

Configuring DSC Alarm Panels Using the HSIM Interface Module Integration Release Notes

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Last modified: 04/26/18

Introduction

The HSIM security integration module is a keypad emulator that connects to DSC PowerSeries panels and provides a serial connection to a CLIQ device. The HSIM is used in place of the IT-100 PowerSeries Integration Module. It is tested and certified for integration with the ClareHome system. Integration of the HSIM provides monitoring and control of the DSC panel using the ClareHome UI.

Supported DSC PowerSeries panels

- PC1864 PC1616
- PC1832 PC1404

The instructions in this document are provided to help you quickly integrate the HSIM with your DSC panel. It is not intended to be a complete installation guide. Please follow the manufacturer's installation documentation when installing the HSIM in your security panel.

Device properties supported in ClareHome

Supported features

- **Armed stay:** The panel arms in stay mode, turning off the home's internal motion detectors
- **Armed away:** The panel arms in away mode, activating the entire security system (internal and external).
- **Disarm**: Disarms the security system.
- **Zone status**: Zone status information for all zones.

Currently unsupported features

- **Multiple partition**: The HSIM only supports one partition.
- Auto name detection: Zone names cannot be imported from the panel; they must be entered manually in Fusion. This is true for all Clare Controls supported security panels.
- **Zone bypass**: Zones cannot be bypassed from the Clare Controls application.

Installing the panel and the HSIM module

A qualified technician should install the security panel and the HSIM module. Refer to the installation instructions that came with your devices.

When installing the HSIM module be aware of the wiring. The table below shows the security panel's wiring scheme.

Table 1. Security parter winning scheme					
Wire	DSC				
Power (-)	Black				
Power (+)	Red				
DI	Yellow				
DO	Green				

Table 1:	Security	panel	wiring	scheme
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Connecting the HSIM to the CLIQ

After installing the security panel and the HSIM, connect the HSIM to yur CLIQ device. The HSIM requires a straight through cable. When using the HSIM panel with a CLIQ.host, you must use the included cable and a null modem adaptor. When using the HSIM with a CLIQ.mini, you must use a USB to serial cable (part number CLIQ-SEC-USB-01).

To connect the HSIM using a CLIQ.host:

Note: The serial cable included with the CLIQ is a Null Modem cable. The HSIM module connection requires a straight through cable. For proper operation with the CLIQ serial cable, a null modem adapter must be installed between the DB9 end of the cable and the HSIM module. This converts the connection to straight through serial.

1. Attach the RJ12 end of the provided serial cable to the desired serial port (there is only one if you are using the CLIQ.express) of the CLIQ.

Note: Write down or note the port used, this is required for Fusion configuration.

- 2. Attach a null modem adapter/cable to the DB9 end of the CLIQ serial cable.
- 3. Attach the opposite end of the null modem adapter/cable to the HSIM.

To connect the HSIM using a CLIQ.mini:

Note: You will need the Clare Controls USB to serial cable (part number

CLIQ-SEC-USB-01).

- 1. Attach the USB end of the USB to serial cable to the desired USB port on the CLIQ.mini.
- 2. Attach the opposite end of the USB to serial cable (DB-9 connector) to the serial connector on the DSC panel.

Enabling the HSIM for communication with ClareHome

The HSIM is automatically detected by a DSC panel.

Note: If the HSIM module is not auto-detected, a power cycle is needed. Perform the power cycle, and then configure the device in Fusion.

Configuring the HSIM in Fusion

After installing and enabling the HSIM, add and configure the security module in Fusion. You will also define the zones that you created when installing the security panel. Follow the steps below to configure your security system in Fusion.

To add the system in Fusion:

Click the **Devices** tab, and then click the **New Device** button .
 This displays the Select Template dialog.



2. Browse to **DSC – PowerSeries – HSIM**.

Security > Security Panel > DSC – PowerSeries - HSIM

- Select CLIQ in the Communication Method drop-down if you are using a CLIQ.host or a CLIQ.mini.
- 4. Click OK.
- 5. The security Device Wizard displays. Select the number of zones, and then click **OK**.

C DSC - PowerSeries - HSIM - Device Wizard	\otimes
Child devices to add	
Zone 1 4	Minimum: 1 Maximum: 256 .
Remaining 252	
	Ok Cancel

Note: One partition is created automatically. Additional partitions must be added manually.

6. The **Details** tab displays. Enter a name and notes for the device if desired.

🔒 *DSC - Security	- PowerSeries Models - HSIM Adapter (device) 🔀	- 0
		5
Details Configure	Test	
Icon:	۵	A
Name:	DSC - Security - PowerSeries Models - HSIM Adapter (device)	
Manufacturer:	House Logix	
Model Number:	HSIM	
Master Template:	DSC - Security - PowerSeries Models - HSIM Adapter Change Device Template	=
Types:	Security Systems	
Notes:	HSIM Adapter Required For more info - https://www.houselogix.com/shop/hsim-dsc-honeywell-and-ademco-security-integration-module	
Version:	3.20.15	
Last Modified	2015/03/20 21:02	T

- 7. Click the **Configure** tab, and then enter the number of the keypad being used for the panel.
- 8. Configure the fields with the proper information, leaving the baudrate, data bits, and serial parity to their default.

Note: Ensure that you select the proper value for the CLIQ Serial Port dropdown. CLIQ.host and CLIQ.mini each have port options.

Configuration Properties	;			
Name	Value		Mandatory	Description
A Network Controller				
Intrusion System	HSIM Honeywell-DSC		yes	The intrusion panel type. This is used to select the appropriate driver.
CLIQ Serial Port	CLIQ.mini Serial 1	•	no	The CLIQ serial port to use for communicating to the device. Necessary for o
Honeywell / DSC	CLIQ.connect 3 Serial 1		no	Select whether to control Honeywell or DSC panel in this common driver .
Keypad Address	CLIQ.connect 3 Serial 2 CLIO.host Serial 1		no	Enter the configured keypad address of the Honeywell/DSC HSIM module.
Serial Baudrate	CLIQ.host Serial 2	=	no	The baud rate serial setting.
Serial Data Bits	CLIQ.mini Serial 1		no	The data bits serial setting.
Serial Parity	None		no	The parity serial setting.
Serial Stop Bits	1		no	The stop bits serial setting.

9. Click the **Save** button \blacksquare .

To configure the partition:

1. Return to the **Devices** tab, and then double-click the partition to display its **Details** tab.

🔒 *Security Partitio	on 83	1
Details Configure	Test	
Icon:		
Name:	Main House - Partition 1	
Manufacturer:	House Logix	
Model Number:	HSIM	
Master Template:	Security Partition Change Device Template	
Types:	Security Panels	
Notes:		
Version:	3.20.15	
Last Modified	2015/03/31 13:55	

- 2. Enter a name for this partition. In our example above, we named the partition "Main House Partition 1."
- 3. Click the **Configure** tab, and then expand the Intrusion Partition drop-down.

Security Partition 🔀			
Details Configure Test			
Configuration Properties			
Name	Value	Mandatory	Description
 Intrusion Partition 			
Partition Number	1	yes	The partition number within the intrusion system (1 based).

- 4. Enter the partition number in the **Value** field.
- 5. Click the **Save** button \square .

To manually add partitions to the security system:

Note: When adding partitions, be sure that you do not duplicate the partition numbers. Each partition number must be unique.

1. Return to the **Devices** tab.

2. Right-click the partition, and then select Add Dynamic Children.



3. The security Device Wizard displays. Select the number of partitions, and then click **OK**.

CDSC - PowerSeries - HSIM - Device Wizard	\otimes
Child devices to add	
Zone 1 1	Minimum: 1 Maximum: 256 .
Remaining 252	
	Ok Cancel

Note: One zone is created automatically. Additional zones must be added manually.

- 4. Click **OK**, and then configure the partition as above.
- 5. Repeat steps 1 through 4 for each partition.

To configure zones:

- 1. Return to the **Devices** tab, and then expand the desired partition to view the zones.
- 2. Double-click the zone to display the **Details** tab.

🚯 *Zone 1 🔀	- C
	🗟 🗟 🖄 🔛
Details Configure	Test
Icon:	â
Name:	Main House - Patio
Manufacturer:	House Logix
Model Number:	HSIM
Master Template:	Zone 1 Change Device Template
Types:	Security Panels
Notes:	
Version:	3.20.15
Last Modified	2015/03/31 14:02

3. Click the **Configure** tab, expand the Intrusion Zone drop-down, and then verify that the zone number is unique.

Note: If the zone is not unique, enter the zone number in the Value field.



4. Click the **Save** button \square .

To manually add zones to a partition:

Note: When adding zones, be sure that you do not duplicate the zone numbers. Each zone number must be unique.

- 1. Return to the **Devices** tab.
- 2. Right-click the partition, and then select Add Dynamic Children.



3. Fusion has already added the specified number of zones. Enter the number of additional zones for this partition.

Security Partition - Device Wizard	\otimes
Child devices to add	
Zone 1 2	Minimum: 0 Maximum: 127.
Remaining 125	
	Ok Cancel

- 4. Click OK.
- 5. Repeat steps 1 to 4 for each zone.

To create a service for the partition:

1. Click the partition to view the **Details** tab, and then click the **New Service Instance** button **B**.

The Create Service dialog displays.

Create Service			(
Service Name:			
Main House - Partition 1			
	OK	Cancel	Open Wizard

2. Click **Open Wizard** to display the Service Instance dialog, shown below.

😣 New	Service Instance				\otimes
Service	Devices				
Name:	Intrusion Partition Service	Area:	Entry		-
Notes:					
Service	Definition:				
type fil	ter text				
()	Distributed Audio Service v2.0.0				
n 🗅	Distributed Audio Service v2.0.1				
	Door Entry Service v1.0.0				
B 0	Door Lock Service v1.0.0				
🖸 🖸 E	ntertainment Service v2.0.0				
🛛 🏄 F	ireplace Service v1.0.0				
	Garage Service v1.0.0				
	Sate Service v1.0.0				
88 1	ntrusion Partition Service v1.1.0				
📃 💽 Ū	ighting Dimmer Service v1.0.0				=
💽 L	ighting Keypad Service v4.0.0				
j) F	Play Audio Service v1.0.0				
💽 F	Pool and Spa Service v1.1.0				
	Screens Keypad Service v1.0.0				
	Shades Keypad Service v2.0.0				
76° T	hermostat Service v2.0.0				
<u> </u>	Vater Valve Service v1 0 1				•
Арр Мо	dule: Security				
				<back next=""></back>	Cancel

- 3. Select an area for system in the Area drop-down menu.
- 4. Click Intrusion Partition Service, and then click Next.

5. In the right pane of the New Service Instance pane, select your security device, partition, and zones. In our example, we have selected DSC – HSIM.

😟 New Service Instance			\otimes
Service Devices			
Compatible Selected (5) All	Req. 🛆 Control Point	Value	Use
type filter text	Intrusion Partition	Main House - Partition 1	T
	Zone	Main House - Patio	=
Climate	Zone	Main House - Entry	✓
> Cube 1	Zone	Main House - Garage	
> Cube 2	Zone		
▶ 🔄 🔁 Cube 3	Zone		
▶ 🔄 🔲 Cube 4	Zone		
> 🔄 🔁 Cube 5	Zone		
Entertainment Devices	Zone		
▶ 🔄 📋 Lighting	Zone		
🛛 🔽 🔲 Security	Zone		
🔺 📝 🖀 DSC - Security - PowerSeries Models - H	Zone		
🛛 🗹 🔒 Main House - Partition 1	Zone		
Main House - Entry	Zone		
🗸 🔒 Main House - Garage	Zone		
🗹 🔒 Main House - Patio	Zone		
	4	III	
		<back next=""></back>	Cancel Finish

- 6. In the left pane, select the partition name and zones on the left side of the window.
- 7. Click **Finish**.
- 8. Be sure to deploy your project.

Configuring rules with the DSC HSIM

Configure a rule for the DSC HSIM.

The following example sets an Armed-away rule. When the DSC is set to Arm-Away, the lighting switch turns off.

To create an Armed-away mode rule in Fusion:

1. Access your project, and then click the **Rules** tab.

🐺 Setup 🖃 Devices 😥 Services 🎬 Scenes 🕎 Rules 🆏 Z-Wave	🔛 Troubleshooting	- 8
		S 🕒 🕒
type filter text		
Name	Туре	
🕎 Good Morning	Rule	
🕎 Good Night	Rule	

2. Click the **New Rule** button 😳.

3. Enter a name for the rule, and then select the Enable Rule checkbox.

₩ *Rule_1 🛛	
Rule Info	8
Name: Armed-away - turn off switch	Enabled

- 4. Configure the Event Part as below.
 - Event Type: Device Property Value Event
 - **Device:** DSC HSIM device
 - Function: Intrusion Partition
 - **Property:** Arm Away
 - Constraint: =
 - Value: ArmedAway

Event Part		
Event Type:	Device Property Value Event	Ŧ
Device:	- House Logix PowerSeries PC1864, 1832, 1616, 1404 DSC - PowerSeries - HSIM (device), Security Partition	1
Function:	Intrusion Partition	Ŧ
Property:	Armed Away	Ŧ
Constraint:	=	Ŧ
Value:	ArmedAway	•

- 5. Configure the Action part as below.
 - Action Type: Invoke Device Operation
 - **Device:** Lighting switch
 - Function: Switch
 - **Operation:** Turn Off

Action Part		
Action Type	Invoke Device Operation	v
Device:	Living Room - Clare Controls CL-MNS Sys 2 Switch	
Function:	Switch	Ψ.
Operation:	Turn Off ()	T

6. Click **Save** \blacksquare , and then deploy the project.

DSC Security UI

The following figures show the DSC controls in the ClareHome app.



Figure 1: DSC Security System UI in the Ready and Armed state



Contact information

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