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## **SMS Port List**

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## Overview

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This document lists and describes the ports used by SMS and optional SMS components.

## Ports Used by SMS v7.2.0

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- 10001** – SMS CIM (Vanderbilt Devices) default **outbound** TCP/IP communications port for networked controller communication to the CIM (i.e. the socket connection between the CIM and the controller will use port 3001 on the CIM and 10001 on the controller). Port 10001 must be open inbound on every controller and outbound on every workstation/server hosting a CIM. The CIM listens on port 3001 and the connection is initiated by the controller from port 10001. CIM to networked controller communication is defined in the “Define Controller” dialog in the System Manager application. If the default port is changed, it must also be changed in the controller settings via a telnet connection, or any alternative configuration method available (e.g. http, RR Controller Configurator, etc.).
- 1433** – SQL Server default TCP/IP communications port for default instances and SMS configured port for SMS installed named instance. All workstations/servers, including those hosting the SP and CIM modules, will need to connect to the SQL Server on port 1433 when TCP/IP is used for SQL communication and the default port has not been changed. Port 1433 must be open inbound on the SQL Server and outbound on every workstations/server running any SMS application. SQL Server can be configured to use the Windows Named Pipes protocol instead of TCP/IP. In addition, SQL Server can be configured to use a different port instead of the default of 1433 with TCP/IP.  
Refer to Microsoft SQL Server documentation for help on reconfiguring SQL Server communications.
- 1434** – SMS client SQL communications port for named instances. Microsoft operating systems will contact the SQP server on UDP port 1434 to determine the dynamic port to use for communicating with a SQL named instance. The SMS installer will configure the SQL Express SMS named instance to use port 1433. Port UDP 1434 must be open inbound on the SQL Server and outbound on every workstations/server running any SMS application or SMS may not be able to communicate with the SQL Express SMS named instance. If not using a SQL named instance, this port is not required.
- 211** – SMS default TCP/IP communications port used for SMS licensing. Port 211 must be open inbound and outbound between the workstation/server hosting the System Processor service (SP) and all other SMS workstations and servers.
- 22** – SMS Firmware Flash Utility default SSH/FTP communications port for performing firmware updates for VSRC or VSRC-M based network controllers with firmware v5.95+. Port 22 must be open inbound and outbound between any workstation/server that will be used to upgrade the firmware on VSRC or VSRC-M based controllers and every VSRC and VSRC-M based controller.
- 3001** – SMS CIM (Vanderbilt Devices) and mCIM (Authentic Mercury Devices) default TCP/IP communications port to networked controllers. Port 3001 must be open inbound on every workstation/server hosting a CIM and outbound from every networked controller configured for the CIM. CIM to networked controller communication is defined in the “Define Controller” dialog in the System Manager application. If the default port is changed, it must also be changed in the controller settings via a telnet connection, or any alternative configuration method available (e.g. http, RR Controller Configurator, etc.).
- 30129** – SMS SSRC Controller Group TCP/IP default communications port (SMS v5.3.8+). Port 30129 must be open inbound and outbound between all VSRC Controller Group members. Members of a Controller Group communicate with peers in the group in a mesh topology.
- 30131** – Port used by Discovery and Configuration Tool v1.5.7 or newer for Direct IP access to controllers which may be undiscoverable in a routed environment.
- 443** – Port used for secure https communication to VSRC-M based controllers running Firmware v6.60 or newer for accessing diagnostics and configuration pages. Port 443 must be open outbound from any client that will be used to configure or access diagnostics for these controllers and inbound to the controllers.

- 445** – Default Windows File Sharing SMB TCP communications port. Depending on network configuration, Windows File Sharing may alternately use ports 135 – 139 (TCP or UDP, as appropriate). Port 445 (or the appropriate file sharing ports) must be open inbound to the SMS Data Folder share and outbound from any workstation/server that will host the SMS client application.
- 5354** – SMS Communication Interface Module (CIM – Vanderbilt Devices) default TCP/IP communications port. Port 5354 must be open inbound on any workstation/server hosting a CIM and outbound for every workstation/server running any SMS application. The SMS installation process defines this port in the “services” file of each system under the service name “geo\_cm”. SMS CIM communications can be reconfigured by changing this value in the “services” file on every SMS workstation/server in the system.
- 5355** – SMS System Processor (SP) default TCP/IP communications port. Port 5355 must be open inbound on the workstation/server hosting the SP service and outbound on every workstation/server running any SMS application or service. The SMS installation process defines this port in the “services” file of each system under the service name “geo\_sp”. SMS SP communications can be reconfigured by changing this value in the “services” file on every SMS workstation/server in the system.
- 5370** – SMS Mercury Communication Interface Module (mCIM – Authentic Mercury Devices) default TCP communications port for Manual Overrides (MROs). Port 5370 must be open inbound on any workstation/server hosting an mCIM and outbound for every workstation/server running the SMS client application and will issue MROs. The SMS installation process defines this port in the “services” file of each system under the service name “geo\_cm\_am”. SMS mCIM communications can be reconfigured by changing this value in the “services” file on every SMS workstation/server in the system.
- 69** – SMS Firmware Flash Utility default UDP communications port for performing firmware updates for RCNX based network controllers. Port 22 must be open inbound and outbound between any workstation/server that will be used to upgrade the firmware on RCNX based controllers and every RCNX based controller. Note – this port and UDP communication is used to upgrade VSRC based controllers with firmware v5.94 and below.
- 80** – Port used for http communication to VSRC based controllers and VSRC-M based controllers prior to Firmware v6.60 for accessing diagnostics and configuration pages. Port 80 must be open outbound from any client that will be used to configure or access diagnostics for these controllers and inbound to the controllers.
- 9000** – TCP port used by Gatekeeper service for communications to all client applications. Port 9000 must be open outbound from all workstations/servers and inbound to the Gatekeeper (SP) host.
- 9999** – SMS RCNX based controller configuration default Telnet communications port. Port 9999 must be open outbound from any workstation/server that will configure the network/configuration settings for an RCNX based controller and inbound to each RCNX based controller.

## Ports Used with Assa Abloy IP-Enabled Locks (SMS v6.1.1+)

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- 2571** – Default port for IP-Lock to host communication. Port 2571 must be open outbound from all Assa Abloy IP-Enabled locks and inbound to the Assa Abloy Door Service Router (DSR) host system.

## Ports Used with Schlage NDE Series Devices (SMS v6.3.5+)

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- 8080** – Port used for broadcast messages by the Discovery and Configuration Tool (DCT) required for NDE device configuration and pairing. Port 8080 must be open inbound and outbound for UDP traffic between all Schlage NDE devices and any workstation running the DCT for NDE device configuration. Note – broadcast will only work between devices on the same network subnet without advanced switch configuration.

## Ports Used with Vanderbilt VMS (Optional)

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- 4242** – Port used for SMS DVR Bridge service communications to Vanderbilt Video Management System DVR host. Port 4242 must be open outbound from the SP host system to all V-VMS DVR host systems
- ICMP Ping** – Protocol used for SMS DVR Bridge service heartbeat to all DVR host systems. Must be enabled between the SP Host and all V-VMS DVR host systems.

## Ports Used with Redundant Recovery (RR) Only (Optional)

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- 21380** – SMS RR default TCP/IP communications port for the RRServ.exe process. The RR installation will install this service to all SMS workstations/servers. The RR client software (i.e. the RR Switch Wizard or the RR Workstation Configurator) will connect to workstations/servers on this port. Port 21380 must be open inbound at every workstation/server hosting the SMS client application and outbound from any workstation/server running the RR Management Tools to every workstation/server running the SMS client application. The SMS installation process defines this port in the “services” file of each system under the service name “geo\_rr”. SMS RR communications can be reconfigured by changing this value in the “services” file on every SMS workstation/server in the system.
- 22** – SMS default SSH and FTP communications port for the RR Management Tools for VSRC and VSRC-M based network controllers. Port 22 must be open outbound from any workstation/server that will be used to run the RR Management Tools to every VSRC and VSRC-M based controller. Port 22 must be open inbound to every VSRC or VSRC-M based controller from any workstation/server running the RR Management Tools.
- 30718** – SMS default TCP/IP communications port for RCNX controllers equipped with the GIPNX100 or GIPRCNX communications module. The RR client software (i.e. the RR Switch Wizard or the RR Controller Configurator) will connect to GIPxxxx equipped RCNX based controllers on this port. Port 30718 must be open inbound at every GIPxxxx equipped RCNX based controller and outbound from any workstation/server running the RR Management Tools to every GIPxxxx equipped RCNX based controller.
- 7000** – SMS default TCP/IP communications port for RCNX controllers equipped with the MSS100 communications module. The RR client software (i.e. the RR Switch Wizard or the RR Controller Configurator) will connect to MSS100 equipped RCNX based controllers on this port. Port 7000 must be open inbound at every MSS100 equipped RCNX based controller and outbound from any workstation/server running the RR Management Tools to every MSS100 equipped RCNX based controller.

## Ports Used with Guest Pass Web Registration (*Optional*)

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- 1433** – SMS Web requires communication with the SMS SQL database and will need to connect to the SQL Server on port 1433 when TCP/IP is used for SQL communication and the default port has not been changed. Port 1433 must be open outbound on the IIS Server hosting the SMS Web application. SQL Server can be configured to use the Windows Named Pipes protocol instead of TCP/IP. In addition, SQL Server can be configured to use a different port instead of the default of 1433 with TCP/IP. Refer to Microsoft SQL Server documentation for help on reconfiguring SQL Server communications.
- 1434** – SMS client SQL communications port for named instances. Microsoft operating systems will contact the SQP server on UDP port 1434 to determine the dynamic port to use for communicating with a SQL named instance. The SMS installer will configure the SQL Express SMS named instance to use port 1433. Port UDP 1434 must be open inbound on the SQL Server and outbound on the IIS Server hosting the Guest Pass Web Registration application SMS application or Guest Pass Web Registration may not be able to communicate with the SQL Express SMS named instance. If not using a SQL named instance, this port is not required.
- 80** – Default port for http communication. Port 80 must be open at the server hosting the Guest Web application and outbound from any workstation/server using a web browser to access the Guest Web application.

## Ports Used with SMS Web (*Optional*)

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- 1433** – SMS Web requires communication with the SMS SQL database and will need to connect to the SQL Server on port 1433 when TCP/IP is used for SQL communication and the default port has not been changed. Port 1433 must be open outbound on the IIS Server hosting the SMS Web application. SQL Server can be configured to use the Windows Named Pipes protocol instead of TCP/IP. In addition, SQL Server can be configured to use a different port instead of the default of 1433 with TCP/IP. Refer to Microsoft SQL Server documentation for help on reconfiguring SQL Server communications.
- 1434** – SMS client SQL communications port for named instances. Microsoft operating systems will contact the SQP server on UDP port 1434 to determine the dynamic port to use for communicating with a SQL named instance. The SMS installer will configure the SQL Express SMS named instance to use port 1433. Port UDP 1434 must be open inbound on the SQL Server and outbound on the IIS Server hosting the SMS Web application SMS application or SMS Web may not be able to communicate with the SQL Express SMS named instance. If not using a SQL named instance, this port is not required.
- 445** – Default Windows File Sharing SMB TCP communications port. Depending on network configuration, Windows File Sharing may alternately use ports 135 – 139 (TCP or UDP, as appropriate). Port 445 (or the appropriate file sharing ports) must be open inbound to the SMS Data Folder share and outbound from the IIS Server hosting SMS Web.
- 5354** – SMS Web requires communication with the SMS Communication Interface Module (CIM) for Manual Override commands. Port 5354 must be open outbound for the IIS server hosting the SMS Web application.
- 5355** – SMS Web requires communicates with the SMS System Processor (SP) for login and SMS Transactional data processing. Port 5355 must be open outbound for the IIS server hosting the SMS Web application.
- 443** – Default port for https communication. Port 443 must be open at the server hosting the SMS Web application and outbound from any workstation/server using a web browser to access SMS Web.
- 8082** – SMS Web utilizes Microsoft SignalR on the IIS server to provide event-driven, asynchronous I/O for transmitting SMS Transactional data to the SMS Web clients. Port 8082 must be open at the server hosting the SMS Web application and inbound and outbound from any workstation/server using a web browser to access the SMS Web application.

## Ports Used with SMS API (Optional)

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- 1433** – The SMS API requires communication with the SMS SQL database and will need to connect to the SQL Server on port 1433 when TCP/IP is used for SQL communication and the default port has not been changed. Port 1433 must be open outbound for any client hosting a custom application utilizing the SMS API. SQL Server can be configured to use the Windows Named Pipes protocol instead of TCP/IP. In addition, SQL Server can be configured to use a different port instead of the default of 1433 with TCP/IP. Refer to Microsoft SQL Server documentation for help on reconfiguring SQL Server communications.
- 1434** – SMS client SQL communications port for named instances. Microsoft operating systems will contact the SQP server on UDP port 1434 to determine the dynamic port to use for communicating with a SQL named instance. The SMS installer will configure the SQL Express SMS named instance to use port 1433. Port UDP 1434 must be open inbound on the SQL Server and outbound on any client hosting a custom application using the SMS API or the application may not be able to communicate with the SQL Express SMS named instance. If not using a SQL named instance, this port is not required.
- 5354** – The SMS API requires communication with the SMS Communication Interface Module (CIM) for Manual Override commands. Port 5354 must be open outbound for any client hosting a custom application utilizing the SMS API.
- 5355** – The SMS API requires communicates with the SMS System Processor (SP) for license validation and SMS Transactional data processing. Port 5355 must be open outbound for any client hosting a custom application utilizing the SMS API.