

Partner: Home Connect GmbH
Appliance Type: Home Connect-enabled appliances



GENERAL INFORMATION

SIMPLWINDOWS NAME: Home Connect v1.0 Comm IP

CATEGORY: Misc.

VERSION: 1.0

SUMMARY: This module manages connected appliances compatible with the Home Connect cloud platform. Each device module registers with this comm module.

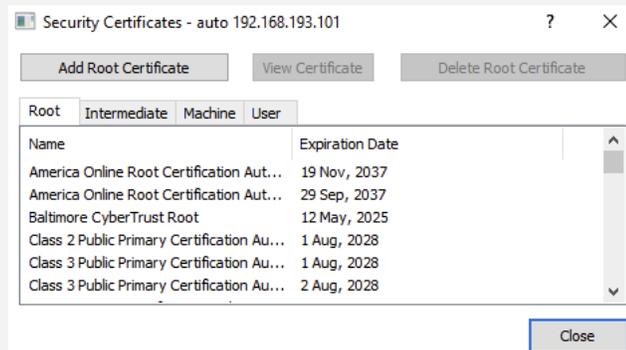
The Home Connect modules requires some external configuration for the modules to work properly, including applying a root certificate to the trust store on the processor, pairing the module with the Home Connect cloud server, and acquiring the Home Connect appliance identification strings for your account. Review the procedures below to ensure your control processor and modules are configured correctly.

LOADING THE AAA ROOT CERTIFICATE

A secure certificate "cert4.cer" is included with the project files and must be added to the Root Certificate Trust Store of the control processor if it is not already present. This certificate provided by Crestron and may already be loaded. If the certificate named "AAA Certificate Services" is found in the list of root certificates, this procedure can be skipped. Otherwise, follow the steps below to load the certificate:

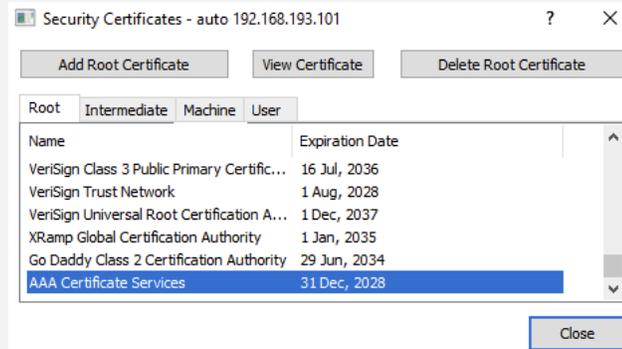
1. Open Crestron Toolbox.
2. Open the System Info tool.
3. Select **Functions -> Security Certificates**

GENERAL NOTES:



4. Click **Add Root Certificate**.
5. Browse to the unzipped demo project folder to locate the file cert4.cer.
6. Click **Yes** to confirm loading the certificate.
7. Once the certificate is added, it will be listed in the store.

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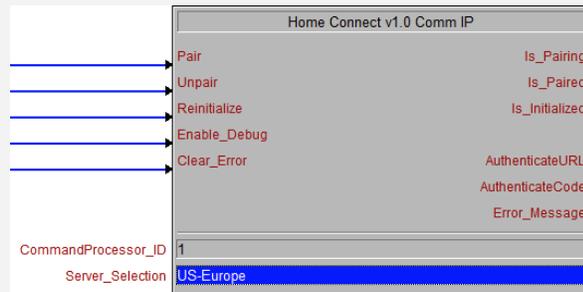


8. Click **Close** on the Security Certificates dialog.
9. Select **Functions -> Device Reboot**.

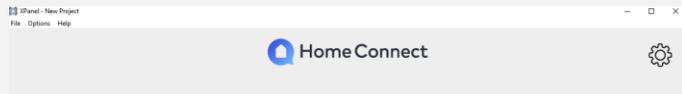
PAIRING THE MODULE

Pairing the module with the Home Connect cloud server is a one-time process. The module will store the pairing information for subsequent connections after the initial pairing is completed. Pairing is accomplished through the module and must be completed before the module can communicate with any appliances in the Home Connect account. The process requires outside access to a web browser where the provided pairing URL can be entered. Follow the steps below to pair the module. The process can be completed using the provided demo program or using SIMPL Debugger in Toolbox, although it is helpful to have a user interface. The instructions below refer to the demo program

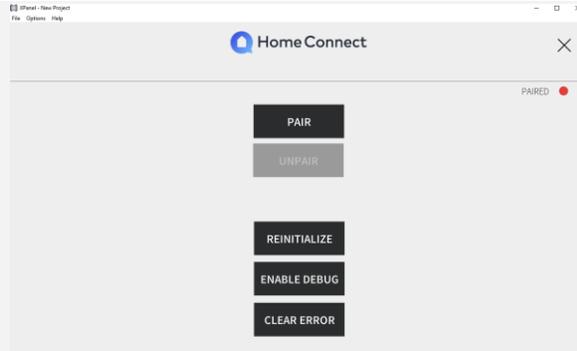
1. Load the demo program to the control processor. Make sure the Comm IP module has the Server Selection property set.



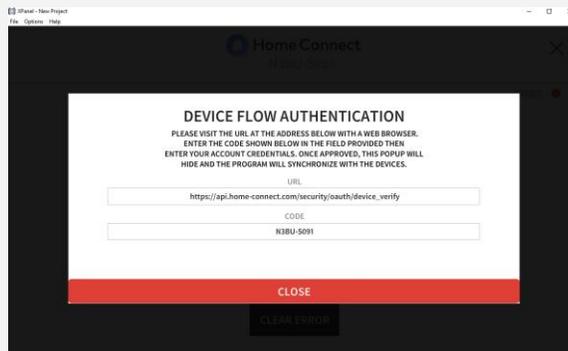
2. Click the gear icon in the upper-right corner of the xpanel interface to view the settings page.



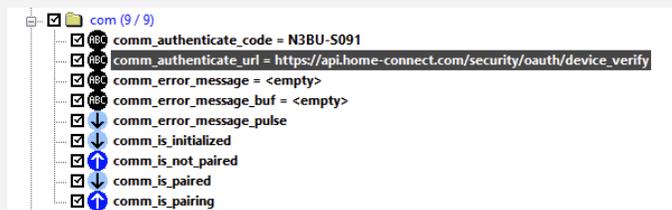
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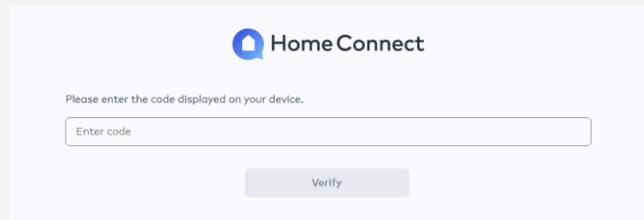
3. Click **Pair**. A message will be displayed with instructions to browse to the specified URL.



The necessary URL and code can be obtained through SIMPL Debugger.



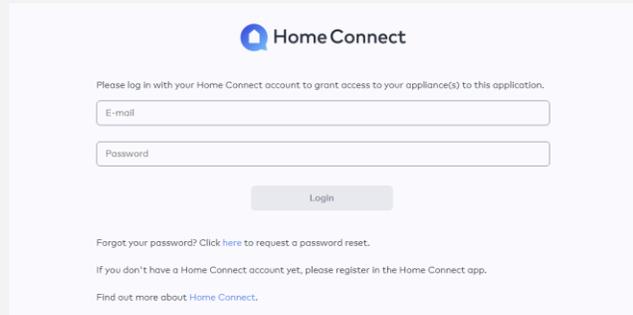
4. Open a separate web browser and navigate to the specified URL. Enter the provided code.



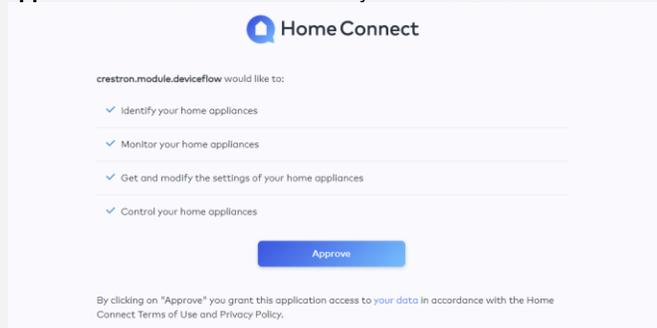
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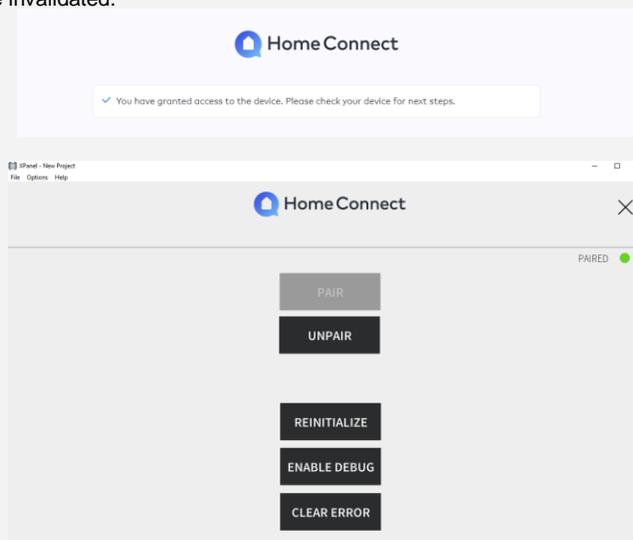
5. Click **Verify**. The browser will navigate to a login screen for your Home Connect account. Enter your Home Connect account credentials and click **Login**.



6. Click **Approve** to enable module access to your Home Connect account.



7. The pairing process is complete. If using the demo program xpanel, the pairing screen will close automatically, and the Pair indicator will turn green. Note that the entire process must be completed within a short amount of time, or the code will be invalidated.



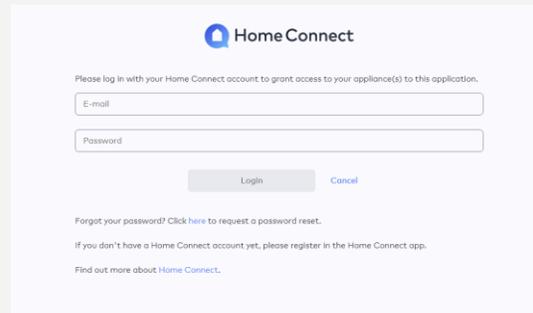
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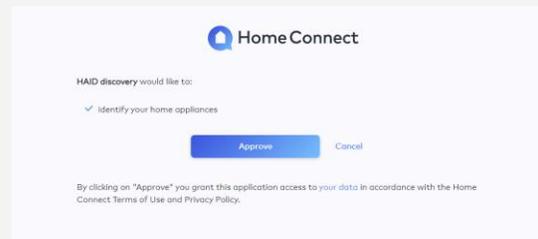
OBTAINING APPLIANCE IDENTIFICATION STRINGS (HAIDs)

1. Click the link below or copy into a browser to navigate to the Home Connect login page.

https://api.home-connect.com/security/oauth/authorize?client_id=03D3B842F2B534F237F0CD976A6AFA26151FC8981A565327338CA8EB1D2073BC&redirect_uri=https%3A%2F%2Fccidev.net%2Fbsh%2Fdiscovery.html&response_type=code&scope=IdentifyAppliance



2. Enter your Home Connect user credentials and click **Login**.
3. Click **Approve** to give access to the appliances in your account.

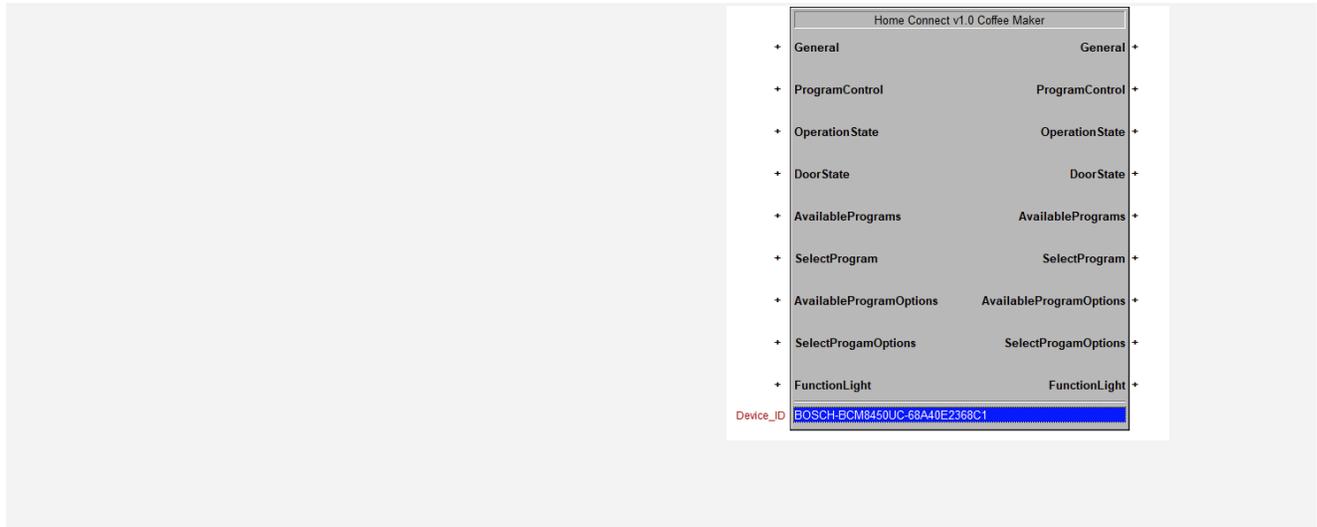


4. Copy HAID strings to the corresponding appliance module in your program.

Below are the appliances in your system and their corresponding HAID's.

| Name | HAID |
|-----------------|-------------------------------|
| Coffee Machine | BOSCH-BCM849UC-68A4E1349C1 |
| Washing machine | BOSCH-WAW283HZUC-68A4E14CF96 |
| Dryer | BOSCH-WTG683HZUC-68A4E167EB3 |
| Home Coffee | BOSCH-BCM849UC-68A4E02BF0B |
| Oven | THERMADOR-MED301WS-68A4E14891 |

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| | |
|------------------------------------|------------------------------|
| CRESTRON HARDWARE REQUIRED: | Crestron 3-Series processor. |
| SETUP OF CRESTRON HARDWARE: | N/A |
| VENDOR FIRMWARE: | N/A |
| VENDOR SETUP: | N/A |

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PARAMETERS:

| | |
|----------------------------|--|
| CommandProcessor_ID | The unique identifier of this comm module. |
| Server_Selection | The Home Connect server to connect to. |

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**CONTROL:**

| | | |
|---------------------|---|--|
| Pair | D | Pulse to initiate pairing the module to your Home Connect account. |
| Unpair | D | Pulse to terminate the paired connection. The module must be paired again before any device modules can be controlled. |
| Reinitialize | D | Pulse to reinitialize the module. |
| Enable_Debug | D | Pulse to toggle debug mode. While enabled, debug output will be sent to the Crestron Toolbox debugger tool. |
| Clear_Error | D | Pulse to clear the last error reported by the module. |

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**FEEDBACK:**

| | | |
|-------------------------|---|---|
| Is_Pairing | D | Signal latched high indicates pairing is in progress. The signal remains high until a pairing success or failure event is received. |
| Is_Paired | D | Signal latched high indicates the module is paired. |
| Is_Initialized | D | Signal latched high indicates the module is connected to the Home Connect platform and the event stream is active. |
| AuthenticateURL | S | Text value indicates the browser URL to navigate to for pairing the module. |
| AuthenticateCode | S | Text value indicates the authentication code needed to enter into the pairing website specified by the AuthenticateURL text value. |
| Error_Message | S | Text value indicates the last error message received by the comm module. |

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**TESTING:**

| | |
|---|-----------------------------------|
| OPS USED FOR TESTING: | CP3 1.603.4242.34642 |
| SIMPL WINDOWS USED FOR TESTING: | 4.14.20 |
| CRES DB USED FOR TESTING: | 201.00.004.00 |
| DEVICE DATABASE: | 200.05.001.00 |
| SYMBOL LIBRARY USED FOR TESTING: | 1114 |
| SAMPLE PROGRAM: | Home Connect v1.0 Demo IP CP3.smw |
| REVISION HISTORY: | v1.0 – Initial Release |