

DSC Integration Setup Guide

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DSC Alarm Panel Integration Setup

This guide outlines how to setup the Keyscan Aurora DSC Intrusion Panel Integration license for a DSC Power Series (EAUR-DSCP) or MAXSYS (EAUR-DSCM) alarm panel. The DSC Intrusion Panel Integration license does not support any other manufacturer's alarm panels.

Features

Keyscan's DSC Integration* license creates a virtual keypad via the Aurora Client software interface screens with the following benefits:

- Manually arm and disarm partitions from the Intrusion Partition Status screen
- Arm and disarm using Present3 at a target reader (optional)
- Monitor alarms/partitions/zones
- Manually arm and disarm partitions from the active mapping function
- Reports DSC alarms in the Online Transaction screens

* Integration features are subject to change and are limited to third party product features.

Before You Start

Ensure that you have all the required components and meet all the preconditions as listed:

- AUR-DSC Intrusion Panel Integration license. The hardware required for each license/install type is as follows:
 - EAUR-DSCP – one 9-pin M-M Adaptor (not included)
 - EAUR-DSCM – one 9-pin M-M Adaptor and one DB9/DB25 Adaptor (not included)
- DSC Data Interface Module - obtained from your DSC hardware supplier
 - IT-100 for Power Series alarm panels
 - PC 4401 for MAXSYS alarm panels (DB25 modular jack also required for integration)
- Each DSC alarm panel requires a dedicated NETCOM2 device for a network connection – this document outlines connections to a NETCOM2 version PC1042.
- Aurora does not support serial connections for DSC panels
- Ensure that the DSC alarm panels are installed and programmed before setting up the DSC integration software
 - Specify Data Link Module in the MAXSYS panel programming to interface with the PC 4401 module – do not use PC-Link or DVAC modes
- Ensure that you have the DSC alarm panel's master code
- Review the Required Software and Hardware section
- Familiarize yourself with the content of this installation guide
- You must have a site already setup for the access control system
- Keyscan recommends setting zones for forced arm at the DSC keypad/panel

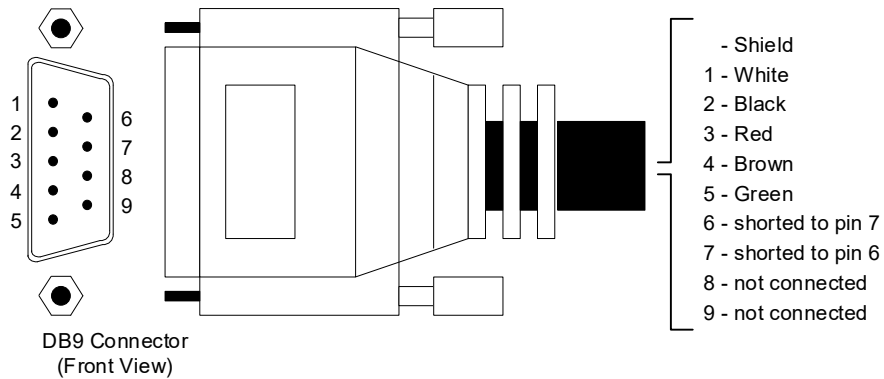
If connecting more than 1 DSC panel, you require additional hardware dependent on your alarm panel type. The 9-pin M-M Adaptor is also referred to as a Mini Gender Changer in this document.

Install the Keyscan software before registering and activating it.

The DSC master code is a required entry in the DSC Alarm Panel Integration module. The DSC master code is necessary to establish successful communication between the Keyscan software and the DSC alarm panel. Refer to the DSC literature.

Figure 1 outlines the wire/pin relationship of the DB9/RS-232 data cable. You may need to refer to this diagram as you progress through this guide.

Figure 1 – RS-232 Data Cable Connections



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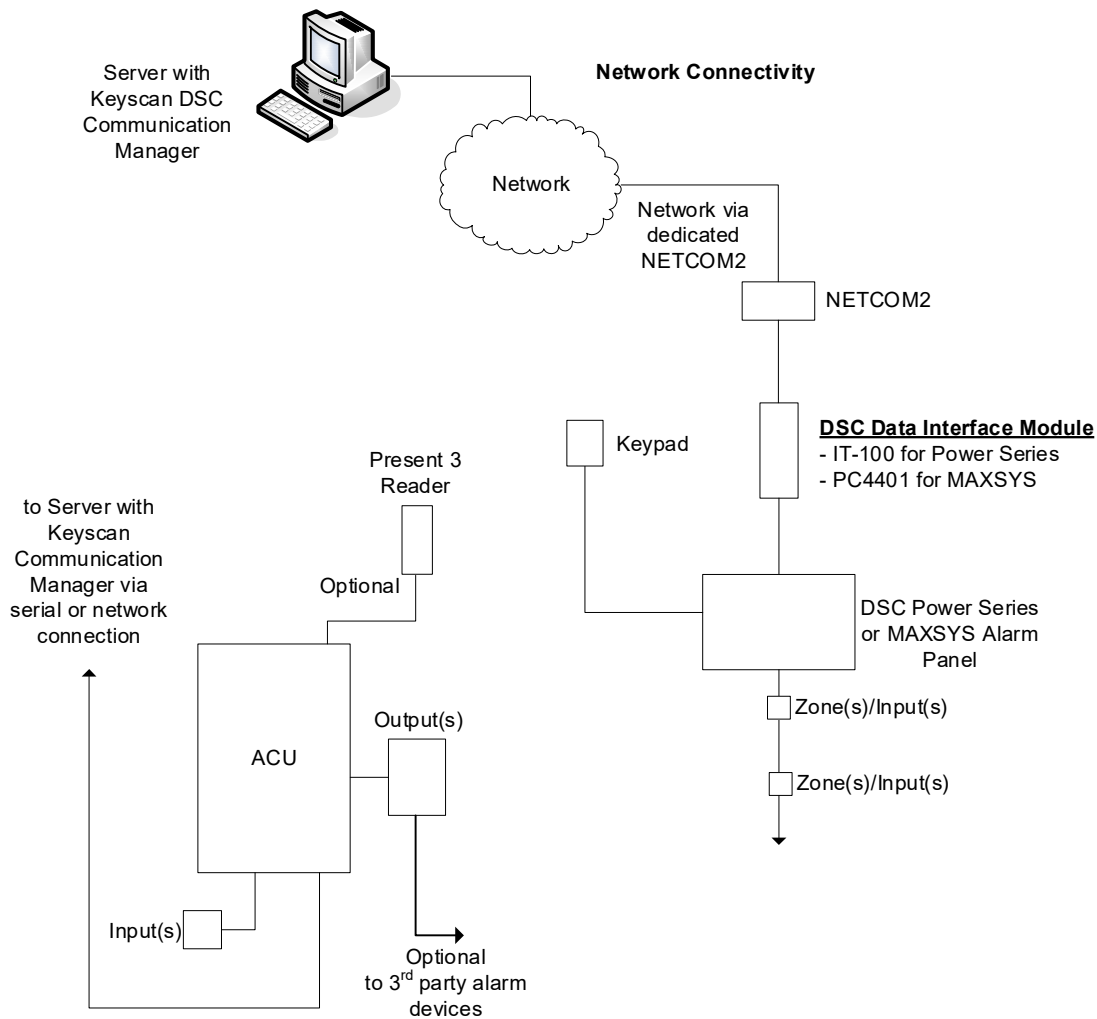
Supported Communication

The DSC alarm panel integration with Aurora only supports network connections as outlined:

- Each DSC alarm panel requires a dedicated NETCOM2*

*The NETCOM cannot be shared on a Keyscan control unit communication bus.

Figure 2 - Keyscan - DSC System Integration Overview



Important

Keyscan integration with a DSC alarm panel only supports network connections with the following condition:

Network - a dedicated NETCOM* is required for each DSC alarm panel

*The NETCOM cannot be shared on a Keyscan control unit communication bus.

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DSC Data Interface Modules

The Keyscan DSC Integration software only supports the Power Series and MAXSYS alarm panels. To integrate with Keyscan, the Power Series and MAXSYS alarm panels require an optional data interface module as listed below. The modules are available through a DSC hardware supplier.

- DSC IT-100 module for a Power Series alarm panel
- PC4401 module for MAXSYS alarm panel

IT-100 Data Interface Module

The DSC IT-100 is used to interface with a DSC Power Series alarm panel. As outlined below, the IT-100 module can be configured for a network connection.



By default, the IT-100 and LCD keypads are addressed as keypad #8 in module supervision. To avoid conflicts re-address the LCD keypads to a keypad address number other than #8.

Power Series alarm panel user arming codes cannot be consecutive. Leave a gap of one number between codes. The following is an example of acceptable arming codes: 2443, 2445, etc.

Power Series user codes greater than 42 will not display during arming/disarming on the Keyscan software interface screen.

The IT-100 Data Interface Module was only tested with the English language setting.

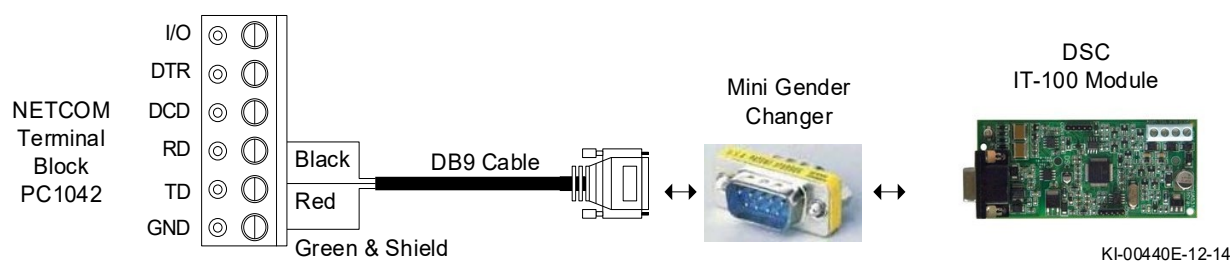
DSC IT-100 Network Connection

Integrate the DSC IT-100 module with a NETCOM using the DB9 cable with loose wires at one end, connect the devices as shown. Isolate and tape back unused wires. The NETCOM must be dedicated for the DSC panel.

Important – NETCOM2 Rev. B - PC1042

The diagram below shows DB9 cable connections to a NETCOM2 Rev. B - PC1042 circuit board. If using a NETCOM2 PC1041 or older circuit board, ensure that you connect the red to the RD terminal and the black to the TD terminal.

Figure 3 – NETCOM2 Rev. B (PC1042) / DB9 Connections with a DSC IT-100 Data Interface Module



DSC PC 4401 Data Interface Module

The DSC PC4401 is used to interface with a DSC MAXSYS alarm panel. As outlined below, the PC4401 module may only be configured for a network connection.

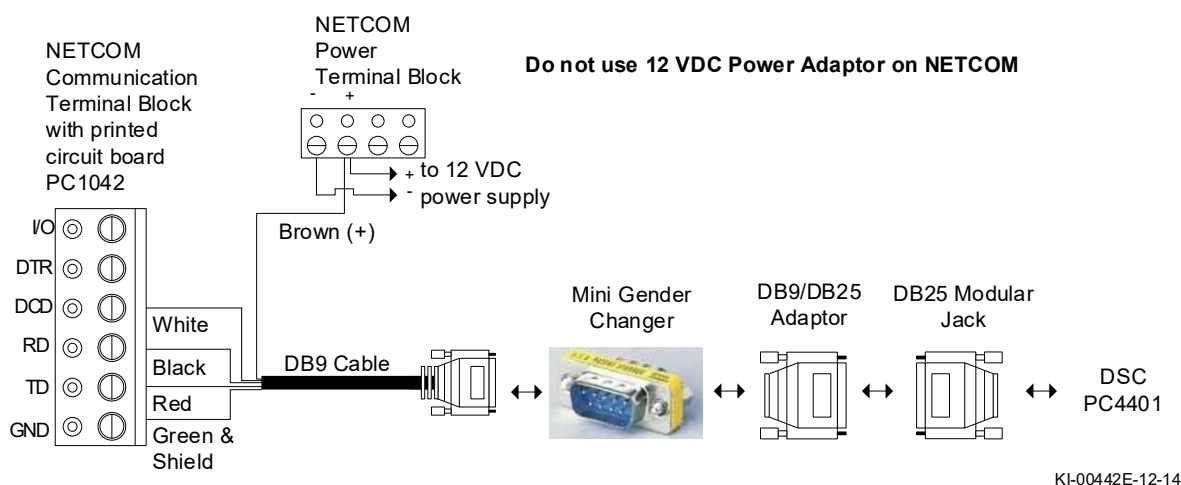
PC4401 Network Connections

If integrating the DSC PC 4401 module with a NETCOM using the DB9 cable with loose wires at one end, connect the devices as shown below. Isolate and tape back unused wires. Please remember that the NETCOM must be dedicated for the DSC alarm panel. See Figure 4 if connecting a NETCOM 2 with a printed circuit board PC1042 or higher.

Important – NETCOM2 Rev. B – PC1042

The diagram below shows DB9 cable connections to a NETCOM2 Rev. B - PC1042 circuit board. If using a NETCOM2 PC1041 or older circuit board, ensure that you connect the red to the RD terminal and the black to the TD terminal.

Figure 4 – NETCOM2 Rev. B (PC1042) / DB9 Connections with a DSC PC4401 Data Interface Module



Note

If the DSC MAXSYS keypad emits an intermittent beep and the Trouble LED is illuminated, you may have a communication cable error or an LCD trouble message – Data Link Offline. Refer to the DSC MAXSYS documentation.

Required Software and Hardware

Please ensure that you have the following hardware and software. Keyscan's DSC Integration License is only compatible with a DSC Power Series or MAXSYS alarm panel. You may configure multiple DSC alarm panels within a site in the Aurora software providing each DSC alarm panel has a dedicated NETCOM and a DSC interface module.

DSC Hardware

- DSC IT-100 Module for Power Series
- PC4401 Module for MAXSYS

Aurora Software

- Version 1.0.1.0 or higher

Network Connections

- 9-pin M-M adaptor (mini gender changer) – required for Power Series alarm panel integration
- 9-pin M-M adaptor (mini gender changer) and DB9/DB25 adaptor – required for MAXSYS alarm panel integration
- Dedicated NETCOM2 including data cable for each DSC alarm panel

Present3 (optional)

If using the optional Present3 function in the Aurora software for arming and disarming DSC partitions at a Keyscan access control system reader, you also require the following firmware:

- EPROM 9.20 or higher
- PC109x control board or higher

Required Setup Procedures

The following outlines required setup procedures to integrate the DSC alarm panel with a Keyscan access control system.

Hardware

Install all necessary DSC and Keyscan hardware and make all necessary computer connections. Ensure the DSC alarm panel is fully functional with a master code.

Software Installation

Depending on whether you are integrating the DSC alarm panel with an existing Keyscan system, with a new Keyscan system, or have only to register the DSC license, please review the following sub-headings for your particular installation.

New Keyscan Aurora Software Installation

If this is a new Aurora software installation, ensure that you install the DSC Intrusion Communication. This is a required software application so the Aurora software can communicate with the DSC panels.

Once you have installed and registered your software and with the Client main screen open, press the F1 key to open the Aurora help and setup your site. Select the Contents tab and double click on Basic Setup > Basic Site

Setup Procedures. When you have completed setting up your site, review the help topics listed under Intrusion Control Unit Integration to integrate the DSC panels.

DSC License Only

If you are currently operating Aurora, you only must register your DSC Integration license. You may have to install the DSC Intrusion Communication if it was not installed when Aurora was initially installed. The DSC Intrusion Communication is a required software application so the Aurora software can communicate with the DSC panels.

You can verify if the DSC Intrusion Communication was installed by selecting Windows Control Panel > Administrative Tools > Services and scroll down until you see Keyscan Aurora Intrusion Communication. The Services window lists services alphabetically. You must be at the server where DSC Intrusion Communication would have been installed.

If the Keyscan Aurora Intrusion Communication was installed it was configured to run automatically and should currently be running (Started).

If you did not see the Keyscan Aurora Intrusion Communication listed in the Services screen, load the Aurora Software Installation wizard on the server which will be used to communicate with the DSC panels. From the Aurora Installation screen, select the DSC Intrusion Communication Installation and follow the on-screen prompts.

Register the Software

Log on to a Client module. From the Aurora Client main screen, select Settings button > Software Registration. For assistance on registering, press the F1 key on the keyboard to open the help. Select the Contents tab and double click on the Software Registration book. Select How to Register Aurora.

DSC Integration Software Setup

After you have registered the DSC Integration license, you can begin to configure the Aurora interface screens for DSC integration. From the Aurora Client main screen, press the F1 key to access the Aurora help. Select the Contents tab and double click on the Intrusion Control Unit Management book. Review all the topics listed and follow the procedures.