
Chapter 1. DSC IP Alarm integration

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DSC Power Series alarm/intrusions panels are integrated into VAX through a network based communication using the UDP protocol. This chapter will cover the overall features of the integration, how to configure communication, how to functionally use the integration and use cases.

Caution

This chapter assumes that the reader is familiar with DSC Intrusion Panels. Please refer to their documentation for more details.

DSC Integration Features

The integration allows the following options:

- View status of Alarm Partitions and Alarm Zones through the VAX web interface through notifications or System Overview
- Arm (Stay Arm, Away Arm, Night Arm) and disarm through the VAX web interface, Mobile app, Action Plans or through the VAX API
- Bypass zones, contact emergency services, silence trouble beeping
- Configure Alarm related notifications as Triggers within Action Triggers
- Execute reports against Alarm Partitions, Zones and Intrusion specific notifications
- Associate Doors to Alarm Partitions so that a unsecure door will lock when the associated Alarm Partition arms and to facilitate single swipe disarm from the reader.

Integration Procedure

Successful integration involves configuration within the Intrusion Panel keypad and the VAX web interface. This section will summarize those steps. More details on the individual steps are covered in the proceeding sections.

Software and DSC Panel Preparation

1. Install and perform initial configuration of the VAX software.
2. Ensure server has a static IP or reliable DNS name and UDP port 3073 is allowed on any relevant firewalls or port forward rules (if the VAX server is remote from the Intrusion Panel).
3. Partitions and Zone definitions are configured within the Intrusion Panel, such as the names of the Zones and Partitions and is connected to the network.
4. Set the IP address (Local or Public) of the VAX server into the Session 1 Integration Server IP menu within the Intrusion Panel ([*][8][installer code][851][428]) or set the DNS Name of the VAX

server into the Session 1 Integration Server DNS menu within the Intrusion Panel ([*][8][installer code][851][431]).

5. If the default port (UDP 3073) is not feasible, you may change the port through the Session 1 Integration Outgoing Port menu within the Intrusion Panel ([*][8][installer code][851][432]).
6. If a Static IP is required for the intrusion Panel (DHCP by default); these options can be set via the DSC LCD Keypad interface within:
 - Ethernet IP Address: [*][8][installer code][851][001]
 - Ethernet IP Subnet Mask: [*][8][installer code][851][002]
 - Ethernet Gateway IP Address: [*][8][installer code][851][003]
 - Primary Ethernet DNS IP: [*][8][installer code][851][007]
7. Set Communication Delay within the intrusion panel to 60 seconds ([*][8][installer code][377][002]).
8. Set Alternate Communicator within the intrusion panel to Yes ([*][8][installer code][382][5]).
9. Set the "Session 1 Integration Toggle Options 2" so that 3 and 5 are set (03 – Integration Over Ethernet, 05 – Integration Protocol) within the intrusion panel ([*][8][installer code][851][425]). LCD should show "--3-5---".
10. Set "Session 1 Integration Toggle Options 3" so that 1, 3 and 4 are set (01 – UDP Polling, 03 – Real-time Notification, 04 – Notification Follows Pool) within the intrusion panel ([*][8][installer code][851][426]). LCD should show "1-34----".
11. Integration ID is configured/obtained from the Intrusion Panel ([*][8][installer code][851][422]). The number will be 12 digits long.
12. Integration Access Code is configured/obtained from the Intrusion Panel ([*][8][installer code][851][423]). The default code is 12345678.
13. Installer Code is configured/obtained from the Intrusion Panel ([*][8][installer code][006][001]). Default code is 5555.
14. Master Code is configured/obtained from the Intrusion Panel ([*][8][installer code][006][002]). Default code is 1234.
15. Within the VAX web interface, add the Intrusion Panel via the Alarm Panels section with Name, Type, Site, Integration ID, Integration Access Code, Installer Code and Master Code noted from the previous steps.
16. Wait until you receive a Notification with the text "Alarm Panel is now Online".
17. Configure Notification Settings, Action Triggers and Action Plans to meet any integration specific goals.

In addition to these steps, hard wired integration may still be used via dry contact relay/input connections.

DSC Panel Communication Setup

This section outlines the steps and information required before adding the DSC Panel to VAX.

The communication architecture between the Intrusion Panel and VAX is client-server. The Intrusion Panel reaches out to a specified IP address using UDP port 3073 by default.

DSC Panels can communicate to up to 4 third-party services. Integration specific settings have a session associated with them. This section is written with Session 1 being assumed as the available session. Please refer to DSC documentation for clarification on which subsections are used for session 2, 3 and 4.

These steps should be taken after the VAX software has been installed, initial configuration has been completed and Partitions and Zones have been configured on the intrusion panel via the Hardwired LCD Keypad. For assistance with intrusion Panel specific steps, please contact DSC support.

Instructions for navigating to specific menus through the LCD Keypad will be displayed in the same manner they are displayed in DSC documentation.