

# DSC Security System Integration Release Notes

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# Introduction

The DSC Power Series security panel and the DSC IT-100 RS-232 Interface Module are tested and certified for integration with the ClareHome system. By integrating the DSC Security System into the ClareHome network, your customers can monitor and control their security system with their iPad, iPhone, or Android smartphone.

The DSC Security System integrates with the ClareHome system in a way similar to existing security integrations. All security integrations share a common UI, so that the user experience is consistent.

# **Device properties supported in ClareHome**

### Supported features

- Arm and disarm: Arm and disarm are options in the user interface. Swipe the screen to arm or disarm the system.
- **Zone status**: The user is able to see the status of all zones in the system.
- **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).

**Unsupported features** 

- **DSC Z-Wave features**: This integration does not support any Z-Wave features.
- **Zone bypass**: The Clare Controls App does not allow for zone bypass.
- Auto name detection: You must enter the matching zone name manually.

# Installing the DSC security panel

A qualified installation technician should install the DSC security panel.

### Notes

- If you are using a wall mount box for the security panel, mount the PC5401 on the left side of the box so you can easily connect the RS-232 cable. Ensure that there is room for the cable and adapter.
- If you are using a hub enclosure for the security panel, mount in such a way to leave room for the cable and the DB-9 to RJ45 adapter to connect to the DSC IT-100.
- There are no extra steps to program the DSC panel with the ClareHome system.

# Connecting the DSC security system to the CLIQ

Install the DSC security system according to the manufacturer's instructions. When done, connect it to the ClareHome system. When using the DSC panel with a CLIQ.host, you must use the included cable and a null modem adaptor. When using the panel with a CLIQ.mini, you must use a USB to serial cable (part number CLIQ-SEC-USB-01).

### To connect the DSC panel using a CLIQ.host:

**Note:** The serial cable included with the CLIQ.host 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 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 DSC panel.
- 4. Configure the RS-232 serial connection (the DSC IT-100) with the port parameter settings in Table 1.

Table 1: RS-232 settings

Serial parameter	Setting
Baud rate	9600
Data bits	8
Parity	None
Stop bits	1

To connect the DSC panel 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.

# **Configuring DSC in Fusion**

Install and connect the DSC security panel to the ClareHome system, and then configure the DSC Security Panel in Fusion.

To add the DSC security panel in Fusion:

1. Click the **Devices** tab, and then click the **New Device** button to display the Select Template dialog.



2. Expand the **Security** folder, and browse to the DCS – All Models.

#### Security > Security Systems > DSC - All Models.

3. Set the **Communication Method** field.

Select **CLIQ** if you connected DSC directly to a CLIQ.host or CLIQ.mini.

- 4. Click OK.
- 5. This displays the DSC All Models Device Wizard. Select the number of zones, and then click **OK**.

DSC - All Models - De	vice Wizard		$\otimes$
Child devices to add			
DSC Security Zone	1	Minimum: 1	Maximum: 256 .
Remaining	255		
		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 device if desired.

🔓 Home security 🖇	
Details Configure	Test Troubleshooting
Icon:	۵
Name:	Home security
Manufacturer:	DSC
Model Number:	All Models
Master Template:	DSC - All Models Change Device Template
Types:	Security Systems
Notes:	*DSC IT-100 Integration Module Required*
Version:	2.0.0
Last Modified	2014/10/29 20:19
•	

7. 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.

	25			v 😳 🧲
Name	Value	Ν	Mandatory	Description
General				
Intrusion System	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
Serial Baudrate	CLIQ.connect 3 Serial 1	Ar	no	The baud rate serial setting.
Serial Data Bits	CLIQ.connect 3 Serial 2 CLIQ.host Serial 1		no	The data bits serial setting.
Serial Parity	CLIQ.host Serial 2		no	The parity serial setting.
Serial Stop Bits	CLIQ.mini Serial 1	- r	no	The stop bits serial setting.

8. 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.

8	*DSC Security Pa	artition 🔀	
			÷
C	etails Configure	Test	
	Icon:	۵	
	Name:	Main House - Partition 1	
	Manufacturer:	DSC	=
	Model Number:	All Models	
r	laster Template:	DSC Security Partition Change Device Template	
	Types:	Security Systems	
	Notes:		•

- 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.

*DSC Security Partition	ו 🛙		
etails Configure Test			
Configuration Prope	rties		
Name	Value	Mandatory	Description
Intrusion Partition			
Partition Number	1	yes	The partition number within the intrusion system (1 base

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

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**.

DSC - All Models - De	evice Wizard	$\otimes$
Child devices to add		
DSC Security Zone	1	Minimum: 1 Maximum: 256.
Remaining	255	
		Ok Cancel

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

- 4. Click OK.
- 5. Repeat steps 1 through 4 for each additional 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.

DSC Security Zor	ne 1 💥 🖓 🖓
	🗟 🗟 🗟 🔂
Details Configure	Test
Icon:	
Name:	DSC Security Zone 1
Manufacturer:	DSC
Model Number:	All Models
Master Template:	DSC Security Zone Change Device Template
Types:	Security Systems
Notes:	

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  $\blacksquare$ .

#### 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 Par	tition - Device Wizard	$\otimes$
Child device	es to add	
Zone 1	2	Minimum: 0 Maximum: 127 .
Remaining	125	
		Ok Cancel

- 4. Click OK.
- 5. Repeat steps 1 through 4 for each additional zone in each partition.

### To create a service for a partition:

1. Click on the security partition, and then click the **New Service Instance button 1** to display the Create Service dialog.

		$\otimes$
ОК	Cancel	Open Wizard
		OK Cancel

2. Click **Open Wizard** to display the Service Instance dialog. Click Intrusion Partition Service, and then click **Next**.

🗵 New Service Instance	$\otimes$
Service Devices	
Name: DSC Security Partition Area:	*
Notes:	
Service Definition:	
type filter text	
Distributed Audio Service v2.0.0	
Distributed Audio Service v2.0.1	
Door Entry Service v1.0.0	
Door Lock Service v1.0.0	
📩 Entertainment Service v1.0.0	
Entertainment Service v2.0.0	
🚂 Fireplace Service v1.0.0	
Garage Service v1.0.0	
Gate Service v1.0.0	=
Intrusion Partition Service v1.1.0	
Intrusion Service v1.0.0	
Lighting Dimmer Service v1.0.0	
📲 Lighting Keypad Service v1.0.0	
📲 Lighting Keypad Service v2.0.0	
P Lighting Summary Service v1.0.0	
Music Overview Service v1.0.0	
h Play Audio Service v1.0.0	•
App Module: Security	
- <bac< td=""><td>k Next&gt; Cancel Finish</td></bac<>	k Next> Cancel Finish

3. Fusion displays a checkmark for the selected partition and its zones. If not, select the partition name and zones on the left side of the window.

Compatible Selected (6) All	Req Control Point	Device	Use
	* Intrusion Partition	DSC Security Partition	
pe filter text	Zone	Partition 1, Zone 1	
Living Room	Zone	Partition 1, Zone 2	
🔲 🔲 Kitchen	Zone	Partition 1, Zone 3	
🔲 Guest Suite	Zone	Partition 1, Zone 4	
Family Room	Zone	Partition 1, Zone 5	τ.
Entry	Zone	Partition 1, Zone 1	
Unassigned Devices	Zone	Partition 1, Zone 2 Partition 1, Zone 3	=
DSC - CLIQ	Zone	Partition 1, Zone 4	
DSC Security Partition	Zone	Partition 1, Zone 5	*
Partition 1, Zone 1	Zone		
Partition 1, Zone 2	Zone		
Partition 1, Zone 2	Zone		
Partition 1, Zone 4	Zone		
Partition 1, Zone 4	Zone		
	Zone		
DSC Security Partition 2	Zone		
Partition 2, Zone 1	Zone		
Partition 2, Zone 2	Zone		
Partition 2, Zone 3	Zone		
📄 🖀 DSC -Other	Zone		
DSC Security Partition	Zone		
DSC Security Zone	Zone		
	Zone		
	Zone		

- 4. Set the control points for your partition and zones. On the right side of the window, click inside the **Devices** field, and then select a zone from the dropdown list.
- 5. Click **Finish**.
- 6. Deploy your project.

# Configuring rules with the DSC panel

Configure a rule for the DSC panel.

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 <u> Rules</u> 🆏 Z-Wave	🗱 Troubleshooting	- 8
		S C 🖻 🔵
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.



4. Configure the Event Part as below.

Event Type: Device Property Value Event

Device: DSC device

Function: Intrusion Partition

Property: Arm Away

Constraint: =

Value: ArmedAway

Event Part		
Event Type:	Device Property Value Event	T
Device:	- DSC All Models DSC - All Models (device)	
Function:	Intrusion Partition	Ψ.
Property:	Armed Away	Ψ.
Constraint:	=	•
Value:	ArmedAway	Ŧ

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	
Device:	Living Room - Clare Controls CL-MNS Sys 2 Switch	
Function:	Switch	
Operation:	Turn Off ()	

6. Click **Save** 🔜, and then deploy the project.

# User interface example

The following figures show the controls in the ClareHome app.

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



# **Contact information**

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