



Quantum Scalar Key Manager 2.1.1 Release Notes

Product	Scalar Key Manager (SKM)
Version	SKM 2.1.1
Software	211Q.GC00200
Date	October 2014

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Purpose of This Release

The SKM 2.1.1 is a maintenance release to provide an important security fix for the Shellshock Bug. 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.

About the Shellshock Bug

Like many other companies, Quantum has been affected by the Shellshock bug, a serious vulnerability in GNU Bourne Again Shell (BASH), the common command-line shell utility. The Shellshock bug may allow an attacker to remotely execute arbitrary commands resulting in disclosure of information, modification of data, and/or service disruption. A number of Quantum products are built upon operating environments that incorporate BASH and may be exposed to this vulnerability. Quantum is committed to providing timely product updates to correct the Shellshock bug.

Although SKM 2.1 and earlier incorporate the version of BASH that is vulnerable to the Shellshock bug, these SKM versions are only indirectly affected. Attackers would need to be able to first log into BASH as root before exploiting the Shellshock bug. For enhanced security, however, SKM 2.1.1 includes the updated BASH RPM to fix the Shellshock bug.

New Features and Enhancements

SKM 2.1.1 includes the following enhancement.

- Open Source License version for the GNU Bourne Again Shell updated to bash 4.1-2ubuntu3.4.

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 a SKM server fails and needs to be replaced, the backup is required to restore operation.
- Generating encryption keys — It is not recommended to generate encryption keys on an SKM server from more than five connected libraries at the same time.

Library Compatibility

SKM 2.1.1 supports all Scalar libraries. For firmware pre-requisite versions, reference the tape library documentation and/or firmware release notes.

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.

Location	Server Software Version				
	QKM 1.0	SKM 1.1	SKM 2.0	SKM 2.1	SKM 2.1.1
Scalar i40/i80 pre-i3 library UI (Reports > System Info)	1.0.3	1.0.3	2.0.3a	2.0.3a	2.0.3a
Scalar i40/i80 i3+ library UI (Reports > System Info)	1.0.3	110Q.GC01100	200Q.GC01400	210Q.GC01200	211Q.GC00200
Scalar i500 pre-i7 library UI (Reports > System Info)	1.0.3	1.0.3	2.0.3a	2.0.3a	2.0.3a

Location	Server Software Version				
	QKM 1.0	SKM 1.1	SKM 2.0	SKM 2.1	SKM 2.1.1
Scalar i500 i7+ library UI (Reports > System Info)	1.0.3	110Q.GC01100	200Q.GC01400	210Q.GC01200	211Q.GC00200
Scalar i2000/i6000 library UI (Monitor > EKM Servers)	1.0.3	1.0.3	2.0.3a	2.0.3a	2.0.3a
SKM Server (./skmcmds -v)	100Q.GC00800	110Q.GC0110 + 1.0.3	200Q.GC0140 + 2.1.1	210Q.GC01200 + 2.1.1	211Q.GC00200 + 2.1.1
SKM Server Log (collected by library)	1.0.3	1.0.3	2.0.3a	2.0.3a	2.0.3a
SKM Server Log (collected from server)	1.0.3	1.0.3	2.0.3a	2.0.3a	2.0.3a

Qualified Backup Applications

SKM 2.1.1 has been tested with the following backup applications. Other applications that are not listed may also work.

Backup Application	Supported Versions
CA ARCserve®	11.5 and later
CommVault® Simpana®	8 and later
EMC® NetWorker®	7.5 and later
HP Data Protector	6.1 and later
IBM® Tivoli® Storage Manager	5.4/6.0 and later
Symantec™ Backup Exec™	12.5 and later
Symantec NetBackup™	6.5 x and later

Resolved Issues

There are no additional resolved issues in this release of the firmware.

Known Issues

There are no known issues in this release of the firmware.

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
6-66532-05	Scalar Key Manager Quick Start Guide
6-66531-05	Scalar Key Manager User's Guide
6-67122-01	Scalar Key Manager Rack Installation
6-66572-03	Scalar Key Manager Safety Information by IBM
6-66535-05	Scalar Key Manager Open Source License Agreement
6-66545-xx	Scalar i40/i80 User's Guide
6-01210-xx	Scalar i500 User's Guide
6-00421-xx	Scalar i2000 User's Guide
6-66879-xx	Scalar i6000 User's Guide

Scalar Key Manager Documents updated for this release:

- Scalar Key Manager Open Source License Agreement

Contacting Quantum

StorageCare™, Quantum's comprehensive service approach, leverages advanced data access and diagnostics technologies with cross-environment, multi-vendor expertise to resolve backup issues faster and at lower cost.

Accelerate service issue resolution with these exclusive Quantum StorageCare services:

- **Service and Support Web Site** - Register products, license software, browse Quantum Learning courses, check backup software and operating system support, and locate manuals, FAQs, firmware downloads, product updates and more in one convenient location. Benefit today at:
<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/osr>
- **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:

United States	800-284-5101 (toll free) 949-725-2100
EMEA	00800-4-782-6886 (toll free) +49 6131 3241 1164
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