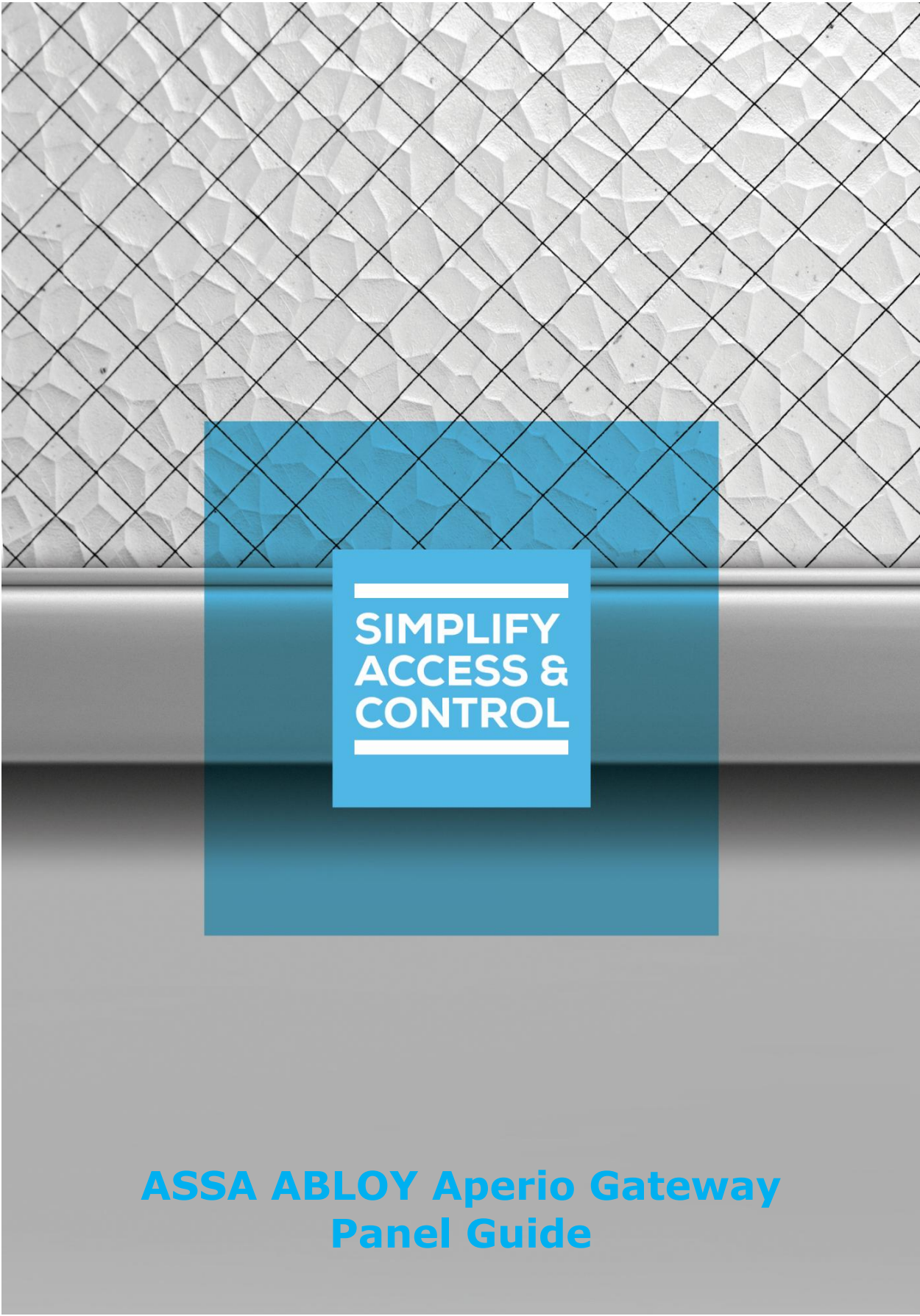




**SIMPLIFY
ACCESS &
CONTROL**

**ASSA ABLOY Aperio Gateway
Panel Guide**

ASSA ABLOY Aperio Gateway Panel Guide

Intelli-Site

Security Management Software

ASSA ABLOY Aperio Gateway Panel Guide

ASSA ABLOY Aperio Gateway Panel Guide

Copyright

Copyright © 2025 OSSI, LLC All rights reserved.

Information in this document is subject to change without notice. The software described in this document is furnished under a license agreement or nondisclosure agreement. The software may be used or copied only in accordance with the terms of those agreements. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or any means electronic or mechanical, including photocopying and recording for any purpose other than the purchaser's use without the written permission of OSSI.

OSSI, LLC
10125 S 52nd St.
Franklin, WI 53132-8677
ossi-usa.com

Telephone: (262) 522-1870
Toll Free: (888) 488-2623
Fax: (262) 522-1872

Trademarks

Intelli-Site® is registered in U.S. Patent & Trademark Office.

All other registered and unregistered trademarks are the sole property of their respective owners.

ASSA ABLOY Aperio Gateway Panel Guide

Technical Support Assistance

OSSI, LLC Headquarters

OSSI, LLC
10125 S 52nd St.
Franklin, WI 53132-8677
(262) 522-1870

(888) 488-2623

Technical Support

Technical support is available via telephone or email. Contact Technical Support 8:00 AM to 5:00 PM Central Standard time. If calling after hours, please leave a detailed voice mail message, and someone will return your call as soon as possible.

Email: support@ossi-usa.com
Phone: (888) 488-2623

When calling, please be at the computer prepared to provide the following information:

- Product version number, found by selecting the  **About** button from the Intelli-Site Application Menu.
- The type of computer being used including, operating system, processor type, speed, amount of memory, type of display, etc.
- Exact wording of any messages that appear on the screen.
- What was occurring when the problem was detected?
- What steps have been taken to reproduce the problem?
- It is highly recommended that the user generate a support package for transmission to Intelli-Site technical support staff. To generate the package, run the Intelli-Site Configuration Utility. *Create Support Package...* is the last option in the **Tools** menu.

ASSA ABLOY Aperio Gateway Panel Guide

Table of Contents

Copyright	3
Trademarks	3
Technical Support Assistance	4
Table of Contents	5
Introduction	8
Installation Guide	9
Aperio Programming Application (PAP)	9
ACU Settings	9
Lock/Sensor Settings	11
Intelli-Site Driver and Panel Installation	12
 Hardware Management View	14
Setup	14
Add an ASSA ABLOY Aperio Driver	14
Add a Communication Method	18
Add an ASSA ABLOY Aperio Gateway Panel	20
Configure the ASSA ABLOY Aperio Gateway Panel	21
Add Lock Panels	21
Panel Control Screen	23
The ASSA ABLOY Aperio Gateway Panel Control Screen	23
The Lock Panel Control Screen	24
 Design View	25

ASSA ABLOY Aperio Gateway Panel Guide

ASSA ABLOY Aperio Driver Node	25
The <i>Properties</i> Tab	26
The <i>Card Config</i> Tab	28
ASSA ABLOY Aperio Gateway Panel Node	30
ASSA ABLOY Aperio Gateway Panel Node Properties Dialog	31
ASSA ABLOY Aperio Gateway Panel Quick Config Dialog	33
Lock Panel Node	34
Lock Panel Node Properties Dialog	35
Lock Panel Node Quick Config	36
Lock Panel Child Nodes.....	38
 Access Management View	42
Holidays & Time Zones Tab	42
Access Sets Tab	45
Personnel & Cards Tab.....	48
Project Programming	49
Evaluation Grids	49
The ASSA ABLOY Aperio Driver Node.....	49
The ASSA ABLOY Aperio Gateway Nodes	49
The Lock Panel Nodes.....	50
The Lock Panel Child Nodes.....	50
Action Grids	51
The ASSA ABLOY Aperio Driver Node.....	51

ASSA ABLOY Aperio Gateway Panel Guide

The ASSA ABLOY Aperio Gateway Nodes 51

The Lock Panel Nodes..... 51

The Lock Panel Child Nodes..... 52

Table of Figures 53

Revision History 57

ASSA ABLOY Aperio Gateway Panel Guide

Introduction

Intelli-Site supports the ASSA ABLOY Aperio Gateway. This integration was written using the ASSA ABLOY Device Protocol - IP Protocol Version 1.4.0.

Intelli-Site communicates with the ASSA ABLOY Aperio Gateway which communicates with the Locks/Sensors. Intelli-Site does not directly interact with the Locks/Sensors. ASSA ABLOY suggests that the Aperio Gateway be treated as a network appliance including the Aperio Gateway and the Locks/Sensors.

Access is managed by Intelli-Site, not the Gateway. When a credential is presented to a reader, the Gateway sends the credential information to Intelli-Site. Intelli-Site then tells the Gateway to unlock the lock if the credentials have the right access rights. In the extremely rare case, the Gateway can't reach Intelli-Site, smart credential caching will allow the Gateway to function until the connection can be re-established. This is called host-controlled access.

This guide explains managing and controlling the ASSA ABLOY Aperio Gateway with Intelli-Site Security Management Software.

ASSA ABLOY Aperio Gateway Panel Guide

Installation Guide

Before adding an ASSA ABLOY Aperio Gateway driver and panel to Intelli-Site, there are a few crucial settings in the Gateway that need to be configured first.

Aperio Programming Application (PAP)

The ASSA ABLOY Aperio Gateway and the Locks/Sensors (Lock) are configured using the Aperio Programming Application (PAP). In this application, we need to set the ACU Settings on the hub and the Smart Credential Cache on each Lock.

ACU Settings

In the PAP, right click on a hub that will be managed by Intelli-Site. Select *Configure*. The **Configure Communication Hub** dialog displays.

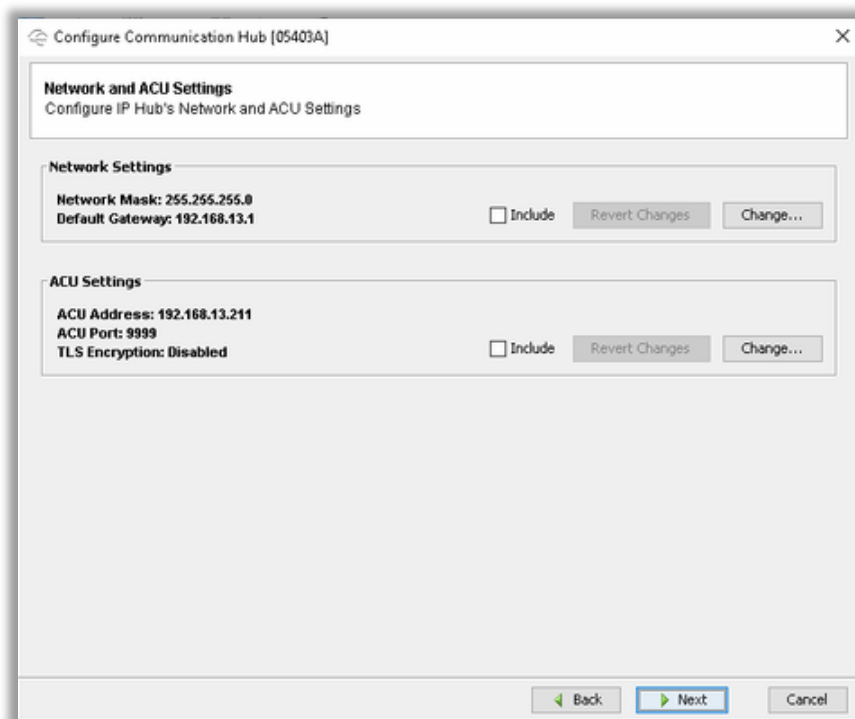


Figure 1 - PAP Configure Communication Hub dialog

ASSA ABLOY Aperio Gateway Panel Guide

The current **ACU Settings** are listed. These settings are used by the Gateway to connect with Intelli-Site. The Gateway initiates all communication. Therefore, it needs to know which computer at which port to connect via TCP/IP. The **ACU Address** must be the IPv4 address of the computer on which the Intelli-Site ASSA ABLOY Aperio driver will run. In most cases, this is the same computer on which the Engine is running. **ACU Port** is the port number on which the Intelli-Site driver is listening for connections. Each gateway must have a unique **ACU Port** for Intelli-Site to be able to uniquely identify the Gateway.

If the values displayed are not correct click the Change button to open the **ACU Settings** dialog.

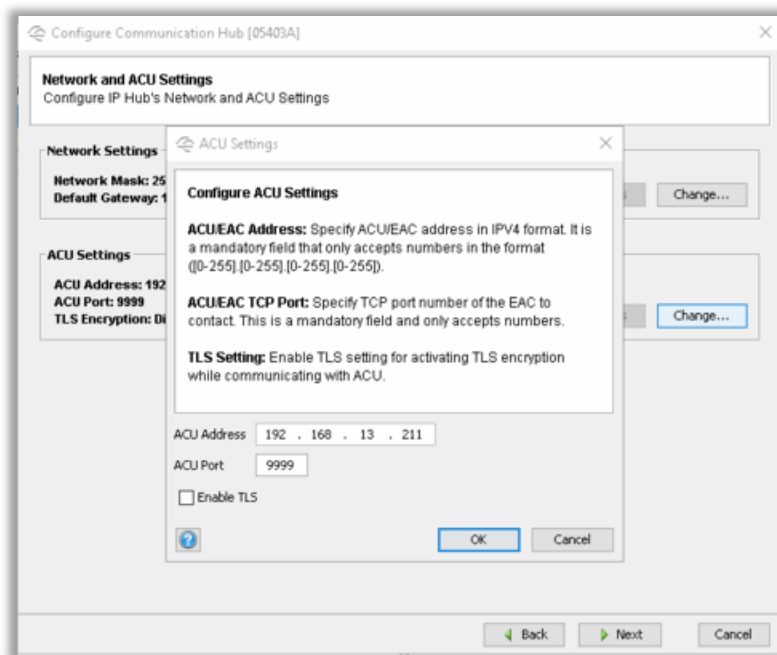


Figure 2 - ACU Settings dialog

Enter the correct ACU Address and ACU Port number. Please make note of them for use when configuring the ASSA ABLOY Aperio driver and panel in Intelli-Site.

Note: TLS is not required by Intelli-Site. If your company policies require it, Intelli-Site supports it.

Repeat this for every Gateway that will communicate with Intelli-Site.

ASSA ABLOY Aperio Gateway Panel Guide

Lock/Sensor Settings

Access is managed by Intelli-Site, not the Gateway. When a credential is presented to a reader, the Gateway sends the credential information to Intelli-Site. Intelli-Site then tells the Gateway to unlock the lock if the credentials have the right access rights. In the extremely rare case, the Gateway can't reach Intelli-Site, smart credential caching will allow the Gateway to function until the connection can be re-established. This is called host-controlled access.

When smart credential caching is enabled, the Gateway remembers the credentials that have been allowed access through the lock up to a specified number of credentials and within a specified number of hours.

The number of credentials to store depends on the use of the lock. If it is a dorm room with four residence, then 5 is a logical number. If it is an office building with 57 employees, then 60 is a logical number of credentials.

We suggest the number of hours should be 24. If the communication is down between the Gateway and Intelli-Site, the lock should continue to function as it had for a full day. Communication shouldn't be down for that long, but better to be safe than sorry. Routers have been known to lose their minds. Or are they Decepticons?

Right click on the lock/sensor and select configure. The **Configure Lock/Sensor** dialog displays. If the **Smart Credential Cache** settings are incorrect, click the Change button. The **Configure Smart Credential Cache** dialog appears. Ensure the **Enable** checkbox is marked. Set the **Number of Credentials** and **Valid for** fields.

ASSA ABLOY Aperio Gateway Panel Guide

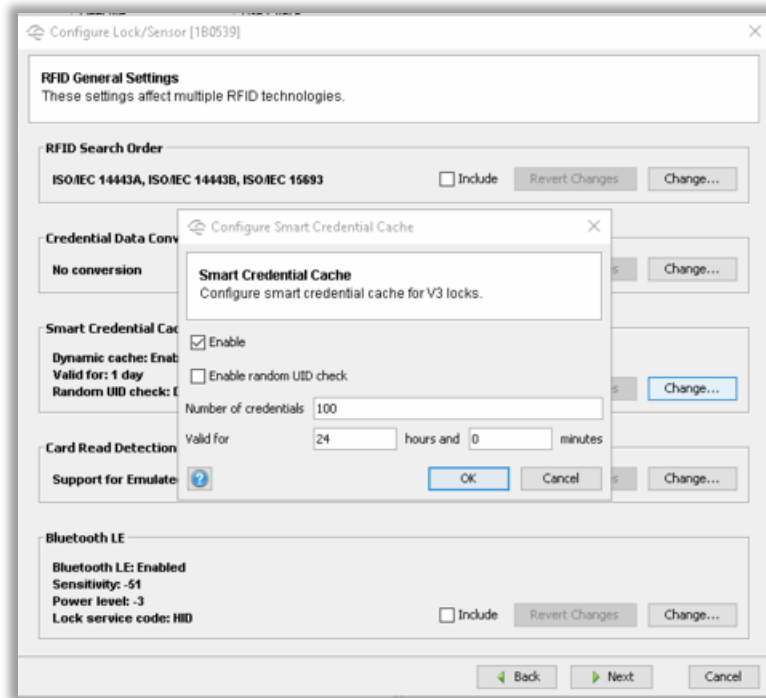


Figure 3 - Configure Smart Credential Cache dialog

Note: Repeat this for every lock/sensor on each Gateway.

Intelli-Site Driver and Panel Installation

The ASSA ABLOY Aperio driver in Intelli-Site must be installed. No external software is needed on the host computer.

If Intelli-Site has been installed without the ASSA ABLOY Aperio driver, run the Intelli-Site installer again and select **Modify**.

During the installation or modify installation process, you are presented with the **Select the drivers you want to install** window.

ASSA ABLOY Aperio Gateway Panel Guide

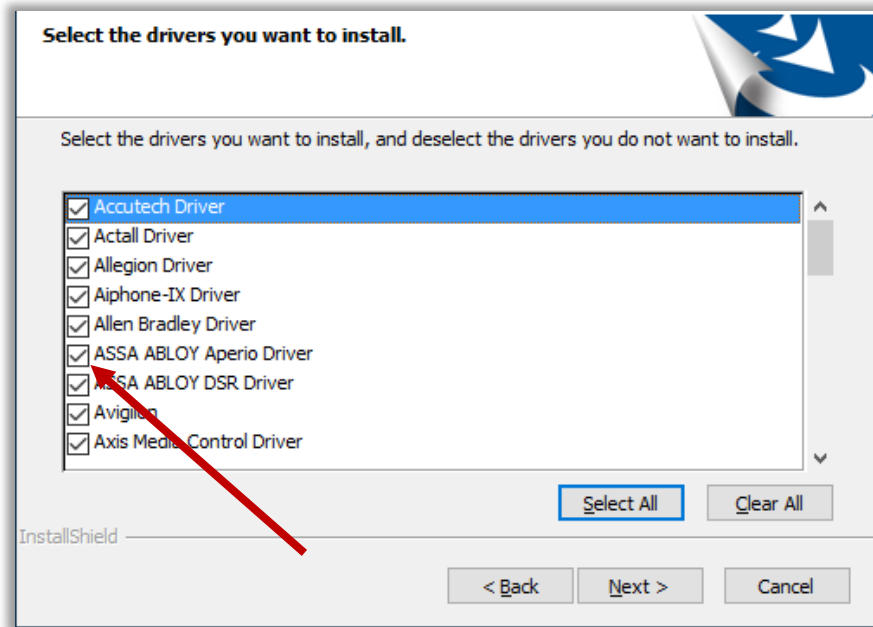


Figure 4 - Select the drivers you want to install

Ensure the **ASSA ABLOY Aperio Driver** option is checked then continue with the installation or modification.

ASSA ABLOY Aperio Gateway Panel Guide

Hardware Management View

The ASSA ABLOY Aperio driver and ASSA ABLOY Aperio Gateway panel are best configured in  **Hardware Management View**.

Setup

Setting up the ASSA ABLOY Aperio Driver and ASSA ABLOY Aperio Gateway panel is straightforward.

The process is:

1. Add an ASSA ABLOY Aperio driver
2. Add a communication method
3. Add an ASSA ABLOY Aperio Gateway panel
4. Configure the ASSA ABLOY Aperio Gateway panel
5. Add Lock panels

Add an ASSA ABLOY Aperio Driver

Adding an ASSA ABLOY Aperio driver is simple, but important. Without it, no communication with the ASSA ABLOY Aperio Gateway panels can occur.

Hardware is managed in the  **Hardware Management View**. If you are not in  **Hardware Management View**, click on  and select .

ASSA ABLOY Aperio Gateway Panel Guide

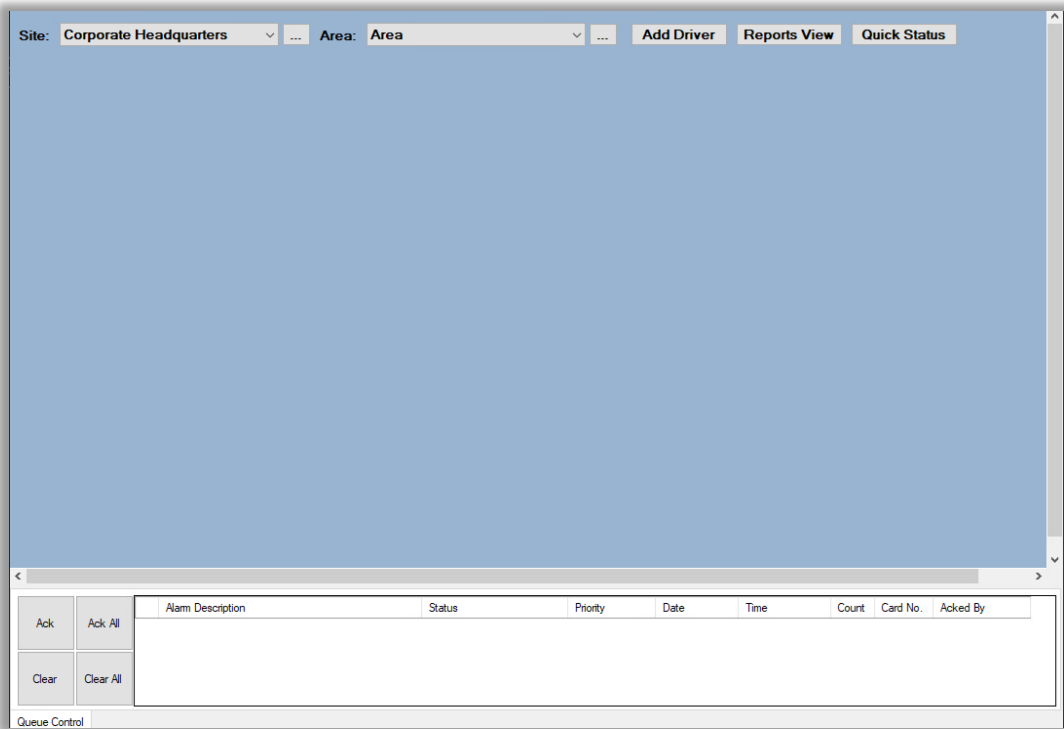


Figure 5 - Hardware Management View

To add the ASSA ABLOY Aperio driver, click the **Add Driver** button. The **Choose Driver Type** dialog displays.

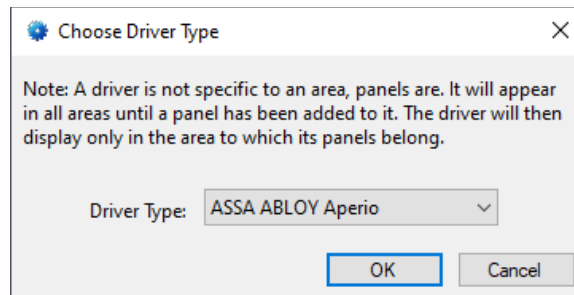


Figure 6 - Choose Driver Type Dialog

Select *ASSA ABLOY Aperio* from the **Driver Type** drop-down list in the **Choose Driver Type** dialog. Click **OK**. A new ASSA ABLOY Aperio driver icon is added to the screen and its properties dialog opens.

ASSA ABLOY Aperio Gateway Panel Guide

The screenshot shows a Windows-style dialog box titled "[1323] New ASSA ABLOY Aperio Driver". It has two tabs: "Properties" (selected) and "Card Config".

Properties Tab Fields:

- Name:** A text box containing "New ASSA ABLOY Aperio Driver".
- ID:** A spinner box set to "1323".
- User Level:** A dropdown menu set to "All Access".
- Notes:** A large empty text area.
- Enabled:** An unchecked checkbox.
- Default Retry Start Delay:** A checked checkbox.
- Retry Start Delay:** A spinner box set to "15".
- Panel List:** An empty list box.
- Computer List:** A list box containing "[4] LATWin10", which is selected.

At the bottom right are "OK" and "Cancel" buttons.

Figure 7 - ASSA ABLOY Aperio Driver Properties Dialog

Note: For an explanation of all of the driver properties, see [ASSA ABLOY Aperio Driver Node](#).

Please change the **Name** of the driver to reflect the use and/or location of the panel that this driver will manage. Switch to the **Card Config** tab.

ASSA ABLOY Aperio Gateway Panel Guide

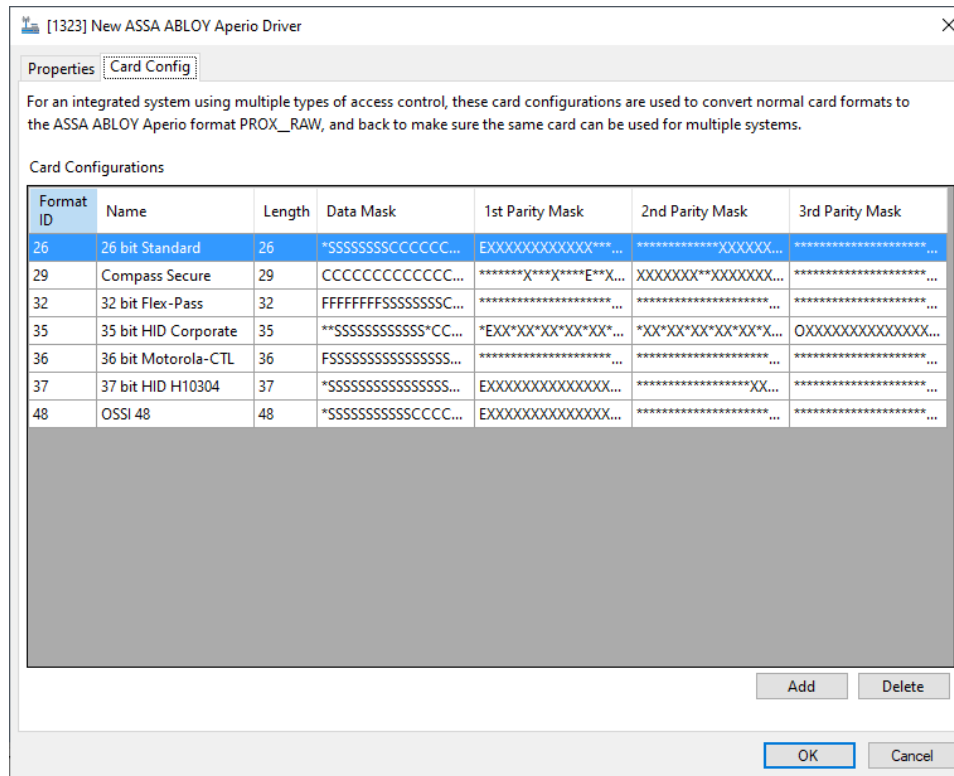
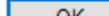


Figure 8 – Driver properties: *Card Config* tab showing Card Configurations

The driver comes pre-loaded with seven (7) card configurations. If there are or ever will be different access control panels at this facility that will be managed by Intelli-Site, the ASSA ABLOY Aperio Gateway card configuration(s) used by this facility must be added here and in in the list of card formats on the **Card Data** screen. This does not have to be done at this moment. See [The Card Config Tab](#) if needed once setup is complete. Click . The dialog closes, saving the changes.

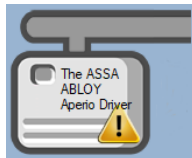


Figure 9 - ASSA ABLOY Aperio Driver icon

Notice the alert icon on the driver icon. That indicates a communication method is needed but not yet added. Let's do that now.

ASSA ABLOY Aperio Gateway Panel Guide

Add a Communication Method

To add a communication method, right click on the driver icon and select *Comm Method -> Add Comm Method*.

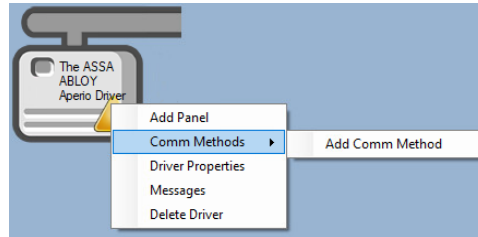


Figure 10 - Driver Context Menu: Comm Methods -> Add Comm Method

A **Choose Communication Method Type** dialog appears.

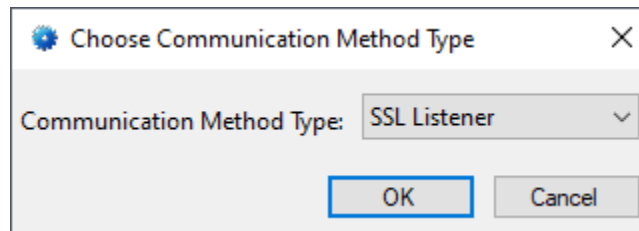


Figure 11 - Choose Communication Method Type dialog

There are two possible communication methods: *SSL Listener* or *TCP/IP Listener*. Select the one that matches the ASSA ABLOY Aperio Gateway that this driver is to listen to. Then click the **OK** button. A **New SSL Listener Comm Method** dialog or a **New TCP/IP Listener Comm Method** dialog displays depending on the type selected. The example chose *TCP/IP Listener*.

ASSA ABLOY Aperio Gateway Panel Guide

The dialog box is titled "[1324] New TCP/IP Listener Comm Method". It has a "Properties" tab. The "Name" field contains "New TCP/IP Listener Comm Method". The "ID" field is a spinner set to "1324". The "User Level" dropdown is set to "All Access". There is a large empty "Notes" text area. The "Listening Port" spinner is set to "9999". The "TCP" checkbox is checked. At the bottom right are "OK" and "Cancel" buttons.

Figure 12 - TCP/IP Listener Comm Method dialog

The dialog box is titled "[1325] New SSL Listener Comm Method". It has a "Properties" tab. The "Name" field contains "New SSL Listener Comm Method". The "ID" field is a spinner set to "1325". The "User Level" dropdown is set to "All Access". There is a large empty "Notes" text area. The "Listening Port" spinner is set to "9999". The "SSL" dropdown is set to "Tls12". There are empty text fields for "Certificate Subject" and "Password". At the bottom right are "OK" and "Cancel" buttons.

Figure 13 - New SSL Listener Comm Method dialog

ASSA ABLOY Aperio Gateway Panel Guide

Please set the **Name** to one that indicates the Gateway it is communicating with.

The **Listening Port** must be the same as the **ACU Port** of the Gateway. See [ACU Settings](#).

If your facility is using TLS, configure the **SSL**, **Certificate Subject**, and **Password** per the Gateway.

Next, add an ASSA ABLOY Aperio Gateway Panel.

Add an ASSA ABLOY Aperio Gateway Panel

Once an ASSA ABLOY Aperio driver is added and its communication method configured, it's time to add an ASSA ABLOY Aperio Gateway panel to it.

Right-click on the ASSA ABLOY Aperio driver icon and select *Add Panel*. The **Add Panel** dialog displays.

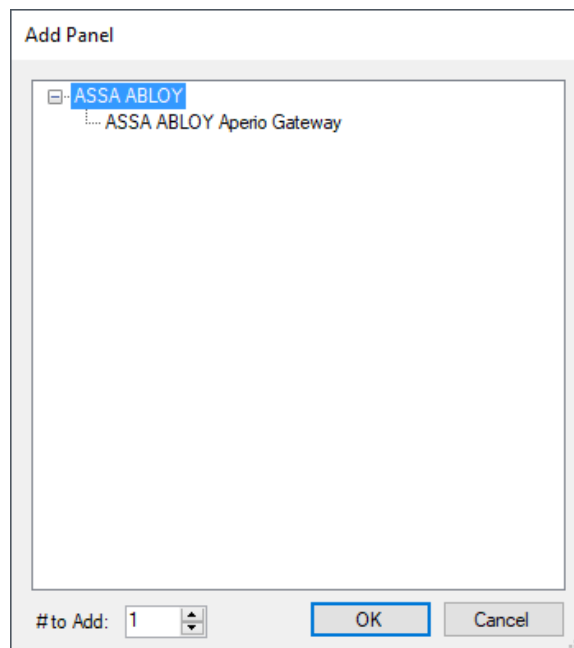


Figure 14 - Add Panel Dialog

Select *ASSA ABLOY Aperio Gateway Panel*. Leave **# to Add** at 1. Click **OK**. A **New ASSA ABLOY Aperio Gateway Panel** icon is added to the target driver.

ASSA ABLOY Aperio Gateway Panel Guide

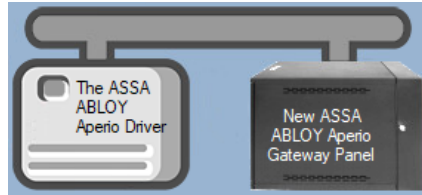


Figure 15 - A new panel

Next comes configuring the panel.

Configure the ASSA ABLOY Aperio Gateway Panel

The ASSA ABLOY Aperio Gateway panel is configured using the **Quick Config** dialog. To open the **Quick Config** dialog, right-click on the ASSA ABLOY Aperio Gateway panel icon and select *Quick Config*.

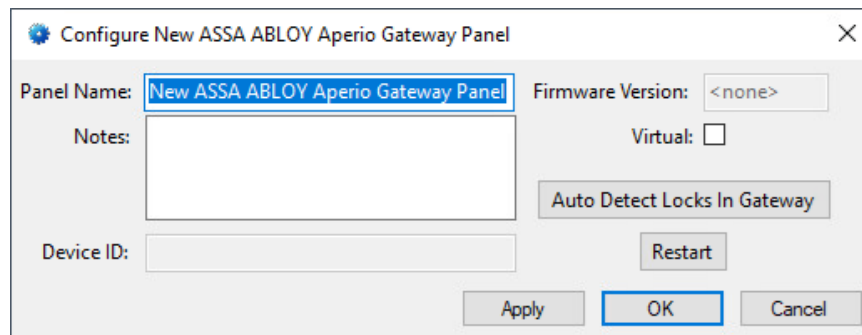


Figure 16 - ASSA ABLOY Aperio Gateway Quick Config dialog

Change the **Name** of the panel to describe its use or location. Then click **OK** to save the changes.

Add Lock Panels

Before the locks can be loaded, the driver must be online, and the Gateway must connect to it. It can take a few minutes for the whole process to complete. Right click on the driver icon and select *Enable Driver*. The driver will turn green quickly. When the Gateway is connected, the panel will turn green. It's now time to load the locks.

ASSA ABLOY Aperio Gateway Panel Guide

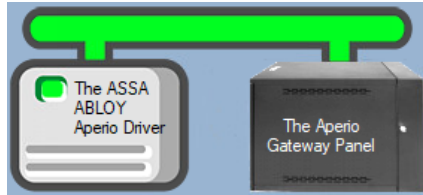


Figure 17 - Communication established with the Gateway

Open the **Quick Config** dialog of the ASSA ABLOY Aperio Gateway panel. Click **Auto Detect Locks In Gateway**. An **Auto-Detect Confirmation** dialog appears. Auto Detect will overwrite any settings and locks that may have previously existed. In the case of our example, nothing has been configured, so click the Yes button.

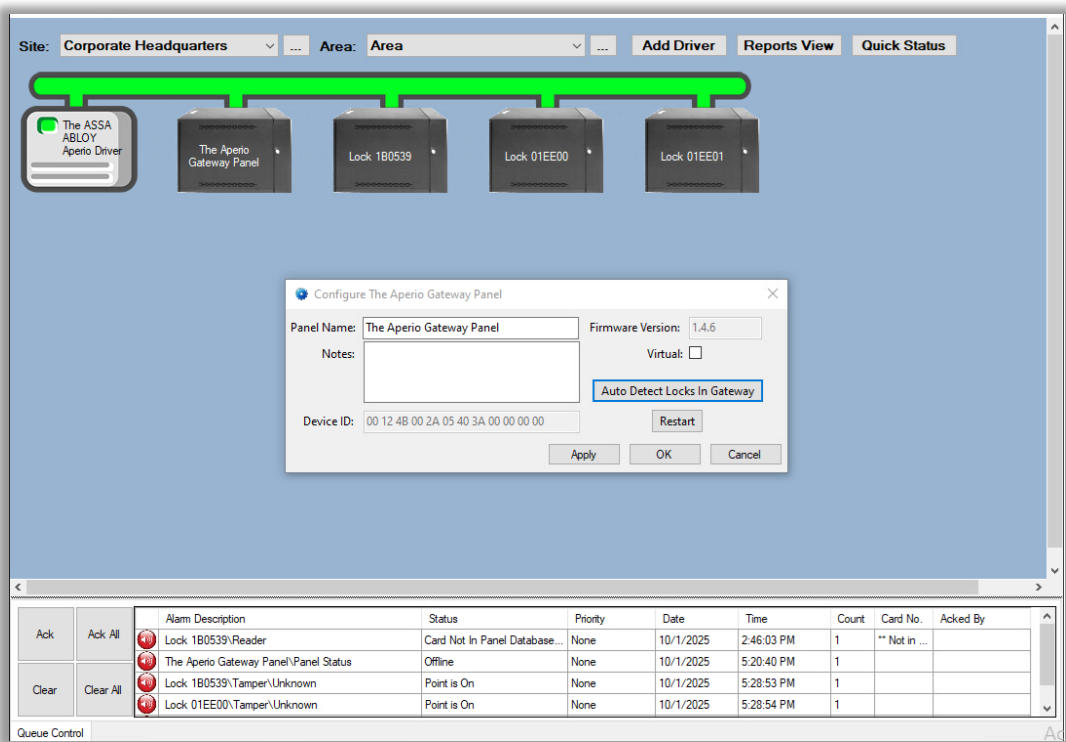
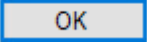


Figure 18 - After **Auto Detect Locks In Gateway**

Notice that panels for each of the locks controlled by the Gateway have been added. The **Device ID** and **Firmware Version** fields are filled in. Also, any events reported by the Gateway have been written to the Alarm Queue.

ASSA ABLOY Aperio Gateway Panel Guide

Click the  button. The ASSA ABLOY Aperio Gateway panel and its lock panels are ready to use.

Panel Control Screen

Every panel has a **Panel Control Screen**. From this screen, the user can monitor the current state of the Locks and their I/O Points.

The ASSA ABLOY Aperio Gateway Panel Control Screen

Clicking on the ASSA ABLOY Aperio Gateway panel icon opens the **Panel Control Screen** of the target panel.

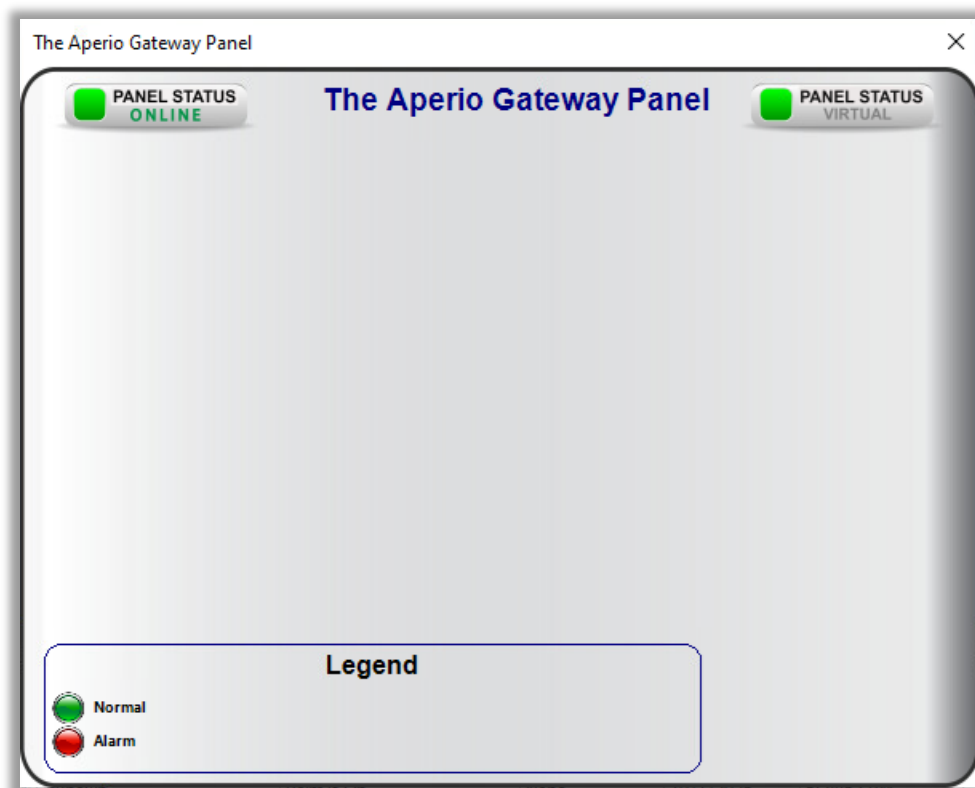


Figure 19 - ASSA ABLOY Aperio Gateway Panel Status

This panel control screen has no real information. It's included for completeness's sake. The color of the light indicates the state of the point. Green is normal, and red is alarm.

ASSA ABLOY Aperio Gateway Panel Guide

The Lock Panel Control Screen

Clicking on a Lock panel icon opens the panel's **Panel Control Screen**.

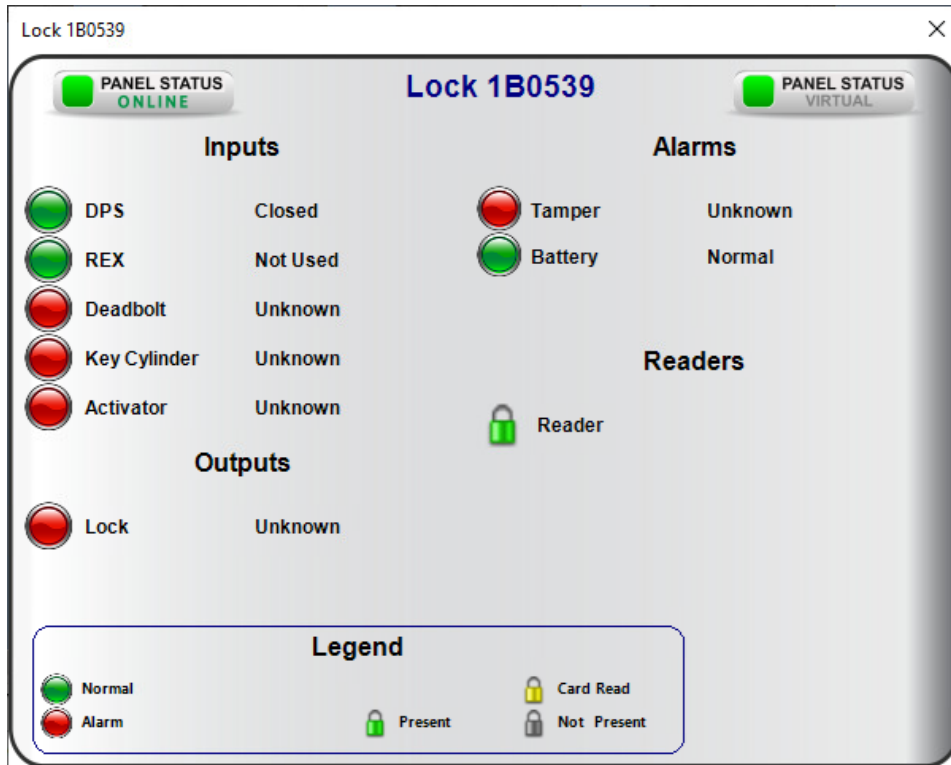


Figure 20 – The Lock Panel Control Screen

The panel control screen shows the current state of the various points if the panel is online. The color of the light indicates the state of the point. Green is normal, and red is alarm.

ASSA ABLOY Aperio Gateway Panel Guide

Design View

 **Design View** is the home of the Project Node Tree and the place where screens and screen objects are programmed. The following sections explain the ASSA ABLOY Aperio driver node properties, the ASSA ABLOY Aperio Gateway node properties, the Lock node properties, and screen object programming especially the automatically created screen objects.

ASSA ABLOY Aperio Driver Node

The ASSA ABLOY Aperio driver node is found by expanding **Setup->Computer Setup->Drivers**.

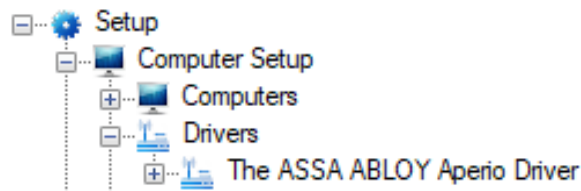


Figure 21 - ASSA ABLOY Aperio Driver node in the Project Node Tree

Right-click on the driver node and select *Properties* to open the properties dialog.

There are two (2) tabs on the ASSA ABLOY Aperio Driver properties dialog.

- The **Properties** tab
- The **Card Config** tab

ASSA ABLOY Aperio Gateway Panel Guide

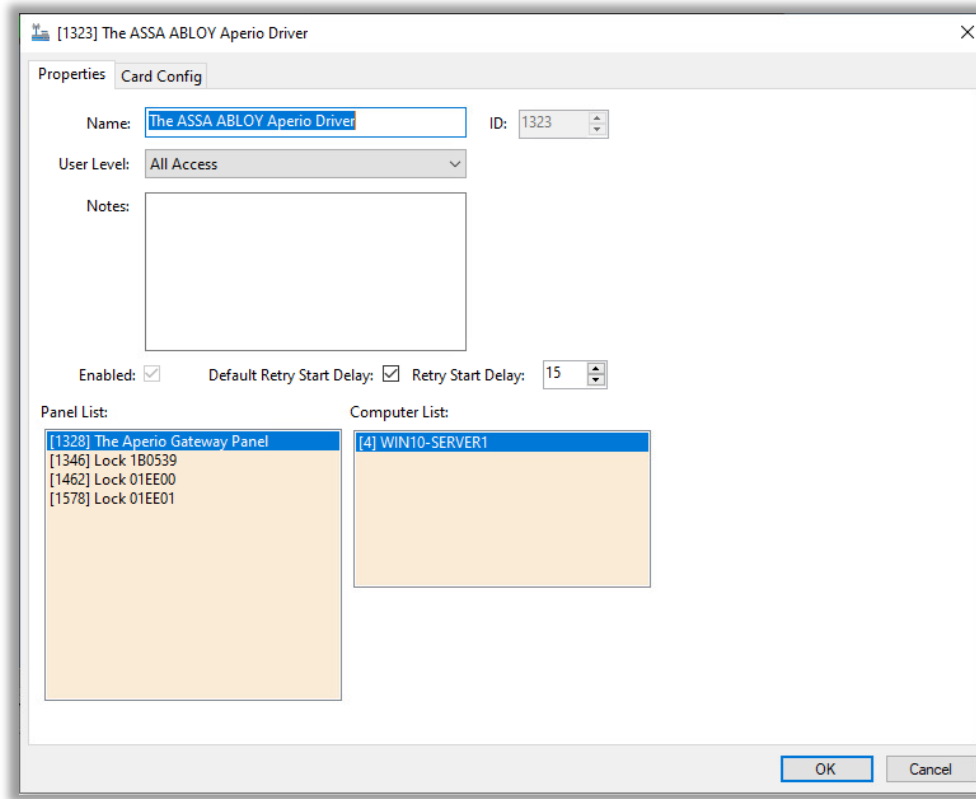


Figure 22 - ASSA ABLOY Aperio Driver properties dialog

The *Properties* Tab

The *Properties* tab of the driver properties dialog contains the standard driver properties that govern the basic operation of the driver.

ASSA ABLOY Aperio Gateway Panel Guide

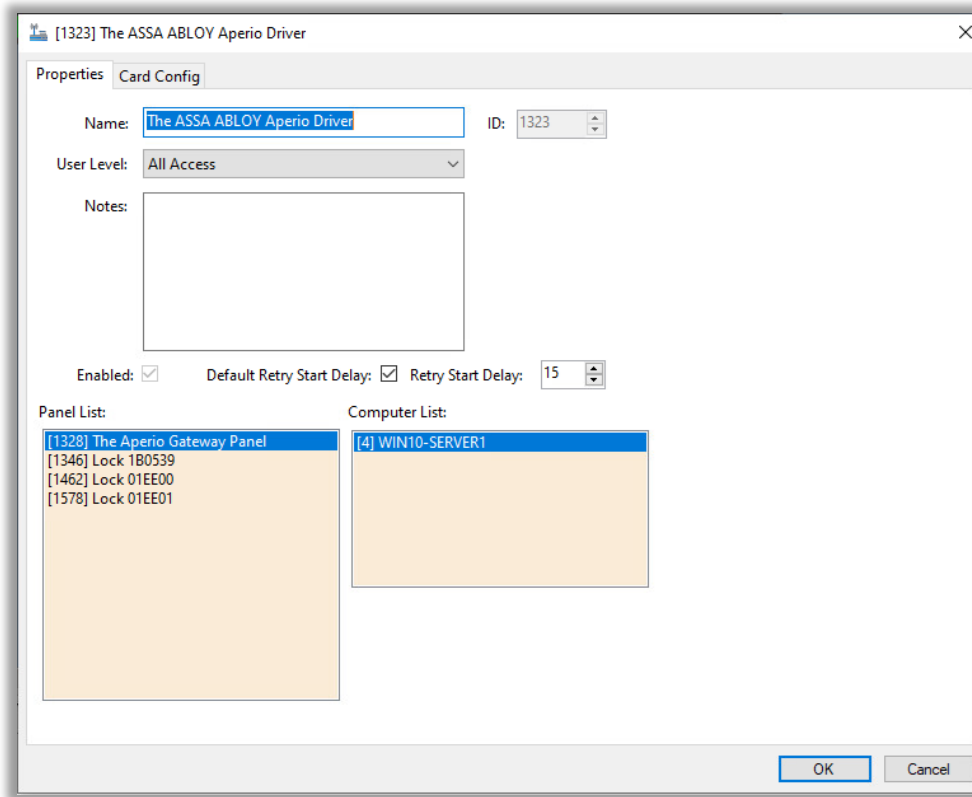


Figure 23 - The driver *Properties* tab

The fields **Name**, **ID**, **User Level**, and **Notes** are standard on all I/O Point nodes. The fields specific to this node are defined as follows.

Enabled – checkbox; when checked the driver is enabled

Default Retry Start Delay – checkbox (default: checked); if the driver did not connect, pause before attempting to connect again

Retry Start Delay – numeric (default: 15); number of seconds to wait between retries on connection attempts

Panel List – drop box; the ASSA ABLOY Aperio Gateway nodes and Lock panels attached to this driver

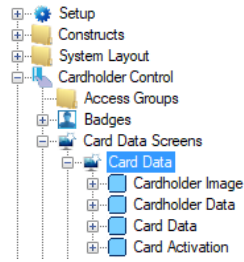
Computer List – drop box (default: the computer on which the Engine is running); the computer node on which this driver is running; in a redundant system, there may be multiple computers

ASSA ABLOY Aperio Gateway Panel Guide

Note: *The Format ID must be unique for the whole Intelli-Site project. No other card configuration may have the same ID regardless of the driver or the driver type.*

Add the New Card Configuration to the Card Data Screen

The **Card Data** screen is found by expanding **Cardholder Control** then **Card Data Screens**.



Double-clicking on **Card Data** opens the screen in the editor. Right-click on the drop-down box next to the label "Card Format". The properties dialog for the **Control – Card Format** screen object opens.

ASSA ABLOY Aperio Gateway Panel Guide

The screenshot shows the 'Control - Card Format' properties dialog box. The 'Properties' tab is selected, displaying the following fields:

- Name: Control - Card Format
- ID: 272
- User Level: All Access
- Notes: (empty text area)
- Source Field: [18] Card Format
- Database Grid: (empty text area)
- Control Type: Combo Box
- Values: 26 bit Standard;;26; Compass Secure;;29; 32 bit Flex-Pass;;32; 35 bit HID Corporate;;35; 36 bit Motorola-CTL;;36; 37 bit HID H10304;;37; OSSI 48;;48

The 'Display' tab is also visible, showing a 'Font' button and checkboxes for 'Use default value' and 'Default Value'.

Figure 25 - Control - Card Format properties dialog

In the **Values** list box, add the new card configuration using the format `<Name>;;<Format ID>`. The **Format ID** must match the **Format ID** of the new card configuration. Click **OK** to save the changes.

ASSA ABLOY Aperio Gateway Panel Node

The ASSA ABLOY Aperio Gateway panel node is found by expanding **System Layout** then the Site and Area to which the ASSA ABLOY Aperio Gateway panel was added in **Hardware Management View**. In the example below, the panel was added to the site named **Corporate Headquarters** and the area named **Area**.

ASSA ABLOY Aperio Gateway Panel Guide



Figure 26 - The ASSA ABLOY Aperio Gateway panel node in the Project Node Tree

The ASSA ABLOY Aperio Gateway panel node is the root node for the panel. The following sections will explain:

- The properties of the ASSA ABLOY Aperio Gateway panel node
- The configuration of the ASSA ABLOY Aperio Gateway panel (a.k.a. **Quick Config**)
- The child nodes of the ASSA ABLOY Aperio Gateway panel

ASSA ABLOY Aperio Gateway Panel Node Properties Dialog

Right-click on the ASSA ABLOY Aperio Gateway panel node and select *Properties* to open the properties dialog. There are very few fields. These fields are not used in the regular configuration of the panel. One usually only opens the properties dialog at the request of tech support.

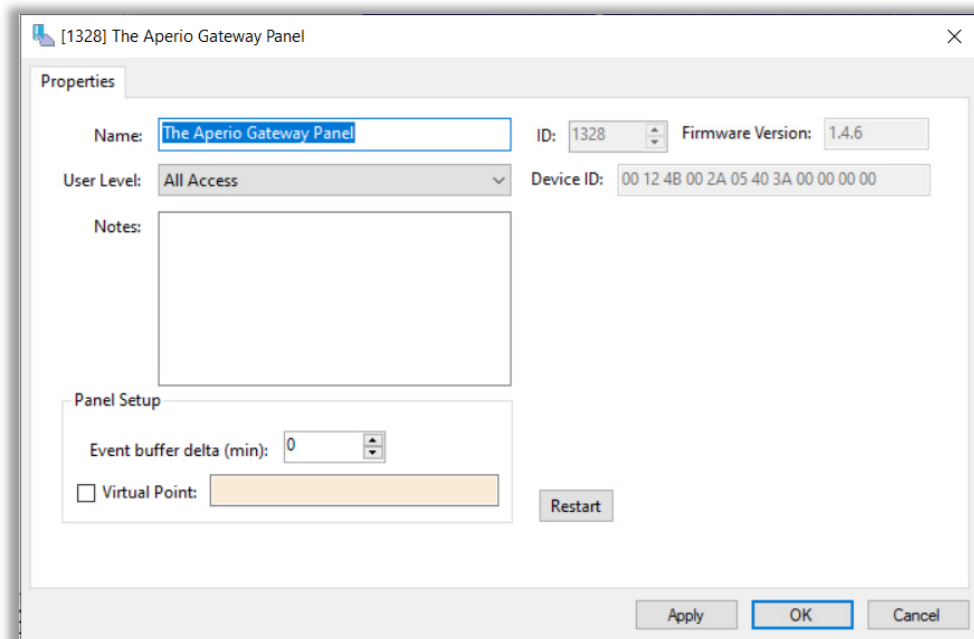


Figure 27 - ASSA ABLOY Aperio Gateway panel Properties dialog

ASSA ABLOY Aperio Gateway Panel Guide

The fields **Name**, **ID**, **User Level**, and **Notes** are standard on all I/O Point nodes. The fields specific to this node are defined as follows.

Firmware Version – text box(disabled); the version of the firmware installed on the ASSA ABLOY Aperio Gateway

Device ID – text box (disabled); the identification number of this ASSA ABLOY Aperio Gateway; it is unique to each ASSA ABLOY Aperio Gateway

Panel Setup – group box; those fields associated with how the software handles the panel

Event buffer delta (min) – numeric (default: 0); only applies to panels that buffer data; the Engine compares the time an event occurs versus the current time, if the difference is greater than the **Event buffer delta**, the event is logged but not acted upon

Virtual – check box; when checked the panel is virtualized, allowing the driver to be brought online without having the physical panel available

Virtual Point – drop box; this I/O Point will be set when the panel is virtualized, clear when it is not

 – button; request the ASSA ABLOY Aperio Gateway restart; a **panel Restart Confirmation** dialog displays when this button is clicked.

ASSA ABLOY Aperio Gateway Panel Guide

ASSA ABLOY Aperio Gateway Panel Quick Config Dialog

The **Quick Config** dialog is accessible either in  **Hardware Management View** or in  **Design View**. To open the **Quick Config** dialog, right-click on the ASSA ABLOY Aperio Gateway panel node and select *Quick Config*.

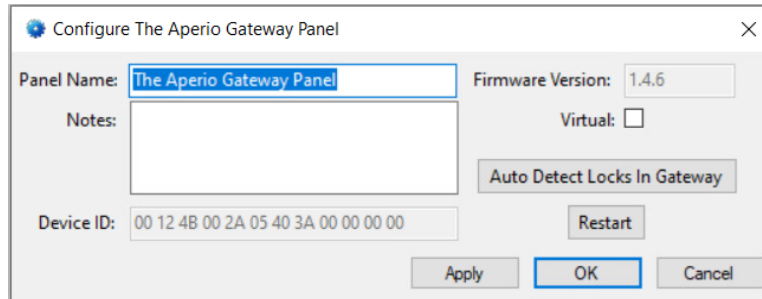


Figure 28 - ASSA ABLOY Aperio Gateway Quick Config dialog

Panel Name – text box; the name of the panel

Firmware Version – text box(disabled); the version of the firmware installed on the ASSA ABLOY Aperio Gateway

Notes – text box; any notes or reminders about this panel

Virtual – check box; when checked the panel is virtualized, allowing the driver to be brought online without having the physical panel available

Device ID – text box (disabled); the identification number of this ASSA ABLOY Aperio Gateway; it is unique to each ASSA ABLOY Aperio Gateway

 – button; request the ASSA ABLOY Aperio Gateway restart; a **panel Restart Confirmation** dialog displays when this button is clicked.

 - button; load the lock panels that are managed by this ASSA ABLOY Aperio Gateway; when clicked, an **Auto-Detect Confirmation** dialog appears. Auto Detect will overwrite any settings and locks that may have previously existed.

ASSA ABLOY Aperio Gateway Panel Guide

Lock Panel Node

The Lock panel nodes are found by expanding **System Layout** then the Site and Area to which the ASSA ABLOY Aperio Gateway panel was added in  **Hardware Management View**. In the example below, the panel was added to the site named **Corporate Headquarters** and the area named **Area**.

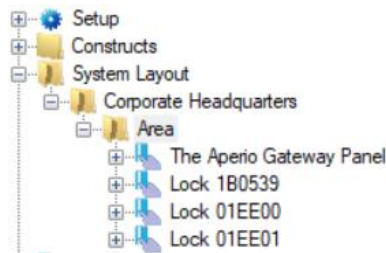


Figure 29 – The Lock panel nodes in the Project Node Tree

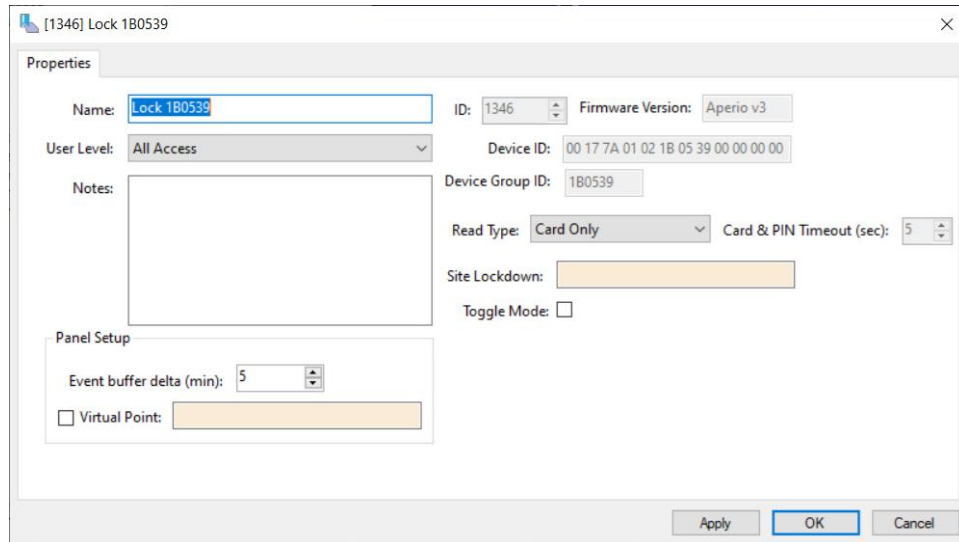
The Lock panel nodes are located at the same level in the Tree as the ASSA ABLOY Aperio Gateway node. The following sections will explain:

- The properties of the Lock panel node
- The configuration of the Lock panel (a.k.a. **Quick Config**)
- The child nodes of the Lock panel

ASSA ABLOY Aperio Gateway Panel Guide

Lock Panel Node Properties Dialog

Right-click on the Lock panel node and select *Properties* to open the properties dialog.



The screenshot shows a window titled "[1346] Lock 180539" with a close button (X) in the top right corner. The window contains a "Properties" tab with the following fields and controls:

- Name:** A text box containing "Lock 180539".
- ID:** A numeric spinner box set to "1346".
- Firmware Version:** A text box containing "Aperio v3".
- User Level:** A dropdown menu set to "All Access".
- Device ID:** A text box containing the hexadecimal string "00 17 7A 01 02 18 05 39 00 00 00 00".
- Device Group ID:** A text box containing "180539".
- Read Type:** A dropdown menu set to "Card Only".
- Card & PIN Timeout (sec):** A numeric spinner box set to "5".
- Notes:** A large empty text area.
- Site Lockdown:** A text box with an orange background.
- Toggle Mode:** An unchecked checkbox.
- Panel Setup:** A section containing:
 - Event buffer delta (min):** A numeric spinner box set to "5".
 - Virtual Point:** An unchecked checkbox next to a text box with an orange background.

At the bottom right of the dialog are three buttons: "Apply", "OK" (highlighted with a blue border), and "Cancel".

Figure 30 – Lock properties dialog

The fields **Name**, **ID**, **User Level**, and **Notes** are standard on all I/O Point nodes. The fields specific to this node are defined as follows.

Firmware Version – informational; the version of the firmware installed on the Lock

Device ID – informational; the unique identifier of the lock used by the Gateway

Device Group ID – informational; the group identifier of which the lock belongs in the Gateway

Read Type – drop-down list (values: *Card Only* (default), *PIN Only*, and *Card & PIN*); the method used to authenticate access to the lock

Card & PIN Timeout (sec) – numeric; disabled unless the **Read Type** is set to *Card & PIN*; the maximum time in seconds allowed between the card swipe and the PIN entry

ASSA ABLOY Aperio Gateway Panel Guide

Site Lockdown – drop box; used to set the site in lockdown; when the supplied I/O Point is set, the lock will remain in the lock state no matter the credentials presented until the I/O Point is cleared

Toggle Mode – checkbox; when checked, the lock state will toggle when presented with a valid credential. If the lock was in the lock state when the valid credential is accepted, the lock will be unlocked until a valid credential is read again. When not checked, the lock will unlock and re-lock when presented with a valid credential.

Panel Setup – group box; those properties related to panel setup

Event buffer delta (min) – numeric (default: 0); only applies to panels that buffer data; the Engine compares the time an event occurs versus the current time, if the difference is greater than the **Event buffer delta**, the event is logged but not acted upon

Virtual – check box; when checked the panel is virtualized, allowing the driver to be brought online without having the physical panel available

Virtual Point – drop box; this I/O Point will be set when the panel is virtualized, clear when it is not

Lock Panel Node Quick Config

The **Quick Config** dialog is accessible either in  **Hardware Management View** or in  **Design View**. To open the **Quick Config** dialog, right-click on the Lock panel node and select *Quick Config*.

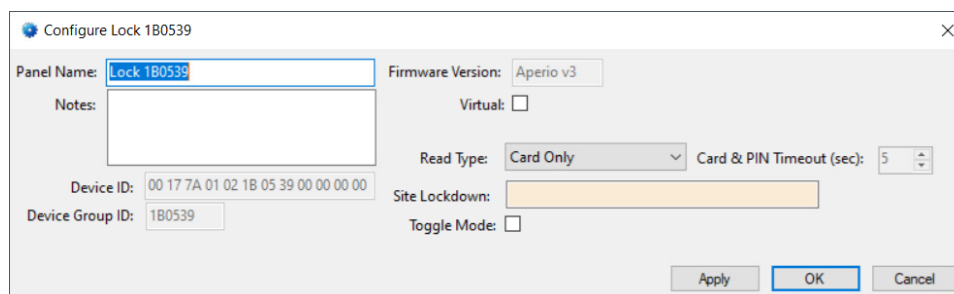


Figure 31 – Lock Quick Config dialog

ASSA ABLOY Aperio Gateway Panel Guide

Panel Name – text box; the name of the panel in Intelli-Site

Notes – multiline text box; any notes about the panel

Device ID – informational; the unique identifier of this Lock

Device Group ID – informational; the group identifier of which the lock belongs in the Gateway

Firmware Version – informational; the version of the firmware installed on the Lock

Virtual – checkbox; when checked the panel is virtualized, allowing the driver to be brought online without having the physical panel available

Read Type – drop-down list (values: *Card Only* (default), *PIN Only*, and *Card & PIN*); the method used to authenticate access to the lock

Card & PIN Timeout (sec) – numeric; disabled unless the **Read Type** is set to *Card & PIN*; the maximum time in seconds allowed between the card swipe and the PIN entry

Site Lockdown – drop box; used to set the site in lockdown; when the supplied I/O Point is set, the lock will remain in the lock state no matter the credentials presented until the I/O Point is cleared

Toggle Mode – checkbox; when checked, the lock state will toggle when presented with a valid credential. If the lock was in the lock state when the valid credential is accepted, the lock will be unlocked until a valid credential is read again. When not checked, the lock will unlock and re-lock when presented with a valid credential.

ASSA ABLOY Aperio Gateway Panel Guide

Lock Panel Child Nodes

Every Lock has four (4) child nodes.

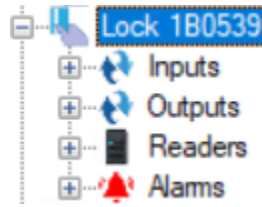


Figure 32 - Lock child nodes

Inputs

Expanding the **Inputs** node reveals the inputs from the Lock.

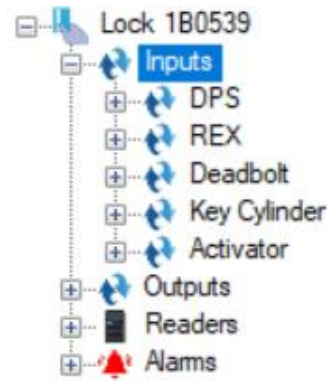


Figure 33 - Inputs child nodes

Each of these nodes are I/O Points. Each node has its own substates. For information on each of these points and their substates, see the Aperio documentation.

ASSA ABLOY Aperio Gateway Panel Guide

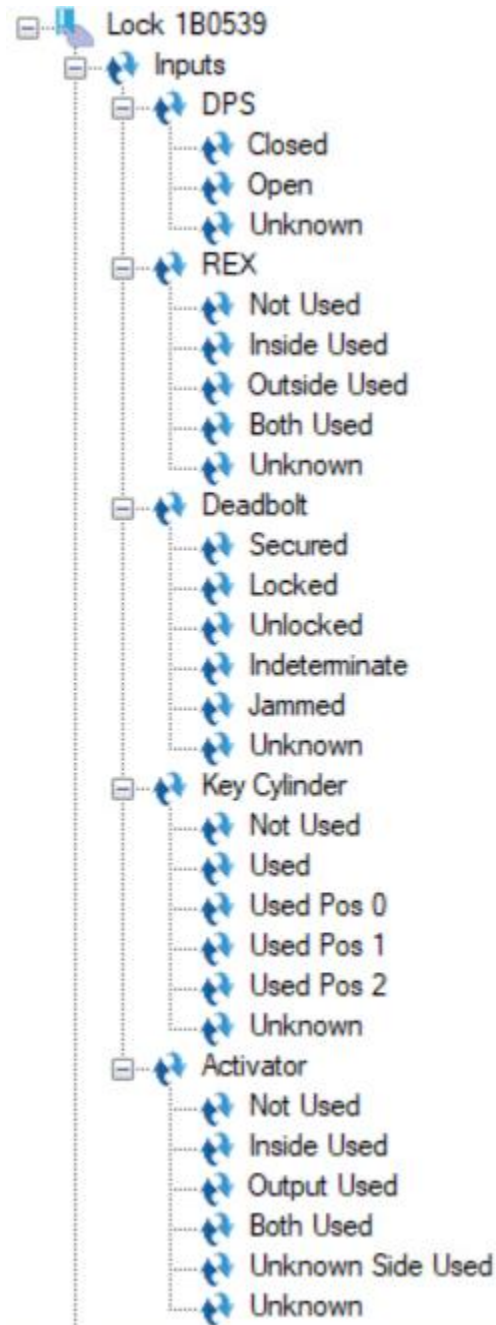


Figure 34 - The lock's Inputs and their substates

Note: The substate *Unknown* is set when the device is missing, or the Gateway has not reported the state of the device, or the software has not connected to the Gateway.

ASSA ABLOY Aperio Gateway Panel Guide

Outputs

Expanding the **Outputs** node reveals the only output from the Lock.

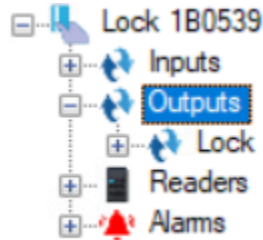


Figure 35 – Outputs child node

This node is a standard I/O Point. It has four (4) substates. Please see the Aperio documentation for a full explanation of each state.

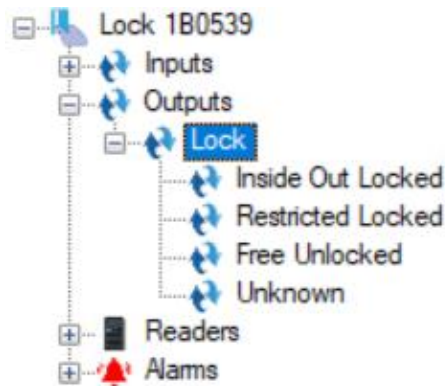


Figure 36 - The Outputs Lock node's substates

Note: The substate *Unknown* is set when the device is missing, or the Gateway has not reported the state of the device, or the software has not connected to the Gateway.

ASSA ABLOY Aperio Gateway Panel Guide

Readers

Expanding the **Readers** node reveals the reader node of the Lock.

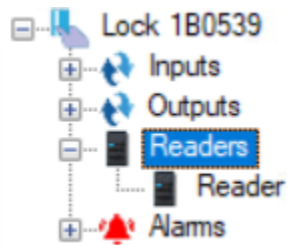


Figure 37 – Readers child node

This node is a standard I/O Point. There are no unique properties.

Alarms

Expanding the **Alarms** node reveals the various alarms for the Lock. Several of the alarms have substates. The first substate is the “normal” state, the state the point is in when it is off. The substates give more information about the alarm in question.

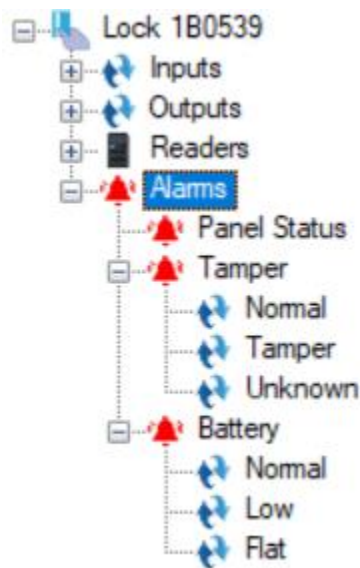


Figure 38 - The Alarms child nodes

Each alarm and each substate are simple I/O Points.

ASSA ABLOY Aperio Gateway Panel Guide

Access Management View

ASSA ABLOY Aperio Gateway can be configured to allow or deny access to Locks for an individual cardholder. Intelli-Site treats the ASSA ABLOY Aperio Gateway much the same way as any other access control panel.

Access Management is handled in  **Access Management View**. To switch to  **Access Management View**, click on **Menu** ▾ and select .

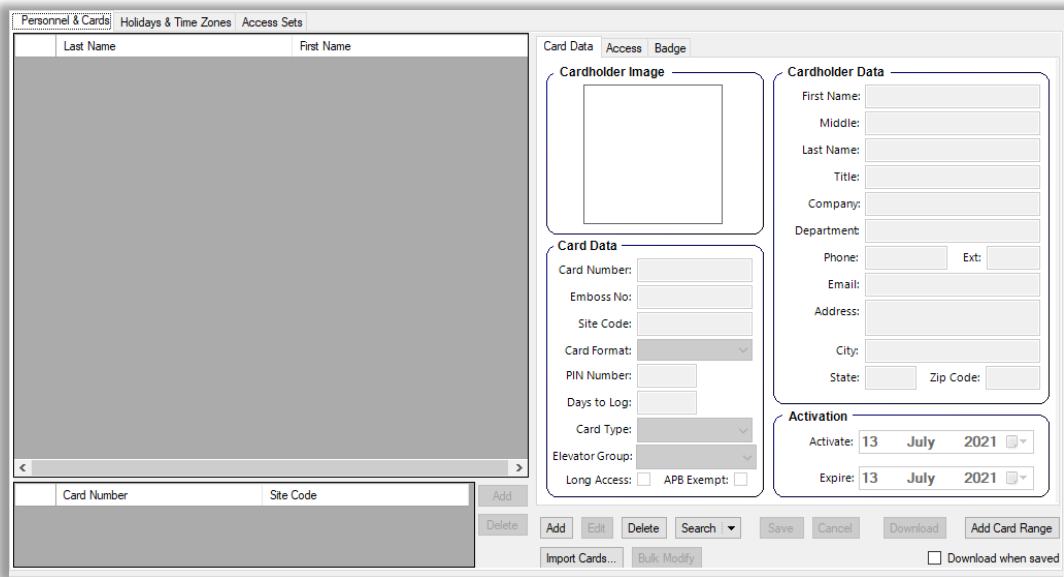


Figure 39 - Access Management View

Normal day-to-day activity for this View is card and cardholder management. That is why the **Personnel & Cards** tab is the default tab. But before a card can be added and assigned access, time zones, authorizations, and access sets must be defined.

Note: *This guide will only present information specific to the ASSA ABLOY Aperio Gateway panel. To understand Access Management View as a whole, see the User's Guide section entitled Access Management View.*

Holidays & Time Zones Tab

The ASSA ABLOY Aperio Gateway time zones are defined on the **Holidays & Time Zones** tab.

ASSA ABLOY Aperio Gateway Panel Guide

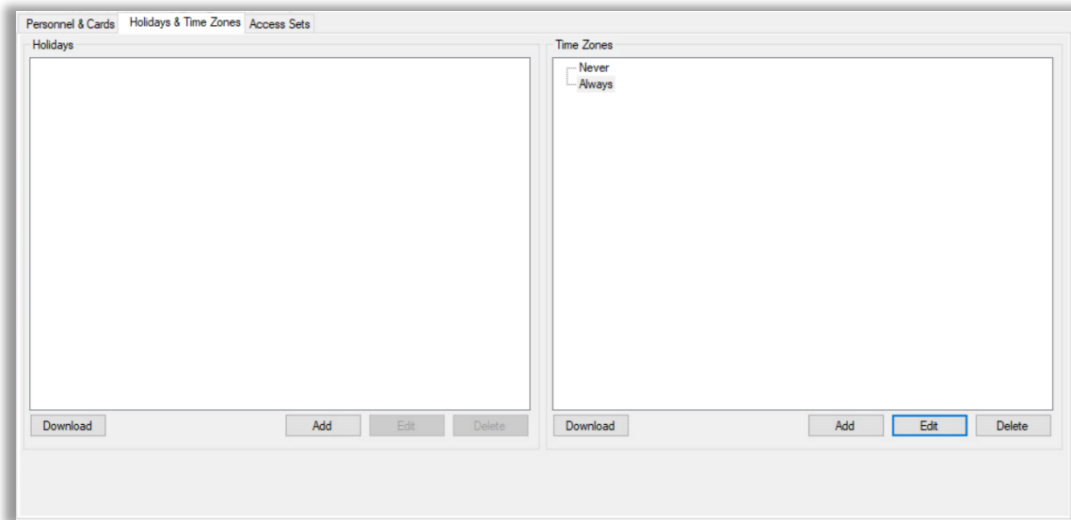


Figure 40 – Access Management View: Holidays & Time Zones tab

Notice there are two (2) time zones that are added when the first ASSA ABLOY Aperio Gateway panel is added. They are **Never** and **Always**. Editing **Always** reveals that the time zone applies to all days and all times.

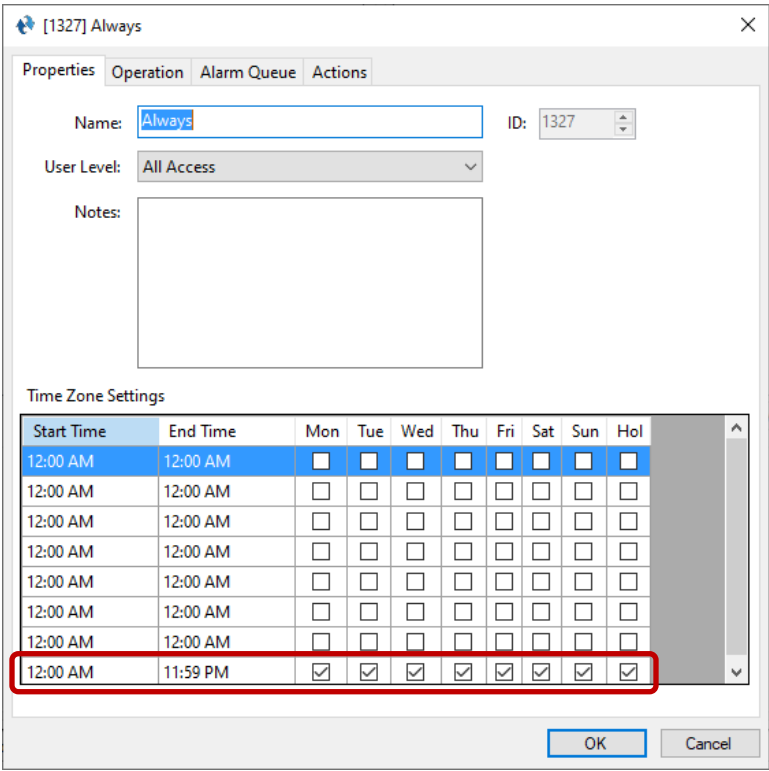
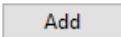
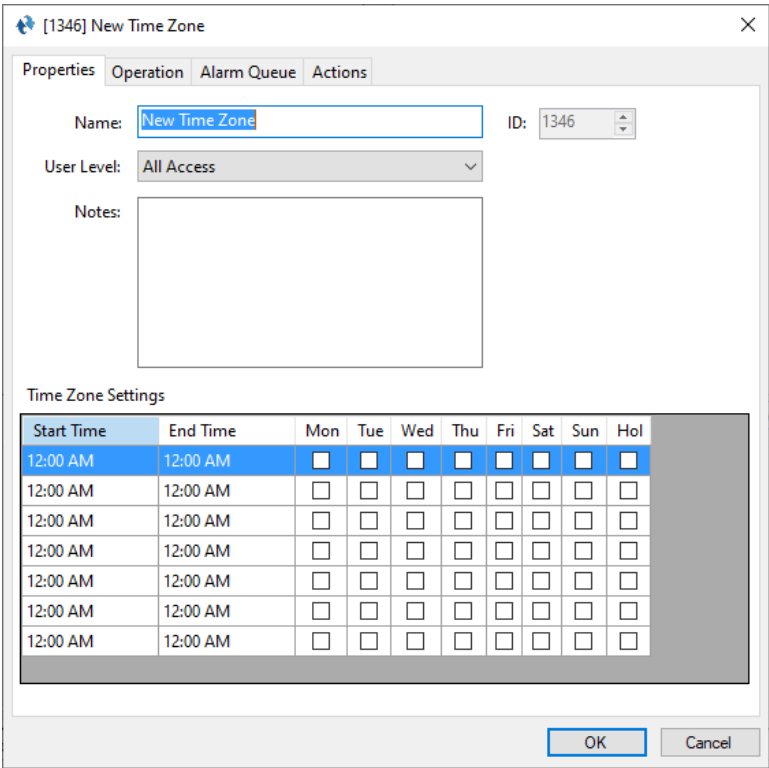


Figure 41 - Always Time Zone

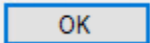
ASSA ABLOY Aperio Gateway Panel Guide

Add additional time zones by clicking the  button. A new time zone is added to the Tree and the properties dialog for the time zone displays.



Start Time	End Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Hol
12:00 AM	12:00 AM	☒	☒	☒	☒	☒	☒	☒	☒
12:00 AM	12:00 AM	☐	☐	☐	☐	☐	☐	☐	☐
12:00 AM	12:00 AM	☐	☐	☐	☐	☐	☐	☐	☐
12:00 AM	12:00 AM	☐	☐	☐	☐	☐	☐	☐	☐
12:00 AM	12:00 AM	☐	☐	☐	☐	☐	☐	☐	☐
12:00 AM	12:00 AM	☐	☐	☐	☐	☐	☐	☐	☐
12:00 AM	12:00 AM	☐	☐	☐	☐	☐	☐	☐	☐

Figure 42 - The properties dialog of a new Time Zone

Give the time zone a name that describes what it is. Set the **Time Zone Settings** for this time zone. Each line in the **Time Zone Settings** is a different application of this time zone. Set the **Start Time** and **End Time** of the line then select the days of the week it applies. Check **Hol** if this time line includes holidays. Click  when the time zone is defined.

ASSA ABLOY Aperio Gateway Panel Guide

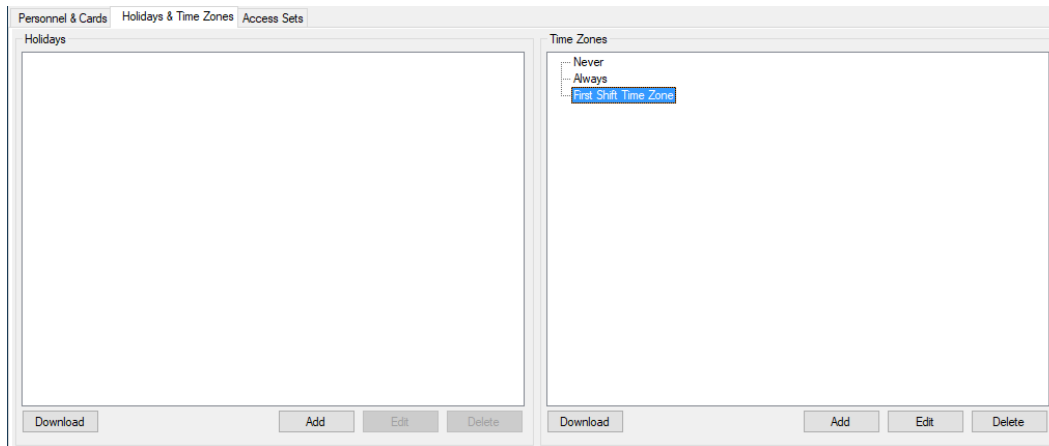


Figure 43 - New Time Zone

Access Sets Tab

All Access Group nodes are defined on the **Access Sets** tab. Intelli-Site can manage many different access control panels. Each panel has its own name for an access entry. ASSA ABLOY Aperio Gateway uses Access Group to refer to an access entry definition.

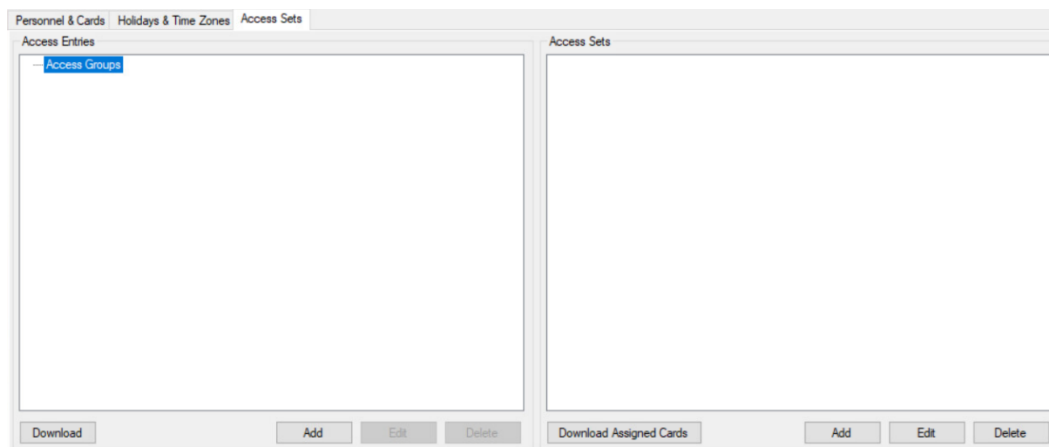


Figure 44 - Access Management View: Access Sets tab

In the **Access Entries** tree view on the left is the root node **Access Groups**. Add an access entry by highlighting the **Access Groups** node then clicking . The properties dialog for the new Access Group node opens.

ASSA ABLOY Aperio Gateway Panel Guide

[338] New Access Group

Properties

Name: ID:

User Level:

Notes:

Select Readers

Access Data:

Reader	Time Zone
--------	-----------

Add Delete

OK Cancel

Figure 45 - Access Group properties dialog

At this point it is important to consider the different ways the facility managed by the ASSA ABLOY Aperio Gateway panel is used. Multiple access groups can and should be combined to create Access Sets that are assigned to cardholders. Access groups are never directly assigned to cardholders, only access sets. Create access groups and access sets that are meaningful and useful for the facility.

Click to open a **Select Readers** dialog which lists all available locks (and their readers) for this access group. If there are other panel types in Intelli-Site that use access groups, they will also be listed.

ASSA ABLOY Aperio Gateway Panel Guide

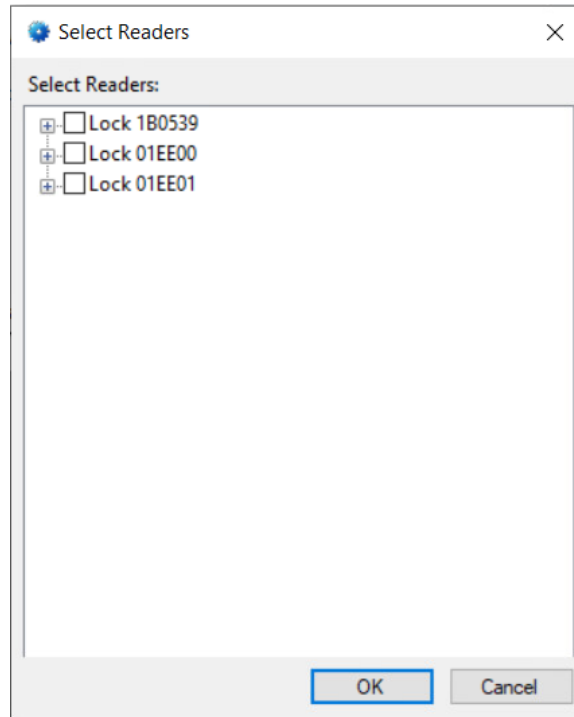


Figure 46 - Select Readers dialog

Check all the locks that should be included in this access group then click **OK**. A row is added to the **Access Data** table for each lock checked. Now set the **Time Zone** for each reader then click **OK**.

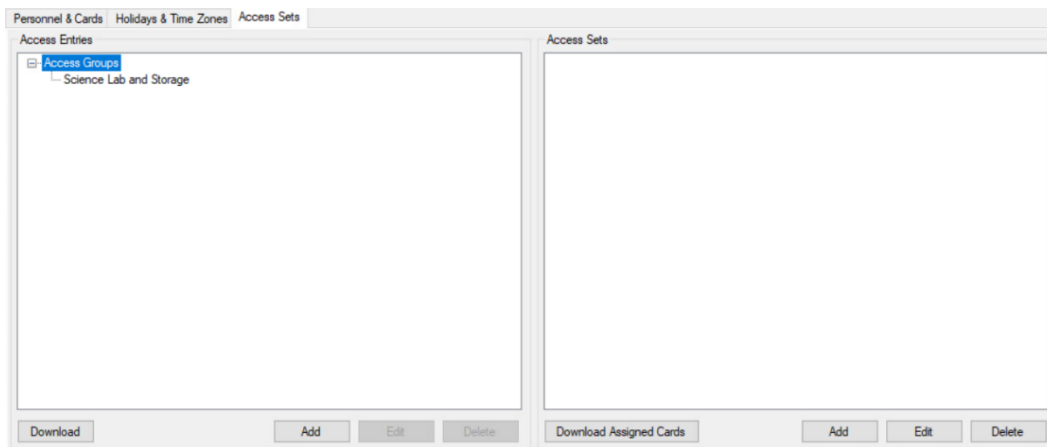


Figure 47 - Access Sets tab with a new Access Group

After creating all of the access groups needed, create the access sets. Access sets combine the access groups for specific purposes. Access sets are assigned to personnel.

ASSA ABLOY Aperio Gateway Panel Guide

Personnel & Cards Tab

The ***Personnel & Cards*** tab is where cardholders and cards are added and managed. There is nothing specific to ASSA ABLOY Aperio Gateway when it comes to assigning personnel and cards. For questions concerning this tab, see the User's Guide.

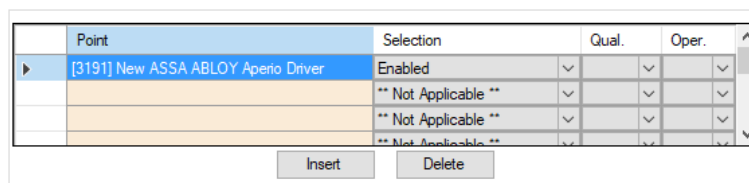
ASSA ABLOY Aperio Gateway Panel Guide

Project Programming

The various points of the ASSA ABLOY Aperio Gateway driver and panel can be used in programming the Project. All programming takes place in  **Design View**.

Evaluation Grids

The ASSA ABLOY Aperio driver, ASSA ABLOY Aperio Gateway, and Lock nodes can be used in evaluation grids. Each has slightly different selection possibilities.



Point	Selection	Qual.	Oper.
[3191] New ASSA ABLOY Aperio Driver	Enabled	▼	▼
	** Not Applicable **	▼	▼
	** Not Applicable **	▼	▼
	** Not Applicable **	▼	▼

Insert Delete

Figure 48 - Example Evaluation Grid

The ASSA ABLOY Aperio Driver Node

When an ASSA ABLOY Aperio driver node is used in an evaluation grid, the **Selection** values are:

- *Enabled*
- *Disabled*

When **Selection** is set to *Enabled* and the driver is virtualized, this line in the evaluation grid evaluates to true. When **Selection** is set to *Disabled* and the driver is disabled, this line evaluates to true

The ASSA ABLOY Aperio Gateway Nodes

When an ASSA ABLOY Aperio Gateway node is used in an evaluation grid, the **Selection** values are:

- *Virtual*
- *Driver Offline*

ASSA ABLOY Aperio Gateway Panel Guide

When the Selection is *Virtual*, this line evaluates to true if the panel has been virtualized. When the **Selection** is *Driver Offline*, this line evaluates to true if the panel is offline. It could be offline because the driver is disabled or that the driver cannot communicate with the panel.

The Lock Panel Nodes

When a Lock node is used in an evaluation grid, the **Selection** values are:

- *Virtual*
- *Driver Offline*
- *Download Holidays*
- *Download Time Zones*
- *Download Access*
- *Download Cards*
- *Download Settings*
- *Download Complete Download Firmware*

Note: While the lock nodes are lock panels, the download selections do not apply to ASSA ABLOY Aperio Gateway locks. There is nothing downloaded to the Gateway or the locks. Access is host-controlled. Intelli-Site determines if the credentials presented have access rights to the lock and will issue the unlock command if appropriate.

When the **Selection** is *Virtual*, this line evaluates to true if the panel has been virtualized. When the **Selection** is *Driver Offline*, this line evaluates to true if the panel is offline. It could be offline because the driver is disabled or that the driver cannot communicate with the panel.

The Lock Panel Child Nodes

A lock panel node has many child I/O Points. Each of these nodes can be used in evaluation grids too. When a lock panel child node is used in an evaluation grid, the **Selection** values are:

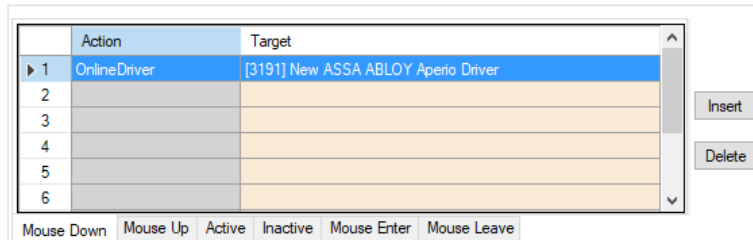
- *State*
- *Shunted*

When the point is high, and **Selection** is *State* this evaluation grid line evaluates to true.

ASSA ABLOY Aperio Gateway Panel Guide

Action Grids

The ASSA ABLOY Aperio driver, ASSA ABLOY Aperio Gateway, and Lock nodes can be used in evaluation grids. Each has slightly different selection possibilities.



	Action	Target
1	OnlineDriver	[3191] New ASSA ABLOY Aperio Driver
2		
3		
4		
5		
6		

Mouse Down Mouse Up Active Inactive Mouse Enter Mouse Leave

Insert Delete

Figure 49 - Example Action Grid

Each node can be the target of a different set of actions.

The ASSA ABLOY Aperio Driver Node

The driver node can be used in action grids as the target of the following actions:

- **OnlineDriver**
- **OfflineDriver**

The ASSA ABLOY Aperio Gateway Nodes

The panel node can be used in action grids as the target of the following actions:

- **VirtualizePanel**
- **UnvirtualizePanel**

The Lock Panel Nodes

The lock node can be used in action grids as the target of the following actions:

- **VirtualizePanel**
- **UnvirtualizePanel**

ASSA ABLOY Aperio Gateway Panel Guide

The Lock Panel Child Nodes

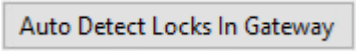
The Output child nodes are valid targets for the following I/O Control actions.

- **SetOn**
- **SetOff**
- **Pulse**
- **TempPulse**
- **Toggle**

When the action is **TempPulse**, the point is set high for the number of milliseconds defined on the **Operations** tab of the points **Properties** dialog.

ASSA ABLOY Aperio Gateway Panel Guide

Table of Figures

Figure 1 - PAP Configure Communication Hub dialog	9
Figure 2 - ACU Settings dialog.....	10
Figure 3 - Configure Smart Credential Cache dialog	12
Figure 4 - Select the drivers you want to install.....	13
Figure 5 - Hardware Management View	15
Figure 6 - Choose Driver Type Dialog	15
Figure 7 - ASSA ABLOY Aperio Driver Properties Dialog	16
Figure 8 – Driver properties: <i>Card Config</i> tab showing Card Configurations	17
Figure 9 - ASSA ABLOY Aperio Driver icon	17
Figure 10 - Driver Context Menu: Comm Methods -> Add Comm Method	18
Figure 11 - Choose Communication Method Type dialog	18
Figure 12 - TCP/IP Listener Comm Method dialog	19
Figure 13 - New SSL Listener Comm Method dialog	19
Figure 14 - Add Panel Dialog	20
Figure 15 - A new panel	21
Figure 16 - ASSA ABLOY Aperio Gateway Quick Config dialog.....	21
Figure 17 - Communication established with the Gateway.....	22
Figure 18 - After 	22
Figure 19 - ASSA ABLOY Aperio Gateway Panel Status	23
Figure 20 – The Lock Panel Control Screen	24

ASSA ABLOY Aperio Gateway Panel Guide

Figure 21 - ASSA ABLOY Aperio Driver node in the Project Node Tree	25
Figure 22 - ASSA ABLOY Aperio Driver properties dialog	26
Figure 23 - The driver <i>Properties</i> tab.....	27
Figure 24 - The <i>Card Config</i> tab.....	28
Figure 25 - Control - Card Format properties dialog	30
Figure 26 - The ASSA ABLOY Aperio Gateway panel node in the Project Node Tree	31
Figure 27 - ASSA ABLOY Aperio Gateway panel Properties dialog.....	31
Figure 28 - ASSA ABLOY Aperio Gateway Quick Config dialog.....	33
Figure 29 - The Lock panel nodes in the Project Node Tree.....	34
Figure 30 - Lock properties dialog	35
Figure 31 - Lock Quick Config dialog.....	36
Figure 32 - Lock child nodes	38
Figure 33 - Inputs child nodes.....	38
Figure 34 - The lock's Inputs and their substates.....	39
Figure 35 - Outputs child node.....	40
Figure 36 - The Outputs Lock node's substates.....	40
Figure 37 - Readers child node	41
Figure 38 - The Alarms child nodes	41
Figure 39 - Access Management View.....	42
Figure 40 - Access Management View: Holidays & Time Zones tab	43
Figure 41 - Always Time Zone	43
Figure 42 - The properties dialog of a new Time Zone	44

ASSA ABLOY Aperio Gateway Panel Guide

Figure 43 - New Time Zone.....45

Figure 44 - Access Management View: Access Sets tab45

Figure 45 - Access Group properties dialog46

Figure 46 - Select Readers dialog47

Figure 47 - Access Sets tab with a new Access Group.....47

Figure 48 - Example Evaluation Grid49

Figure 49 - Example Action Grid51

ASSA ABLOY Aperio Gateway Panel Guide

ASSA ABLOY Aperio Gateway Panel Guide

Revision History

2025-10-10 Creation Date