

OpenClovis Introduction

OpenClovis Corporate Background

- Founded in 2002 as Clovis Solutions
- May 2006, changed to OpenClovis for open source business model
- USD\$30M invested on Products
- Product Release 4.0 is mature and shipping
- Over 20+ paying customers
- Headquartered in Petaluma, CA
 - Facility also in Bangalore, India
 - Experience staff in systems
- Partnerships with major industry players such as SUN, HP, Huawei, IBM, Oracle, WindRiver, Radisys, Emerson, etc.











Why customers choose OpenClovis?

- Most mature SAF compliant middleware
- A suite of tools accelerates application development lifecycle based on OpenClovis
- Meets scalability and performance requirements
- Technical staff with extensive system development background
- Extensive Test automation with proven product quality
- Superb technical support capability
- Scalable Platform Support Package (PSP) architecture
- Key differentiation middleware features:
 - ISSU, Dynamic HA, Dynamic modeling, group membership, extensive logging
- Maximum support of hardware, CPU, OS configurations
 - Mixed-OS, mixed-CPU-arch and mix-endianess



Our Customers































Tier-1 Japanese WiMAX solution Provider



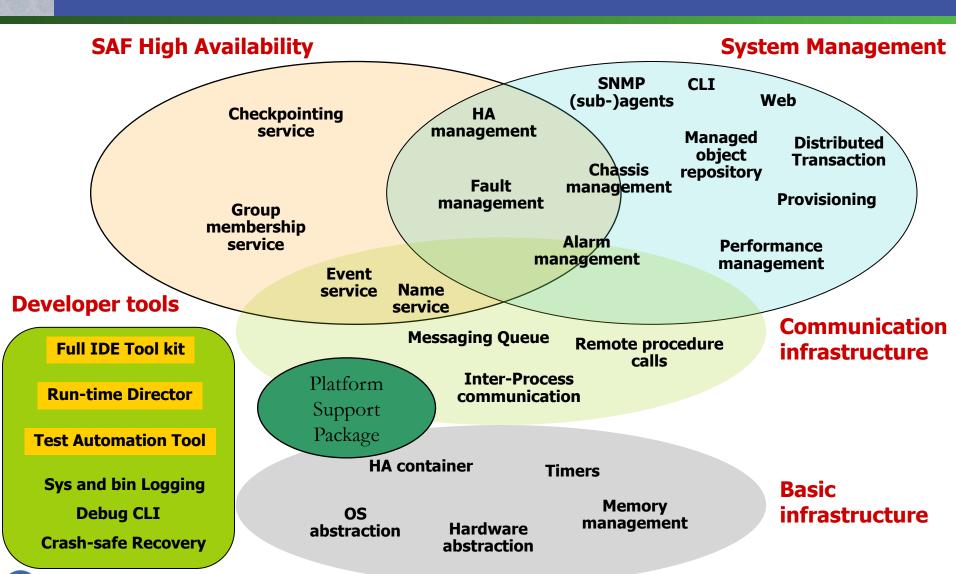








Functional Scope of OpenClovis





OpenClovis Value Proposition

Support for your entire development lifecycle

Design/Development



IDE SAF HA Modeling SAF IMMS Modeling SNMP MIB Import Code Generation Build tools Run-time Debugging

Integrated Development Environment



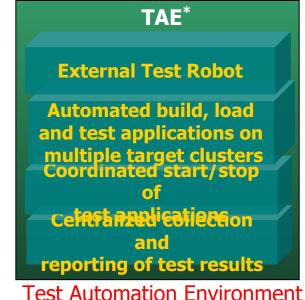


Platform Support

Director Package (PSP) **ASP**







* 3,000+ test cases automated

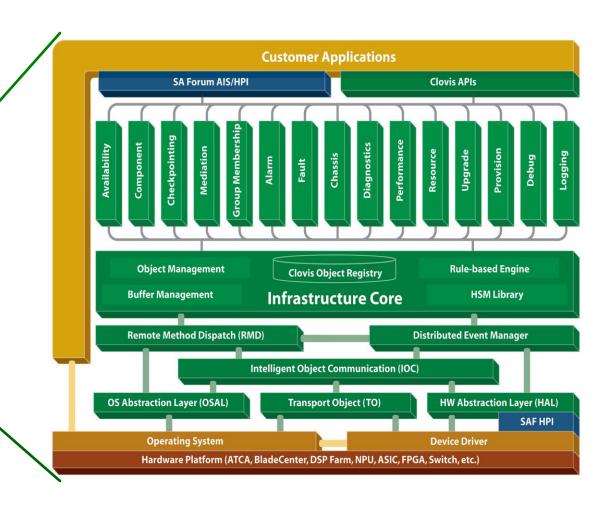
OpenClovis - Architecture

Customer Application/Service

OpenClovis
Application Service Platform

Carrier Grade RTOS

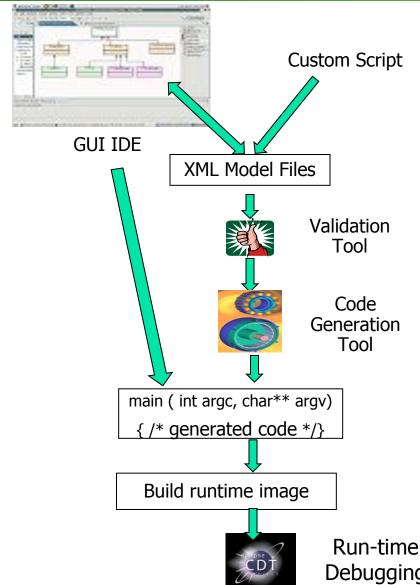
Hardware (AdvancedTCA, BCT, other)





OpenClovis IDE Support Full development cycle

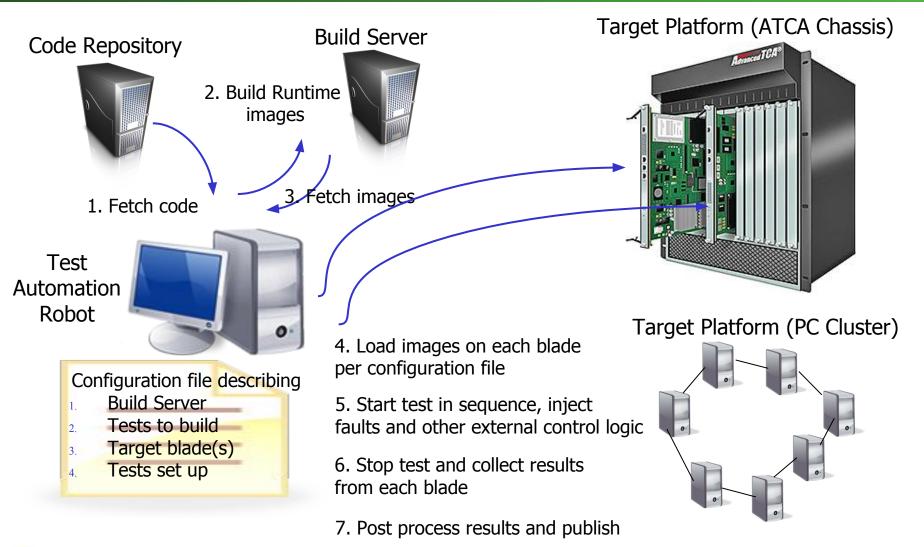
- **Modeling Information**
 - Describe entire project
 - HA & System management
 - Well defined format (XML)
 - User modifiable
- **Code Generation**
 - HA code
 - Management code
 - Configuration files
 - Customizable templates
- **Build Environment**
 - Native and Cross build tool chain provided
 - Integrated with pre-existing tool chains
- Run-time Debugger
 - Full source code debugging environment integrated





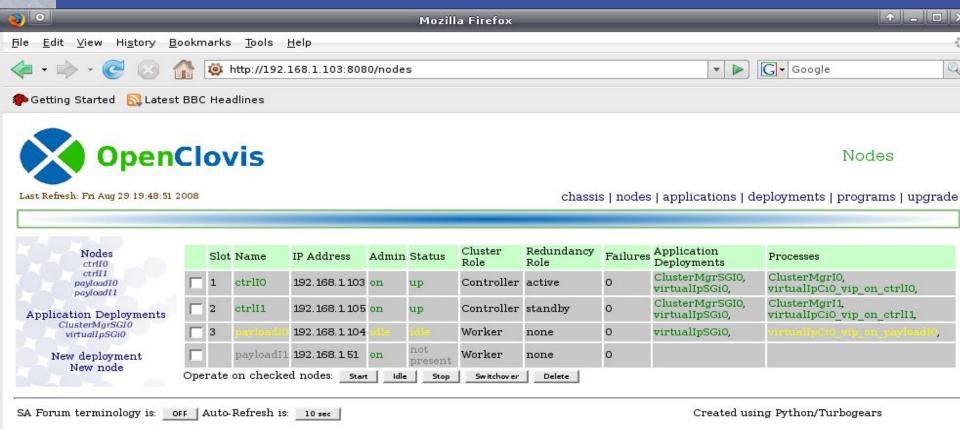
OpenClovis TAE

Test Automation Environment





ASP Run-time Director – Runtime modeling and management



- Dynamic/Run-time HA management
- Platform Management
- In-Service Software Upgrade
- Application Analyzer

Done

OpenClovis ASP Runtime Director

Architecture

ASP Runtime Director Web Logic

App Analyzer Web Logic

HTTP

ARD Object Layer

Dynamic HA

Platform Management Software
Deploymen
t
& Upgrade

Python ASP Object Layer

Python SWIG Interfaces

Software Image Managemen Application
Analyzer
Statistics
Repository

Python

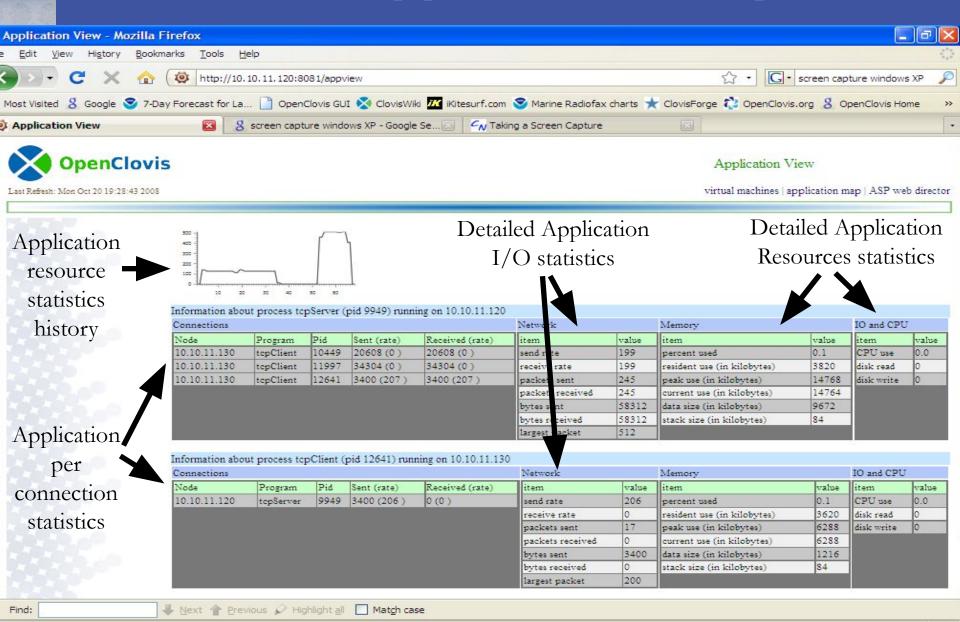
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ASP Client Libraries

ASP



Distributed Application Analyzer



Our Product Deployment Scenarios

Supported Platforms

- ATCA Chassis
 - SUN Netra Platform
 - Huawei and ZTE
 - Radisys 12U Promentum 6000
 - Schroff ATCA 5U & 12U Chassis
 - Samina
 - Kontron/ZYNX switches
 - Emerson ATCA
 - others
- AMC's
- HP Proliant
- IBM BladeCenter
- Rack Mount Servers

Processors

- Intel/AMD (32 and 64 bit)
- Multi-core CPUs
- PowerPC (32 and 64 bit)
- Mixed mode
- Cavium

Operating Systems

- Target Runtime
 - Wind River PNE Linux
 - Red Hat Enterprise Linux
 - Montavista CGL
 - VxWorks 6.x
 - Solaris
 - QNX
- Development OS
 - Red Hat 9
 - CentOS
 - Ubuntu
 - Debian
 - Yellow dog Linux (PowerPC)

Mixed Endian

- Mixed Endian fully supported
- Various nodes in the system can be x86 and/or PowerPC



Dual License Business Model

- GPLv2 for ASP middleware Free
- Commercial per project/product
 - ASP Middleware provides full buildable source code
 - Per user Annual Development License for first 4 years
 - Perpetual license also available
 - Annual Support & Maintenance
 - Run-time Royalty (buyout option also available)
 - IDE
 - Per user annual license
 - TAE including 3000 ready-to-deploy test cases
 - One-time setup
 - Annual License for first 4 years
 - Annual Support & Maintenance
 - ASP Run-time Director
 - Annual development license and support
 - Run-time Royalty
- Training & Professional Services



Product-based Development Services

- Full development lifecycle service including architecture, design, development, integration and testing based on OpenClovis products
- Application domain expertise in WiMAX, LTE, PON/DSL, Optical, SIP, IMS, Video delivery services.
- Domain expertises in OS, COTS hardware (xTCA, BladeCenter, etc.), SAF middleware, L2/L3 protocols and

