



# WG1 Report

## Technology Development & Assessment WG North-East Asia OSS Promotion Forum

4/14/2006

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## Agenda

1. Overview of WG1 activities
2. Statement of WG1 in April 13th
3. Activity report of CJK
  - (1)China: Desktop Linux
  - (2)Japan: Benchmark evaluation on Linux and other OSS
  - (3)Korea: Operating System Security
4. Summary of Discussion

## 1. Overview of WG1 activities

### Chairman's statement of 3<sup>rd</sup> NEA OSS Promotion Forum

- 1) Cooperate in the following technical areas;
  - Desktop Linux
  - Benchmark evaluation on Linux and other OSS
  - Operating System Security
- 2) Proceed with evaluation on the three areas, and share the results.
  - China - Desktop Linux.
  - Japan - Benchmark evaluation on Linux and other OSS.
  - Korea - Operating System Security.
- 3) Continue to discuss how and what to develop through cooperation, based on the result of evaluation.
- 4) Exchange information every three months to trace their activities.

# 1. Overview of WG1 activities

## History of activities

- 2004/7 Agreed about establishment
- 2004/12 1<sup>st</sup> WG1 meeting in Seoul (3<sup>rd</sup> NEA OSS PF)
  - made a cooperative plan about Desktop, Server benchmark, OS security
- 2005/4 2<sup>nd</sup> WG1 meeting in Beijing
  - reported each activities.
- 2005/7 WG1 contact person meeting
  - reported each activities.
- 2006/3 WG1 contact person meeting
  - discussed about next step of cooperation.
- 2006/4 3<sup>rd</sup> WG1 meeting in Tianjin(4<sup>th</sup> NEA OSS PF)

## 2. Statement of WG1 in April 13th

### Result of Discussion

- CJK agreed about establishment of Desktop-sub-WG, Server-sub-WG and the contact person of each sub-WG was fixed.
- The contact person of each sub-WG
  - Server-sub-WG:  
**C:** Geng Zengqiang, **J:** Tomomi Suzuki, **K:** Doosik Park
  - Desktop-sub-WG:  
**C:** Chen Wei, **J:** Koichi Yano, **K:** Chang-Won Ahn
- CJK agreed about continuing to discuss about cooperative development in Server and Desktop area.
- CJK agreed the next meeting will be held in August in Korea.

### 3. Activity report of CJK

#### (1) China

##### 1. Desktop Side

- (1) Complete the Desktop Linux architecture design
- (2) Joint development of Linux reference platform project is awarded one of China IT Events Top 10, 2005.
- (3) Complete Specifications of RPLinux, including the Core Packages Set Specification of RPLinux, Specification for Linux Programming Interface of RPLinux, Linux Reference Platform Commands Specification, Filesystem Hierarchy Standard of RPLinux.
- (4) Encourage develop commercial Desktop Linux Distributions based on RPLinux.

### 3. Activity report of CJK

#### (1)China

##### 2. Server Side

- (1) Select Asianux as the base system for China Linux Server Reference Platform.
- (2) Help to build better ecosystem around Linux Server
  - (i) Establish ISV testing and certification Lab, to help Application migration and testing on Linux server Reference Platform.
  - (ii) Do the marketing investigation from China Linux server customers to get technical demands.
  - (iii) Start the development project to enhance the Linux server reference platform according to the marketing investigation.

### 3. Activity report of CJK

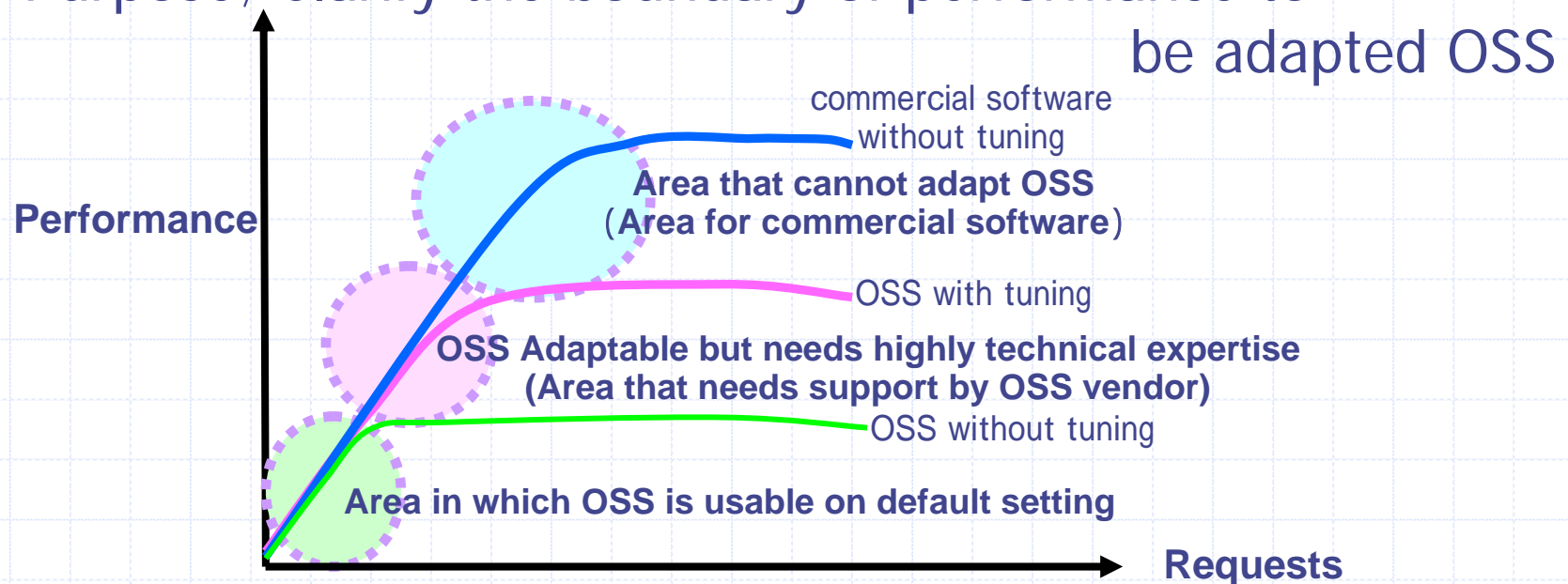
#### (2) Japan - Server

Reported about the Benchmark evaluation of OSS

-Target; Linux, PostgreSQL, MySQL, JBoss, Tomcat

-Purpose; Clarify the boundary of performance to

be adapted OSS



-Released Ph.1 Mar,2005, Ph.2 Nov,2005, Ph.3 May,2006

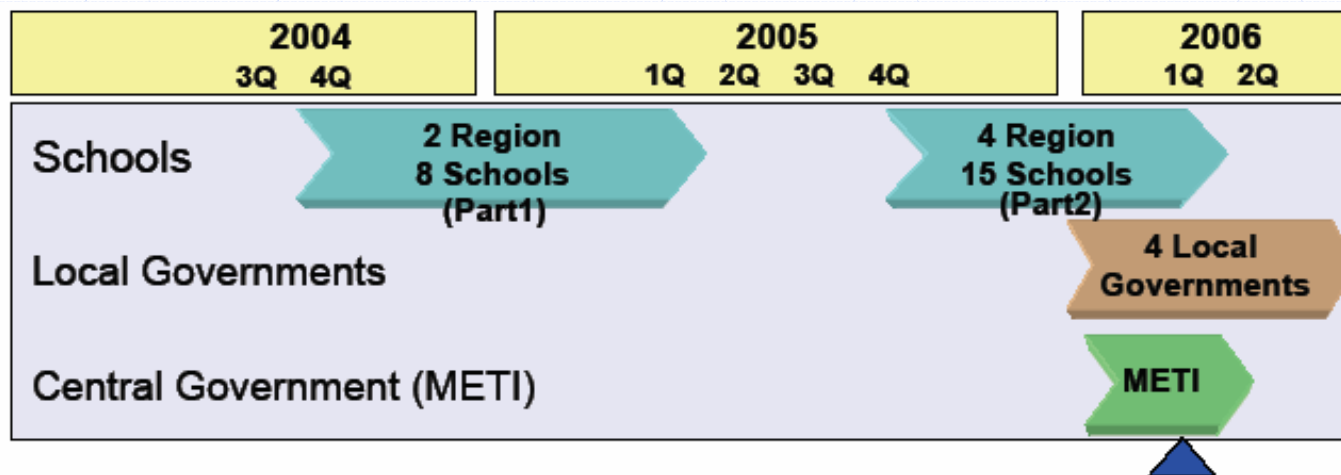
-Documents are 500K Downloaded from World Wide

[http://www.ipa.go.jp/software/open/forum/north\\_asia/wg1-e.html](http://www.ipa.go.jp/software/open/forum/north_asia/wg1-e.html)

### 3. Activity report of CJK

#### (2) Japan - Desktop

Reported about the verification test for using OSS desktop  
-schools, Local Governments, Central Government



Introduced about the new Desktop-sub-committee  
-Mission, Objectives, Activities

### 3. Activity report of CJK

#### (3) Korea

##### 1. Deploying the SELinux to Web Server

- Building secure web server/application with SELinux
- To reduce the level of risk by tailoring the SELinux policy
- Open test-bed system

##### 2. Analyzing the SELinux policy for Apache web server

- High-level description
- Role and Type definitions
- Information flow

### 3. Activity report of CJK

#### (3)Korea

#### 3. Benchmark evaluation on Apache web server

- Performance evaluation for web transactions
- Benchmark metrics:  
CPU usage, memory usage, TPS, RPT
- Scenario:

Apache Web Server w/ SELinux		Apache Web Server wo/ SELinux	
Active Client	Web Page Size	Active Client	Web Page Size
100	10kb	100	10kb
200			
300			
400	50kb	400	50kb
500			
600			
700	100kb	700	100kb

## 4. Summary of discussion

### What do we discuss in each sub-WG?

#### (1) Server sub-WG

- We discussed about the cooperative development which is beneficial and interested for CJK.
- What is the target of OSS?
  - > tools around the Linux Kernel, or OSS middleware, Management tools(ex. OpenLIME), Regression test tools,  
(not Kernel or core function)
- CJK will do benchmark and exchange the result Performance, Reliability, Security, ...

Anyway, we should continue to discuss about our target and actual activities.

## 4. Summary of discussion

What do we discuss in each sub-WG?

(2) Desktop sub-WG

CJK agreed to share the information about technology, and experience.

The next step is to define the objective and action plan for desktop sub-WG.

## Memorandum - Activities in 2005

In the 4th CJK OSS forum, CJK OSS WG1 have shared each parties' activities and progress in 2005, Each parties has made following solid progress.

1. China OSS WG1 has completed the first draft of RPLinux in desktop side, released several commercial distributions based on RPLinux, set up pilots successfully, and established Asianux based Linux server reference platform.
2. Japan OSS WG1 has done the benchmark evaluation about DBMS, AP Server, Linux, and opened the result to world wide communities to improve these OSS. And executed 3 desktop Linux projects (schools, local governments, METI).
3. Korea OSS WG1 has analyzed secure Linux architecture, mechanism. And we tried to establish web application environment based on SELinux to test their performance. As a result of benchmark test, we obtained the meaningful analysis results, which is useful and applicable to protect web server.

## Memorandum - Future Plan

After discussion, CJK OSS WG1 have agreed to establish Desktop subgroup and Server subgroup, and appointed each parties' owners of two subgroups.

For development, CJK WG1 was informed that

1. China OSS WG1 will continue to promote the China Linux Reference Platform project, establish more pilots project in both Desktop and Server side, and provide the information and technology to JK. And start OpenLIME project to make more contribution to Linux community.
2. Japan OSS WG1 will continue the benchmark project in Server side, and start technical and marketing project in Desktop side.
3. Korea OSS WG1 will develop the management method and tools of secure OS for easy of use.

CJK WG1 will discuss detail co-development projects plan in Desktop subgroup and Server subgroup. The next WG1 meeting will be held in this August in Korea.