Com Series ™

CELLCOMEX HOW-TO GUIDE: DSC PASSTHRU

DMP®

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DSC PASSTHRU OVERVIEW

CellComEX Universal Communicators enable you to take over and manage DSC panels with connection to the DSC Bus. This feature is called DSC Passthru.

This guide is designed to walk you through DSC passthru installation and setup. For more complete information on CellComEX setup, refer to the CellComEX Installation and Programming Guide (LT-2663).

Procedure

The installation must follow this procedure:

Step 1: Mount the communicator.

Step 2: Wire the communicator.

Step 3: Configure DSC settings remotely.

Step 4: Changing programming.

Required Materials

The following software and hardware components are required to perform system takeovers:

- Compatible DSC PowerSeries Panels (refer to "DSC Panel Compatibility")
- Dealer Admin
- 18-22 AWG unshielded wire (RYGB)
- Remote Link minimum Version 2.21
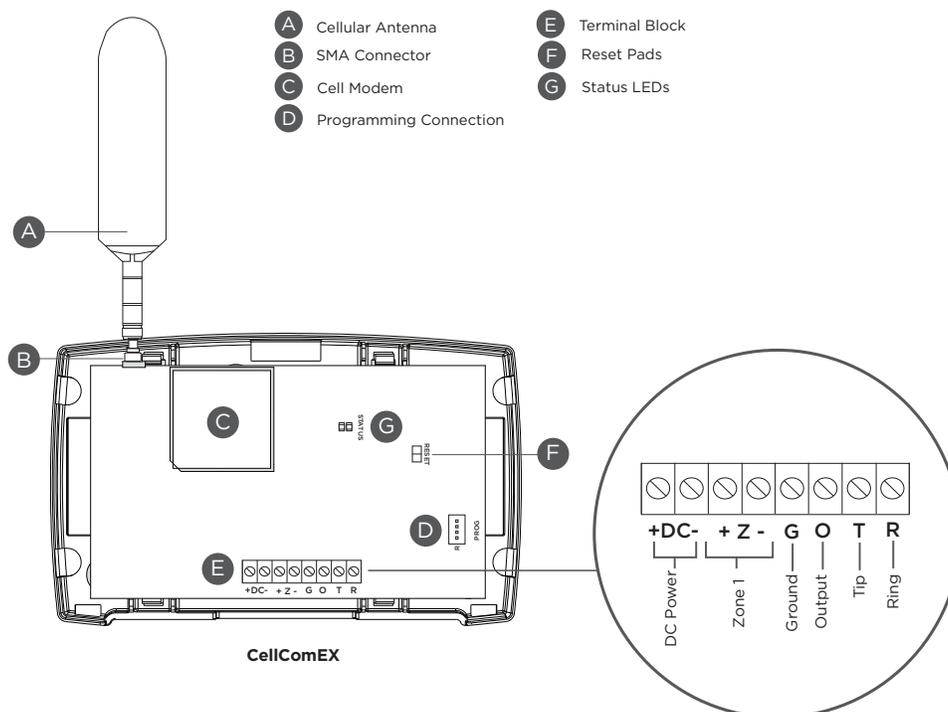- (Optional) Model 330-DSC programming harness and DLS panel programming software

A Cellular Antenna	E Terminal Block
B SMA Connector	F Reset Pads
C Cell Modem	G Status LEDs
D Programming Connection	

CellComEX

Figure 1: CellComEX Components

STEP 1: MOUNT THE COMMUNICATOR

The module comes in a high-impact plastic housing that you can mount directly to a wall, backboard, or other flat surface.

For easy installation, the back and ends of the CellComEX housing have wire entrances. The back also contains multiple mounting holes that allow you to mount the module on a single-gang switch box.

Remove the PCB from the plastic housing by loosening the clips on one side and gently lifting it out of the housing base.

Insert the included screws in the desired mounting hole locations and tighten them to secure the housing to the surface.

Reinstall the PCB in the housing base.

STEP 2: WIRE THE COMMUNICATOR

⚡ **Caution:** Remove all AC and battery power from the panel before wiring.

1. Attach the antenna to the SMA connector. Refer to Figure 1.
2. The communicator can be connected to the DSC Bus of a compatible DSC panel. See Table 1 and Figure 2 for the necessary wiring connections.
3. Connect the DSC panel to a 12 VDC power source. Connect DSC backup batteries as needed.

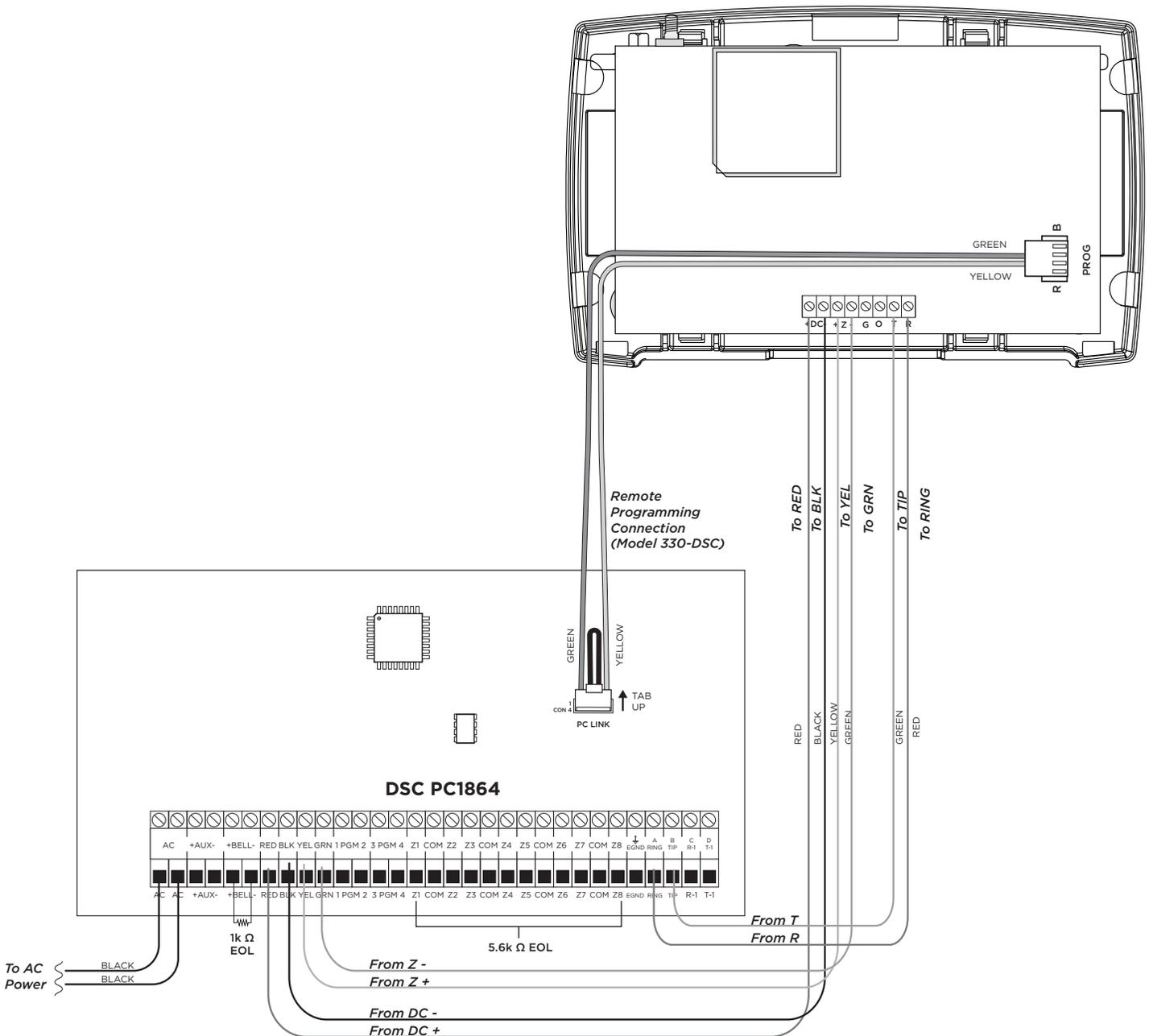| Communicator to DSC Wiring		
Com	DSC Bus	Typical Color
DC+	RED	Red
DC-	BLK	Black
Z+	YEL	Yellow
Z-	GRN	Green
T	TIP	Green
R	RING	Red
N/A	Bell+ to Bell- (1k Ω EOL)	N/A
N/A	Zones 1 - 8 (5.6k Ω EOL)	N/A
PROG	PC Link (COM) Tab Up	Green, Yellow

Table 1: Wire Connections

Figure 2: DSC Wiring

STEP 3: CONFIGURE DSC SETTINGS

For the communicator to properly process data from the DSC panel, keypad input must be set to **DSC**. You can perform this programming remotely with Dealer Admin.

Why is this important? Dealer Admin configures the CellComEX to receive DSC data.

Remotely (Dealer Admin)

1. Go to **Customers**.
2. Find and select the system name.
3. Go to **Programming > System Options**.
4. In **Keypad Input**, select **DSC**.
5. Press **Begin DSC Setup**.
6. Enter the host panel's installer code in **Installer Code**.
7. Press **Begin**.
8. After setup is complete, Dealer Admin automatically retrieves zones from the host panel. If you need to retrieve zones again later, open **System Options** and select **Get Zones**.
9. At **USER NUMBER**, enter **40**.
10. At **CODE NO**, enter the code from the DSC panel's user 40.
11. At **USER NAME**, enter **MASTER**.
12. At **MASTER?** select the checkbox.
13. Press **Send**.

System Options ⓘ		DSC Setup	
Entry Delay 1	30	**Installer Code**	30–250
Exit Delay	60	(0000-9999)	45–250
Cross Zone Time	0	Begin Cancel	0, 4–250
Power Fail Delay	1		0–9
Swinger Bypass Trips	2		0–7
Reset Swinger Bypass	⬭		
Time Change	⬤		
Hours from GMT	6		0–23
Keypad Input	DSC		▾
	Begin DSC Setup Get Zones		
ECP Partition	1		▾
CID Format	DMP		▾

STEP 4: CHANGING PROGRAMMING

Option 1: Programming with Host Keypad

If you have access to the host panel, you can make zone programming changes in the panel locally using a host keypad. To retrieve new zone programming, select **Get Zones** in the **System Options** tab in Dealer Admin.

Option 2: Programming using DLS and Remote Link

Starting with Remote Link™ Version 2.21, you can connect a customer's DSC panel with CellComEX communicators using DLS software and Remote Link.

Why is this important? Remote Link is necessary if programming using DLS. It provides a link between the CellComEX and the host panel. Without doing this, no new programming (zones, devices, etc.) can be sent to or retrieved from the host panel.

Retrieve Codes for DSC Connection

DSC panels allow a 6-hour interval for remote programming connections after the panel is initially powered up. After that interval expires, technicians can re-enable DLS connection for another 6 hours by disarming the panel and entering the following code combination: ***6** + [*master code*] + **5**.

Before attempting to program a DSC panel remotely, you will need to find and record the DSC panel's 6-digit Downloading Access Code and the Panel Identification Code (Device ID). You can retrieve this information at the panel's keypad from Section [403] and Section [404], respectively.

Configure Remote Link

1. Right-click Remote Link and select **Run as administrator**. If you already have Remote Link open and recently used DSC passthru, close and reopen Remote Link.
2. If necessary, create the communicator account.
3. In **Panel Information**, double-click the communicator account to open it.
4. Go to **Panel > Connect**. Ensure the account number is correct, then press **Connect**.
5. Go to **Program > System Options**.
6. Ensure **DSC** is selected.
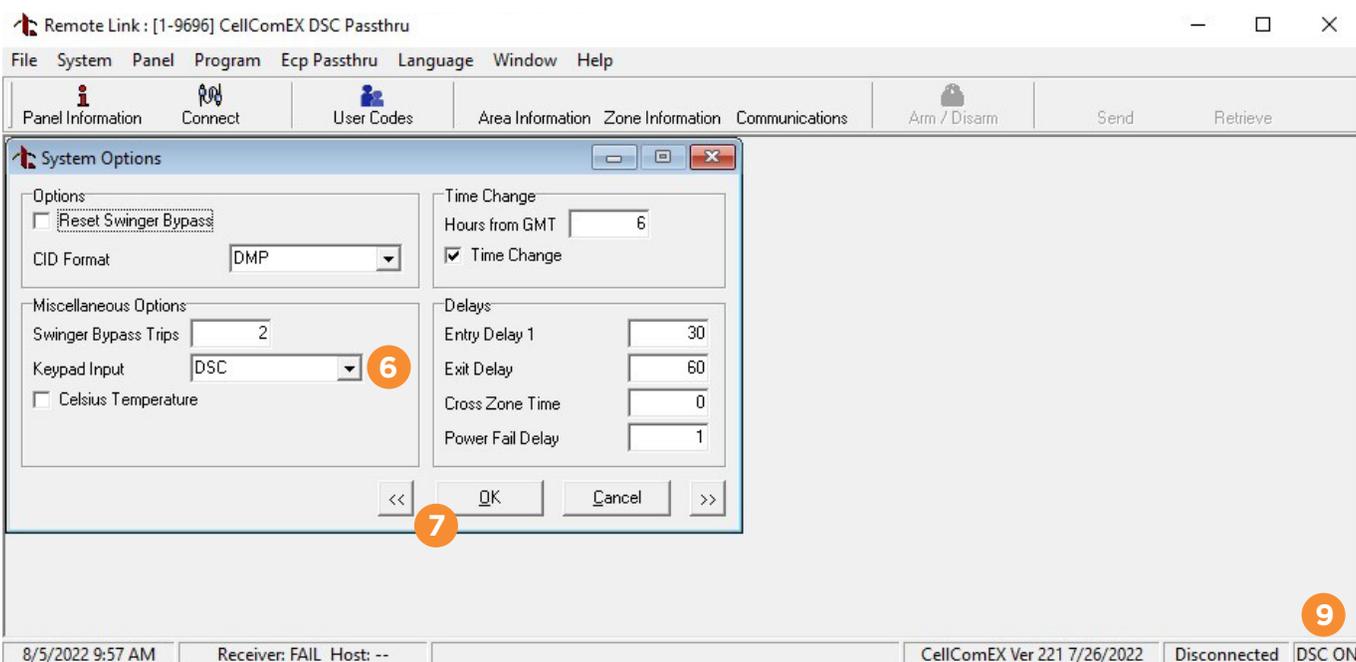
7. Press **OK**.

8. Go to **Panel > Disconnect**. Ensure the account number is correct, then press **Disconnect**. The panel must be disconnected in Remote Link before connecting in DLS.

9. Ensure the bottom right corner of the main Remote Link window displays **DSC ON**.

10. Minimize the Remote Link window. Remote Link must remain open during remote DSC programming.

Configure DLS

1. Open DLS5 and select **New Account**.

2. Enter an account name.

3. In **Panel Type**, select the model of the DSC panel.

4. In **Connection Type**, select **IP (TLink)**.

5. Leave all other settings at their defaults and press **Create**.

Connect to the DSC Panel and Complete Remote Programming

1. Back in the DLS5 main window, open the account you just created by double-clicking it.

2. Press ⤴ Connect.

3. In **Access Code**, enter the 6-digit Downloading Access Code.

4. In **Device ID**, enter the Panel Identification Code.

5. Clear the following checkboxes: **Automatically Hangup when Finished** and **Override default connection type with PC-Link**.

6. Press **OK**.
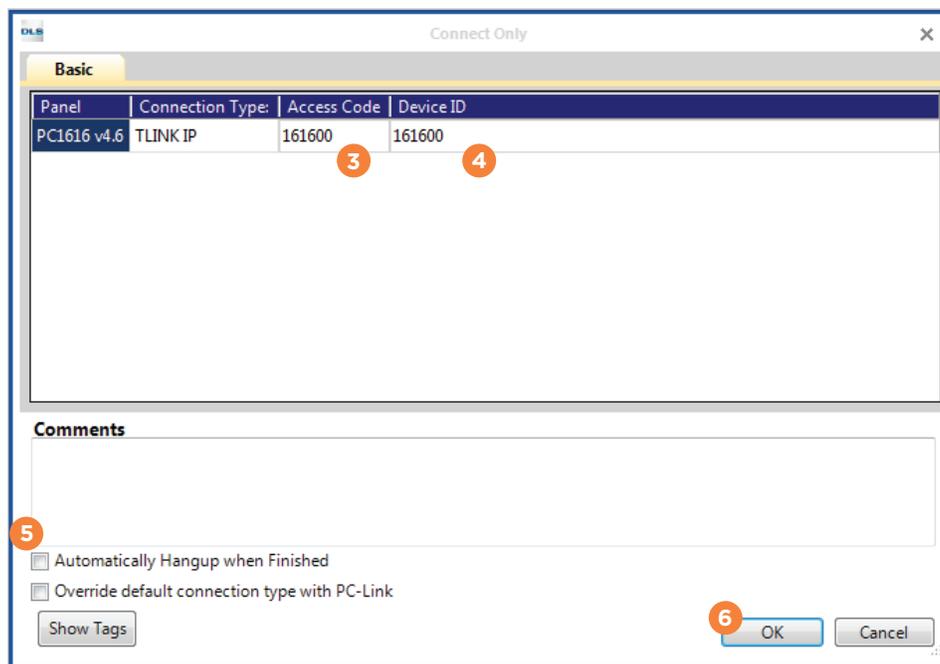
7. In the main DLS5 window, the Communication toolbar displays the connection status. **Efficiency** should ideally be green, indicating good connection. **State** should display **Online Idle**, indicating that the panel is connected and idle. To troubleshoot connectivity issues, select 🗨 Connection Log. In the connection log, errors are red.
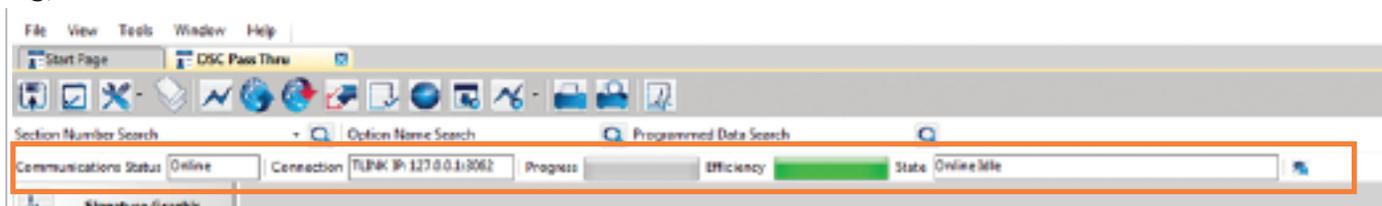
8. Edit programming as needed, then press 🜨 Upload Programming.

Retrieving Zones in Dealer Admin

After programming in DLS is completed, navigate to the **System Options** tab in Dealer Admin and press **Get Zones**. This ensures any new programming can be viewed in Virtual Keypad and Dealer Admin.

REFERENCE

Virtual Keypad

Virtual Keypad enables users to manage their systems remotely, including arming, disarming, viewing zone status, bypassing zones, viewing history, managing users, and more. Virtual keypad has not been evaluated by Intertek.

To use Virtual Keypad for remote management, the configuration must meet the following conditions:

- DSC Panels must be programmed as Stay/Away for remote arming and disarming (No Partitions).
- User code 40 must match in both the communicator and DSC panels and must also be used when logging into Virtual Keypad to remotely manage DSC panels.
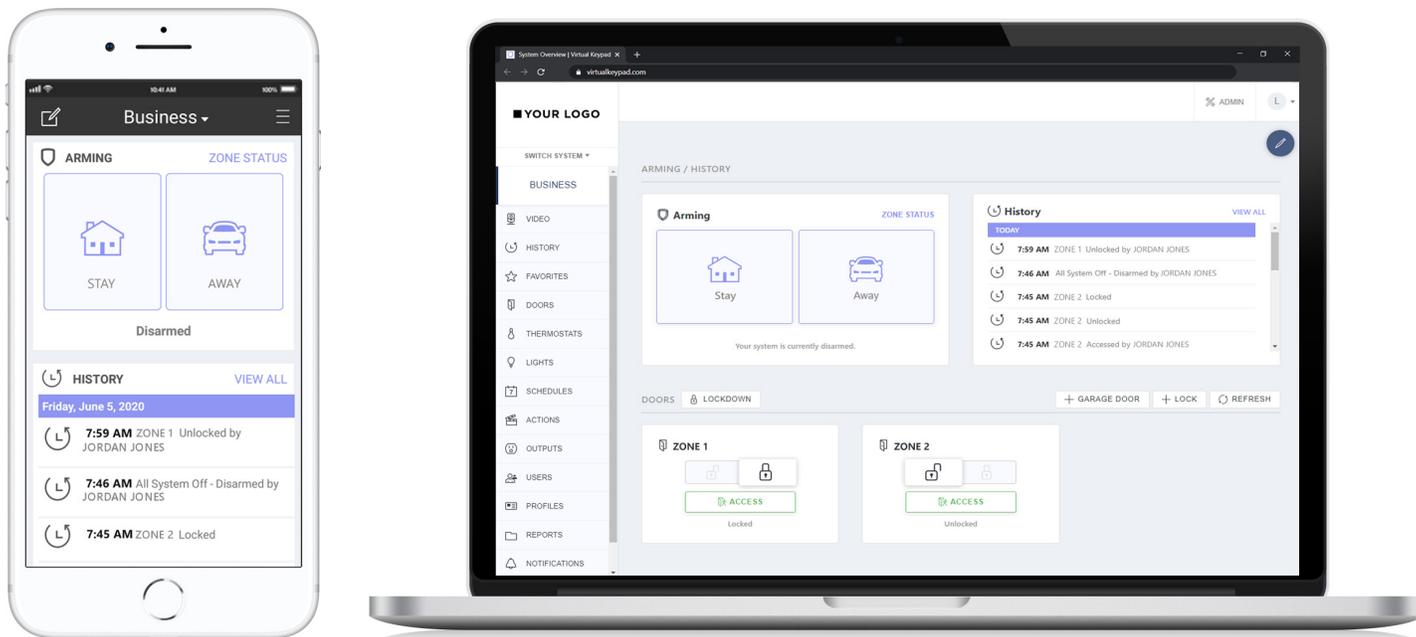
DSC Panel Compatibility

Panel Type	DSC	Remote User Management	Remote Arming/Disarming	Remote Zone Status	Compatible with DLS5
PC1616	Yes	Yes	Yes	Yes	Firmware version 4.1 and higher
PC1832	Yes	Yes	Yes	Yes	Firmware version 4.1 and higher
PC1864	Yes	Yes	Yes	Yes	Firmware version 4.1 and higher
PowerSeries Neo panels	Untested	Untested	Untested	Untested	Firmware version 1.0 and higher