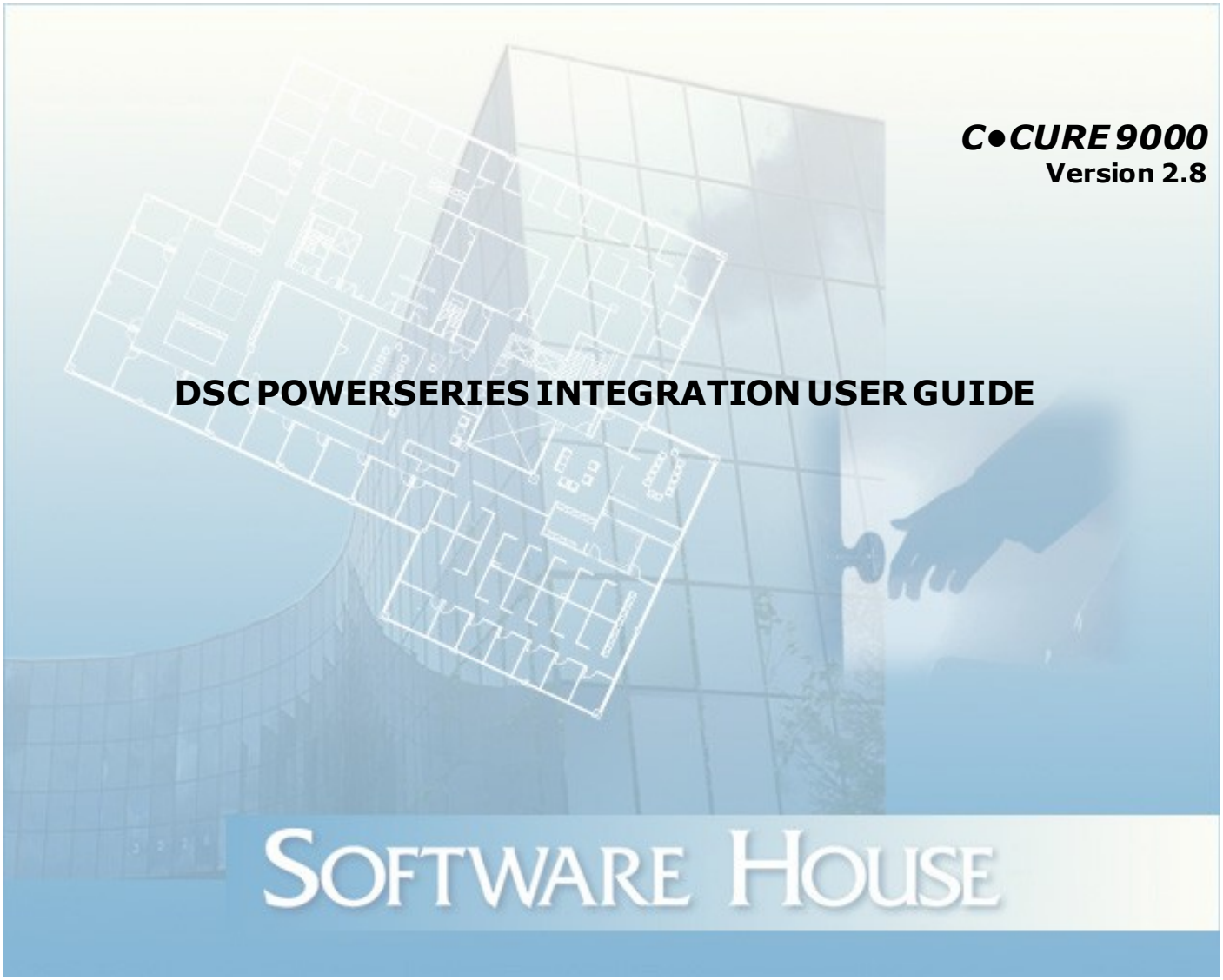
SOFTWARE HOUSE

From Tyco Security Products



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Preface

The DSC PowerSeries Integration User Guide is for new and experienced DSC PowerSeries system users. The manual describes the features of the C•CURE 9000 and DSC PowerSeries Integration system.

In this preface

How to Use this Manual

This manual includes the following sections. Turn to the appropriate section for the information you need.

Chapter 2 Introduction

Provides basic information about this product.

Chapter 3 Installation

Provides instructions for installing the DSC PowerSeries Integration product.

Chapter 4 DSC Panel Editor

Describes how to use the DSC PowerSeries DSC Panel Editor to create &configure DSC panel in the C•CURE 9000 system.

Chapter 5 DSC Partition Editor

Describes how to edit DSC partition using the DSC Partition Editor.

Chapter 6 DSC Zone Editor

Describes how to edit DSC zone using the DSC Zone Editor.

Chapter 7 DSC Keypad Editor

Describes how to edit DSC Keypad using the DSC Zone Editor.

Chapter 8 Event & Action

Describes new actions designed for DSC PowerSeries system and how to configure these actions.

Chapter 9 Monitoring DSC PowerSeries Activities

Describes how to monitoring DSC activities.

Chapter 10 DSC Journal Messages

Defines the Journal Messages you receive concerning the DSC PowerSeries Integration in C•CURE 9000.

Finding More Information

You can access C•CURE 9000 manuals and online Help for more information about C•CURE 9000.

You can access UDS 1100 manuals for more information about the third-party device-UDS1100.

Manuals

C•CURE 9000 software manuals are available in Adobe PDF format on the C•CURE 9000 DVD.

You can access the manuals if you copy the appropriate PDF files from the C•CURE 9000 Installation DVD English\Manuals folder and install the Adobe Acrobat Reader. Adobe Acrobat Reader can be installed from the C•CURE 9000 Installation DVD English\Reader folder.

The available C•CURE 9000 and Software House manuals are listed in the C•CURE 9000 *Getting Started Guide* **Product Guide and Help** section, and appear as hyperlinks in online.pdf file on the C•CURE 9000 DVD in the English\Manuals folder.

These manuals are also available from the Software house Member Center website (http://membercenter.swhouse.com/home/default.aspx).

UDS1100 manuals are available in Adobe PDF format on the UDS1100 DVD.

These manuals are also available from Documentation website (http://lantronix.com/support/documentation.html).

Online Help

You can access C•CURE 9000 Help by pressing F1 or click **Help** from the menu bar in the Administration/Monitoring Station applications.

Windows Help

You can get help for the Windows products by selecting Help from the specific Windows **Start** menu or by going to the Microsoft website at www.microsoft.com.

Conventions

This guide uses the following text formats and symbols.

Convention	Meaning
Bold	This font indicates screen elements, and also indicates when you should take a direct action in a procedure. Bold font describes one of the following items: ▪ A command or character to type, or ▪ A button or option on the screen to press, or ▪ A key on your keyboard to press ▪ A screen element or name
Regular italic font	Indicates a new term.
<text>	Indicates a variable.

The following items are used to indicate important information.

NOTE Indicates a note. Notes call attention to any item of information that may be of special importance.

TIP Indicates an alternate method of performing a task.

Indicates a caution. A caution contains information essential to avoid damage to the system. A caution can pertain to hardware or software.

Indicates a warning. A warning contains information that advises users that failure to avoid a specific action could result in physical harm to the user or to the hardware.

Indicates a danger. A danger contains information that users must know to avoid death or serious injury.

2

Introduction

This chapter introduces the C•CURE 9000 DSC PowerSeries Integration software that provides integration between the DSC PowerSeries Security System and C•CURE 9000.

In this chapter

Overview

The C•CURE 9000 DSC PowerSeries Integration provides advanced, seamless integration with the DSC PowerSeries Security System, allowing customers to monitor their important intrusion system devices from the C•CURE 9000 Monitoring station, monitor panel status, and arm/disarm partition(s) from Administration Station.

The general DSC PowerSeries Security System is made up of DSC control Panels, one or more keypads and various sensors and detectors. All the keypads have an audible indicator and command entry key. They are used to send commands to the system and to display the current system status. The security system has several zones of area protection, and each of these zones is connected to one or more sensors (Motion detectors, door contacts, etc.). A sensor in alarm will be indicated by corresponding zone.

The interface can be used by C•CURE 9000 to access DSC Control Panels through the IT-100 data integration module, which provides an Application Programming Interface to allow third-party applications to communicate with the PowerSeries Security System.

The union of this high-end DSC PowerSeries product and the C•CURE 9000 through the Software House C•CURE 9000 Connected Program Kit provides extensive system integration opportunities. It allows you to import a DSC Control Panel configuration and acquire DSC Control Panel status changes. Partition and Zone status and all alarms, troubles, and emergency information from the DSC PowerSeries Security System are stored in C•CURE 9000's detailed journal. The integration also provides a virtual keypad as a convenience.

NOTE To change the configuration in actual DSC panel, the only way is by actual keypad or virtual keypad.

Features

The following is a list of major features supported by C•CURE 9000 DSC PowerSeries Integration:

- Support PC1864/PC1832/PC1616 panels
- Support DSC panel Remote management through Lantronix device
- Communication with DSC panel, journal and acquisition of panel, partition and zone status
- Arm and disarm partition
- Automatically get partition zone mapping
- Import panel configuration, and show partition and zone mapping
- Virtual Keypad
- Implement arm/disarm partition, Fire/Auxiliary/Panic alarm, command output actions
- Provide partition dynamic view in monitoring station

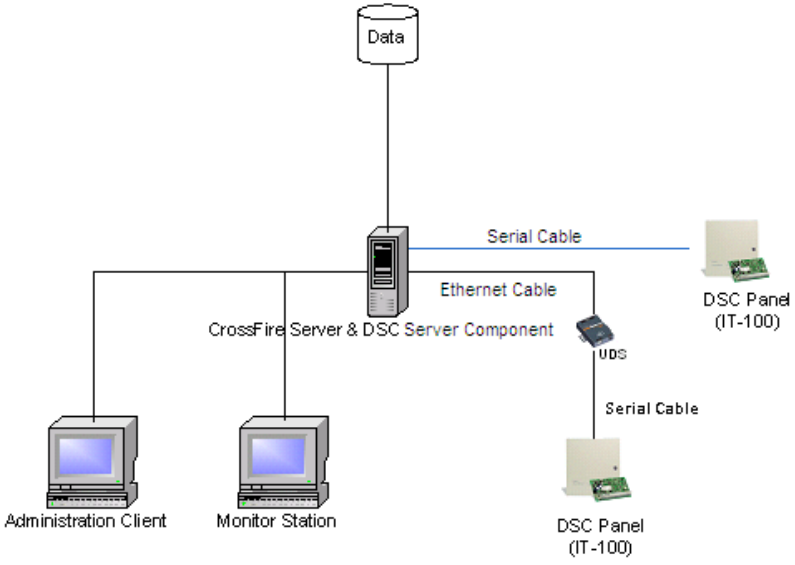
Architecture

The objective of the C•CURE 9000 DSC PowerSeries Integration software is to provide a standard interface between the DSC PowerSeries product family and C•CURE 9000 via an RS-232 serial port. The interface listens to DSC PowerSeries unsolicited messages and communicates them to C•CURE 9000. C•CURE 9000 processes these messages and communicates them to users as object state changes, activities, events, and alarms, according to the way the DSC PowerSeries objects in the C•CURE 9000 database are configured.

The DSC PowerSeries Integration Interface gives you the ability to import a DSC panel's configuration in C•CURE 9000, and arm/disarm partitions. The DSC PowerSeries Integration interface also listens to DSC PowerSeries product unsolicited messages and processes them into C•CURE 9000 Journal messages.

You can access the DSC PowerSeries Integration interface on the C•CURE 9000 Administration Client by clicking **Hardware** button. The hardware pane opens and you can access an existing DSC panel or create a new one.

Figure 2-1: DSC PowerSeries Integration Architecture



3

Installation

This chapter provides instructions for installing the DSC Integration software on a C•CURE 9000 server or client system.

In this chapter

Installation Overview

Before installing the C•CURE 9000 DSC PowerSeries Integration software, you must first install C•CURE 9000 software on your target computer. For information on installing C•CURE 9000, refer to the *C•CURE 9000 Installation and Upgrade Guide*.

Similar to the C•CURE 9000 system, the DSC Integration has Client and Server components. You must install the Client components on every computer that runs C•CURE 9000 client applications, and you must install the Server components on the C•CURE 9000 server computer. The DSC integration has the same hardware, software, and disk space requirements as C•CURE 9000; if the target computer can install C•CURE 9000, then it satisfies DSC Integration requirements.

A wizard prompts you to install the C•CURE 9000 DSC PowerSeries Integration. You need to perform the basic installation process described in the following pages on each computer in your C•CURE 9000 system. Be sure to close all C•CURE 9000 and virus-checking applications on client workstations before performing the installation.

Table 3-1 on page 3-2 lists the steps to install and register the C•CURE 9000 DSC PowerSeries Integration on each computer in your C•CURE 9000 system. Perform these steps in order.

Table 3-1: Standard Installation Tasks

Task	See...
1. Install C•CURE 9000.	*C•CURE 9000 Installation and Upgrade Guide*
2. Close any open applications and disable virus checking software.	
3. Perform the pre-installation steps.	"Before You Begin" on page 3
4. Start the C•CURE 9000 DSC PowerSeries Integration installation program.	"Installing the DSC PowerSeries Integration Interface" on page 4
5. Verify the license for the DSC software by running the License program on your C•CURE 9000 server.	*C•CURE 9000 Installation and Upgrade Guide*
6. When the Installation and registration are complete, restart the C•CURE 9000 services.	

Before You Begin

You may need to perform some pre-installation steps before you install the C•CURE 9000 PowerSeries DSC Integration.

Checking Networks Status

If you are installing C•CURE 9000 on a corporate network, be sure to coordinate with your corporate network administrator. Check that the network is working properly.

Checking System Privileges

To perform the installation, you must have appropriate Windows permissions. You must be in the local Administrators group, or have equivalent privileges. See the Microsoft Operating System documentation or your system administrator for more information.

If you do not have sufficient permissions, the following error message will appear.

Figure 3-1: Privileges Error Message

Database Installation

If you are installing server components of the C•CURE 9000 DSC PowerSeries Integration, the C•CURE 9000 DSC PowerSeries Integration will add some tables to the C•CURE 9000 database. Currently, the C•CURE 9000 DSC PowerSeries Integration does not support installation with C•CURE 9000 on an Oracle Database. Therefore, you must install on a C•CURE 9000 system that is using SQL Server 2005. The C•CURE 9000 DSC PowerSeries Integration install program automatically finds the C•CURE 9000 database and adds tables and initial data to it.

Installing the DSC PowerSeries Integration Interface

You can install the C•CURE 9000 DSC PowerSeries Integration on a local computer either from a local DVD drive or from a shared drive over a network.

NOTE If you use SQL Server 2005 Express Edition, you must have TCP/IP enabled and must have the Browser service running.

To Install on a Local Computer

1. Log into the Server or Client with Windows administration privileges.
2. Insert the Connected Program DVD for the C•CURE 9000 DSC PowerSeries Integration into the system drive.
3. If the installation launch screen does not display automatically, navigate to the root folder of the DVD and double-click DSCPowerSeries_DVD.exe.

To Install over the Network

1. Log into the server or client with the appropriate Windows privileges.
2. Insert the Connected Program DVD for the C•CURE 9000 DSC PowerSeries Integration into the shared drive on another machine.
3. From your system, map a share to the shared DVD drive over the network.
4. Run the DSCPowerSeries_DVD.exe application from the root folder of the mapped drive.

NOTE For information about sharing DVD drives, refer to your Microsoft documentation or see your system administrator.

Running the Setup Program

To install the C•CURE 9000 DSC PowerSeries Integration, run the DSCPowerSeries_DVD.exe program in the root folder of the C•CURE 9000 Connected Program DVD.

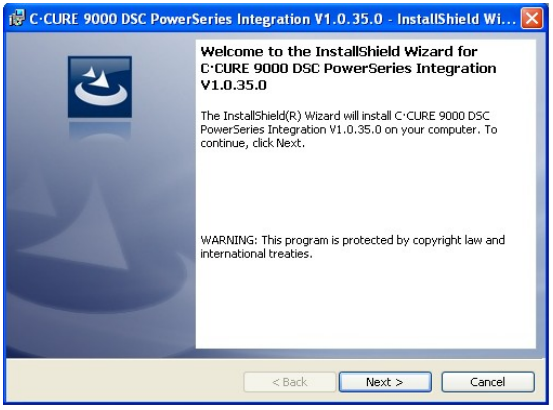
To Run the Setup Program

1. Place the Connected Program DVD in the DVD drive. The DSC PowerSeries Integration dialog will automatically appear.
2. Select Install DSC PowerSeries Driver, as shown in Figure 3-2 on page 3-5.

Figure 3-2: DSC PowerSeries Integration

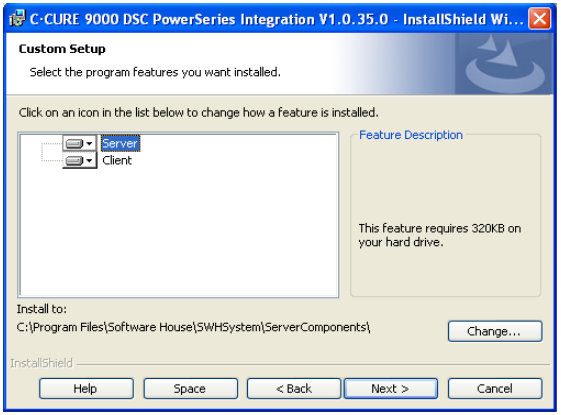
The Setup program then checks the system to see if it meets minimum requirements. If minimum requirements are met, a Welcome dialog box opens, as shown in Figure 3-3 on page 3-5.

Figure 3-3: Welcome Dialog Box



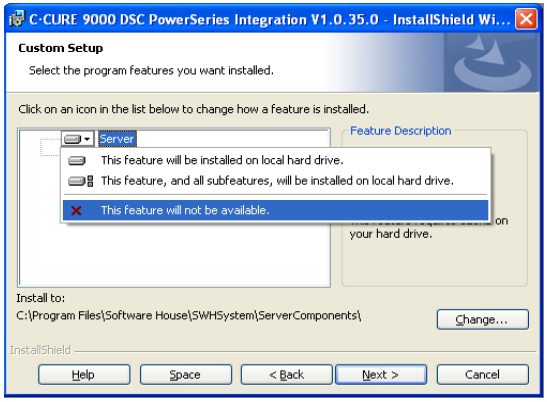
3. Click **Next** to continue the installation. The Custom Setup dialog box opens, as shown in Figure 3-4 on page 3-6. You can select the program features you want to install. You can also click the **Change** button to choose an installation path.

Figure 3-4: Custom Setup Dialog Box



If you don't want to install the **Server**, click to the left of the **Server** and select **Entire feature will be unavailable**. See Figure 3-5 on page 3-6

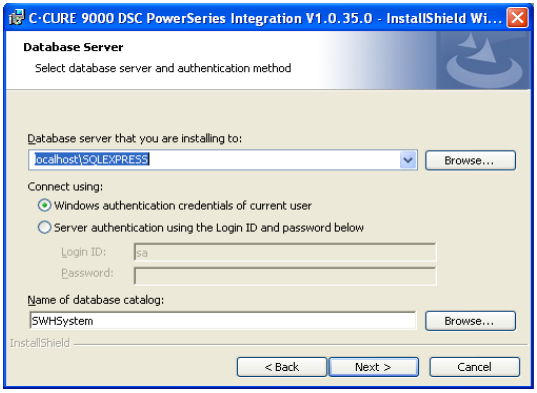
Figure 3-5: Select features



Use the same method if you don't want to install the **Client**.

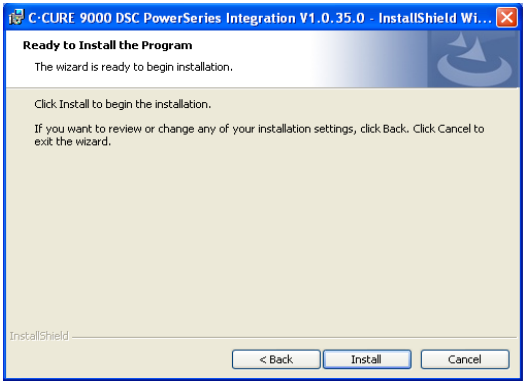
4. Click **Next** to continue the installation. A Database Server dialog box opens, as shown in Figure 3-6 on page 3-7. Click the Browse button to select a Database server you want to install to and click **Next**.

Figure 3-6: Setup Type Dialog Box



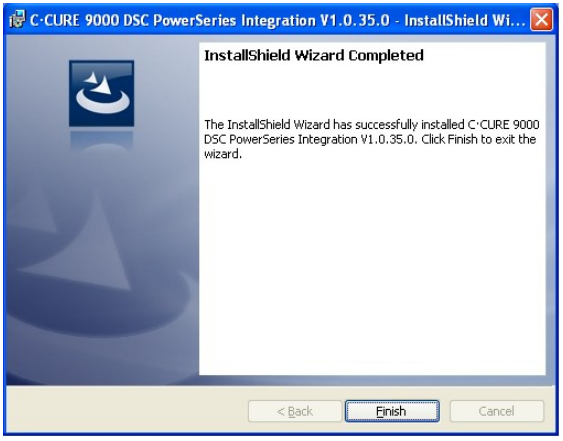
5. After you select the program features and the installation path, click **Next** to continue. The Ready to install C•CURE 9000 DSC PowerSeries Integration dialog box appears, as shown in Figure 3-7 on page 3-7. Click **Install** to start the installation.

Figure 3-7: Ready to Install Dialog Box



6. After a few minutes, the Installation Complete dialog box appears (See Figure 3-8 on page 3-8).

Figure 3-8: Installation Complete Dialog Box



7. Click **Finish** to complete the installation process.
8. After finishing installation, restart the CrossFire and CrossFire Server Component Framework services.

Starting the Server Components

Before you can import a DSC panel configuration, you must start the DSC Integration server component using the C•CURE 9000 Server Management Application **Server Components tab**.

1. From the Start Menu, select **Start>All Programs>Software House>Server Configuration**. The C•CURE 9000 Server Management Application opens.
2. Click the **Server Components** tab.
3. Right-click **ConnectedPro.HardwareInterface.DSCIntegration Interface** and select **Start Server Component** from the context menu.
4. When the server component icon for DSC PowerSeries Integration changes from disabled to enabled, you can use the DSC PowerSeries Integration.

Uninstalling the DSC PowerSeries Integration Interface

This section describes how to uninstall the C•CURE 9000 DSC PowerSeries Integration software from the Server computer and from each Client computer in your security system.

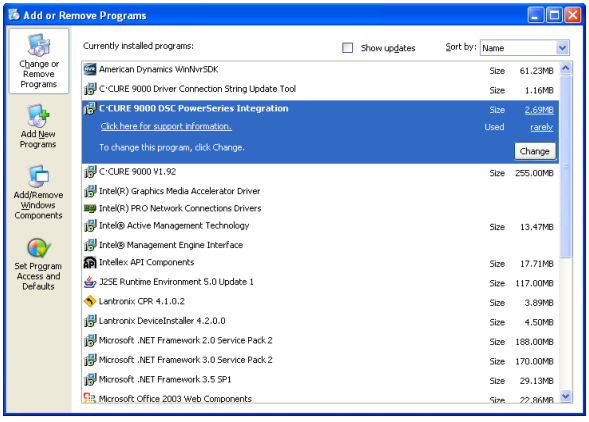
The Uninstall process removes all software components that were installed on the computer by the C•CURE 9000 DSC PowerSeries Integration software program.

Once the uninstall process completes, the computer will be in a "clean" state.

To Uninstall DSC PowerSeries Integration

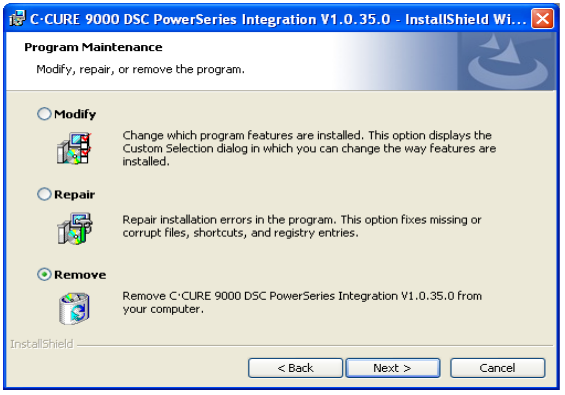
1. On the Windows Start menu, select Settings>Control panel.
2. Double-click Add/Remove Programs. The Add/Remove Programs dialog box appears (see Figure 3-9 on page 3-9).

Figure 3-9: Add/Remove Programs



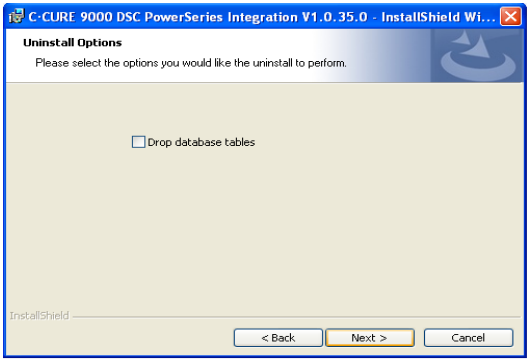
3. Select **C•CURE 9000 DSC PowerSeries Integration** from the list.
4. Click **Change**. After a while, the Program Maintenance dialog box opens, as shown in Figure 3-10 on page 3-10

Figure 3-10: Program Maintenance Dialog Box



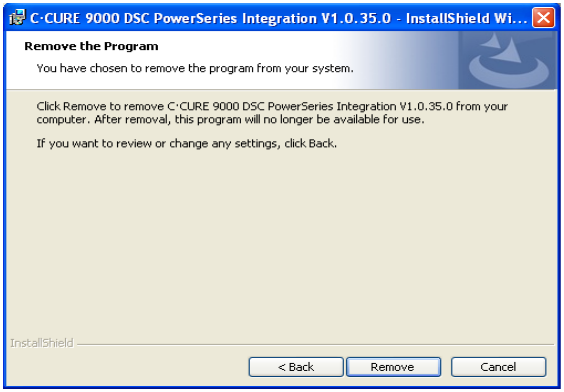
5. Select **Remove** and click **Next**. A dialog box appears for you to choose whether to drop DSC PowerSeries Integration database tables or not. If yes, select the box. If not, deselect the check box, then click **Next**.

Figure 3-11: Dropping Database or not.



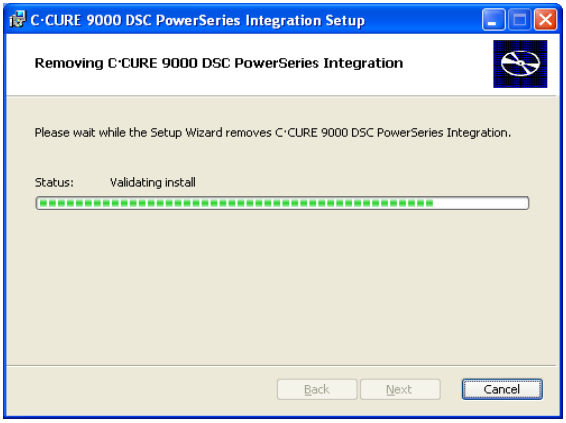
6. The **Remove the Program** dialog box opens. (See Figure 3-12 on page 3-11). Click **Remove** to continue the uninstallation.

Figure 3-12: Ready to Remove Dialog Box



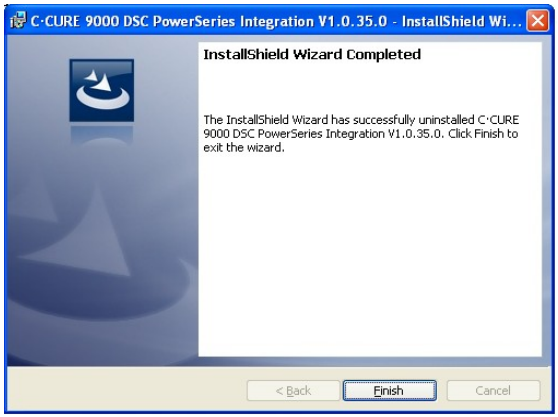
7. The Remove Process dialog box appears as shown in Figure 3-13 on page 3-11.

Figure 3-13: Remove Process Dialog Box



8. After a few minutes, the Installation Complete dialog box appears, as shown in Figure 3-14 on page 3-12, click **Finish** to uninstall the C•CURE 9000 DSC PowerSeries Integration.

Figure 3-14: Uninstall finish



4

DSC Panel Editor

This chapter provides information about the DSC Panel Editor.

In this chapter

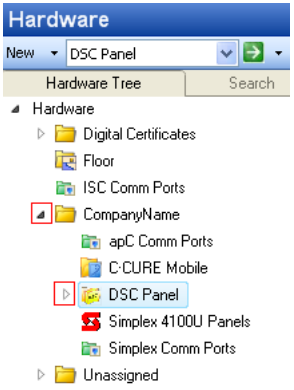
DSC Panel Overview

DSC panel in C•CURE 9000 refers to the real DSC hardware. It can be imported to C•CURE 9000 via the DSC Panel dialog as described below. Once the import (synchronization) is done, the dialog will show the software version, partition and zone information.

Accessing the DSC Panel

To Access a Configured DSC Panel

1. In the navigation pane of the C•CURE 9000 Administration Station, click **Hardware**. The **Hardware** pane opens.
2. Open the **Company Name** folder by clicking ▷ to the left of the folder.



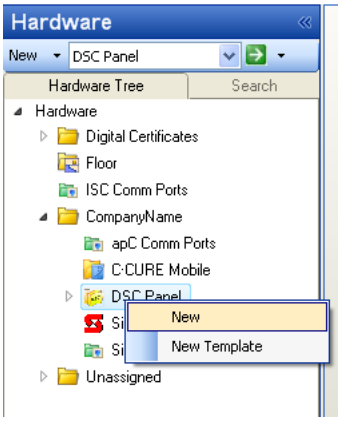
3. Open the **DSC Panel** folder by clicking ▷ to the left of the folder.
4. To open the DSC Panel Editor, right-click the DSC icon or name and select Edit. The DSC panel editor opens with the **General** tab visible.

   You can also access a DSC Panel in a dynamic view. See Step4 in "Configuring a DSC Panel" on page 4.

Creating a DSC Panel

To Create a DSC Panel

1. In the Navigation pane of the C•CURE 9000 Administration Station, click **Hardware** to open the Hardware Pane.
2. Right-click the company name folder in the Hardware pane tree. (Alternatively, you can create a new hardware folder to contain your DSC panel by right-clicking Hardware and choosing **New Folder**.)
3. Select DSC Panel and click **New**.



4. The DSC Panel editor opens. Enter a name for the panel in the Name field.
5. Enter the communication information.

If C•CURE 9000 server connected to DSC panel by the serial port on IT-100 module, check **Serial Port** and then enter COM port number and baud rate (default baud rate is 9600); if C•CURE 9000 server connected to DSC panel by network port, check **Network Port** and then enter IP address and TCP port. See "DSC Panel General Tab Definitions" on page 6 for details.

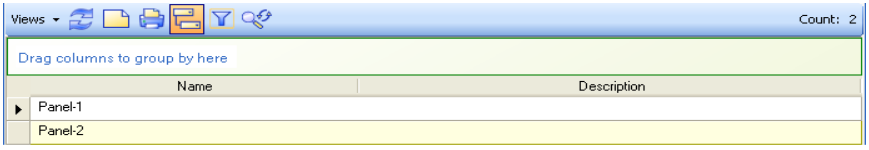
Enter Installer Code of this panel.

6. Make a further configuration for this panel, see "Configuring a DSC Panel" on page 4.
7. Click Save and Close to save and exit.

Deleting a DSC Panel

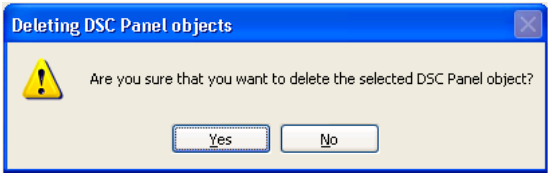
To Delete a DSC Panel

1. In the Navigation pane of the Administration Station, click **Hardware** to open the Hardware pane.
2. Select DSC Panel from the Hardware pane drop-down list.
3. Click to open a Dynamic View showing all DSC Panel objects.



4. In the list, right-click the DSC panel that you want to delete and select **Delete** from the context menu.

   A message box appears stating "Are you sure that you want to delete the selected DSC Panel object?".

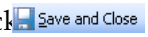


5. Click **Yes** in the message box to delete the panel.

Configuring a DSC Panel

To Configure a DSC Panel

1. In the Navigation pane of the Administration Workstation, click **Hardware** to open the Hardware pane.
2. Right-click on a **DSC Panel** created in the previous section and select Edit.
3. Type an optional textual description for the Panel in the **Description** field.

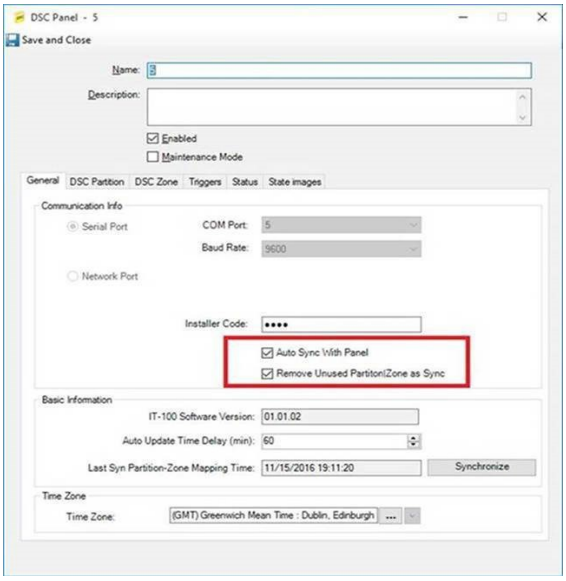
4. Click the **Enabled** option to establish communication between C Cure9000 and the DSC panel.
5. Click the **Synchronize** button. The configuration details of the DSC panel will be imported to C Cure9000.
6. You can click the Triggers tab to configure Triggers for the DSC panel. See "Defining a Trigger for a DSC Panel" on page 13.
7. You can click the State Images tab to view the state images for DSC Panel. See "Customizing State Images for a DSC Panel" on page 17.
8. When you finish editing the Panel, click 

to save the configuration.

DSC Panel-General Tab

As shown in Figure 4-1 on page 4-6, the DSC General tab lets you configure communication information, basic information and time zone of the panel.

Figure 4-1: DSC Panel General Tab



DSC Panel General Tab Definitions

Table 4-1 on page 4-6 provides definitions for the fields on the DSC Partition **General** tab.

Table 4-1: DSC Panel General Tab Definition

Field	Description
Name	Enter a unique name up to 50 characters long for the DSC panel.
Description	Enter a general comment about the Panel.
Enabled	Select this option to establish the communication between C•CURE9000 and DSC panel. Note: If you can't enable it successfully, please check your connection. Clear this option to disable the DSC panel.

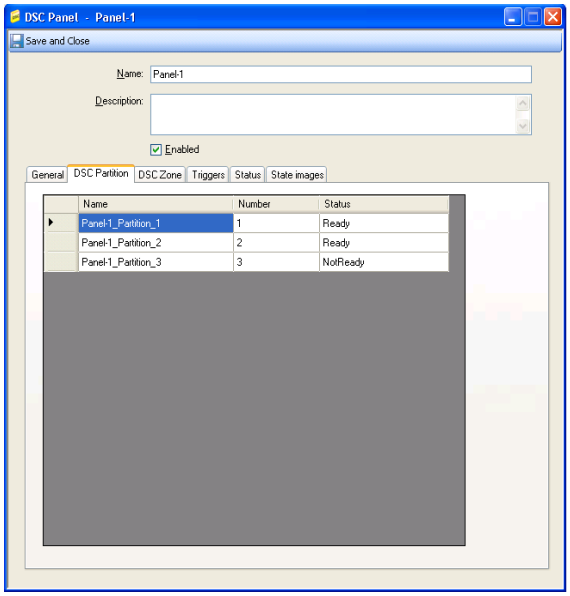
Field	Description
Communication Info	
Serial Port	In the COM Port drop-down list, select the COM Port number connected to serial port of IT-100 module, with which the DSC panel communicates with the DSC hardware. In the Baud Rate drop-down list, select associated baud rate. The default baud rate is 9600.
Network Port	Type the IP address and TCP Port when you used UDS1100 to convert serial port of IT-100 module into a network port, with which C•CURE 9000 server can remote manage DSC panel. See "IP Address & TCP Port Configuration" on page 20 for detail information about configuration of IP Address and TCP Port.
Installer Code	Type the Installer code of this panel.
Auto Sync With Panel	Select this check box to automatically synchronize the panel configurations from the panel to C•CURE 9000 when the panel comes online. **Note:** Automatic synchronization with panel occurs after the panel's communication is restored. If you do not select this check box, you must manually synchronize the panel configurations from the panel to C•CURE 9000.
Remove unused Partition | zone as sync	Select this check box to remove unused partitions from the C•CURE 9000 database. The unused partitions are removed while synchronizing with panel. If you do not select this check box, the unused partitions remain in the C•CURE 9000 database even after they are set as **unused** in the panel.
Basic Information	
Software Version	Displays the Software Version of this panel.
Auto Update Time Delay(min)	Displays the time interval for updating the date and time in the DSC system.
Last Syn Partition-Zone Mapping Time	Shows the specific time when you last synchronized the partition and zone mapping.
Synchronize	Click this button to synchronize the partition and zone mapping from DSC hardware when it is connected to C•CURE 9000.

Field	Description
Time Zone	
Time Zone	Displays the current time zone configured on DSC panel or configures the time zone for this DSC panel.

DSC Panel-DSC Partition Tab

As shown in Figure 4-2 on page 4-9, the DSC Partition tab shows the basic information of the partition in the panel, such as name, number and status. One panel can include up to 8 partitions.

Figure 4-2: DSC Panel-DSC partition Tab



DSC Panel-DSC Partition Tab Definitions

Table 4-2 on page 4-9 provides definitions for the fields on DSC partition tab of the DSC panel.

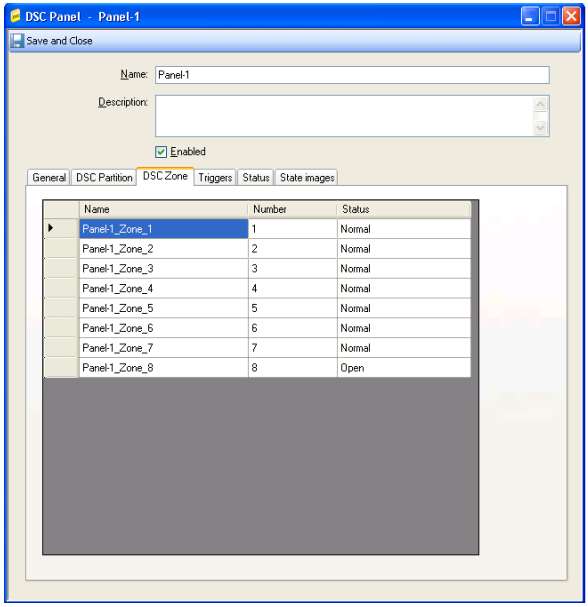
Table 4-2: DSC Panel-DSC Partition Tab Definitions

Field	Description
Name	Displays the name of the partition.
Number	Displays the number of the partition.
Status	Displays the status of the partition.

DSC Panel-DSC Zone Tab

As shown in Figure 4-3 on page 4-10, the DSC Zone tab shows the basic information of the zone in the panel, such as name, number and status.

Figure 4-3: DSC Panel-DSC Zone Tab



DSC Panel-DSC Zone Tab Definitions

Table 4-3 on page 4-10 provides definitions for the fields on DSC zone tab of the DSC panel.

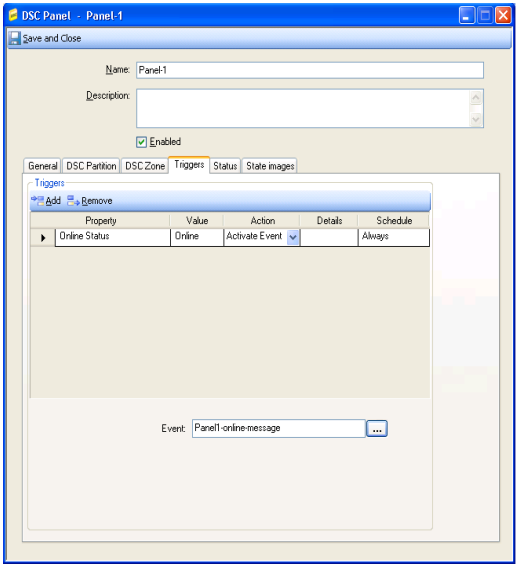
Table 4-3: DSC Panel-DSC Zone Tab Definition

Field	Description
Name	Displays the name of the zone.
Number	Displays the number of the zone.
Status	Displays the status of the zone.

DSC Panel-Triggers Tab

C Cure9000 uses Triggers, which are configured procedures for activating events based on properties of an object. A Trigger automatically executes a specified Action when a particular predefined condition occurs. Figure 4-4 on page 4-11 shows the DSC Panel Trigger tab.

Figure 4-4: DSC Panel Triggers Tab



The following table contains an example of how a Trigger is configured.

Table 4-4: Trigger Tab Setting Example

The following Triggers tab settings				
Property	**Value**	**Action**	**Details**	**Schedule**
Online Status	Online	Activate Event	Partition Arm	Always
Would create the following Trigger: Anytime (Always **Schedule**) the Online Status (**Property)** equals Online (**Value)**, activate the event (**Action**) named Partition Arm (**Details**). Partition Arm is an event you select in the **Event** field. For information about how to create and configure an event, see the *C•CURE 9000 User Software Configuration Guide*				

DSC Panel Triggers Tab Definitions

Table 4-5 on page 4-12 provides definitions of DSC Panel Triggers tab.

Table 4-5: DSC Panel Triggers Tab Definitions

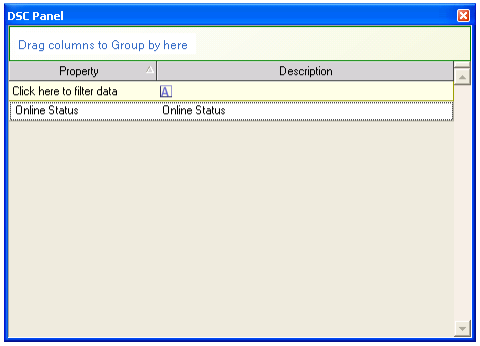
Field	Description
Add	Click Add in the Triggers tab to create a new trigger.
Remove	Click Remove in the Triggers tab to delete a new trigger.
Property	Click within the Property column, and then click ... . The Property browser opens presenting properties available for the Panel. Click a Property to select it and add it to the column. The available property is Online Status.
Value	Click within the Value column to display a drop-down list of Values associated with the Property that you have selected. Click a Value you want to include as a parameter for the trigger to assign it to the column. Possible values are: • Online - The DSC panel is online. • Offline - The DSC panel is offline.
Action	Click within the Action column to display a drop-down list of valid actions. Click on Action that you want to include as a parameter for the trigger to add it to the column.

Field	Description
Details	Displays details about how the Action was configured.
Schedule	Only the **Always** Schedule is available for DSC panel triggers.

Defining a Trigger for a DSC Panel

To Define a Trigger for DSC Panel

1. From the DSC Panel dialog box, navigate to the Triggers tab.
2. Click Add in the Trigger tab to create a new trigger.
3. Click ... within the **Property** column to open the **DSC Panel** dialog box showing Properties available for the Panel.



4. Click a Property to select it and add it to the **Property** column.
5. Click within the **Value** column to display a drop-down list. Click the Value that you want to include as a parameter for the trigger to add it to the column.
6. Click within the Action column to display a drop-down list of valid actions. Now only **Activate Event** is available.

   When you select an **Action**, the lower pane in the Trigger box displays an Event field for you to define the Action details.

   Click ... to open Event Dialog. Select an Event that you want to associate with the trigger.

Once you define the Action details, the Details column displays information about how the Action has been configured.

7. Click Save and Close to save the DSC Panel with the Trigger you configured.

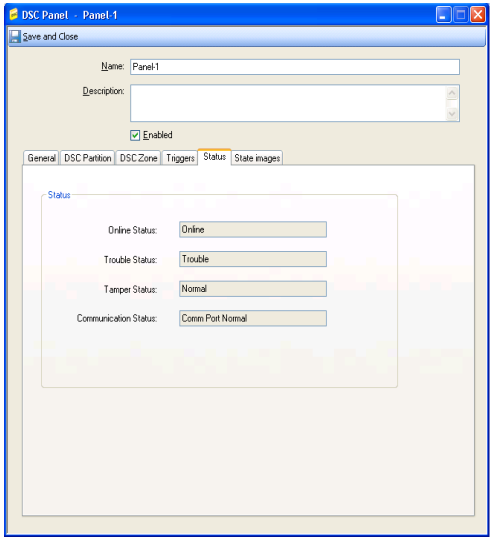
To Remove a Trigger

1. From the DSC Panel dialog box, navigate to the Trigger tab.
2. Use to select the row in the Trigger table for the Trigger you want to remove.
3. Click Remove.
4. Click Save and Close to save and exit.

DSC Panel-Status Tab

As shown in Figure 4-5 on page 4-15, DSC Panel Status tab provides read-only status information about the DSC panel.

Figure 4-5: DSC Panel Status Tab



DSC Panel Status Tab Definitions

The Status field displays the current status information of the Online Status, Trouble Status, Tamper Status and Communication Status.

Table 4-6 on page 4-15 provides DSC Panel Status tab definitions.

Table 4-6: DSC Panel Status Tab Definitions

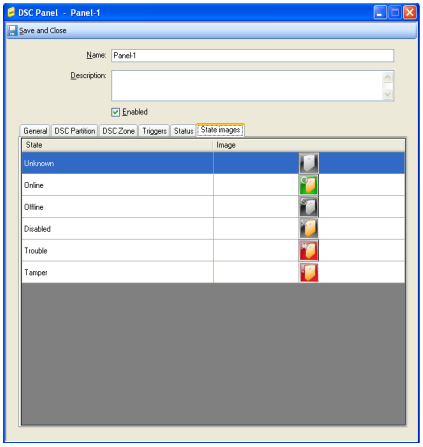
Field	Values	Definitions
Online Status	Online	The panel is online.
	Offline	The panel is offline.
	Disabled	The panel is unavailable now.
Trouble Status	Trouble	The DSC panel is in trouble status and the trouble LED is ON.

Field	Values	Definitions
	Unknown	The DSC driver is shut down or disabled.
	Normal	The DSC panel is not in trouble status.
Tamper Status	Tamper	The system is tampered.
	Unknown	The DSC driver is shut down or disabled.
	Normal	The DSC panel is not in Tamper status.
Communication Status	Comm Unknown	The DSC driver is shut down or disabled.
	Comm Fail	The Com Port connection failed.
	Comm Normal	The Com Port connection is successful.

DSC Panel-State Images Tab

The State Images tab, shown in Figure 4-6 on page 4-17, provides a means to change the default images used to indicate the DSC panel states on the Monitoring Station.

Figure 4-6: DSC Panel State Images Tab



Customizing State Images for a DSC Panel

From the DSC Panel State Images tab, you can change the images that appear in the Monitoring Station to represent DSC Panels.

To Customize DSC Panel State Images

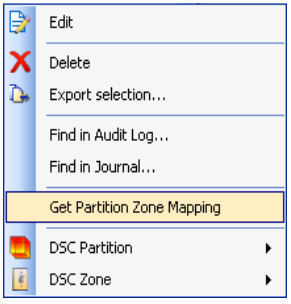
1. From the DSC Panel State Images tab, double-click the existing image. A **Windows Open** dialog box appears allowing you to browse for a folder in which you have placed replacement images.
2. When you locate the replacement image, select it and click **Open** to replace the default image with this image.
3. When you are done editing the DSC Panel, click Save and Close to save the Panel's configuration.

Get Partition Zone Mapping

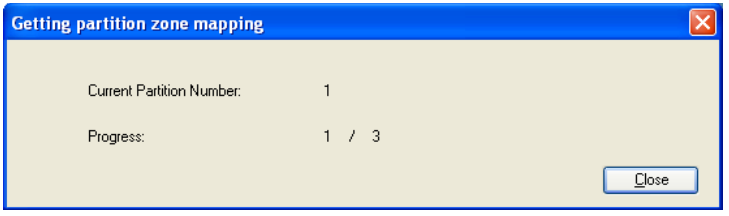
The partition zone mapping indicates the relationship between partitions and zones. The mapping relations are defined by section programming. You can acquire the partition zone mapping by using the **Get Partition Zone Mapping** function.

Get Partition Zone Mapping Example

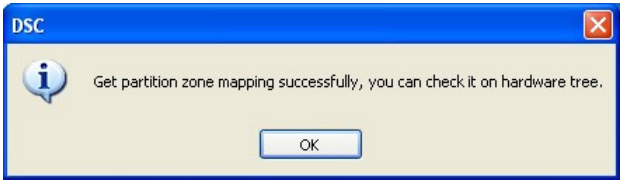
1. In the **Hardware** pane, click DSC Panel to open DSC Panel folder, and then select a desired panel.
2. Right-click this panel, then select **Get Partition Zone Mapping** in the context menu.



3. **Get Partition Zone Mapping** dialog opens to show the progress.



4. When this operation completed successfully, the following message box opens to inform that you can check this operation result on hardware tree.



5. To check partition zone assignment:

   Open a partition and navigate to DSC Zone tab, the zones assigned to this partition are displayed;
   Open a zone and navigate to DSC Partition tab, the partitions this zone assigned to are displayed.

NOTE When using this function, all partitions shouldn't be in alarm or armed. Also, the panel shouldn't be in section programming mode.

IP Address & TCP Port Configuration

In the DSC Panel General tab within the C Cure9000 Administration Client application, if you select **Network Port** to establish communication between the C Cure9000 DSC Panel and the DSC hardware, you must use the third party device to convert the serial port into network port. This is intended for users that will use third party UDS1100 hardware with the C Cure9000 DSC PowerSeries Integration system. This is a brief instruction on how to install the UDS1100 hardware device and how to use it to convert a serial port to network port. See *UDS1100 User Guide* for more information.

UDS1100 Hardware Device Installation

To install hardware, complete the following steps and see Figure 4-7 on page 4-21 and Figure 4-8 on page 4-21 for reference.

To Install the UDS1100 Hardware

1. Connect the Serial port of IT-100 to Serial port of UDS1100 unit by a "straight-through" RS-232 cable. Only the RX, TX and GND connections are used on IT-100.
2. Connect an Ethernet cable to the RJ45 port of UDS1100 unit.
3. For the UDS1100-POE version, power is supplied to UDS1100 unit over the Ethernet interface using an 802.3af POE-compliant power source, such as a POE midspan or POE Ethernet switch.
4. For a non-POE UDS1100 unit, supply power to the UDS1100 unit using the power supply that was included in the packaging.

NOTE The required input voltage for the non-POE DUS1100 is 9-30 VDC (center +) or 10-24 VAC (1.5W maximum power required).

Figure 4-7: UDS1100-POE Version Connected to Serial Port of IT-100 and Network

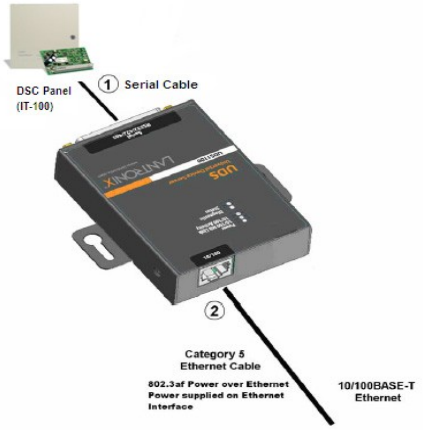
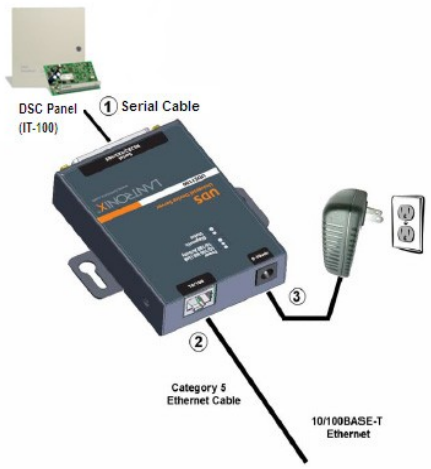


Figure 4-8: Standard UDS1100 Connected to Serial Port of IT-100 and Network



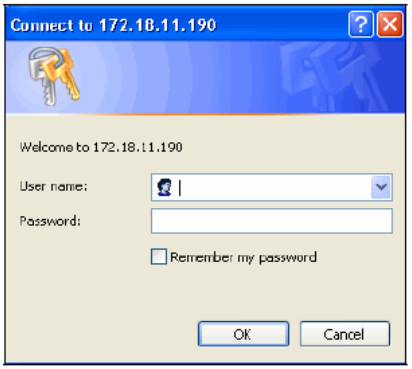
How to Assign IP Address and TCP Port

The following instructions assume you have installed Device Installer Utility. See *UDS1100 User Guide* for more information about Device Installer Utility.

To Assign IP Address

1. Open your Web Browser and type 172.18.11.190 in the Address Bar. (This is the default address.) The USD1100 prompts for a **User name** and **Password**, as shown in Figure 4-9 on page 4-22.

Figure 4-9: User Name and Password



2. Perform one of the following:

   If no Telnet password has been defined (default), leave both fields blank and click **OK**.

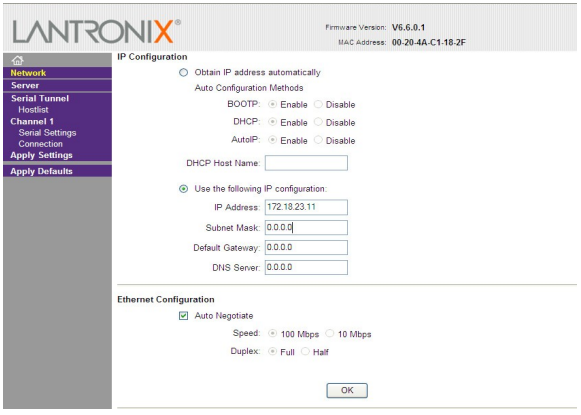
   If a Telnet password has been defined, leave the user name blank, type in the password, and then click **OK**.

   The Web-Manager displays, as shown in Figure 4-10 on page 4-23.

Figure 4-10: Lantronix Web-Manage

3. Select **Network** from the left main menu. The Network Setting page appears, as shown in Figure 4-11 on page 4-23.

Figure 4-11: Network Settings



4. In **Network Setting** page, you can assign an IP Address automatically or manually. The IP Address configured here is what you should enter in the IP Address field if you select **Network Port** in DSC Panel General tab.

   If you want assign an IP Address automatically:

a. Select **Obtain IP address automatically**.

b. Select the following options (as necessary). Below is a description of the options.

Options	Descriptions
BOOTP	Select **Enable** to permit the Bootstrap Protocol (BOOTP) server to assign the IP address from a pool of addresses automatically. **Enable** is the default.
DHCP	Select **Enable** to permit the Dynamic Host Configuration Protocol (DHCP) to assign a leased IP address to the UDS 1100 unit automatically. **Enable** is the default.
AutoIP	Select **Enable** to permit the UDS1100 to generate an IP in the 169.254.x.x address range with a Class B subnet. **Enable** is the default.
DHCP Host Name	Enter the name of the host on the network providing the IP address.

If you want assign an IP Address manually:

a. Select **Use the following IP configuration.**

b. Enter the following fields (as necessary). Below is a description of fields.

Fields	Descriptions
IP Address	If DHCP is not used to assign IP addresses, enter the address manually in decimal-dot notation. The IP address must be set to a unique value in the network.
Subnet Mask	A subnet mask defines the number of bits taken from the IP address that are assigned for the host part.
Default Gateway	The gateway address, or router, allows communication to other LAN segments. The gateway address should be the IP address of the router connected to the same LAN segment as the unit. The gateway address must be within the local network.
DHCP Server	The DNS server allows the name of a remote machine to be resolved automatically. Enter the IP address of the DNS server. If the device is DHCP enabled, the DHCP server provides the DNS server IP address, which

5. Select **Auto Negotiate** (as necessary). Below is a description of fields.

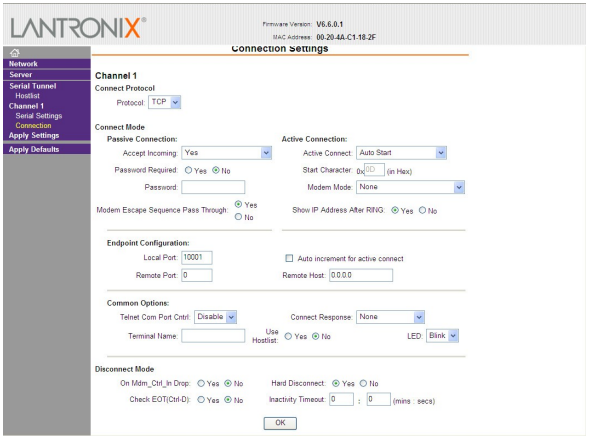
Fields	Descriptions
Auto Negotiate	With this option, the Ethernet port auto-negotiates the speed and duplex with the hardware endpoint to which it is connected. This is the default. If this option is not selected, **Speed** and **Duplex** become available: ▪ **Speed**: The speed of data transmission. The default setting is **100 Maps**. ▪ **Duplex**: The direction of data transmission. The default setting is **Full**.

6. Click **OK** to finish.

To Assign a TCP Port

1. In the Web-Manager page, select **Connection** from the left main menu. The **Connection Settings** page appears, as shown in Figure 4-12 on page 4-25.

Figure 4-12: Connection Setting



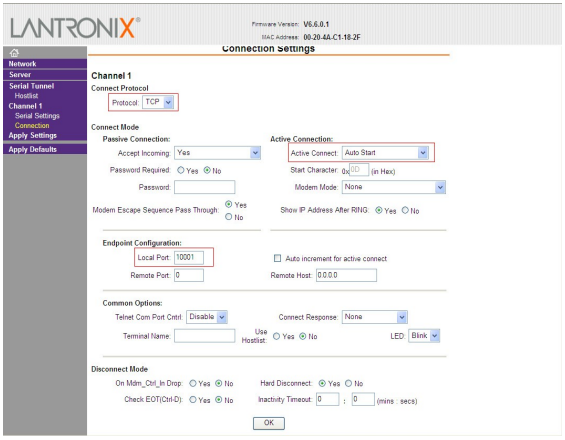
2. In **Connection Setting** page, make the following configuration, as shown in Figure 4-13 on page 4-26.

   Select TCP in the **Protocol** drop-down list.

Select **Auto Start** in the **Active Connect** drop-down list.

In the **Local Port** field, type the port number. This number is what you should enter in **TCP Port** field if you select **Network Port** in the DSC Panel General tab.

Figure 4-13: Connection Setting Reference



3. Click **OK** to finish.

5

DSC Partition Editor

This chapter explains how to configure a partition.

In this chapter:

DSC Partition Editor Overview

DSC Partition refers to a partition defined in the DSC hardware. The DSC Partition Editor shows the partition's details.

Accessing a Partition

To Access a Partition

1. Open the DSC Panel folder to which the partition you want to open belongs. See "Accessing the DSC Panel" on page 4-2.
2. Open the **Partition** folder by clicking ▷ to the left of the folder.

NOTE After you create a panel, a sub-folder, partition folder named **DSC Partition** will be automatically created. The partitions belonging to this panel are all included in this folder.

3. Select the Partition you want to open by double-clicking the Partition icon or name. The DSC Partition editor opens with the **General** tab visible.

Configuring a DSC Partition

To Configure a DSC Partition

1. In the Navigation Pane of the Administration Station, click Hardware to open the **Hardware** pane.
2. Select **DSC Partition** from the Hardware pane drop-down list.
3. Click to open a Dynamic View showing all DSC Partition objects.
4. Double-click the DSC Partition in the list that you want to configure. The DSC Partition opens.
5. Type an optional description for the Partition in the **Description** field.
6. Click the **Enabled** option to enable this Partition.

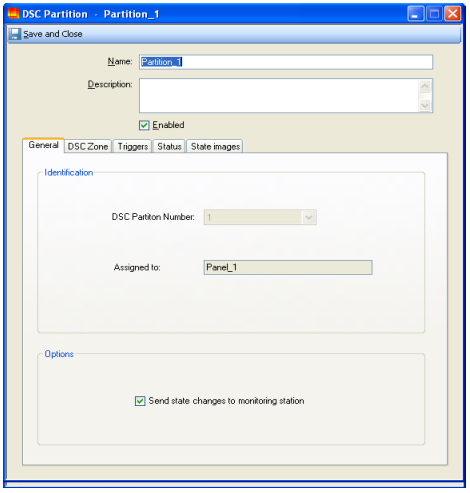
7. You can click the Triggers tab to configure Triggers for the DSC partition. See "DSC Partition Triggers Tab" on page 7.
8. You can click the State Images tab to view the state images for DSC Partition. See "DSC Partition State Images Tab" on page 14.
9. When you finish editing the DSC Partition, click 

to save the configuration.

DSC Partition General Tab

As shown in Figure 5-1 on page 5-4, the DSC General tab shows the basic information of the partition.

Figure 5-1: DSC Partition General Tab



DSC Partition General Tab Definitions

Table 5-1 on page 5-4 provides definitions for the fields on the DSC Partition **General** Tab.

Table 5-1: DSC Partition General Tab Definitions

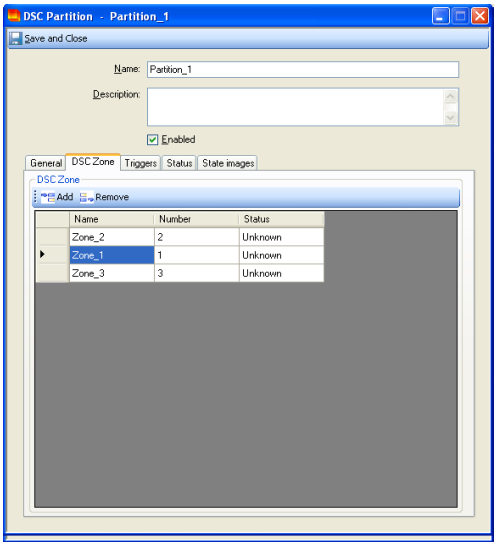
Field	Description
Name	Displays a unique name up to 50 characters long for the DSC partition.
Description	Enter a general comment about the DSC Partition.
Enabled	Select this option to enable this DSC Partition, or clear this option to disable the DSC partition.
Partition Number	Displays the partition number.

Field	Description
Assigned to	Displays which DSC Panel this partition belongs to.
Send state changes to monitoring station	Select this option to send state changes to monitoring station.

DSC Partition Zone Tab

As shown in Figure 5-2 on page 5-6, DSC Partition Zone tab shows the information of the zone that belongs to this partition. You can get the latest mapping information by using the **Getting Partition Zone Mapping** function. See "Get Partition Zone Mapping" on page 4-18. You can also manually synchronize the latest mapping information by the **synchronize** button on the DSC panel general tab.

Figure 5-2: DSC Partition Zone Tab



DSC Partition Zone Tab Definitions

Table 5-2 on page 5-6 provides DSC Partition Zone tab definitions.

Table 5-2: DSC Partition Zone Tab Definitions

Field	Description
Name	Displays the name of the zone.
Number	Displays the number of the zone.
Status	Displays the state of the zone.

DSC Partition Triggers Tab

You can configure triggers in DSC Partition tab. Figure 5-3 on page 5-7 shows the DSC partition Trigger tab information.

Figure 5-3: DSC Partition Triggers Tab

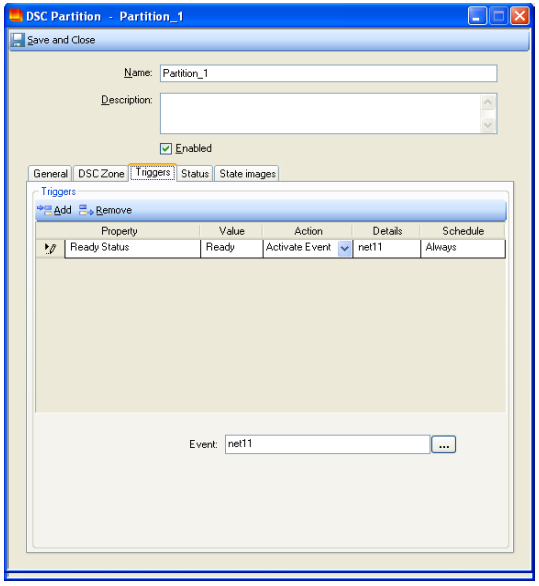


Table 5-3 on page 5-8 contains an example of how a Trigger is configured.

Table 5-3: Triggers Tab Setting Example

The following Triggers tab settings				
Property	**Value**	**Action**	**Details**	**Schedule**
Alarm Status	Alarm	Activate Event	Disarm Partition3	Always
Would create the following Trigger: Anytime (Always **Schedule**) the Alarm Status (**Property)** equals Alarm (**Value**), activate the event (**Action**) named Disarm Partition 3 (**Details**). Disarm Partition is an event you select in the **Event** field. For information about how to create and configure an event, see *C•CURE 9000 Software Configuration Guide*.				

DSC Partition Triggers Tab Definitions

Table 5-4 on page 5-8 provides definitions of DSC Partition Triggers tab.

Table 5-4: DSC Partition Triggers Tab Definitions

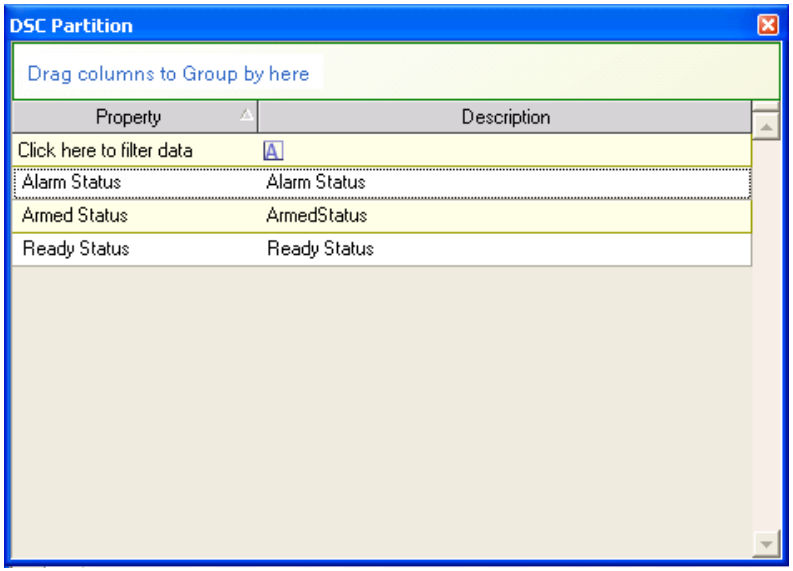
Field	Description
Add	Click Add in the Triggers tab to create a new trigger.
Remove	Click Remove in the Triggers tab to delete a new trigger.
Property	Click within the Property column, and then click ... . The Property browser opens presenting properties available for the Panel. Click a Property to select it and add it to the column. Possible values are: • Armed Status • Ready Status • Alarm Status

Field	Description
Value	Click within the Value column to display a drop-down list of Values associated with the Property that you have selected. Click a Value you want to include as a parameter for the trigger to assign it to the column. Possible values are: • Armed Status: Away Armed, Stay Armed, Disarmed • Ready Status: Ready, Not Ready, Busy • Alarm Status: Normal, Alarm
Action	Click within the Action column to display a drop-down list of valid actions. Click on Action that you want to include as a parameter for the trigger to add it to the column.
Details	Displays details about how the Action was configured.
Schedule	Only the **Always** Schedule is available for DSC Partition Triggers.

Defining a Trigger for a DSC Partition

To Define a Trigger for DSC Partition

1. From the DSC Partition dialog box, navigate to the Triggers tab.
2. Click  in the Trigger tab to create a new trigger.
3. Click  within the **Property** column to open the **DSC Partition** dialog box showing Properties available for the Panel.



4. Click a Property to select it and add it to the **Property** column.
5. Click within the **Value** column to display a drop-down list. Click the Value that you want to include as a parameter for the trigger to add it to the column.
6. Click within the Action column to display a drop-down list of valid actions. Now only **Activate Event** is available.

   When you select an Action, the lower pane in the Trigger box displays an Event field for you to define the Action details.

   Click [...] to open **Event** dialog. Select an Event that you want to associate with the trigger.

   Once you define the Action details, the Details column displays information about how the Action has been configured.
7. Click Save and Close to save the DSC Partition with the Trigger you configured.

To Remove a Trigger

1. From the DSC Partition dialog box, navigate to the Trigger tab.

2. Use to select the row in the Trigger table for the Trigger you want to remove.
3. Click 

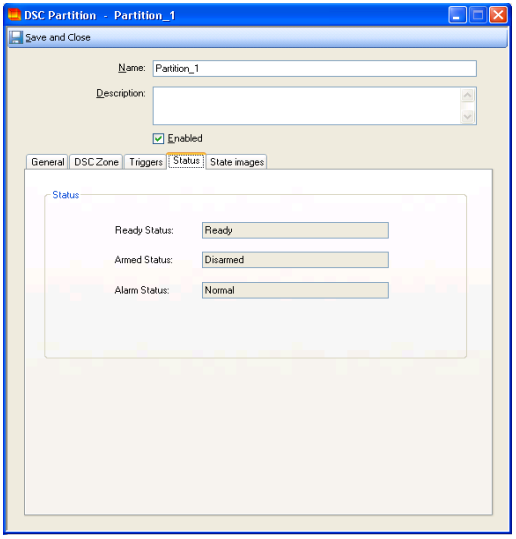
.
4. Click 

to save and exit.

DSC Partition Status Tab

As shown in Figure 5-4 on page 5-12, DSC Panel Status tab provides read-only status information about the DSC partition.

Figure 5-4: DSC Partition Status Tab



DSC Partition Status Tab Definitions

Table 5-5 on page 5-12 provides the Partition Status tab definitions.

Table 5-5: Partition Status Tab Definitions

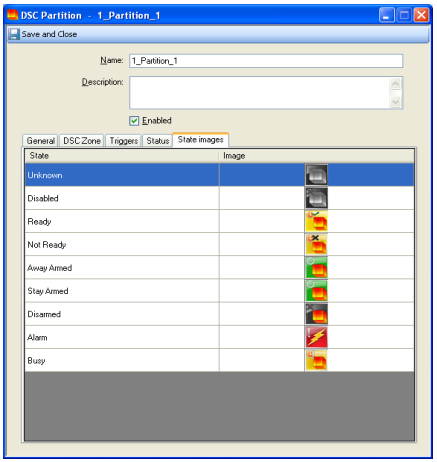
Field	Values	Definitions
Ready Status	Ready	Ready to arm.
	Not ready	Not ready to arm.
	Busy	The Keypad bus is occupied.
	Unknown	The DSC driver is shut down or disabled.

Field	Values	Definitions
Armed Status	Away armed	The partition is away armed
	Stay armed	The partition is stay armed.
	Disarmed	The partition is disarmed.
	Unknown	The DSC driver is shut down or disabled.
Alarm Status	Alarm	The partition is in alarm status
	Normal	The partition is normal, no alarm.
	Unknown	The DSC driver is shut down or disabled.

DSC Partition State Images Tab

The State Images tab, as shown in Figure 5-5 on page 5-14, provides a means to change the default images used to indicate the DSC partition states on the Monitoring Station.

Figure 5-5: DSC Partition State Images Tab



Customizing State Images for a DSC Partition

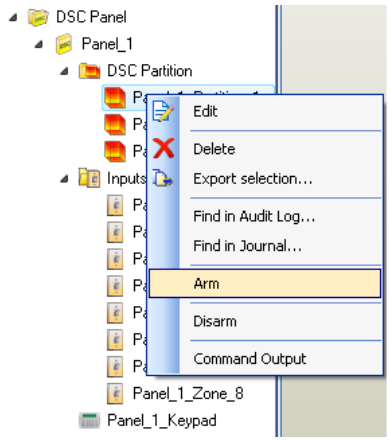
From the DSC Partition State Images tab, you can change the images that appear in the Monitoring Station to represent DSC Partitions.

To Customize DSC Partition State Images

1. From the DSC Partition State Images tab, double-click the existing image. A **Windows Open** dialog box appears allowing you to browse for a folder in which you have placed replacement images.
2. When you locate the replacement image, select it and click **Open** to replace the default image with this image.
3. When you are done editing the DSC Partition, click Save and Close to save your configuration.

Arm & Disarm a Partition

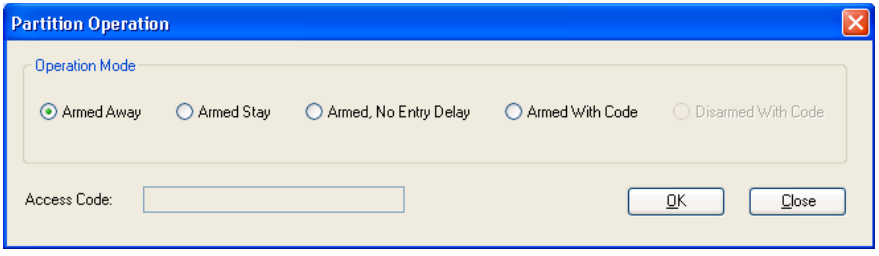
From the Partition context menu, you can choose to arm or disarm a partition.



To Arm a Partition

NOTE Prior to arming this partition, please ensure the partition is ready to arm.

1. Right-click a Partition and select **Arm** in the context menu.
2. The **Partition Operation** dialog appears. Select an operation mode. Here we select **Armed Away** as an example. Click **OK**.



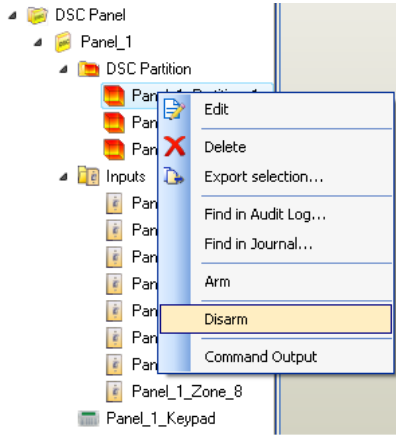
3. If armed successfully, the **Partition Operation** dialog will be closed automatically. You can navigate to Status tab in the DSC Partition editor panel to check this partition's status. The Arm Status is **Away Armed** now.

   If failed to arm, the **Partition Operation** dialog will remain open, and you can get the failure journal on Monitoring Station. Click **Close** to exit.

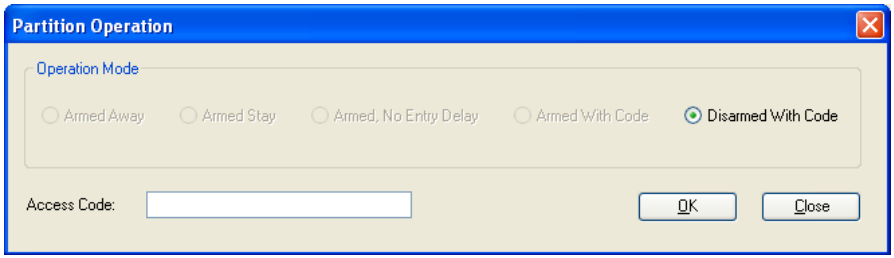
To Disarm a Partition

NOTE Prior to disarming this partition, please ensure the partition is armed.

1. Right-click a Partition whose Armed Status is **Away Armed** or **Stay Armed** (you can check status in the Partition Status tab) and select **Disarm** in the context menu.



2. The **Partition Operation** dialog appears. The only one option "Disarmed with Code" is selected automatically. Type the Access Code in the **Access Code** field and click **OK**.



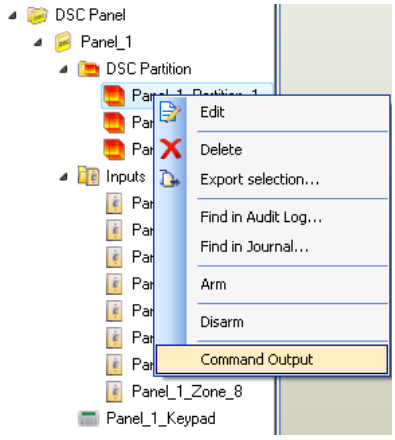
3. In the DSC Partition editor panel, navigate to Status tab. The Arm Status is **Disarmed** now.

Command Output

From the partition context menu, you can select Command Output, then the panel will activate any PGM output assigned to the command output in this partition.

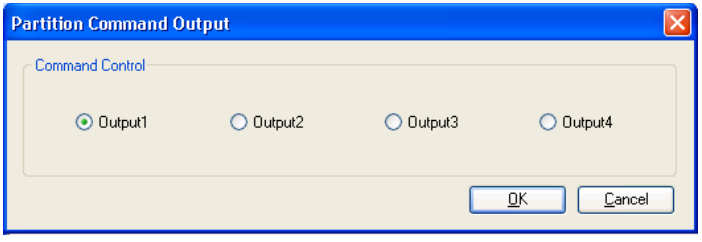
To Use Command Output

1. Right-click a Partition and select **Command Output** in the context menu.

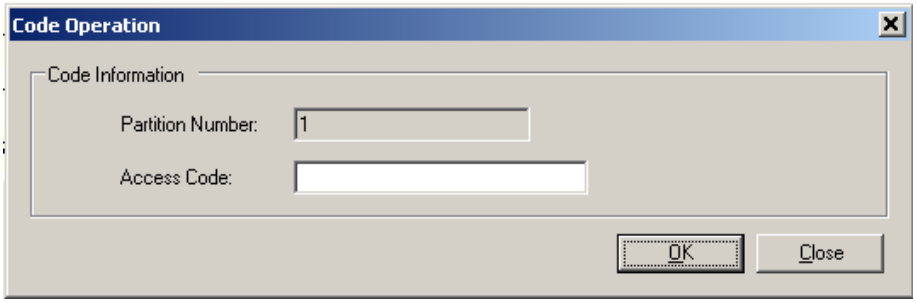


2. The **Partition Command Output** dialog appears. Select a Command Output and click **OK** to finish.

NOTE Please ensure the PGM output associated with this selected command output has been assigned to this partition.



3. If an access code is required by DSC hardware, the **Code Operation** dialog will appear. Enter valid access code and click **OK**.



4. The DSC panel will activate any PGM output assigned to the selected command output in this partition.

6

DSC Zone Editor

This chapter explains how to configure a zone.

In this chapter:

DSC Zone Editor Overview

DSC Zone refers to the physical interface in the panel. The DSC Zone editor provides related zone information. One panel has up to 64 zones.

Accessing a DSC Zone

To Access a Zone

1. Open the **DSC Panel** folder containing the DSC Panel to which the Zone you want to open belongs. See "Accessing the DSC Panel" on 4-2.
2. Open the **Zone** folder by clicking ▷ to the left of the folder.

NOTE After you synchronize with a panel, a Zone sub-folder named **Input** will be automatically created. The zones belonging to this panel are all included in this folder.

3. Select the zone you want to open by double-clicking the Zone icon or name. The DSC Zone editor opens with the General tab visible.

Configuring a DSC Zone

To Configure a DSC Zone

1. In the Navigation Pane of the Administration Station, click Hardware to open the **Hardware** pane.
2. Select **DSC Zone** from the Hardware pane drop-down list.
3. Click  to open a Dynamic View showing all DSC Zone objects.
4. Double-click the DSC zone in the list that you want to configure. The DSC Zone opens.
5. Type an optional description for the Zone in the **Description** field.
6. Click the **Enabled** option to enable this Zone.

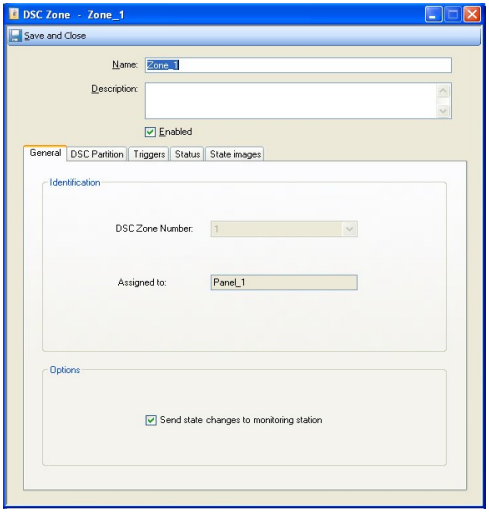
7. You can click the Triggers tab to configure Triggers for the DSC zone. See "DSC Zone Triggers Tab Definitions" on page 8.
8. You can click the State Images tab to view the state images for DSC Zone. See "Customizing State Images for a DSC Zone" on page 14.
9. When you finish editing the DSC Zone, click 

to save the configuration.

DSC Zone General Tab

As shown in Figure 6-1 on page 6-4, the DSC General tab shows the basic information of the zone.

Figure 6-1: DSC Zone General Tab



DSC Zone General Tab Definitions

Table 6-1 on page 6-4 provides definitions for the fields on the DSC Zone **General** Tab.

Table 6-1: DSC Zone General Tab Definitions

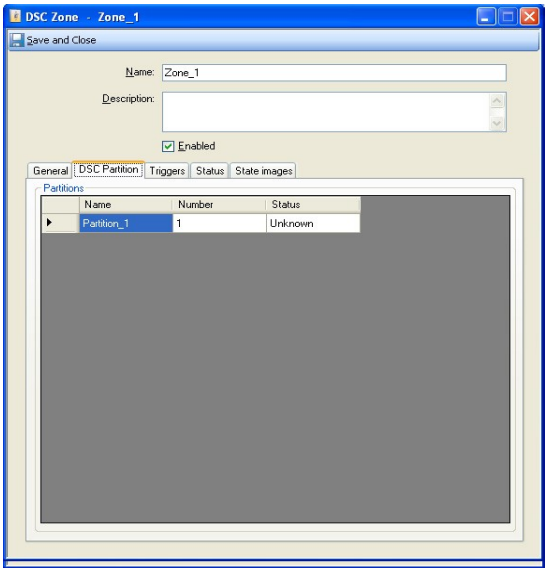
Field	Description
Name	Displays a unique name up to 50 characters long for the DSC zone.
Description	Enter a general comment about the DSC zone.
Enabled	Select this option to enable this DSC Zone, or clear this option to disable the DSC Zone.
DSC Zone Number	Displays the DSC zone number.

Field	Description
Assigned to	Displays which DSC Panel this zone belongs to.
Send state changes to monitoring station	Select this option to send state changes to monitoring station.

DSC Zone Partition Tab

As shown in Figure 6-2 on page 6-6, DSC Zone Partition tab shows the information of the zone that belongs to this partition. You can get the latest mapping information by using the **Getting Partition Zone Mapping** function. See "Get Partition Zone Mapping" on page4-18. You can also manually synchronize the latest mapping information by the **synchronize** button on the DSC panel general tab.

Figure 6-2: DSC Zone Partition Tab



DSC Zone Partition Tab Definitions

Table 6-2 on page 6-6 provides DSC Zone Partition tab definitions.

Table 6-2: DSC Zone Partition Tab Definitions

Field	Description
Name	Displays the name of the partition.
Number	Displays the number of the partition.
Status	Displays the state of the partition.

DSC Zone Triggers Tab

You can configure triggers in DSC Zone tab. Figure 6-3 on page 6-7 shows the DSC Zone Trigger tab information.

Figure 6-3: DSC Zone Triggers Tab

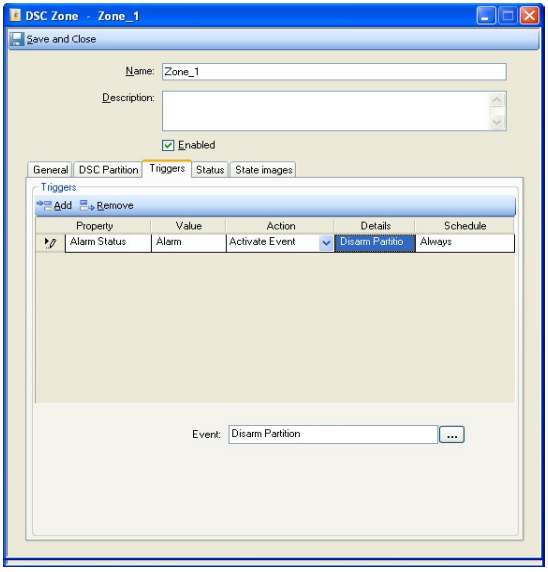


Table 6-3 on page 6-8 contains an example of how a Trigger is configured.

Table 6-3: Triggers Tab Setting Example

The following Triggers tab settings				
Property	**Value**	**Action**	**Details**	**Schedule**
Alarm Status	Alarm	Activate Event	Disarm Partition3	Always
Would create the following Trigger: Anytime (Always **Schedule**) the Alarm Status (**Property)** equals Alarm (**Value**), activate the event (**Action**) named Disarm Partition 3 (**Details**). Disarm Partition is an event you select in the **Event** field. For information about how to create and configure an event, see *C•CURE 9000 User Software Configuration Guide*.				

DSC Zone Triggers Tab Definitions

Table 6-4 on page 6-8 provides definitions of DSC Zone Triggers tab.

Table 6-4: DSC Zone Triggers Tab Definitions

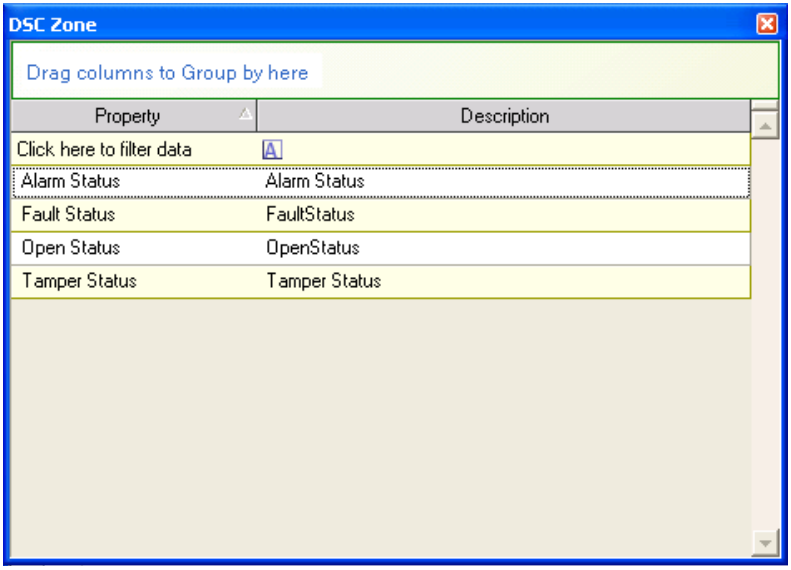
Field	Description
Add	Click Add in the Triggers tab to create a new trigger.
Remove	Click Remove in the Triggers tab to delete a new trigger.
Property	Click within the Property column, and then click ... . The Property browser opens presenting properties available for the Panel. Click a Property to select it and add it to the column. Possible values are: • Alarm Status • Fault Status • Open Status • Tamper Status

Field	Description
Value	Click within the Value column to display a drop-down list of Values associated with the Property that you have selected. Click a Value you want to include as a parameter for the trigger to assign it to the column. Possible values are: • Alarm Status: Alarm, Alarm Restore • Fault Status: Fault, Fault Restore • Open Status: Open, Open Restore • Tamper Status: Tamper, Tamper Restore
Action	Click within the Action column to display a drop-down list of valid actions. Click on Action that you want to include as a parameter for the trigger to add it to the column.
Details	Displays details about how the Action was configured.
Schedule	Only the Always Schedule is available for DSC Zone Triggers.

Defining a Trigger for a DSC Zone

To Define a Trigger for DSC Zone

1. From the **DSC Zone** dialog box, navigate to the **Triggers** tab.
2. Click  in the Trigger tab to create a new trigger.
3. Click  within the **Property** column to open the **DSC Zone** dialog box showing Properties available for the Zone.



4. Click a Property to select it and add it to the **Property** column.
5. Click within the **Value** column to display a drop-down list. Click the Value that you want to include as a parameter for the trigger to add it to the column.
6. Click within the Action column to display a drop-down list of valid actions. Now only **Activate Event** is available.

   When you select an Action, the lower pane in the **Trigger** box displays an Event field for you to define the Action details.

   Click [...] to open **Event** Dialog. Select an Event that you want to associate with the trigger.

   Once you define the Action details, the Details column displays information about how the Action has been configured.
7. Click Save and Close to save the DSC Zone with the Trigger you configured.

To Remove a Trigger

1. From the **DSC Zone** dialog box, navigate to the Trigger tab.

2. Use  to select the row in the Trigger table for the Trigger you want to remove.
3. Click 

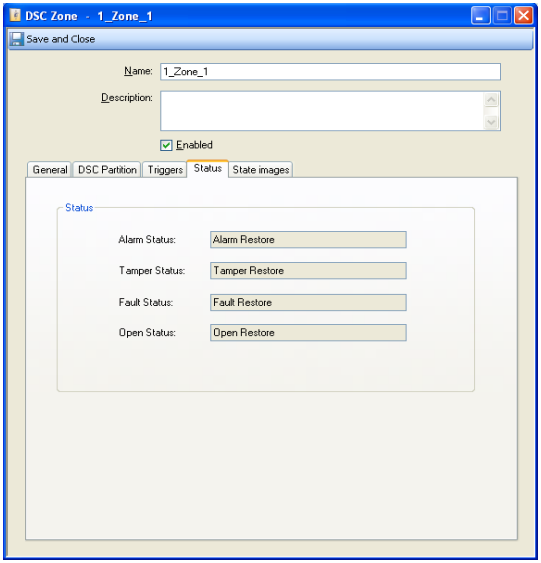
.
4. Click 

to save and exit.

DSC Zone Status Tab

As shown in Figure 6-4 on page 6-12, DSC Zone Status tab provides read-only status information about the DSC zone.

Figure 6-4: DSC Zone Status Tab



DSC Zone Status Tab Definitions

Table 6-5 on page 6-12 provides the Zone Status tab definitions.

Table 6-5: Zone Status Tab Definitions

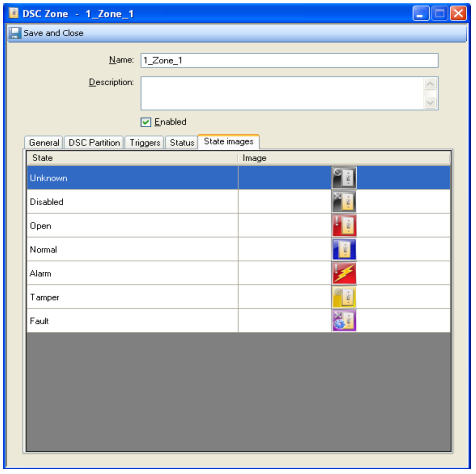
Field	Values	Definitions
Alarm Status	Alarm	The Zone is in alarm status.
	Alarm Restore	The zone is not in alarm status.
	Unknown	The DSC driver is shut down or disabled
Tamper Status	Tamper	The zone is in tamper status.
	Tamper Restore	The zone in not in tamper status.
	Unknown	The DSC driver is shut down or disabled.

Field	Values	Definitions
Fault Status	Fault	The zone is in fault status.
	Fault Restore	The zone is not in fault status.
	Unknown	The DSC driver is shut down or disabled.
Open Status	Open	The zone is in open status
	Open Restore	The zone in not in open status.
	Unknown	The DSC driver is shut down or disabled.

DSC Zone State Images Tab

The DSC Zone State Images tab, as shown in Figure 6-5 on page 6-14, provides a means to change the default images used to indicate the DSC zone states on the Monitoring Station.

Figure 6-5: DSC Zone State Images Tab



Customizing State Images for a DSC Zone

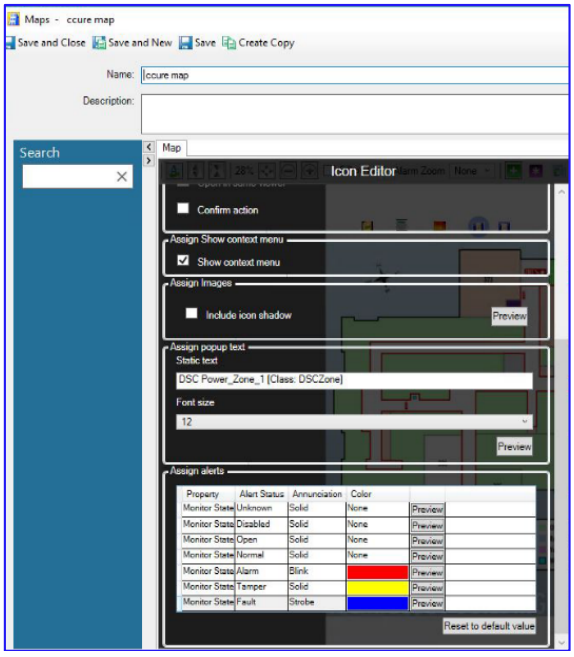
From the DSC Zone State Images tab, you can change the images that appear in the Monitoring Station to represent DSC zones.

To Customize DSC Zone State Images

1. From the DSC Zone State Images tab, double-click the existing image. A **Windows Open** dialog box appears allowing you to browse for a folder in which you have placed replacement images.
2. When you locate the replacement image, select it and click **Open** to replace the default image with this image.
3. When you are done editing the DSC Zone, click Save and Close to save your configuration.

Map Annunciations

Figure 6-6: Map Tab



When a DSC object is added to a C●CURE Map, the annunciation can be customized to highlight the alarm type, as configured in the Icon Editor.

Object Search

The Search box, located to the left of the Map View, can be used to search for any type of Object to be placed on the Map.

7

DSC Keypad Editor

This chapter explains how to configure DSC Keypad.

In this chapter:

DSC Keypad Editor Overview

Visual Keypad is the simulation of a Power Series keypad. The four symbols on the top-right represent the four status LEDs on the Power Series keypad respectively. All keyboard buttons function the same as those on the Power Series keypad. If you want to configure the panel via the keypad, see *PC1166/PC1832/PC1864 User Manual* for more information.

NOTE The visual keypad functions identically to an actual Power Series keypad and is provided for convenience only. Refer to your DSC documentation for instructions on using the keypad. Software House is not responsible for supporting usage of this feature.

Accessing the DSC Keypad Editor for One Specific DSC Panel

To Access the DSC Keypad Editor for One Specific Panel

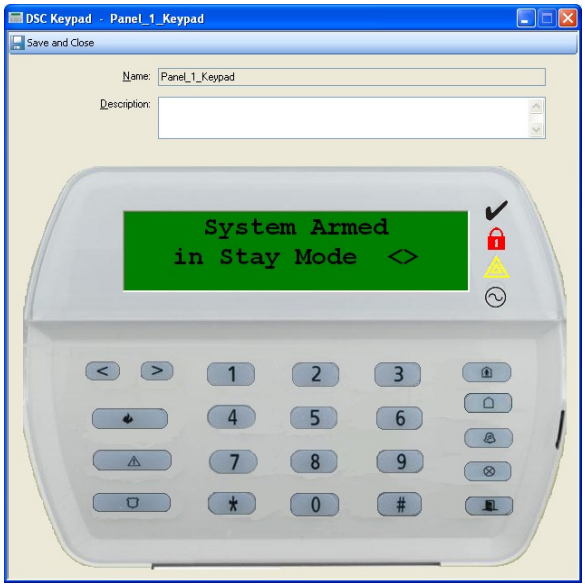
Expand the DSC Panel to which the Keypad you want to open belongs (See "Accessing the DSC Panel" on 4-2) under the **DSC Panel** folder, and then click *PanelName*_Keypad to open the DSC Keypad Editor.

NOTE If there is nothing shown on green LED area, you can click '#' button to initiate the communication between Virtual Keypad with DSC panel.

DSC Keypad Editor

The DSC Keypad Editor is shown in Figure 7-1 on page 7-3.

Figure 7-1: DSC Keypad Editor



DSC Keypad Editor Definitions

Table 7-1 on page 7-3 provides definitions for the fields on the DSC Keypad Editor.

Table 7-1: DSC Keypad Editor Definitions

Field	Description
Name	Displays a unique name up to 50 characters long for the DSC Keypad.
Description	Enter a general comment about the DSC Keypad.

8

Event & Action

This chapter explains the basic information about Event and Action and how to configure the DSC specific action.

In this chapter:

Event & Action Overview

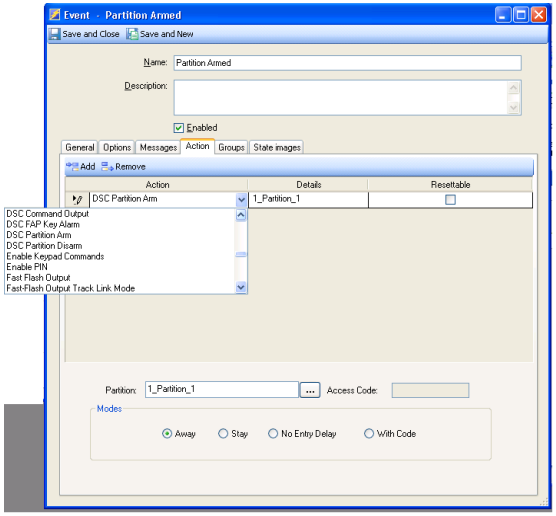
In the C Cure9000 and DSC integration system, you can also use an event as a trigger object. Events are user-programmable components of the C•CURE 9000 Administration system. For information about how to configure an event, see the *C•CURE 9000 Software Configuration Guide*. Actions are the object which is invoked by an event. Except for actions in C Cure9000 system, the C•CURE 9000 DSC PowerSeries Integration also provides some pre-defined actions for you to configure an event. See "Detail Information about DSC Specific Actions" on page 3.

NOTE If an Access Code is required after triggering an event, the action configured for the event didn't work.

Detail Information about DSC Specific Actions

As shown in Figure 8-1 on page 8-3, four DSC specific actions are available.

Figure 8-1: DSC Specific Actions List



Actions and Target Object

Table 8-1 on page 8-3 provides the actions and their target object respectively.

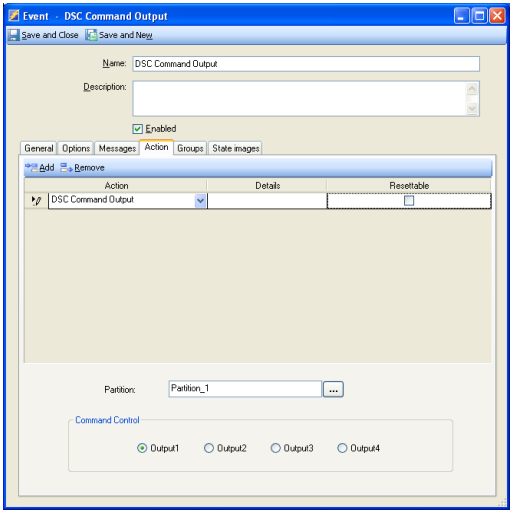
Table 8-1: Actions and Target object

Action	Target Object	Explanation
Command Output	DSC Partition	The panel will activate any PGM output assigned to the command output in the selected partition.
DSC FAP Key Alarm	DSC Panel	To trigger a fire, auxiliary, panic alarm.
DSC Partition Arm	DSC Partition	To arm a partition selected.
DSC Partition Disarm	DSC Partition	To disarm a partition selected.

Command Output

When you select DSC Command Output in the Action drop-down list, the related field and pane appears, as shown in Figure 8-2 on page 8-4.

Figure 8-2: Action Tab-DSC Command Output.



Action Tab-DSC Command Output Definitions

Table 8-2 on page 8-4 provides Action Tab-DSC Command Output definitions:

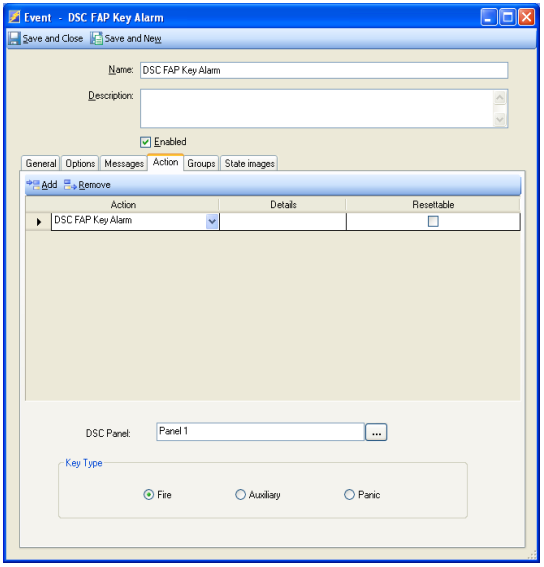
Table 8-2: Action Tab-DSC Command Output Definitions

Field	Description
Partition	Click ... to open the **Partition** list. Select a Partition as the object of this action.
Command Control	In the **Command Control** pane, select to specify an Output for the action of **DSC Command Output**.

DSC FAP Key Alarm

When you select **DSC FAP Key Alarm** in the **Action** drop-down list, the related field and pane appears, as shown in Figure 8-3 on page 8-5.

Figure 8-3: Action Tab-DSC FAP Key Alarm



Action Tab-DSC FAP Key Definitions

Table 8-3 on page 8-5 provides the Action Tab-DSC FAP Key definitions.

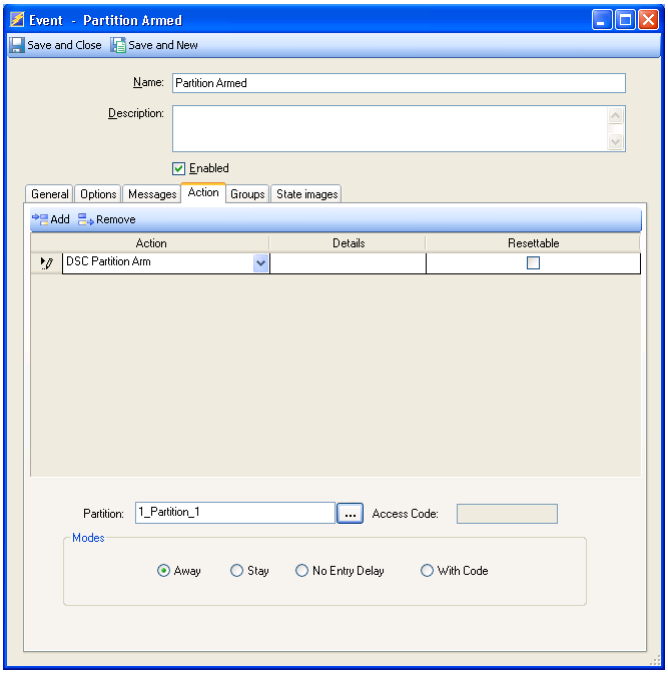
Table 8-3: Action Tab-DSC FAP Key Definitions

Field	Description
DSC Panel	Click ... to open the **DSC Panel** list. Select a DSC Panel as the object of this action.
Key Type	Select a Key type.

DSC Partition Arm

When you select **DSC Partition Arm** in the **Action** drop-down list, the related field and pane appears, as shown in Figure 8-4 on page 8-6

Figure 8-4: Action Tab-DSC Partition Armed



Action Tab-DSC Partition Arm Definitions

Table 8-4 on page 8-6 provides the Action Tab-DSC Partition Arm definitions.

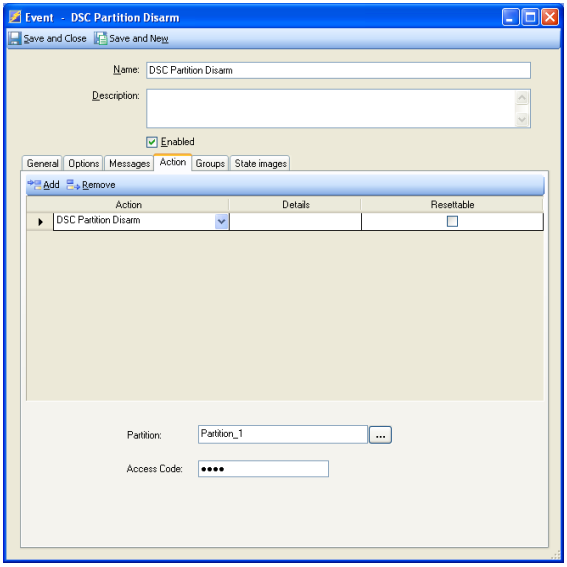
Table 8-4: Action Tab-DSC Partition Arm Definitions

Field	Description
Partition	Click ... to open the **DSC Partition** list. Select a DSC Partition as the object of this action.
Access Code	Type the Access Code if you select **With Code**.
Modes	Select an arm mode.

DSC Partition Disarm

When you select **DSC Partition Disarmed** in the **Action** drop-down list, the related field and pane appears, as shown in Table 8-5 on page 8-7.

Figure 8-5: Action Tab-DSC Partition Disarmed



Action Tab-DSC Partition Disarm Definitions

Table 8-5 on page 8-7 provides the Action Tab-DSC Partition Disarm definitions.

Table 8-5: Action Tab-DSC Partition Disarm Definitions

Field	Description
Partition	Click [...] to open the **DSC Partition** list. Select a DSC Partition as the object of this action.
Access Code	Type the Access Code.

DSC Specific Action Configuration Example

The following is an action configuration example:

To Configure an DSC Specific Action

1. Create an Event named **Partition armed**. See how to create an Event in *C•CURE 9000 User Software Configuration Guide*.
2. Open this **Partition armed** event, select **Action** tab, and then select **DSC Partition Arm** in the **Action** field.

   In the **Partition** field, click ... to open the Partition list. In the Partition list, select the partition you want to arm.

   Example:

   Select **1_Partition_2**.

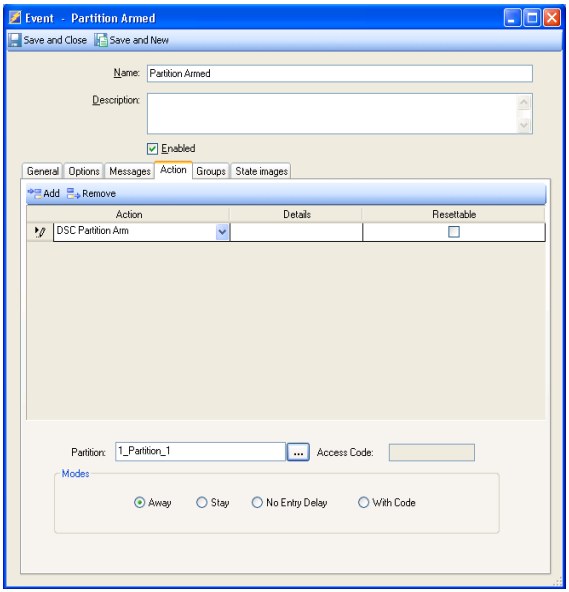
   In the **Access Code** field, you should type your access code if required. Select a mode in the lower **Modes** pane.

   Example:

   Select **Away**.

   Figure 8-6 on page 8-9 shows the configuration details.

Figure 8-6: Action Configuration Example



3. Configure a Panel Trigger with Event **Partition Armed** as the event to be triggered.
4. When the Panel **Online Status** equals **Online**, the event named **Partition Armed** will activate, which will trigger the action "**DSC Partition Armed**" to arm partition "1_Partition_2". It will be recorded in the Journal, as shown in Figure 8-7 on page 8-9.

Figure 8-7: 1_partition_2 armed journal

9

Monitoring DSC PowerSeries Activities

You can monitor DSC PowerSeries activities using the Monitoring Station Activity Monitor.

In this chapter:

Using the Monitoring Station for DSC Partition Status

You can check the DSC partition status on the C•CURE 9000 Monitoring Station. When you install the DSC PowerSeries Integration interface, it automatically creates a DSC Partition Default Application Layout. You can assign this Layout to your Operators, modifying the Layout for each specific Operator, as you wish.

To Configure a DSC Partition Default Application Layout for an Operator

1. From the C•CURE 9000 Administration application, choose the Configuration pane, then choose the Operator from the drop-down list box.
2. Click -> to view a Dynamic View of all operators.
3. Double-click the Operator you want to see DSC partition status in the Monitoring Station. The Operator editor opens.
4. Navigate to the Layout tab and click to configure a layout for the Operator. A dialog box opens listing the available Application Layouts.
5. Select the **DSC Partition Default** Application Layout and click **OK**. The DSC Partition Default Application Layout is added to the Operator on the Layout tab.
6. Click to save the Operator configuration.

To View the DSC Partition Default Application Layout

Once you have configured the DSC Partition Default Application Layout, an Operator can use the Monitoring Station to see DSC partition status.

Start the Monitoring Station:

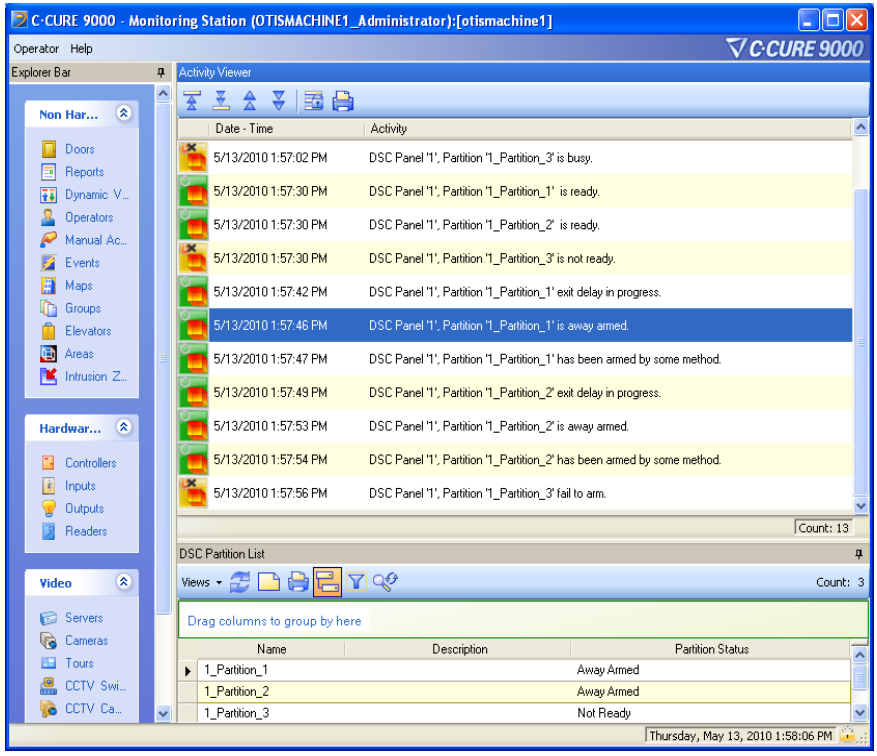
- Click START> All Programs>Software House> C•CURE 9000 >Monitoring Station.

  - or -

- Click the desktop icon to start the Monitoring Station.

The Monitoring Station opens, showing the DSC Partition Default Application Layout, as shown in Figure 9-1 on page 9-3.

Figure 9-1: Layout-partition-List



When the DSC hardware reports any status change, the Monitoring Station will display this information in the Activity Viewer, and all current partition status are listed on the bottom.

10

DSC Journal Messages

The DSC integration panel has customized Journal messages that are described here.

In this chapter

C•CURE 9000-DSC Integration Journal Messages Definitions

The following tables list the Journal Messages that can be reported by the DSC Integration products to the C•CURE 9000 database.

"#" in the table is used to represent an object such a panel name, point name, or computer name, The actual value for the object property will replace the "#" in the Journal.

Table 10-1: DSC Object Change Journal Messages

Message Type	Object	State Change	Message
DSC Object Change State	DSC Panel	Enabled	DSC Panel # is enabled.
		Disabled	DSC Panel # is disabled.
		Online	DSC Panel #, communication restored.
		Offline	DSC Panel #, communication failure.
	DSC Partition	Ready	DSC Panel #, Partition # is ready.
		Not Ready	DSC Panel #, Partition # is not ready.
		Away Armed	DSC Panel #, Partition # is away armed.
		Stay Armed	DSC Panel #, Partition # is stay armed.
		Away No Delay Armed	DSC Panel #, Partition # is away no delay armed.
		Stay No Delay Armed	DSC Panel #, Partition # is stay no delay armed.
		Ready to Force Arm	DSC Panel#, Partition # is ready to force arm.
		Busy	DSC Panel#, Partition # is busy.
		Disarmed	DSC Panel#, Partition # is disarmed
		Alarm	DSC Panel#, Partition # is in alarm.
	DSC Zone	Zone Alarm	DSC Partition #, Zone # alarm.
		Zone Alarm Restore	DSC Partition #, Zone # alarm restore.
		Zone Tamper	DSC Partition #, Zone # tamper.
		Zone Tamper Restore	DSC Partition #, Zone # tamper restore.
		Zone Fault	DSC Panel #, Zone # fault.
		Zone Fault Restore	DSC Panel #, Zone # fault restore.
		Zone Open	DSC Panel #, Zone # open.
		Zone Restored	DSC Panel #, Zone # open restore.

Table 10-2: DSC Device Activity Journal Messages

Message Type	Object	State Change	Message
DSC Device Activity	DSC Panel DSC Partition	Duress Alarm	DSC panel # system duress alarm.
		Key Alarm	DSC Panel # Fire (Auxiliary, Panic) key alarm.
		Key Restoral	DSC Panel # Fire (Auxiliary, Panic) key alarm restore.
		Auxiliary Input Alarm	DSC Panel # auxiliary input alarm.
		Auxiliary Input Alarm Restoral	DSC Panel # auxiliary input alarm restoral.
		Exit Delay in Progress	DSC Panel #, Partition # exit delay in progress.
		Entry Delay in Progress	DSC Panel#, Partition # entry delay in progress.
		Keypad Lockout	DSC Panel #, Partition # keypad lockout.
		Keypad Blanking	DSC Panel #, Partition # keypad blanking.
		Command Output In Progress	DSC Panel #, Partition # command output in progress.
		Invalid Access Code	DSC Panel #, Partition # invalid access code.
		Function Not Available	DSC Panel #, Partition # function not available.
		Fail to arm	DSC Panel #, Partition # fail to arm, please contact administrator.
		User Closing	DSC Panel #, Partition # has been armed by the user '#'.
		Partial Closing	DSC Panel #, Partition # has been armed but one or more zones have been bypassed.
		User Opening	DSC Panel #, Partition # has been disarmed by a user.
		Panel Battery Trouble	DSC panel # battery trouble.

Message Type	Object	State Change	Message
		Panel Battery Trouble Restore	DSC panel # battery trouble restore.
		Panel AC Trouble	DSC panel # ac trouble.
		Panel AC Trouble Restore	DSC panel # ac trouble restore.
		System Bell Trouble	DSC panel # system bell trouble.
		System Bell Trouble Restoral	DSC panel # system bell trouble/restore.
		TLM Line 1 Trouble	DSC Panel # TLM line 1 trouble.
		TLM Line 1 Trouble Restored	DSC Panel # TLM line 1 trouble restore.
		TLM Line 2 Trouble	DSC Panel # TLM line 2 trouble.
		TLM Line 2 Trouble Restored	DSC Panel # TLM line 2 trouble restore.
		FTC Trouble	DSC Panel # FTC trouble.
		Buffer Near Full	DSC Panel # buffer near full.
		General Device Low Battery	DSC Panel #, Zone # general device low battery
		General Device Low Battery Restore	DSC Panel #, Zone # general device low battery restore.
		Wireless Key Low Battery Trouble	DSC Panel # wireless key low battery trouble.
		Wireless Key Low Battery Trouble Restore	DSC Panel # wireless key low battery trouble restore.
		Handheld Keypad Low Battery Trouble	DSC Panel # handheld keypad low battery trouble.

Message Type	Object	State Change	Message
		Handheld Keypad Low Battery Trouble Restore	DSC Panel # handheld keypad low battery trouble restore.
		General System Tamper	DSC Panel # general system tamper.
		General System Tamper Restore	DSC Panel # general system tamper restore.
		Home Automation Trouble	DSC Panel # home automation trouble.
		Home Automation Trouble Restore	DSC Panel # home automation trouble restore.
		Trouble Status	DSC Panel # trouble status open.
		Trouble Status Restore	DSC Panel # trouble status off.
		Fire Trouble Alarm	DSC Panel # fire trouble alarm.
		Fire Trouble Alarm Restore	DSC Panel # fire trouble alarm restore.

Table 10-3: DSC System Activity and Error Journal Messages

Message Type	Object	State Change	Message
DSC System Activity	Driver	Start	System Activity: DSC PowerSeries Integration driver start on computer #.
		Shut down	System Activity: DSC PowerSeries Integration driver shut down on computer #.
DSC System Error	Driver	Start error	System Error: DSC PowerSeries Integration driver start failed on computer #.
		Shut down error	System Error: DSC PowerSeries Integration driver shut down failed on computer #.

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