sun microsystems

Systems Architecture Committee

Subject: COMSTAR: Common Multiprotocol SCSI Target

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File: PSARC/2007/523/opinion.ms

Date: February 20th, 2008

Committee: Mark Carlson (opinion written by Rick Matthews), Glenn Skinner

Product Approval Committee:
Solaris PAC
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1. Summary

COMSTAR is a software framework that enables a Solaris host to be used as a SCSI target platform.

2. Decision & Precedence Information

The project is approved as specified in reference [1].

The project may be delivered in a patch release of the NWS consolidation.

3. Interfaces

The project exports the following interfaces.

Interfaces Exported		
Interface	Classification	Comments
LU Provider	Committed	Implements functionality of a SCSI LU.
Port Provider	Committed	Implements functionality of a SCSI Target port.
stmf	Committed	Framework functions for LU providers and port providers.
ioctls for libstmf	Project private	Interface between stmf and libstmf.

The project imports the following interfaces.

Interfaces Imported		
Interface	Classification	Comments
Solaris DDI	Committed	
libstmf	Committed	From this project
libc	Committed	
libsysevent	Committed	
libpthreads	Committed	
libscf	Committed	

4. Opinion

The committee stipulated that the FMA ereport definitions be provided. Since inception, the project team has determined that there is already work ongoing to define FMA for storage. A response to this issue can be found in full at reference [2].

The committee approved without commitment review after the stipulation was satisfied, and a draft opinion written.

5. Minority Opinion(s)

None.

6. Advisory Information

None.

7. Appendices

7.1. Appendix A: Technical Changes Required

None.

7.2. Appendix B: Technical Changes Advised

None.

7.3. Appendix C: Reference Material

Unless otherwise stated, all path names are relative to the case directory (PSARC/2007/523).

1. commit.materials/libstmf_v1.pdf
   commit.materials/stmf_interface_spec.pdf
   commit.materials/stmfadm.pdf
   inception.materials/20Q.txt
2. commit.materials/jdc-2.response
   commit.materials/comstar.portfolio-p0
   See also: PSARC/2007/388 - Generic Topology for Internal Disks (FMA portfolio)
3. Supplementary materials
   inception.materials/smf_service_props.txt
   inception.materials/Security.txt