

Aperi SRM R0.4 & SAN Simulator R0.1 Initial Contribution

Integrated Development Verification Test Exit Document

Background

IDVT for Aperi SRM Stage 4 & SAN Simulator Stage 1, was performed from October 8, 2007 to January 11, 2008. The **Aperi_R0.4.0_incubation.zip** build for SRM and **Aperi_Simulator_R0.4.0_incubation.zip** build for SAN Simulator are the "Official IDVT Exit Builds". Testing was done on RedHat Linux and various Windows platforms.

This report documents the following:

- Period of testing
- Scenarios tested
- Resulting defects
- Any known workarounds
- The final IDVT status before exit.

Acquiring and Installing the Build

Aperi SRM R0.4 & SAN Simulator R0.1 incubation builds had been uploaded to the Eclipse download sites.

Here is the URL for the SRM bits:

http://www.eclipse.org/downloads/download.php?file=/technology/aperi/Aperi_R0.4.0_incubation.zip

Here is the URL for the SRM install instructions:

<http://www.eclipse.org/aperi/documentation/r4/install.php>

Here is the URL for the SAN Simulator bits

http://www.eclipse.org/downloads/download.php?file=/technology/aperi/Aperi-Simulator_R0.4.0_incubation.zip

Here is the URL for the SAN Simulator install instructions:

http://www.eclipse.org/aperi/documentation/r4/install_simulator.php

Test cases, defects, and status

The defects and result from the test cases were tracked in Eclipse bugs (Product Aperi) and the "Aperi v1 IDVT TTT" database. For periodic statuses of IDVT, please refer to

<http://wiki.eclipse.org/index.php/Aperi/Test/Status>

The official document for the Aperi IDVT Test cases is located in the Aperi wiki, along with the Approval record for the test plan.

IDVT exit criteria called for 100% exposure of IDVT test scenarios. – **100% of the test cases were exposed, 99% of which were successful.**

Exit criteria also call for all test scenarios to pass "either without severity 1 (Blocker, Critical) or 2 (Major) defects or with viable workarounds provided for any severity 1 or 2 defects." – **No severity 1 or 2 defects at time of exit.**

There were No severity 1 or 2 defects for both Aperi SRM & SAN Simulator code at the time of IDVT exit

Resolved IDVT defects at time of exit:

ID	Sev	OS	Status	Summary
205850	cri	Wind	RESO	Unable to create volume for DS8000 & ESS storage subsystems
206517	cri	Linu	RESO	Unable to install Aperi using GUI install for Linux platform
207882	cri	Linu	RESO	The derby.sh file created by Aperi GUI installer for Linux platform had windows notations
208708	cri	Linu	RESO	Agent can't scan SCSI disks on recent Linux version
209397	cri	Wind	RESO	Error running the install, Ant run failed
209574	cri	Linu	RESO	Unable to start servers/agents after installing Aperi on Linux platform
210569	cri	Wind	RESO	SanSimulator code failed to accept any port number for CIMOM configuration
199467	nor	Wind	RESO	Unable to add CIMOM agent accepting 'any' uid/pw
201569	nor	Wind	RESO	Derby DB causes java.lang.StackOverflowError
172223	maj	Wind	RESO	DB2 BigDecimal conversion exception when running probe of storage subsystem
199148	maj	All	RESO	org.mortbay.jetty.servlet.ServletHandler handle SEVERE: /aperi-reports/TreeControl?action=getChildren&data
210165	maj	Linu	RESO	Unable to login report viewing on Linux platform
211286	maj	Wind	RESO	No available extent pools on define the volumes panel when creating DS8000 volume
211618	maj	Wind	RESO	Running Snapshot-based device simulation failed with java.io.FileNotFoundException: conf\remove_override.txt
211917	maj	Wind	RESO	NullPointerException occurred when simulating switch to storage connection - use CIMOM to extract storage port information option
212337	maj	Wind	RESO	No target device returned when simulating switch to storage connection - use Database to extract storage port information option
213070	maj	Wind	RESO	Unable to connect to a snapshot-based simulated Brocade switches CIMOM
214784	maj	Wind	RESO	Switch to Switch or Switch to Storage Connections were not discovered by TPC 3.3
209115	nor	Wind	RESO	SBLIM CIM Client 1.3.3 approved
209850	nor	Wind	RESO	Derby 10.3.1.4 approved
185765	nor	Wind	RESO	aperi-20070506-212356: gui.bat launches legacy GUI not new GUI
201269	nor	Linu	RESO	GUI-Installer: some .sh files are missing in template dirs
207302	nor	Wind	RESO	Right Click is not Working in Aperi
211375	nor	Linu	RESO	getHBAPortWWN() doesn't work on 2.6 kernel with recent Qlogic driver
207203	min	Wind	RESO	org.mortbay.jaas Version: 5.1.10 approved

Workarounds and Qualifications

No workarounds needed for Aperi SRM R0.4 and SAN Simulator R 0.1

Other Known Issues

The following items detail some performance issues that were discovered with Derby for Aperi SRM code:

- Poor performance when generating an Assets report
Aperi Storage Manager->My Reports->System Reports->Fabrics->Port Connections
Aperi Storage Manager->My Reports->System Reports->Fabrics->SAN Assets(Connected devices)
It may take a while to get the report (2 mins for a 20 connected devices)
- The restriction for host port assignment during volume creation:
Aperi installations support volume creation, but not host port assignment for Derby db.
Check for this limitation to be addressed in a future release

The following items details some restrictions for Aperi SAN Simulator code

- Extrinsic methods (e.g. CreateOrModifyElementFromStoragePool, CreateZone etc...) are not supported in the snapshot and configuration implementation of the Storage Network Simulator. This feature will be added in the forthcoming versions.
- Zoning configuration for the Brocade Fabric (ZoneSet, Zone, ZoneMember) is not supported in the configuration based implementation of Storage Network Simulator. This feature will be added in the forthcoming versions.
- The current version of the Storage Network Simulator only allows connectivity between ports of the same fabric for Switch to Switch connectivity. Ports across different fabrics can not be connected.