

# EXGARDA ASSA ABLOY APERIO INTEGRATION

# **User Manual**

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#### Foreword

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#### **Cautions and Notes**

The following symbols are used in this guide:



CAUTION! This indicates an important operating instruction that should be followed to avoid any potential damage to hardware or property, loss of data, or personal injury.



**NOTE.** This indicates important information to help you make the best use of this product.

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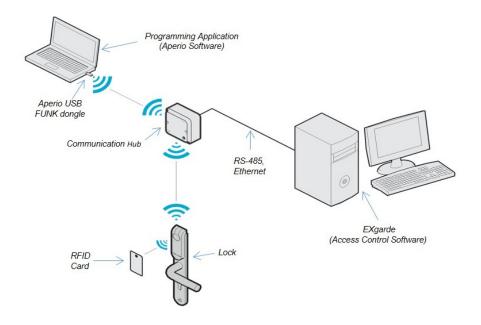
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#### 1. Overview

EXgarde provides the ability to integrate with the Assa Abloy Aperio IP lock system by connecting to Assa Abloy's AH40 communication hub. The EXgarde interaction includes controlling and monitoring a maximum of 8 Aperio devices per hub.

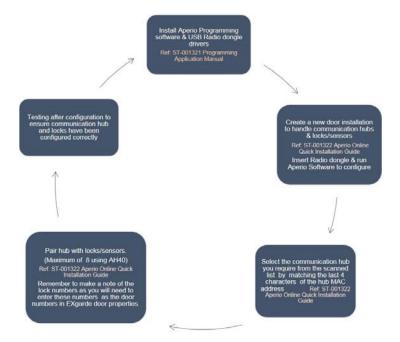
The diagram below shows a technology overview of all software and hardware needed for configuration / set up of a working system, complete with EXgarde Access Control software





### 2. Aperio IP Locks Configuration

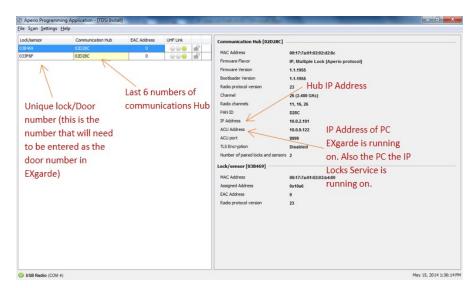
Before the Assa Abloy IP locks can be integrated with EXgarde the following steps will need to be followed;



Detailed information on any of the above can be found in the following online documents:

- ST-001321 Aperio Online Programming Application Manual-D
- ST-001322 Aperio Online Quick Installation Guide-C
- ST-001323 Aperio Online Mechanical Installation Manual-C

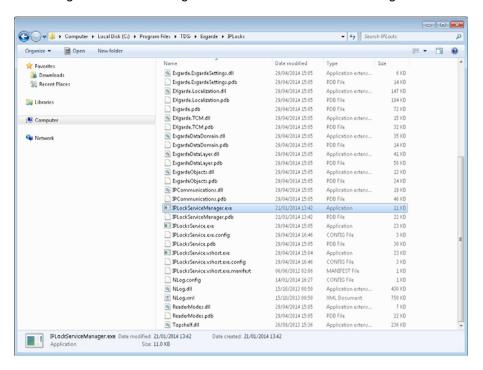
The screen below shows the scanned list of Hubs and locks/sensors. The details can be seen on the right. Details include, the MAC address of the communications Hub, Firmware version, last four digits of the Hub MAC address, IP address of the Hub and EXgarde PC, ACU/Hub port number and the state of the TLS Encryption. The MAC address of the lock / door is also shown





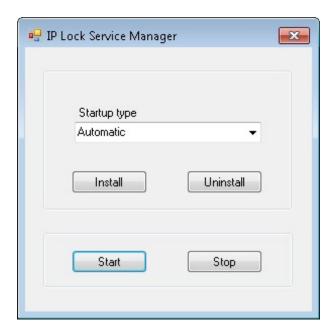
#### 3. IP Lock Service Manager

To enable communications between EXgarde and the IP Locks communication hub, the IP Lock Service must be running. The Service Manager can be used to configure the IP Locks Service. This can be found in C:\Program Files\TDSi\Exgarde\IPLocks\IPLockServiceManager.exe.

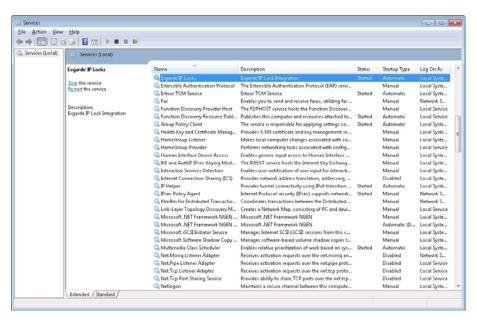


The Lock Service Manager can be used to control/configure the IP Lock Service; the start/stop buttons can be used to start or stop the service. When you first run EXgarde, the IPLocksService will be set to run in manual mode by default. This can be changed to run in Automatic mode by right clicking on the shortcut you have just created and selecting Run as administrator, click yes on the next screen to accept running as Administrator.

The IP Lock Service Manager will open and 'Start-up type' will default to Manual. To enable Automatic start-up of the service, click Stop then Uninstall, then select Automatic from the drop down list and click Install, next click on Start. From now on every time the PC running EXgarde is started the IP Service will start.



To check if the service is running and has been changed to automatic start, go to Services and the IP Locks Service Manager status and Start up Type should be the same as shown in the screenshot below. Status should be started and Startup Type should be Automatic

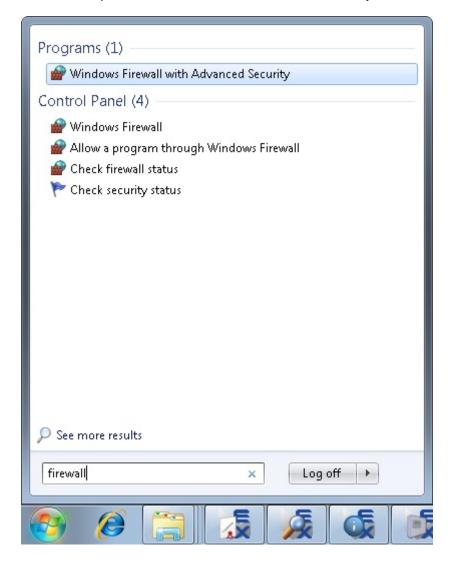




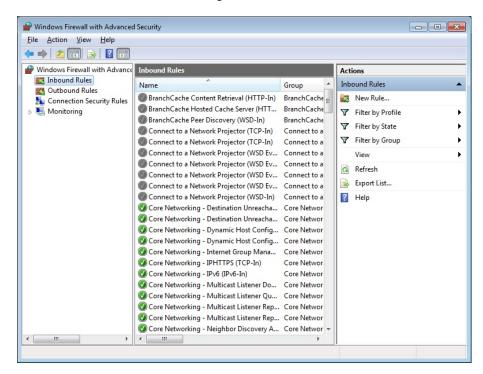
### 4. Firewall Configurations

The default IP ports on the PC EXgarde has been installed on will be blocked by Windows Firewall. The following steps need to be carried out for both inbound and outbound rules

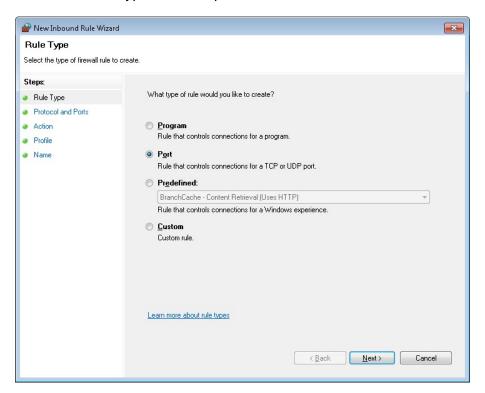
Search and open Windows Firewall with Advanced Security



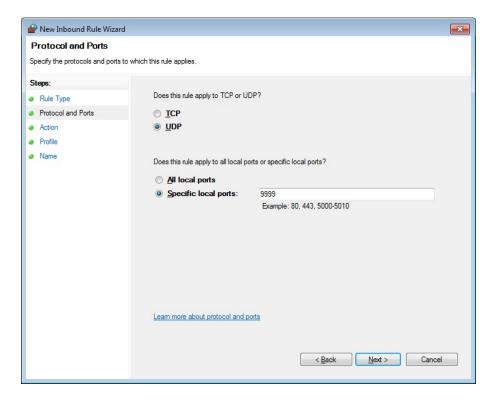
Select Inbound Rules from the left window and then select New Rule in the Actions window on the right to start the wizard



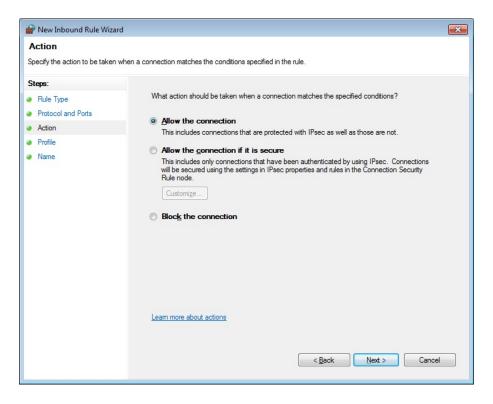
When the Rule Type window opens, select Port and click next



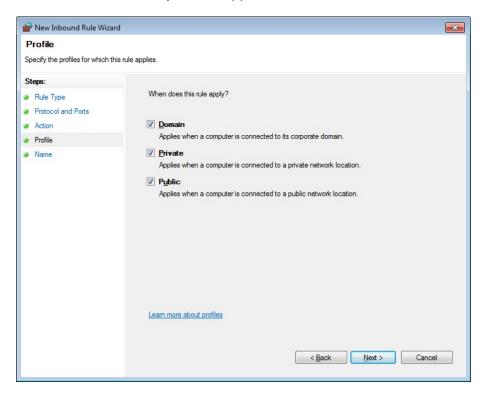
From the Protocol and Ports window, select TCP and in Specific local port enter 9999 for Assa Abloy or specified IP port if changed from default then select next



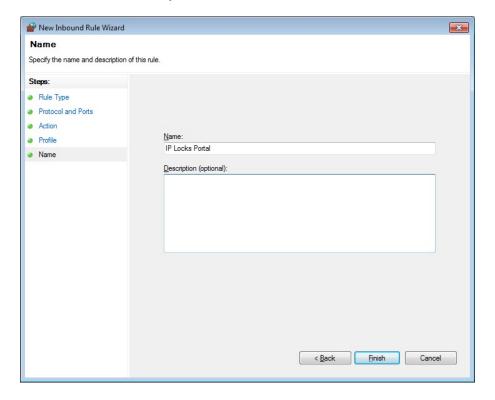
Select Allow the connection from the Actions window and click next



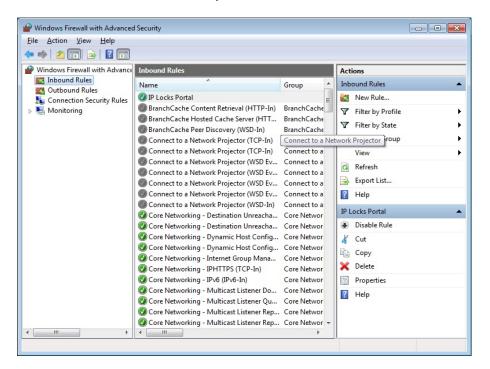
If you are unsure which of the Profiles need to be selected in the Profile window contact your IT support.



Finally, enter the name for the new rule and description if you desire and click Finish to complete the wizard.



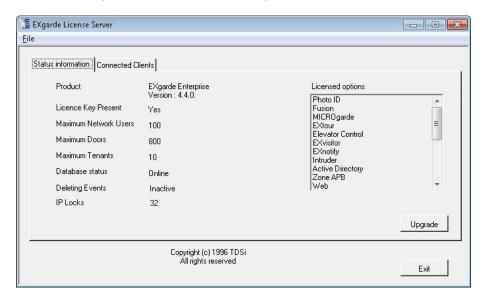
You can check the new Inbound rule by re-opening the Windows Firewall and Advanced Security window.





### 5. Configuring EXgarde

To enable the integration of IP Locks with EXgarde a license upgrade will need to be purchased from TDSi. Each Assa Abloy AH40 hub is capable of supporting up to 8 locks/sensors. Therefore if you were for example to purchase a license for 32 locks, this would give you the capability of running up to 32 locks spread over as many hubs as required for radio coverage. Doors that are not being used on a hub can be disabled and used to create another hub, up to the number of IP locks purchased

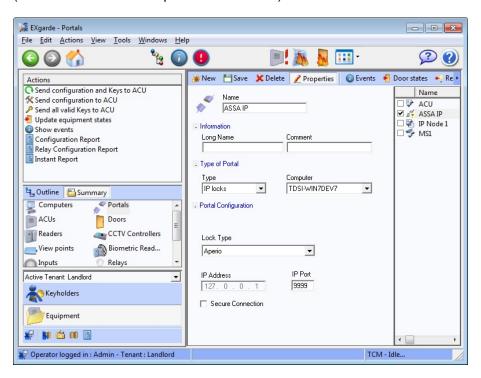


Start EXgarde Explorer, Operator is Admin, password is tdsi by default. The password can be changed in operator rights if required.

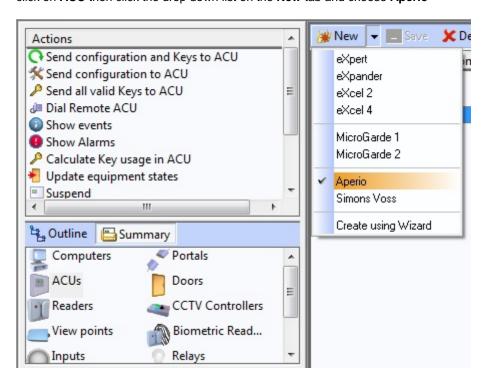
Create a new portal for the IP locks

- Type will be IP Locks
- Lock type will be Aperio
- IP port will default to 9999.

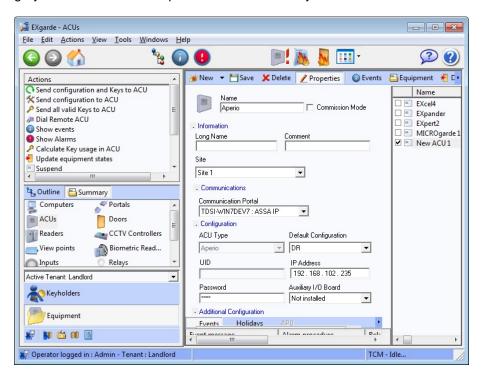
If required other port numbers can be added to EXgarde to allow better communications speed over large installations running several Hubs. (Contact the on-site IT department for advice)



Next you will need to create the ACU which represents the Hub, in Summary view click on **ACU** then click the drop down list on the **New** tab and choose **Aperio** 



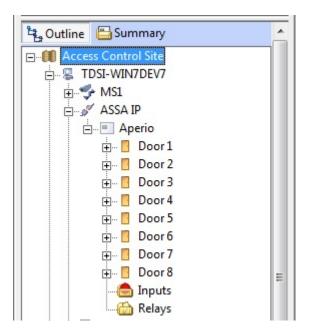
Name the ACU/Hub something familiar such as Assa Abloy Aperio, default configuration will be DR and the IP address you will enter will be the IP address of the Hub as shown in the Aperio software. ACU Type will be greyed out and show as Aperio. Click save when you have finished.



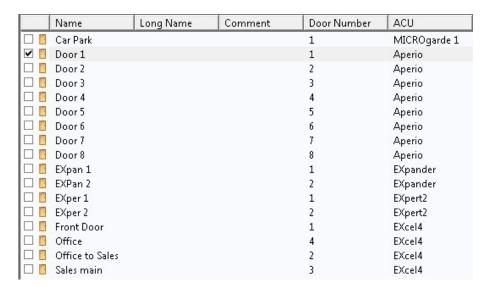


## 6. Configuring Doors

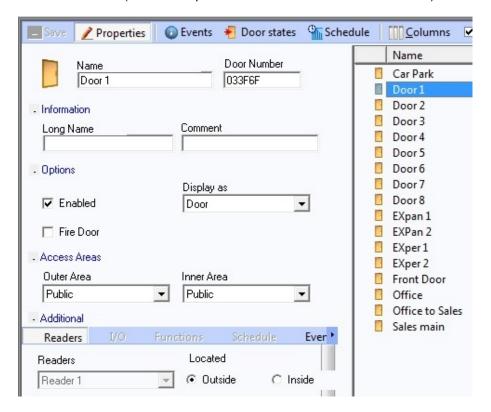
In summary view the 8 doors belonging to the Hub will be shown directly below the Hub you have created.



If you click on any of the doors, the door list will appear in the general display area in the right hand screen.



Click on the Properties button to access the door details. The relevant door lock/sensor hexadecimal numbers that were found when scanning with the Aperio Programming Application will need to be entered into the Door Number text box. (Refer the Aperio Software for Door Number details.)

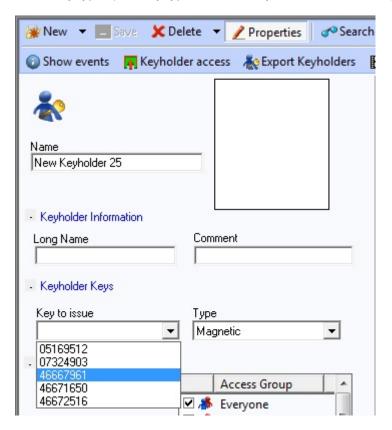


Left click on the relevant door in the list and select Properties; here you can set the Outer & Inner area. The Outer area being the area you are going from and the Inner Area being the area you are entering into to. Any unused doors can be disabled by un-ticking the Enabled option in the Properties window.



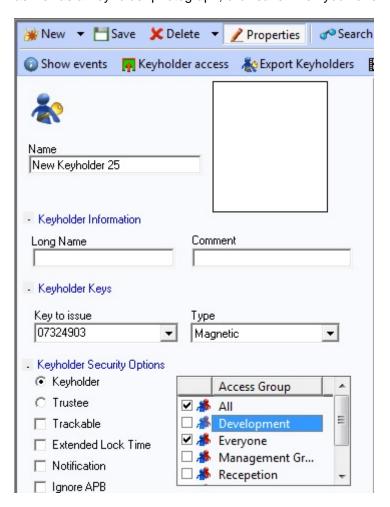
## 7. Adding Keyholders

To add a keyholder click on all Keyholders in the summary view, and then click the New button, enter a name for the keyholder and click the Key to issue drop down box. Click on the key you want the keyholder to have then select key type. (The key type should always match the reader type)



The reader Type can be set in the reader properties. Key holder access to the IP Locks follows the same functionality as normal readers in EXgarde, so if a KeyHolder is allowed access to an area the IP Lock is associated with the KeyHolder with the correct key technology can gain access.

Next you can choose which Access Groups you want the keyholder to be a member of, Keyholder long name and comment can be entered at this point as well as a Keyholder photograph, click save when you have finished.





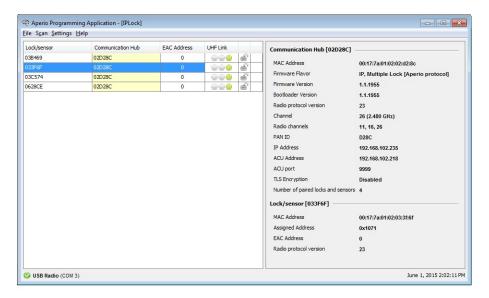
#### 8. Secure Connection Config

When setting up the portal there was the option to enable a secure connection in the portal properties, selecting the secure connection will enable the use of TLS Encryption for communications between the Hub and EXgarde Software. TLS encryption will also need to be enabled in the Aperio Programming Application.

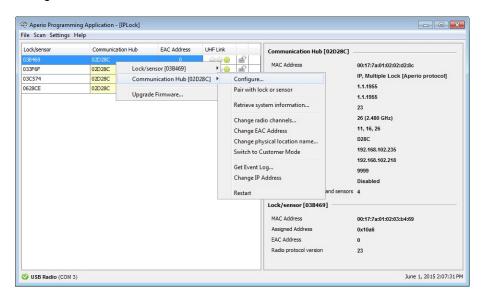
To begin with click on the Secure connection tick box in the Assa Abloy portal created in EXgarde.

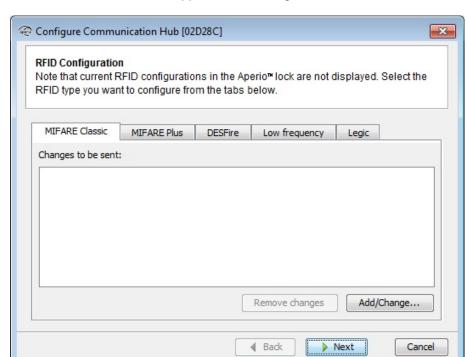


You will then need to run the Assa Abloy Aperio software tool and enter open the Hub configuration options. To do this open the Aperio software and ensure a connection to the locks is achieved.



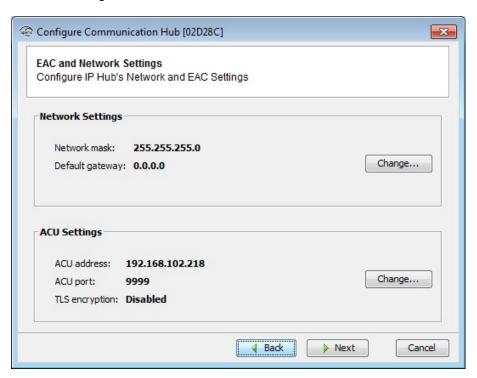
Right click on the Communication hub you wish to configure and select configure.



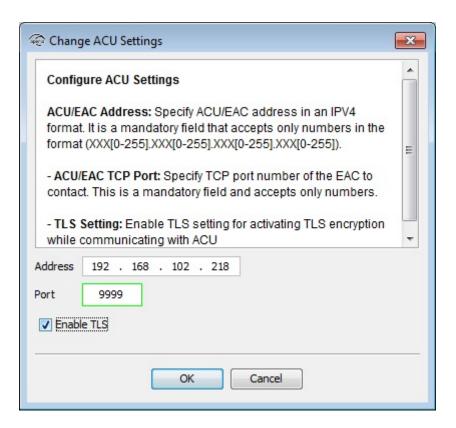


Below is the first window to appear in the configuration tool.

You will need to click on the Next button until you reach the EAC and Network Settings window.

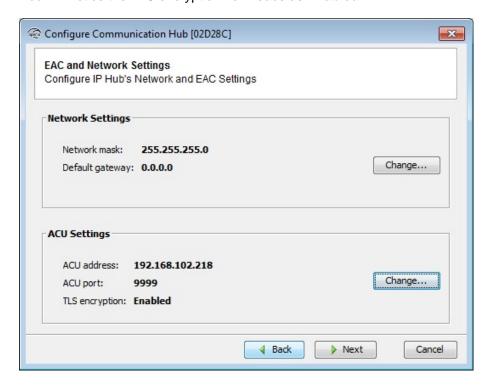


In the ACU settings area of the window, click on the Change button to open the Change ACU Settings window.

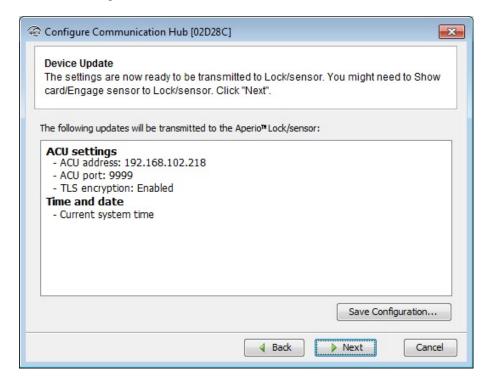


Here you will be able to click on the Enable TLS check box and click OK to return to the previous window.

You will notice the TLS encryption now reads as Enabled



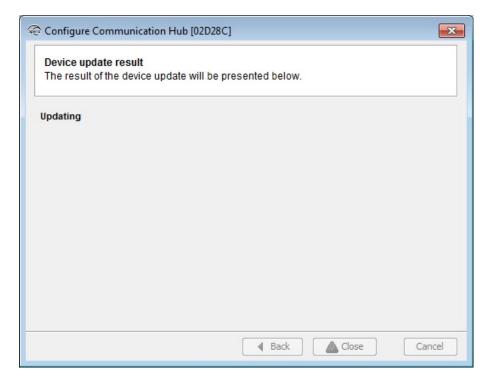
Click the Next button until you reach the Device Update window and click on the Save Configuration button.



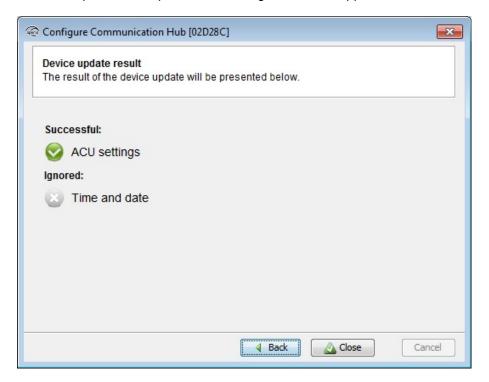
The Save Configuration window will pop up and a Configuration name will need to be entered before clicking OK to close the window.



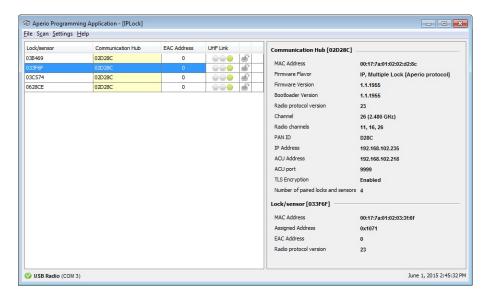
Click the Next button once again to update the device. The window below will notify you of the status of the update.



Once the update is complete the following window will appear.



Click on the Close button to complete the process and return to the Aperio home screen.



You will notice that the home screen now displays TLS Encryption Enabled.

Secure connection will only work on Windows 7 or Windows 2008 R2. You can check in Internet explorer by going to Internet Options > Advanced, scroll to the end of the list and look for 'Use TLS 1.2'. If it's not shown then secure connection is not supported. Please reference the manuals below for help with Aperio Programming software / Assa Abloy Locks;

- ST-001321 Aperio Online Programming Application Manual-D
- ST-001322 Aperio Online Quick Installation Guide-C.

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