



# Aperi Storage Management Project

An Introductory Demonstration

# Agenda

- Aperi Overview
- Benefits to Storage Community
- Architecture & Capabilities
- Live Demo
- Case Study - Novell
- Q&A

# Aperi Open Source Storage Management Project

- ***Implementation of SMI-S standards***
- ***Alliance announced with Storage Networking Industry Assoc (SNIA)***
- ***Vendor-neutral framework***
- ***A project at the Eclipse Foundation***
- ***Code available under Eclipse Public License***

- *Brocade Communication Systems, Inc.*
- *Cisco Systems, Inc.*
- *CA, Inc.*
- *Emulex Corporation*
- *LSI Logic Corporation (Engenio Storage Group)*
- *Fujitsu Limited*
- *IBM Corporation*
- *Network Appliance, Inc.*
- *Novell, Inc.*
- *Yotta Yotta, Inc.*
- *And others ...*

***"Together, we plan to accelerate further the adoption of SMI-S and help ensure that end users have the confidence that Aperi development efforts are complementary to the SNIA's SMI-S progress."***

*-- Vincent Franceschini, SNIA Board Chairman*

# Benefits for Vendors & Users

## ***Storage Vendors***

- Accelerates product development cycles, decreases development costs, increases customer trial and adoption, and lowers cost of customer acquisition
- Delivers strong foundation on which others can quickly build and innovate
  - New vendors and ideas enter the marketplace
- Helps reduce interoperability challenges by allowing vendors to contribute code directly to the framework or interface with it
- Implements SMI-S standards that many vendors already support
- Value accelerates as more vendors join and interface with framework (Law of Network Effect)

## ***Storage Users***

- Accelerates the advancement of interoperability and interchangeability across storage systems, devices, and management software
- Encourages greater flexibility and choice for customers – reducing customer costs
- Open source model encourages end user customization
- Increases vendor collaboration on SMI-S to spur innovation and reduce barriers to interoperability

# Aperi Scope

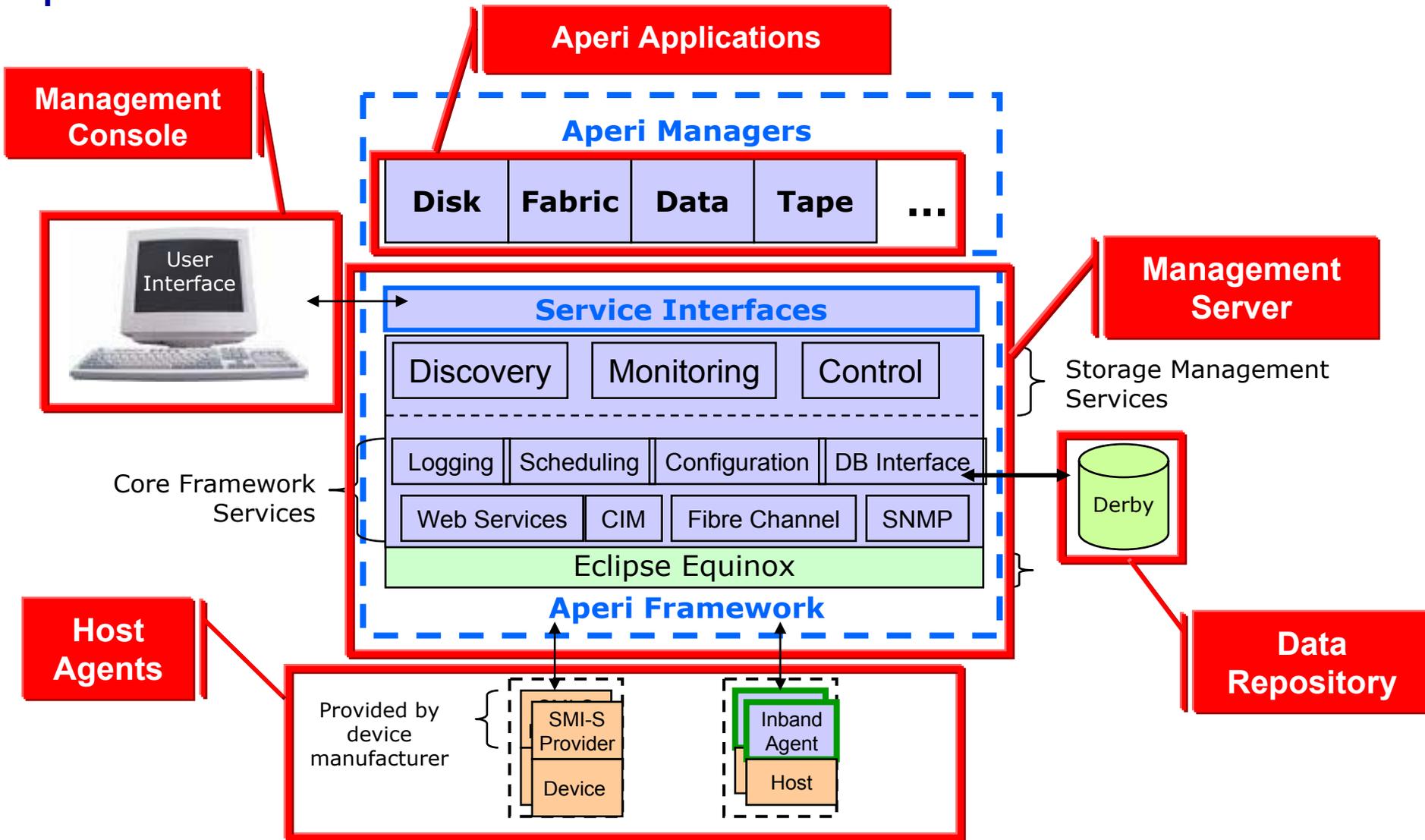
## ***Modular and Extensible Architecture***

- Basic management components act as building blocks for advanced capabilities

## ***Major Functions Include:***

- Resource discovery, monitoring, and reporting across heterogeneous devices
- Graphical user interface, including topology mapping
- Event management
- Storage subsystem configuration and LUN provisioning
- Storage area network (SAN) fabric management
- Tape-library discovery and reporting
- File-system capacity reporting (size, percent used, percent free, etc.)

# Aperi Architecture



# Aperi Milestones

- June 2006 - Novell joins Aperi & community submits project proposal to host project at Eclipse Foundation
- August 2006 - Eclipse announces formal approval of the Aperi Storage Management Framework Project
- August 2006 - Aperi release 0.1 code passes SNIA conformance testing (CTP) for disk array discovery and disk array management
- October 2006 – Aperi release 0.1 code passes Eclipse's rigorous intellectual property review
- November 2006 - Aperi code made available for public download
- January 2007 – Aperi milestone release 0.2 available for download
- May 2007 – Aperi release 0.3 milestone release available for download
- May 2007 – Yotta Yotta, Inc. latest to join Aperi community

## Comments or Suggestions?

*Let Us Know What You Think...*

- Aperi Mailing List  
*[aperi-news@eclipse.org](mailto:aperi-news@eclipse.org)*
- Aperi Project Website:  
*<http://www.eclipse.org/aperi/>*
- Aperi Project Newsgroup:  
*<news://news.eclipse.org/eclipse.technology.aperi>*