



SAMSUNG SDS EMM v1.5.x SUPPLEMENTAL PROCEDURES

Version 1, Release 1

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Developed by Samsung SDS and DISA for the DoD

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1. SECURITY READINESS REVIEW

1.1 General

When conducting a Samsung SDS Enterprise Mobility Management (EMM) server security review, the reviewer or auditor will identify security deficiencies and provide data from which to predict the effectiveness of proposed or implemented security measures associated with the Samsung SDS EMM.

1.2 Mobile Policy Review

Detailed policy guidance is available on the DISA Information Assurance Support Environment (IASE) website located at http://iase.disa.mil/stigs/mobility/Pages/policies.aspx.

Use the Mobile Policy STIG and the MDM Server Policy STIG to review the Samsung SDS MDM asset.

2. SAMSUNG SDS EMM SERVER SOFTWARE SECURITY AND CONFIGURATION INFORMATION

Instructions to properly install the Samsung SDS EMM Server are provided in the following documents:

- Samsung SDS EMM Installation Guide, Version 1.5.1, December 2016
- Samsung SDS Push Installation Guide, Version 1.5.1, December 2016
- Samsung SDS AppTunnel Installation Guide, Version 1.5.1, December 2016
- Samsung SDS EMM Administrator's Guide, Version 1.5.1, December 2016

2.1 Samsung SDS EMM Server Architecture

The Samsung SDS EMM Server can be deployed with or without proxy servers in a DMZ. The following two diagrams depict these architectures.

Refer to Section 1.2.2 of the Samsung SDS EMM Installation Guide, Version 1.5.1, December 2016, for more details.

Figure 2-1: Samsung SDS EMM Server Single Server Architecture

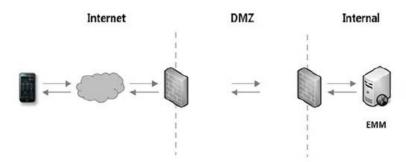
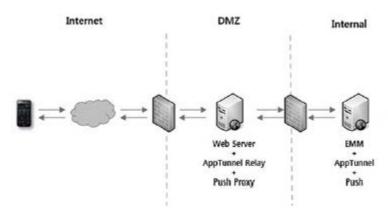


Figure 2-2: Samsung SDS EMM Server Multi-Server Architecture



2.2 MDM Software Components

Table 2-1: Samsung SDS EMM Server Core Components

Component	Description
EMM Agent	Software installed within an Android mobile
	device.
EMM Server	The main server running to which remote
	administrators connect. The EMM Server
	bears responsibility for all logic needed to
	manage mobile devices.
Push Server	The Push Server accepts connections from
	mobile devices and then relays the messages
	to and from the EMM Server (for example, to
	send policies to an agent or to send back a
	reply from an agent). One can install multiple
	Push Servers in order to allow the overall
	solution to scale the supported number of
	mobile devices (a single Push Server
	configuration was used during testing).
AppTunnel Server	The AppTunnel server accepts connections
	from the EMM Client (one of the three
	portions of the agent software on Android)
	and allows the Client to upload log files or
	download mobile applications to be installed
	by the agent.
AppTunnel Relay (multi-server architecture	A proxy to forward communication to an
only)	AppTunnel Server.
Push Proxy (multi-server architecture only)	A proxy to forward communication to a Push
	Server.
Web Server (multi-server architecture only)	A proxy to forward communication to an
	EMM Server.

2.3 Samsung SDS EMM Server MDM Required Firewall Ports

The ports listed in Table 2-2 are examples and can be adjusted during product installation as needed to meet a customer's specific network.

Table 2-2: Required Ports and Services

From	To	Port	Description
Web Browser or MD	EMM Server	35443	Offers remote
Agents			administration interface.
MD Agents	AppTunnel Server	36000	Supports MAS functions.
MD Agents	Push Server	35000, 35001,	Supports communication
		35003	between Agents and EMM
			Server.

From	To	Port	Description
EMM Server	Apple APNS	2195/2196	Communication between
			EMM and Apple APNS for
			iOS Support.
EMM Server	Microsoft SQL	1433	Communication to and
	Database Server		from the Database.
iOS MD Agents	Apple APNS	5223 / 443	Supports communication
			between iOS Agent and
			Apple APNS.
Knox Agent	Knox Licensing	443	Allows for license
	Server		validation for Samsung
			Knox devices.
EMM	Knox Licensing	443	Allows for license
	Server		validation for Samsung
			Knox devices.