗟 Checklist 3/32	
Illi New View (1 x 1) Illi New View (1 x 1) Illi Campus Map		Deshocard	Dashboard	East to Chedder
I Inception		Commissioning Checklist		
III Integriti Access Control		🐵 State / Control 🤟	Favourite Items (Click/Tap to Control)	
ttri LPR Will test		Configuration (Inception - Locked Locked Locked Locked Locked Locked Locked	•
Cameras	<u>^</u>	O System C	Last Access Event: Denied: User James Allwood attempted to access the Door at 24/04/2019 5:30:41 PM	•
 E DESKTOP-EKBE736 		9 Logout	U Lobby Armed Next Scheduled Arm:	•
+ Event	*		O Server Room Disarmed Next Scheduled Arm:	0
			O Inception Controller - Lights Off	•
			O Inception Controller - pump Off	0
				Back to Top [_+] 2019 © inception by imme Range, Current Time: 2004/2019 401 PM System Name: Inception System
				Firmware Version 3.1.0.4035

Limitations

Up to and including version 19 R1, Milestone uses an embedded Internet Explorer instance for its web browser. While most of the interface features work, there may be rare features that aren't supported. In these instances, open the Inception interface in a normal web browser instead.

Also, the embedded interface can severely limit the number of simultaneous connections to a page. This can cause the Inception interface to run slowly when interacting with the system or navigating to new pages. This can only be resolved with registry key changes on the smart client machine.





Inception Interface within XProtect (cont.)

Limitations (cont.)

Open the registry editor and navigate to:

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Internet Settings

Create a new key with the following details (or if already there, edit the existing one):

Name: MaxConnectionsPerServer

Type: REG DWORD

Data: 10

Once done, close and re-open the XProtect Smart Client and the Inception interface should perform better.

Configuration

- 1. From the XProtect Smart Client toggle setup mode by clicking the setup button.
- Right click on a View Group and select New View>4:3>1x1



Inception Tech Guide May 2019.

The specifications and descriptions of products and services contained in this tech guide were correct at the time of publishing. Inner Range reserves the right to change specifications or withdraw products without notice.

www.innerrange.com

her rande

Intelligent Security Sol



Inception Interface within XProtect (cont.)

Configuration (cont.)

- 3. Name the view.
- 4. Click and drag the HTML Page from the System Overview tab into the newly created view.
- 5. Enter the IP address or SkyTunnel address of the Inception Controller into the Open URL
- Window.

Open URL ×		
Enter the URL computer, or	or path to an HTML page on the Internet, your your network that you want to display.	
Open:	192.168.7.39	
Browse.	OK Cancel	

- 6. Click the **Setup** Button to exit Setup Mode.
- 7. If correctly configured the Login screen for the Inception Web Interface will be displayed.

filestone XProtect Smart Client		29/04/2019 4:00:43 PM 😐 🕫
Playback Sequence Explorer Alarm Manager LPR. Acc	ess Control System Monitor	÷0†
otect < New View (1 x 1) 👻 '	5	Setup
Views A C R de		
rch miner and research. 🔍 😻		
il Private		
· The Inception	incention	
EII New View (1 x 1)	niception	
III Campus Map		
III Inception	Login to Inception	
## Inception Access Control	and a star and a star a st	
RM Integriti Access Control	🚔 Username	
I heat	Law of the second se	
Cameras A	= Powerd	
& DESCTOP-EXTERNA	Switch to PIN entry	
	2012/1	
ivent 🗸		
	IP Address; 192,168,7.39	
	Firthware Version: 3.1,0.4038	
	System Name: Inception System	
	2019@ Inception by Inner Range.	
6 ·		

Inception Tech Guide May 2019.

The specifications and descriptions of products and services contained in this tech guide were correct at the time of publishing. Inner Range reserves the right to change specifications or withdraw products without notice.





Direct User Management Link

The Cardholders tab in the XProtect Smart Client provides a direct user link for cardholder management. The Manage Cardholder link opens the Inception Web Interface to the page of the selected user reducing the time it takes to navigate and find the user.

- From XProtect Smart Client, select the Access Control > Card Holders.
- Select a cardholder to edit.
- Click the Manage Cardholders link to launch the default internet browser.
- Login to the Inception web interface using User Name and Password or Username and PIN.

Milestone XProtect Smart Client		29/04/2019 5:04:30 PM - 0* ×
Live Playback Sequence Explorer Alarm Manager LPR Accels Colifical System Monitor		+01~
		Access control administration
Townsk wantikasteri		
	Daniel Jourhert	
location =-		
	Menage Cerciholder	
Name Tone	Casts.	
	152166	
Milatore	Vew cardholder events	
Daviel Soubert		
liabelie Lord		
Paul Clayton		
Ade Eines An Wilsons		
Area a Human Control of Second S		



Troubleshooting

Inception plugin does not appear in the list when creating a new access control system integration in the Milestone server management software

- Check that the Milestone plugins folder (default location is C:/Program Files/Milestone/ MIPPlugins) contains a folder named "IR.Integration.InceptionMilestoneACMPlugin". If not, the Inception plugin is not installed on the system. Follow the steps in the Installation > Milestone section to install the plugin.
- The Milestone server may not have been restarted since the new plugin was installed. Rightclick the Milestone XProtect Event Server icon in the Windows notification tray and click the "Restart Event Server service" icon to restart the service. The Inception plugin should now show up in the list of available integrations.

Milestone server fails to connect to Inception when retrieving initial configuration

- Make sure that the Inception device is connected to your local network and check that you can access the Inception web interface from the Milestone server PC. Open a web browser and navigate to the IP address of the Inception device or the hostname URL. If the web interface is inaccessible from the browser, there may be network problems or connection issues that need to be resolved.
- The Inception device may be running an older version of the firmware (the plugin requires at least Inception firmware version 3.1 in order to run). Follow the steps in the Installation > Inception section to update the firmware on your Inception device before configuring the plugin.

The Inception web interface is slow or unresponsive within the XProtect HTML Page View Item

 As of Milestone XProtect version 19, the XProtect Smart Client utilizes an instance of Internet Explorer for its HTML Page item. This instance limits the number of simultaneous connections to the page which Inception relies on, which causes the occasional slow usage. This can only be resolved with some registry key changes on the client machine. See the Additional XProtect Functionality section above for more details.



	www.innerrange.com inner range Intelligent Security Solutions	
1 Millenn	Inner Range Pty Ltd nium Court Knoxfield, Victoria, 3180, Australia Tel: +61 3 9780 4300 Fax: +61 3 9753 3499 email: admin@innerrange.com	
	innerrange.com	
The specifications and descriptions of products and services	s contained in this catalogue were correct at the time of publishing. Inner Bange reserves the notit to change specifications	s or withdraw products without notice.