

Project Talk

Aperi Storage Management

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Agenda

- Mission
- Open Standards, SNIA and SMI-S
- Scope
- Initial Contributions
- Architecture
- Participants
- Roadmap and Schedule
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Mission

- Provide an open, extensible, standards- based storage management framework
- Give customers more flexibility and choice on how to manage their storage
- Simplify the infrastructure customers need to manage storage
- Cultivate an ecosystem for complementary products, capabilities, and services around the framework

Open Standards, SNIA and SMI-S

- SNIA - Storage Networking Industry Association
 - www.snia.org
 - „dedicated to ensuring that storage networks become complete and trusted solutions „
- SNIA's SMI – Storage Management Initiative
 - develop and standardize interoperable storage management technologies
- SMI-Standards are based on CIM WBEM technology
- SMI-S v1.0.2 was approved by ANSI as an industry standard
- Most initial Aperi participants are SNIA members
- The Aperi framework will include an implementation of SMI-S

Scope

- The Aperi Storage Management Framework architecture:
 - The discovery of host, storage, and infrastructure components through SMI-S;
 - Maintenance of a coordinated database;
 - A set of services including configuration, event and performance management;
 - Formalized interfaces between the applications and the storage management framework.

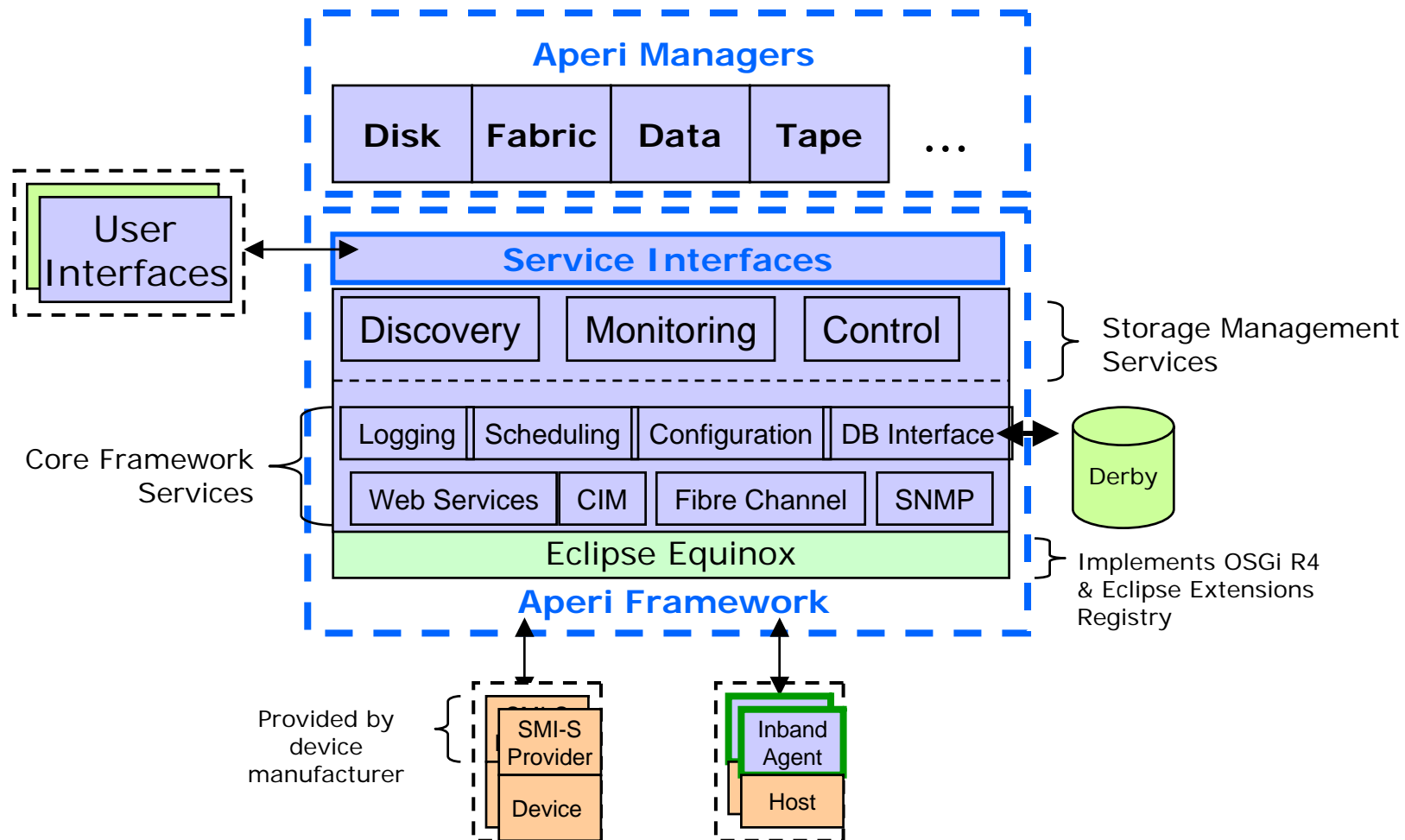
- The Aperi software project:
 - An open source implementation of the Storage Management Framework;
 - Implementations of representative applications that utilize the framework and deliver end-user functionality for enhanced storage management;
 - Additional functionality in the storage management framework.

Initial Code Contributions

- Code Contribution includes
 - GUI
 - API
 - Server
 - Host agent
 - Database schema using a open source RDBMS

- Major functions
 - Resource discovery, monitoring and reporting
 - Event management
 - Storage subsystem configuration, LUN assignment, and zoning
 - SAN Fabric Manager including graphical topology display
 - Tape Manager library discovery and reporting
 - File System Capacity Reporting (size, % used, %free only)

Aperi is migrating to an Eclipse / OSGi architecture



Roadmap and Schedule



R1

- Open, standards-based framework
- Initial IBM contribution
- Downloadable and demo-able
- Community evaluation

R2

- Componentization of architecture
- Extensibility through Eclipse Platform
 - Dynamic plug-ins extend framework

R3

- Initial Eclipse Rich Client Platform GUI
 - Refactored GUI using dynamic plug-in architecture
 - Topology viewer plug-in

R4

- Broad SMI-S profile support
- Unified Storage support
- Complete Eclipse RCP GUI

Participants

Project Lead: Ted Slupesky

- **Committers**

- CA <http://ca.com/>
- Emulex <http://www.emulex.com/>
- Fujitsu <http://www.fujitsu.com/>
- IBM <http://www.ibm.com/>
- McDATA <http://www.mcddata.com/>
- NetApp <http://www.netapp.com/>
- Novell <http://www.novell.com/>

- **Interested Parties**

- Brocade <http://www.brocade.com/>
- Cisco <http://www.cisco.com/>
- LSI Logic (Engenio Storage Group) <http://www.engenio.com/>

Further information about the Aperi project

- Project Website
<http://www.eclipse.org/aperi>
- Project News:
<news://news.eclipse.org/eclipse.technology.aperi>
- or contact Christoph Reichert
Christoph.Reichert@de.ibm.com
- and visit the Aperi Project Poster Session

Questions?