



Asia OSS Workshop

Open Source Software (OSS) Business in Fujitsu SSL and Business Cases

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Agenda

Introduction of Fujitsu SSL

- OSS Business Cases
- Solutions to Issues



Introduction of Fujitsu SSL

Fujitsu SSL Corporate Profile



Fujitsu Social Science Laboratory Limited

Established : July, 1972

Stakeholder: Fujitsu Ltd. 100%

Staff: 1,231 ppl. (As of April 1, 2009)

Revenue: 24.2 billion yen (260 million US dollars)(FY 200

Business Segment :

- System Integration Services
- Solution Service Business

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(56%)
(44%)
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Part of Software Services of the Fujitsu Group

Why are we focusing our efforts on OSS Business?

Accumulate Experience and Lead the OSS Business

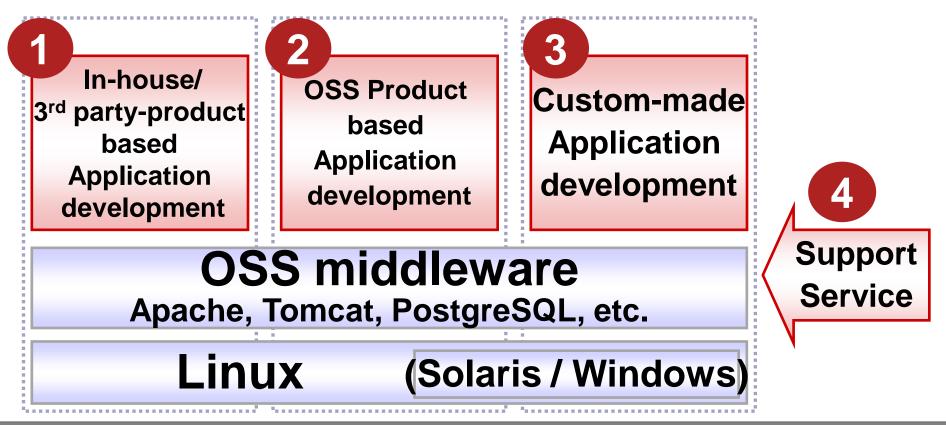
Rapid Spread of OSS for Enterprise Use

- IT cost reduction and use of OSS as the standard
- Some OSS have reached the same level as commercial products

Solve Issues related to OSS and Commercial Products Differences

OSS Business at Fujitsu SSL

Application Development on Linux and OSS middleware 123 OSS middleware Support : 4

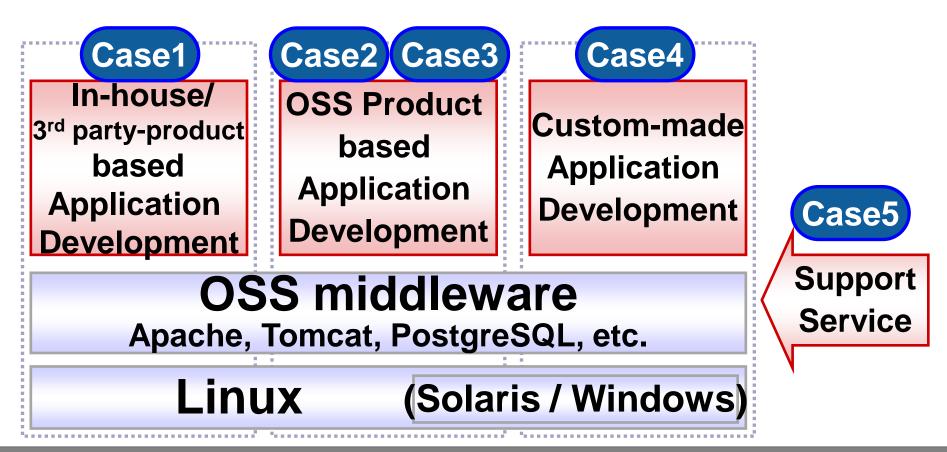


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OSS Business Cases

OSS Business Cases OSS Business at Fujitsu SSL

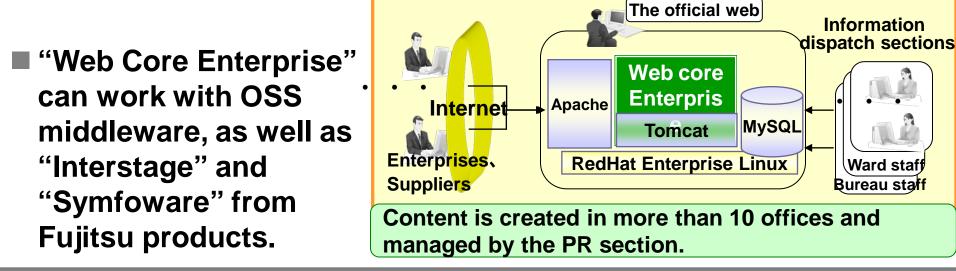


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In-house product based Case1 **Application Development**

- **TYPE: "Web Core Enterprise" Contents Management System (CMS)** WHO: Municipality: population 3 million **REASONS:**
- CMS "Web Core Enterprise" operated on Linux **Direct support** from product developer



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Case2 OSS based Application Development

TYPE: "SugarCRM"

WHO: a Telecom Firm

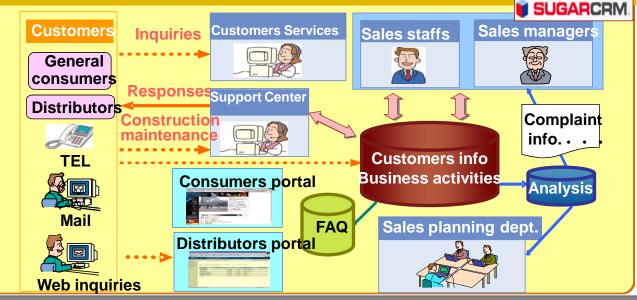
REASONS:

- Initial investment cost reduction
- Reliable Life Cycle Support from planning to

operations

Work flow efficiency improvement for management and sales staff by sharing information in all companies.

 SugarCRM is an OSS based
 Customer
 Relationship
 Management
 Software



Case3 OSS based Application Development

- **TYPE: "GroundWork Monitor"** Monitoring System Integration
- WHO: a Data Center
- **REASONS:**
- Reduce monitoring operation cost for future hardware expansion
- Robust link-adapters with existing monitoring systems
- Custom portal functions

"GroundWork Monitor" is an OSS based integrated network&system-monitoring system

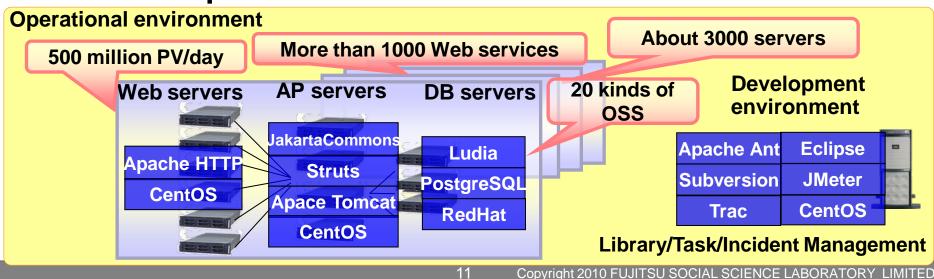


*2 Linked object software: Fujitsu Systemwalker、Hitachi JP1、IBM Tivoli、HP OpenView

Functions Strengthened for the data center

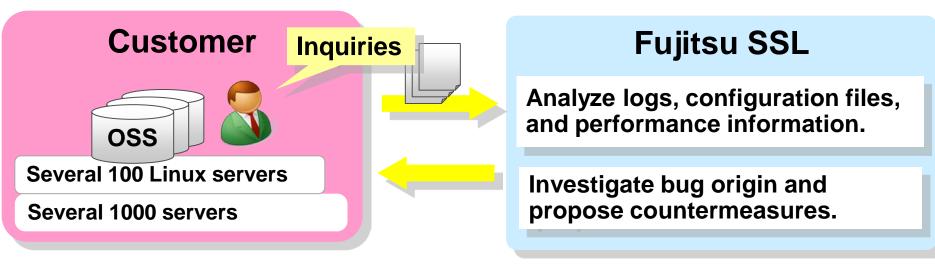
Case4 Custom-made Application Development FUITS

- TYPE: Web services on OSS middleware WHO: an Internet Service Provider REASONS:
- Software expenses for about 3000 servers was greatly improved
- Ensure stable operation of a large amount of transaction processing
- New services can be continuously added using OSS
- The development environment is standardized



Case5 OSS Middleware Support

- TYPE: Support Service for OSS in Mission-Critical System WHO: Large Service Provider: several 1000 servers
- **REASONS:**
- No other support service provider
- Our price is not dependent on the number of servers



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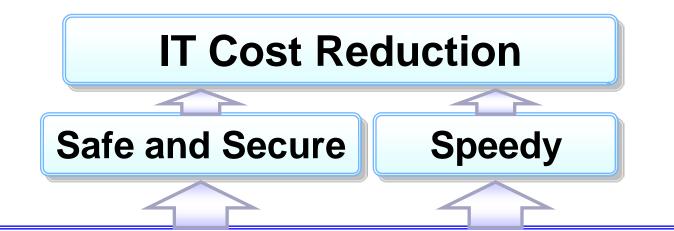
Solutions to Issues

Fujitsu SSL's OSS Business Policies FUJITSU

- Supports safe, secure, and speedy OSS use
 - Customers' expectation: IT Cost Reduction
 - Customers' concern: Reliable Technical Support



Solutions to Issues in OSS Business FUITSU



 (1) High-Quality Support
 (2) Intellectual Property Right (IP) Risk Management
 (3) Improved Development Efficiency through Technology Sharing
 (4) Promotion of OSS Usage

Solutions to Issues in OSS Business (1) High-Quality Support



- Difficulties when OSS is introduced to enterprise use
 - Mainly developed by communities
 - Support service contracts are not provided usually

Developers can't be relied on for continual quick support

Risk of malicious attack due to open source code

Necessary to know security / update information promptly

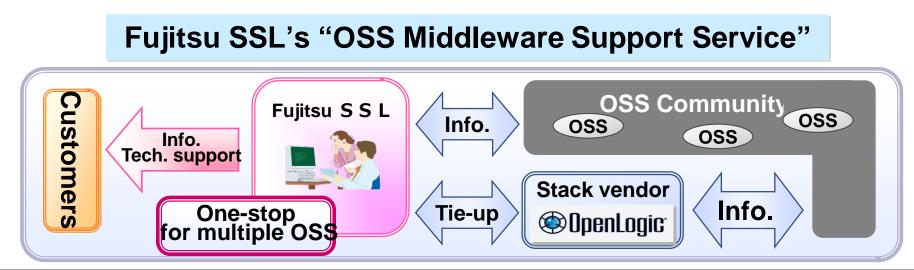
When OSS is adopted into business systems, the consideration of support is indispensable

Solution to Issues in OSS Business (1) High-Quality Support



Provides Reliable, Fast, One-Stop Support

Expertise in Large-Size Systems Diverse support : OSS Combinations, Versions, Base Operation Systems Quick Support through cooperation with a Stack Vendor



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Solution to Issues in OSS Business (2) IP Risk Management



Eliminates OSS Risks to Provide Secure and Safe Program Product to customers

Recent cases:

- In Nov. 2009, a famous software vender apologized for inappropriate use of GPL OSS in its download tool
- In Dec. 2009, 14 consumer electronics companies named in a copyright infringement (GPL OSS usage) lawsuit by the Software Freedom Law Center

Solution to Issues in OSS Business (2) IP Risk Management



OSS Detection Service with a Tool to Eliminate Unintended OSS Inclusion

- Fujitsu SSL's IP Risk Management
- by OSS Guideline :
- License Check in Quality Management Process
- OSS License Education

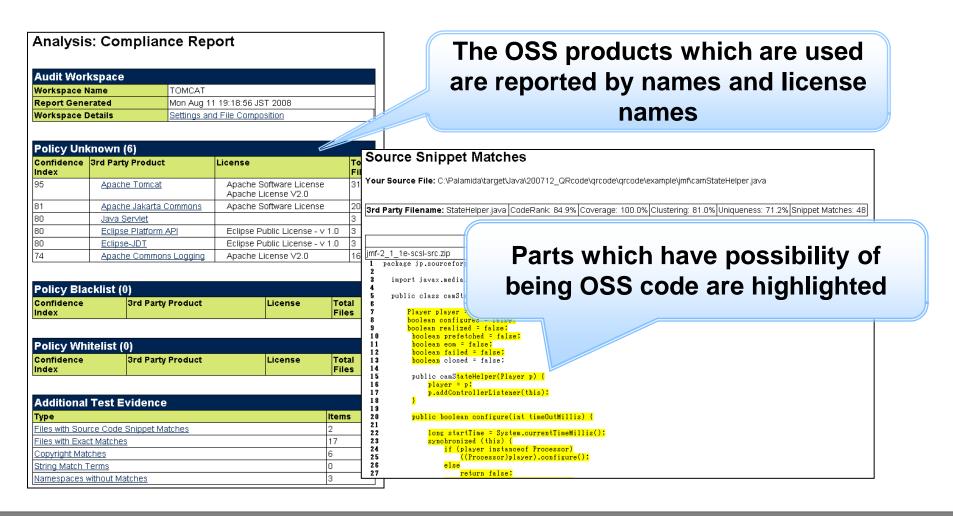


Using an OSS check tool, we detect unintended OSS inclusion, through a more reliable method

Solution to Issues in OSS Business (2) IP Risk Management



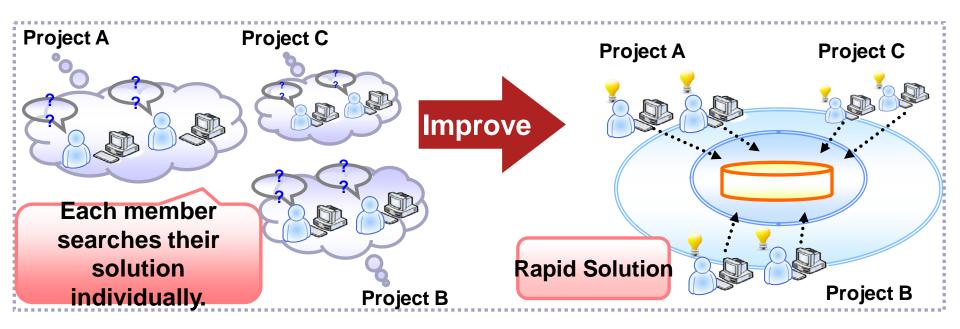
Sample Reports of Palamida



Solution to Issues in OSS Business (3) Improved Development Efficiency

Requests from Developers:

- Share Information, Procedures, Components, Codes
- Eliminate Overlapped Work that Others already Done



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Solution to Issues in OSS Business (3) Improved Development Efficiency

Provides safe, secure, and quick development service by "Fujitsu SSL Standard Stack":

In-house Standard OSS Stack

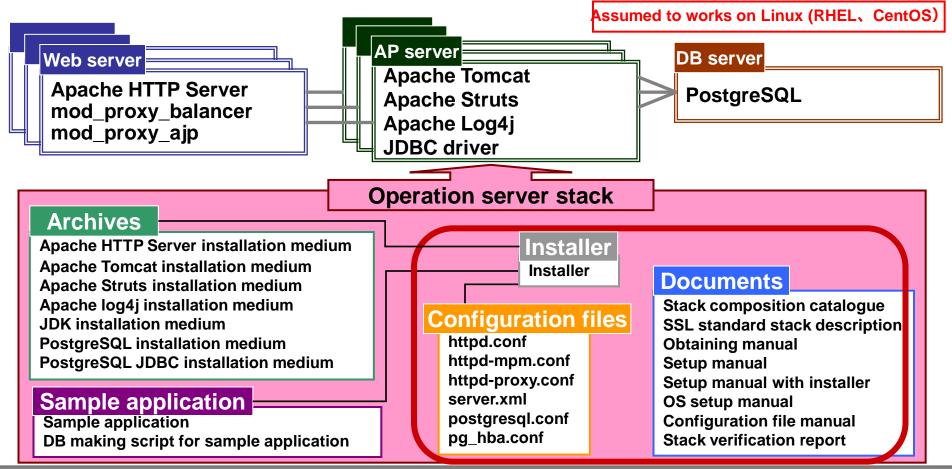
 OSS Set for Web Application Development
 Archives with Fine-tuned Components, Setup Files, Installers and Documents

Operation server stack Sample application Web server Apache		Development environment stack		
Framework tool	mod_jk Struts JDK	Various plug ir		
AP server	Tomcat	Tool IDE	JDK Eclipse	
DB	PostgreSQL	Test tool	JMeter	
CentOS		 Windows		

Fujitsu SSL Standard Stack "Operation Server Stack"



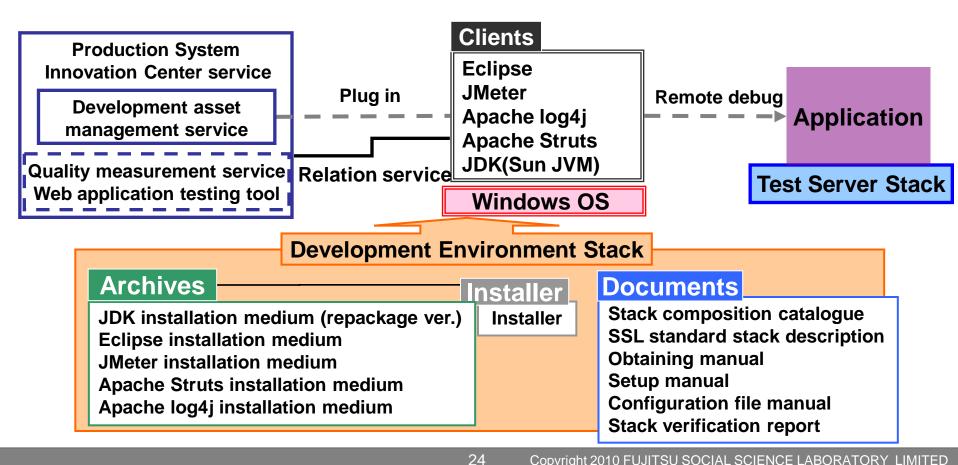
Configurations for Web Application Operating Platforms
 Designed for setting up Web Servers, Application Servers and a Database Server onto Physical Servers
 Includes an installer



Fujitsu SSL Standard Stack FUĨITSU **Development Environment Stack** Ready to use set for Web Application Development

on Windows

Eclipse as IDE, and JMeter as Load Testing



Solution to Issues in OSS Business (4) Promotion of OSS Usage

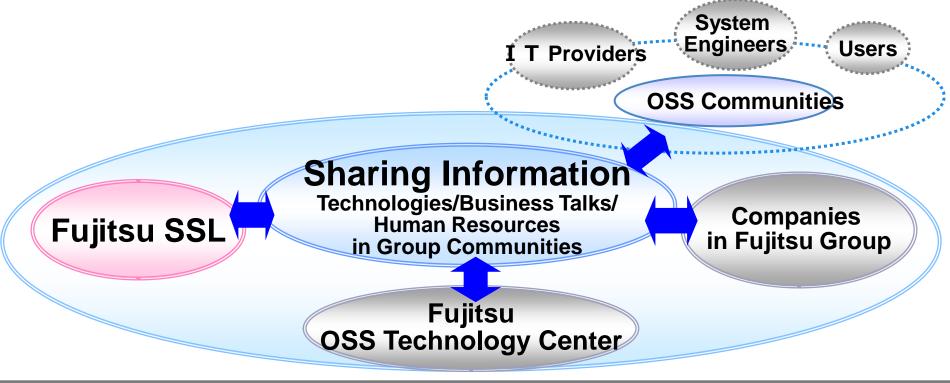


- Improve awareness of high standard OSS is necessary
 - Unite with Fujitsu-Group companies
 - "OSS Integrated Monitoring Tool Promotion Conference"
 - Task Force: "Ruby" Standardization

(4) Promotion of OSS Usage Unite with Fujitsu-Group Companies FUJITSU

OSS information sharing in Fujitsu group

- Awareness Improvement of OSS Products and Technologies
- Sharing for Technologies and Business



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(4) Promotion of OSS Usage "OSS Integrated Monitoring Tool Promotion Conference"



"Towards the Era of High-Quality,

OSS Based System Monitoring"

- We established the
 - "OSS Integrated Monitoring Tool Promotion Conference" (Jan. 2009)
 - Fujitsu SSL: <u>GroundWork Monitor</u>
 - NTT Data : <u>Hinemos®</u>
 - Sun Microsystems: MySQL Enterprise Monitor
 - Miracle Linux: <u>ZABBIX</u>

(4) Promotion of OSS Usage Programming Language "Ruby" Standardization **FUJITSU**

Participate in "Ruby Standardization Committee" managed by Open Software Center of IPA

(Independent administrative agency / Information-technology Promotion Agency, Japan)

Participate in the Ruby international standardization Working Group (since Oct. 2008)

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Our staff participated in the "Ruby World Conference 2009" as a panelist

(Sep. 2009)





Expand the OSS advantages to the customers' IT system



 (1) High-Quality Support
 (2) Intellectual Property Right (IP) Risk Management
 (3) Improved Development Efficiency through Technology Sharing
 (4) Promotion of OSS Usage

