OpenPegasus

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OpenPegasus

- What?
- Why?
- Who?
- How?
- When?
- Where?
OpenPegasus – What?

From Andrew’s Presentation:
- It provides a standard, open implementation of a standard manageability infrastructure (WEBM)
OpenPegasus – What??

- Allows things that want to be managed to communicate with things that want to manage them.

- Jargon:
  Uses the Common Information Model (CIM) and the other Web-Based Enterprise Management (WBEM) standards from the Distributed Management Task Force (DMTF).
OpenPegasus – WBEM/CIM/What?

- WBEM provides an information model (CIM) and interoperability specifications that allow communication of management information between managed and managing components.
- The set of standards provides much of what is needed to create a common manageability infrastructure.
- The core of OpenPegasus is a CIM Object Manager (CIMOM).
OpenPegasus – What?

- Goals
  - Open Source
  - Portable
  - C++ and portable Libraries
  - Efficient and Lightweight
  - Code Base
  - Common Providers
  - Standards Based
  - DMTF WBEM
  - Continuity
  - Continuing Project
  - Modular and Extensible
  - Production Quality

MIT License
OpenPegasus – What?

- Multiple platforms

- AIX
- Linux
- ZOS
- HP/UX
- Himalaya
- Tru64UNIX
- Windows
- Solaris
OpenPegasus – Why?

- Goals of the Enterprise Management Forum:
  - Manageability, not Management
  - Ubiquitous
  - Standards-based
  - Low barriers to adoption
  - Comprehensive
OpenPegasus – Why?

- “It’s the Data, Stupid”
- Open Source is the new Standards
- We needed a common information model
  - CIM!!!
- We needed interoperability
  - WBEM
  - CIM Operations over HTTP
  - xmlCIM
OpenPegasus – Why?

- We had found a solution that met our goals
- One thing seemed to be missing

- Implementations!!
OpenPegasus - Who?

- Started out as a project within the EMF
  - Initial contributions from BMC, HP, IBM, Tivoli
- Quickly outgrew the confines of the Forum
  - An entity in its own right
    - separate funding / website/ etc
  - Retains a relationship with the Forum
    - Specification Development
  - Major contributors – HP and IBM
OpenPegasus – How?

- We started as an informal group
  - Entropy increased
- We evolved an Architecture Teleconference
  - Entropy increased
- A degree of formality is necessary to get people's attention
  - We have a Steering Committee composed of the major project funders
OpenPegasus – How?

- The role of The Open Group
  - A neutral space in which to cooperate
  - Provides technical leadership and project management
  - Provides the electronic infrastructure
    - Web, mail, CVS, Bugzilla, etc
  - A route to standardization, testing, and certification of API specifications for portability
OpenPegasus – When?

- Version 1.0 – April 2002
  - Limited functionality
- Version 2.0 - July 2002
  - Not released in simple form
- Version 2.1 – end of October 2002
  - Source, Binaries
- Version 2.2 – end of January 2003
- Shipped as part of commercially available platforms
OpenPegasus – Where?

- Where to?
  - Increased core functionality
  - Track and influence the WBEM standards
  - Closer integration with Java-based “SNIA CIMOM” – Pegasus-J?
  - Extend to include common providers
  - Interoperability with other CIMOMs
  - Pegasus Lite
OpenPegasus – Where?

- www.openpegasus.org
  - Mailing lists
  - Downloads
  - CVS Repository
  - Roadmap
- www.opengroup.org/snia-cimom