

Purpose

This document describes the SX1000 communication matrix.

Intended Audience

- This document is intended for:
- Network planners
 - System engineers
 - Field engineers
 - Network shift engineers
 - Network operators
 - Administration engineers

Organization

This document consists of the following parameters:

Source Device	Name of the source device.
Source IP Address	IP address of the source device.
Source Port	Number of the source port or source port number range.
Destination Device	Name of the destination device.
Destination IP Address	IP address of the destination device.
Destination Port	Number of the destination port or destination port number range, indicating the port that provides listening services.
Protocol	Protocols used at the transport layer, such as TCP, UDP, and SCTP.
Port Description	Details of the services provided on the listening port.
Listening Port Configurable (Y/N)	Indicates whether the listening port can be changed on the web UI or the CLI.
Authentication Mode	Authentication mode on the port, for example, authentication using the user name and password.
Encryption Mode	Encryption mode used on the port.
Plane	Plane to which the listening port belongs, such as the OM plane, control and signaling plane, user plane, or shared by all three planes.
Version	Version of the destination device that corresponds to the listening port.
Special Scenario	Special scenario where the listening port is used.

Change History

Changes between document issues are cumulative. The latest document issue contains all the changes in earlier issues.

Issue	Date	Description
1	2012/7/6	Announced by New Rock Technologies, Inc.
2	2015/1/27	Announced by New Rock Technologies, Inc.

Source Device	Source IP Address	Source Port	Destination Device	Destination IP Address	Destination Port	Protocol	Port Description	Listening Port Configurable (Y/N)	Authentication Mode	Encryption Mode	Plane
-	Random	Random	SX1000	SX1000 IP Address	5060	UDP	The signaling service port of SX1000 used for receiving SIP messages from terminals. It can be configured through Web GUI of SX1000, and the default value is 5060 and the valid range is 5060~9999.	Yes	None	None	Signaling
-	Random	Random	SX1000	SX1000 IP Address	5061	TLS	The signaling service port of SX1000 used for receiving the TLS encryption messages from terminals.It can be configured through Web GUI of SX1000. The default value is 5061 and the valid range is 5061~9999.	Yes	None	TLS	Signaling
SX1000	SX1000 IP Address	10000~30000	Soft Switch	Random	Random	UDP	The signaling service port of SX1000 used for sending and receiiving the SIP messages between SX1000 and the softswitch. It can be configured through Web GUI of SX1000. The default value is 10000 and the valid range is 10000~30000.	Yes	None	None	Signaling
-	Random	Random	SX1000	SX1000 IP Address	30000~31599	UDP	The sending and receiving port for RTP on SX1000. It can be configured through SX1000 Web GUI. The maximum value of the port is minimnum value plus 1599. The default minimun value is 30000 while the configurable range is 30000~31599.	Yes	None	None	Voice
-	Random	Random	SX1000	SX1000 IP Address	30000~31599	UDP	The sending and receiving port for SRTP on SX1000. It can be configured through SX1000 Web GUI. The maximum value of the port is minimnum value plus 1599. The default minimun value is 30000 while the configurable range is 30000~31599.	Yes	None	SRTP	Voice
-	Random	Random	SX1000	SX1000 IP Address	80	TCP	The TCP port for accessing SX1000 Web GUI	Yes	User name/ password	None	User Interface
-	Random	Random	SX1000	SX1000 IP Address	23	TCP	The TCP port for accessing SX1000 telnet	No	User name/ password	None	Telnet port
-	Random	Random	SX1000	SX1000 IP Address	7547	TCP	The monitoring port for SX1000 TR069	No	None	None	TR069 port