

# VIOLIN<sup>®</sup>SYSTEMS

## Concerto<sup>™</sup> 7.7.1.3 Release Notes

For XVS Platforms

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## Introduction

This document includes the release notes for Concerto OS 7.7.1.3. The software releases are applicable to the XVS Platforms.

## Supported XVS Models

- XVS 8164
- XVS 8224
- XVS 8264

## Supporting Software

Concerto OS 7.7.1.3 is supported by the following software:

- Aria 7.5.0.1
- Symphony 3.9.0 and 3.10.0

## Bug Fixes

The Concerto 7.7.1.3 release consists of key bug fixes.

## Concerto Bug Fixes

Concerto 7.7.1.3 includes bug fixes related to SNMP status reporting and data integrity issues with dedupe LUNs.

## Resolved Issues

This section lists resolved issues for the Concerto OS.

### Concerto Resolved Issues

Bug	Description
36394	If only SNMP v3, concerto top-level script times out
37186	Fix for a potential data-integrity issue when using dedupe LUNs with snapshots in conjunction with an abort event such as an MG takeover/takeback.

## Known Issues

This section lists known issues for Concerto.

### Concerto - Known Issues

The following table lists known issues in Concerto 7.7.1.3:

**Table Legend:** The ✓ symbol denotes issues that have a workaround.

Bug	Description
36188	Free space in the dedupe engine is not available for use by non-dedupe LUNs.
36079	Potential long failover times with >250 LUNs.
✓ 37245	Recovery script recover_host.sh causes permissions problems for REST API such that symphony cannot access. <b>Workaround:</b> Follow the instructions in the <a href="#">Upgrading the Software</a> section.
✓ 37144	rpm_upgrade throws "AttributeError" when upgrading to 7.7.1.3. <b>Workaround:</b> Follow the instructions in the <a href="#">Upgrading the Software</a> section.

## Upgrading the XVS Platform

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### **WARNING!**

When upgrading to Concerto 7.7.1.3 from an earlier version, **DO NOT** use the rpm\_upgrade script on the system. Instead, download a copy of the rpm\_upgrade file from the same folder as the upgrade file in the Violin Systems customer support portal to the /root directory.

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The table in this section identifies the supported starting versions for the XVS from which to upgrade to Concerto 7.7.1.3.

Previous software versions and upgrade instructions are available from Violin Systems Customer Support at <http://www.violinsystems.com/support/>.

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**Note:** Refer to the appendix section in this Release Notes document for the procedure applicable to the Concerto upgrade that you need to perform.

For instructions on upgrading the Symphony software, refer to the Symphony 3.10.0 release notes.

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### Supported Upgrade Paths

The following tables identify the supported *starting* versions for the XVS platforms from which to upgrade to Concerto 7.7.1.3.

Previous software versions and upgrade instructions are available from Violin Systems Customer Support at <http://www.violinsystems.com/support/>.

Starting Concerto Version	Upgrade Steps
Concerto 7.7.1	Upgrade to Concerto 7.7.1.3, Build 9436 directly

## Appendix A – Procedures

### Configuring Concerto Log Uploads for the HTTP/HTTPS Protocols

Perform the following procedure on both memory gateways:

Edit the `/PRODUCT/concerto/etc/logupload.curlrc` file as follows:

1. Add a proxy server:

```
--proxy = "<proxy server IP>:<port>"
```

2. If the proxy server requires user authentication, then, also add the following line:

```
--proxy--user = "username:password"
```

**Example:**

```
--proxy = "192.168.0.253:8880"  
--proxy-user = "vmem-array:P@ssw0rd"
```

3. Verify that the log uploads are working by using the following command:

```
logsend.sh -D2
```

---

**Note:** If you upgrade the memory gateways, this configuration will be lost. Then, you must reconfigure the log uploads.

---

### Verifying Current Software Version

This section has instructions for verifying the version of Violin Systems software running on a system.

#### Concerto

1. Start a terminal session to the Master Memory Gateway using its IP address or host name.
2. Log in using the following credentials:

Log in as: "root" Default password: "ViolinMEM1"

```
login as: root  
Using keyboard-interactive authentication.  
Password:  
Last login: Fri Nov 30 11:46:34 2018 from 10.12.20.11  
#####  
##                AUTHORIZED USERS ONLY                ##  
##                                                        ##  
##      The information on this computer is protected by    ##  
##      intellectual property rights. Your activity may be  ##  
##      monitored and recorded.                            ##  
##                                                        ##  
#####  
12:51:34 root@lab-fill181010-mg-a ~ #
```

3. Type “`isscli getserverversion`” at the command prompt. For example, if the current version is 7.7.1, the following lines are returned:

```
12:55:48 root@lab-fill181010-mg-a ~ # isscli getserverversion  
  
Version 7.7.1, Build 9421  
Command: getserverversion executed successfully.
```

## Upgrading the Software

When you upgrade the software for an XVS, follow the order described in this section.

### Upgrade Order

You must upgrade the XVS components in the following order:

1. Upgrade the AIX PathManager, if applicable.  
This step requires unmounting file systems and deactivating volume groups on the AIX hosts. Refer to the “PathManager Release Notes for Concerto with AIX 6.1 and 7.1”, document number 535-0268-00 Rev 02.
2. Upgrade the Concerto software on the XVS.

### Prerequisites

How you upgrade the Concerto OS software depends on the current software version running on the Memory Gateways and on whether the XVS is in a High Availability (HA) state. Perform the steps listed in this section to determine both, and then to upgrade the Concerto software.

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#### **WARNING!**

When upgrading to Concerto 7.7.1.3 from an earlier version, **DO NOT** use the `rpm_upgrade` script on the system. Instead, download a copy of the `rpm_upgrade` file from the same folder as the upgrade file in the Violin Systems customer support portal to the `/root` directory.

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1. Go to <http://www.violinsystems.com/support-services/>.
2. Log in to the Customer Support portal using your Violin Systems Customer Portal login and password information.  
Contact Customer Support if you do not have an account.
3. Click the **Software Downloads** tab.
4. Navigate to the Concerto OS folder of version 7.7.1.3 and do the following:
  - a. Download the 7.7.1.3 software image to a client computer (laptop).
  - b. Download the `rpm_upgrade` script that is associated with the same 7.7.1.3 image to the `/root` directory.
5. Determine the monitor IP address and current version of the software, as follows:
  - a. Start a terminal session (SSH) to Memory Gateway A (`mg-a`) using any IP address that will launch a session on `mg-a`:

```
ssh root@<hostname-mg-a>
root@<hostname-mg-a-mon>password:
```

If you are currently logged in to the Master ACM, you can log in to mg-a by typing:

```
slogin root@<hostname-mg-a>
```

b. Issue the “ifconfig eth0” command to determine the monitor IP address of Memory Gateway A/Controller A.

In the following example, 10.5.1.142 is the monitor IP address:

```
08:47:52 root@<hostname-mg-a> ~ # isscli getserverversion

Version 7.7.1.1, Build 9426

Command: getserverversion executed successfully.
08:49:20 root@<hostname-mg-a> ~ # ifconfig eth0
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.5.1.142 netmask 255.255.240.0 broadcast 10.5.15.255
    inet6 fe80::290:fbff:fe66:2382 prefixlen 64 scopeid 0x20<link>
    ether 00:90:fb:66:23:82 txqueuelen 1000 (Ethernet)
    RX packets 27863089 bytes 2960342229 (2.7 GiB)
    RX errors 0 dropped 548 overruns 0 frame 0
    TX packets 3011586 bytes 2061056689 (1.9 GiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    device interrupt 20 memory 0xfb100000-fb120000
```

c. Issue the “concerto status” command to determine the current software version: For example, if the current version is 7.7.1.1, the following lines are returned:

```
08:53:46 root@<hostname-mg-a> ~ # concerto status

Violin Concerto Server version 7.7.1.1 (Build 9426)
Copyright (c) 2017-2019 Violin Systems LLC. All Rights Reserved.

Status of Concerto Authentication Module [RUNNING]
Status of Concerto Block Device Module [RUNNING]
Status of Concerto Base Module [RUNNING]
Status of Concerto IO Core Module [RUNNING]
Status of Concerto Upcall Module [RUNNING]
Status of Concerto Log Upload Services [RUNNING]
Status of Concerto iSCSI Target Module [RUNNING]
Status of Concerto iSCSI Daemon [RUNNING]
Status of Concerto Communication Module [RUNNING]
Status of Concerto CLI Proxy Module [RUNNING]
Status of Concerto Logger Module [RUNNING]
Status of Concerto Email Alerts Module [RUNNING]
Status of Concerto Statistic Monitoring Module [RUNNING]
Status of Concerto SNMPD Module [RUNNING]
Status of Concerto Self-Monitoring Module [RUNNING]
Status of Concerto Failover Module [RUNNING]
Status of Concerto Virtual SCSI Device Driver [RUNNING]
```



Status of Concerto Deduplication Module	[RUNNING]
Status of Concerto Node Manager	[RUNNING]
Status of Concerto Deduplication GC Dispatcher	[RUNNING]

## Upgrading Concerto OS on an XVS

1. Copy the downloaded RPM image to the /root directory on Memory Gateway A:

Windows:

```
pscp <filename> root@<hostname-mg-a>:/root (Putty SCP)
scp <filename> root@<hostname-mg-a>:/root (Cygwin SCP)
You can also use WinSCP: Graphical User Interface.
```

Unix/Linux/Mac OSX:

```
scp <filename> root@<hostname-mg-a>:/root (OpenSSH)
```

2. Start a terminal session (SSH) to Memory Gateway A using its monitor IP address:

```
ssh root@<hostname-mg-a>
root@<hostname-mg-a>password:
```

3. Issue the “isscli gettriggers” on both Memory Gateways to display the list of currently enabled triggers. Save the output to a text file.

```
isscli gettriggers 2>&1 | tee mga_triggers.txt
isscli gettriggers 2>&1 | tee mgb_triggers.txt
```

4. Issue the following command to upgrade the Memory Gateways: Usage:

```
/root/rpm_upgrade --rpm-path=<new-rpm-path> \
[--primary-server-password=<primary-server-password>] \
[--secondary-server-password=<secondary-server-password>]
```

**Example:**

```
/root/rpm_upgrade --rpm-path=/root/concerto-7.7.1.3-9436.x86_64-encrypt.rpm \
--primary-server-password=ViolinMEM1 \
--secondary-server-password=ViolinMEM1
```

- Upgrade can take up to 30-40 minutes. Please wait while the script is running the commands. For some commands such as “sms”, the script will run periodically.
  - Dedupe enabled systems can take longer than 30 minutes.
  - Script will output “PASSED” if successful, or, it will abort if an error/unexpected output occurs.
5. If the upgrade script fails with the following error, this means that HA is not configured:

Go to [Upgrading Concerto Software on a Non-HA XVS](#) if you see the following message:

“Primary server IP is not configured on port eth0:0. Please make sure that HA is configured and primary HA monitor port is eth0.”

6. If upgrade is successful, check the version of Concerto. In the following example, the current version is 7.7.1.3:

```
09:30:46 root@<hostname-mg-a> ~ # concerto status

Violin Concerto Server version 7.7.1.3 (Build 9436)
Copyright (c) 2017-2019 Violin Systems LLC. All Rights Reserved.
```

**Note:** There is more output returned by the “concerto status” command. We are only interested in the version, here.

7. Run the “sms” command to check HA status of both Memory Gateways (a and b):  
FailOverStatus: 1(UP)

```
09:33:42 root@<hostname-mg-a> ~ # sms
FailOverStatus: 1(UP)
IO Cache Failover State: GSM_HA_STEADY_STATE
GSM Usage Info: 64MB
Please use sms -u to get usage
09:33:52 root@cust-ship1-mg-a ~ #
```

```
09:34:00 root@<hostname-mg-b> ~ # sms
FailOverStatus: 1(UP)
GSM Usage Info: 64MB
Please use sms -u to get usage
```

8. Issue the “isscli gettriggers” command once again on both Memory Gateways to display the list of currently enabled triggers.  
Compare the output shown with that in the text file saved previously. If the configuration is different, issue the “isscli enabletriggers” command to update the triggers.

## Upgrading Concerto Software on a Non-HA XVS

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**Note:** Upgrading an XVS that is not in HA mode causes I/O disruption. Make sure that any applications using LUNs on the non-HA XVS are shut down before performing this operation.

---

1. Copy the RPM image to both Memory Gateways’ host IP addresses (used when running configuration jump-start):

Windows:

```
pscp <filename> root@<hostname-mg-{a|b}>:/root (Putty SCP)
scp <filename> root@<hostname-mg-{a|b}>:/root (Cygwin SCP)
You can also use WinSCP: Graphical User Interface.
```

Unix/Linux/Mac OSX:

```
scp <filename> root@<hostname-mg-{a|b}>:/root (OpenSSH)
```

2. Log in to each Memory Gateway and issue the following commands:

```
concerto stop all
rpm -e concerto
rpm -ivh /root/<rpm-name>
concerto start all
```

## Appendix B

### Violin Systems Customer Support

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