Quantum Scalar Key Manager 2.6 Release Notes

Product	Scalar Key Manager (SKM)
Version	2.6
Software	260Q.GC00600
Date	January 2019

Contents

Purpose of This Release

The SKM 2.6 release Provides the following:

- Updates the operating system Ubuntu 16.04.
- Provides TLS 1.2 support.
  - Upgraded SKM servers (VM and appliance) will default to TLS 1.0.
  - New installations of SKM servers (VM or appliance) will default to TLS 1.2.
- Corrects critical and high identified security issues.

Note: The SKM 2.5.2 release provides support for VMWare ESXi 5.x and 6.x only. SKM 2.5.1 will continue to support the SKM appliance and VMWare ESXi 4.x.

These notes also provide library, tape drive, and firmware compatibility information. Visit http://www.quantum.com/ServiceandSupport/SoftwareandDocumentationDownloads/SKM/Index.aspx for additional information about Scalar Key Manager.

Obtaining the Latest Firmware Release

To obtain SKM 2.6 firmware, you must contact Quantum Service and Support:

http://www.quantum.com/ServiceandSupport/Index.aspx

General Usage Notes

Caution: Do not remove any hard drive from the appliance server unless it is failed or you are instructed to do so by Quantum service. Removing any hard drive may render it unusable.

Firmware Notes

These release notes list information should be aware of as you set up, configure, and use SKM.

- SKM and Quantum Encryption Key Manager (Q-EKM) are not supported on the same library.

- Password — If you change the password on the SKM server (the default password is "password"), it is extremely important that you remember the new password. The password can be different for each SKM server, so be sure to remember both. If you forget your password, you will lose login access to the SKM server, including backup and restore capability. Quantum will NOT be able to reset or restore the password.

- Date settings on SKM servers and library — The date on the SKM servers and the library must be set to the current date. Incorrect date settings may interfere with the TLS certificates and cause the library to stop communicating with the SKM servers.

- Backing up the keystores — It is extremely important that you back up both SKM servers (best practice) every time you generate new data encryption keys and before you use these new keys to encrypt data. You should also back up the servers when you import keys. You must back up each server separately because the keystores contain different data. The only way to read encrypted tapes is via the data encryption keys in the keystore. If your SKM servers fail without a backup, you will permanently lose access to all your encrypted data. If an SKM server fails and needs to be replaced, the backup is required to restore operation.

- Generating encryption keys — Generating encryption keys on an SKM server from more than five connected libraries at the same time is not recommended.

Library Compatibility

SKM 2.6 supports all Scalar libraries. For firmware pre-requisite versions, reference the tape library documentation and/or firmware release notes.

Note: The SKM 2.5.2 release supports VMWare ESXi 5.x and 6.x only. SKM 2.5.1 will continue to support the SKM appliance and VMWare ESXi 4.x.

SKM Software Version Matrix

SKM software versions are listed differently in different locations. This matrix shows you how each version is listed in the different locations.

Note: SKM releases earlier than version 2.1 are no longer supported. Contact your Quantum representative to upgrade to a current release.

Location	Server Software Version						
	QKM 1.0	SKM 2.1	SKM 2.1.1	SKM 2.2	SKM 2.3	SKM 2.4	SKM 2.5 and higher
Scalar i40/i80 **pre-i3** library UI (Reports > System Info)	1.0.3	2.0.3a	2.0.3a	2.0.3a	2.0.3a	2.0.3a	2.0.3a
Scalar i40/i80 **i3+** library UI (Reports > System Info)	1.0.3	210Q	211Q	220Q	230Q	240Q	250Q
Scalar i500 **pre-i7** library UI (Reports > System Info)	1.0.3	2.0.3a	2.0.3a	2.0.3a	2.0.3a	2.0.3a	2.0.3a
Scalar i500 **i7+** library UI (Reports > System Info)	1.0.3	210Q	211Q	220Q	230Q	240Q	250Q
Scalar i2000/ i6000 library UI (Monitor > EKM Servers)	1.0.3	2.0.3a	2.0.3a	2.0.3a	2.0.3a	2.0.3a	2.0.3a
Scalar i3	N/A	N/A	N/A	N/A	N/A	240Q	250Q
Scalar i6	N/A	N/A	N/A	N/A	N/A	240Q	250Q
SKM Server (./skmcmds -v)	100Q	210Q + 2.1.1	211Q + 2.1.1	220Q + 2.1.1	230Q + 2.1.1	240Q	250Q
SKM Server Log (collected by library)	1.0.3	2.0.3a	2.0.3a	2.0.3a	2.0.3a	2.0.3a	2.0.3a
SKM Server Log (collected from server)	1.0.3	2.0.3a	2.0.3a	2.0.3a	2.0.3a	2.0.3a	2.0.3a

Fixed Issues

This release of firmware has the following fixed issues.

Change Request Number	Service Request Number	Description
69626		Upgraded thttpd to resolve security issues.
69127		Upgrade operating system to Ubuntu 16.04
69129		Correct critical and high security issues
69143		Add support to set minimum TLS version to 1.0, 1.1 or 1.2
69517		Added used key report

Known Issues

This release of firmware has no known issues.

Related Documents

The following publications provide information related to SKM. For the latest versions, visit http://www.quantum.com/ServiceandSupport/SoftwareandDocumentationDownloads/SKM/Index.aspx.

Document No.	Document Title
6-66532-xx	Scalar Key Manager Quick Start Guide
6-66531-xx	Scalar Key Manager User's Guide
6-67122-xx	Scalar Key Manager Rack Installation
6-66572-xx	Scalar Key Manager Safety Information by IBM
6-67320-xx	Scalar Key Manager Open Source License Agreement
6-66545-xx	Scalar i40/i80 User's Guide

Document No.	Document Title
6-01210-xx	Scalar i500 User's Guide
6-00421-xx	Scalar i2000 User's Guide
6-66879-xx	Scalar i6000 User's Guide
6-68528-xx	Scalar i3 Documentation Center: http://www.quantum.com/scalari3docs
6-68529-xx	Scalar i6 Documentation Center: http://www.quantum.com/scalari6docs

Contacting Quantum

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  http://www.quantum.com/ServiceandSupport/Index.aspx

- **eSupport** - Submit online service requests, update contact information, add attachments, and receive status updates via e-mail. Online Service accounts are free from Quantum. That account can also be used to access Quantum's Knowledge Base, a comprehensive repository of product support information. Sign up today at:

  http://www.quantum.com/customercenter/

- **StorageCare Guardian** - Securely links Quantum hardware and the diagnostic data from the surrounding storage ecosystem to Quantum's Global Services Team for faster, more precise root cause diagnosis. StorageCare Guardian is simple to set up through the internet and provides secure, two-way communications with Quantum's Secure Service Center. More StorageCare Guardian information can be found at:

  http://www.quantum.com/ServiceandSupport/Services/GuardianInformation/Index.aspx

For further assistance, or if training is desired, contact the Quantum Customer Support Center:

For worldwide support:

http://www.quantum.com/ServiceandSupport/Index.aspx