WG1 Server Sub-Working Group Report

Technology Development & Assessment WG
5th North-East Asia OSS Promotion Forum

2006/11/21

Agenda

- WG1 Statement in 4th NEA OSSPF
- WG1 SSWG Statement in 5th NEA OSSPF
- Overview of three co-development projects
  - OpenDRIM: Open Distributed Resource Information Management
  - Linux Kernel Regression Test
  - Benchmark of DBMS
- SEEN Model Project
- Conclusion & Suggestions

WG1 Statement in 4th NEA OSSPF

- 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.

WG1 SSWG Statement in 5th NEA OSSPF

- **WG1 agreed to start 3 open source cooperative projects with the objective of contributing to the open source community and to fix the goal, schedule, members, etc. in each project.**
- **Three projects are:**
  - **OpenDRIM: Develop open source distributed resources information management technologies & environment for Linux system based on open standards.**
  - **Linux Kernel Regression Test (Crackerjack Project): Develop the tools to detect the regression between the different versions of Linux Kernel.**
  - **Benchmark of DBMS: Share the performance and reliability data of MySQL and PostgreSQL.**
- **CJK agreed about continuing to discuss about SEEN Model , which is the “SEcurity ENtity relation based access control model" for supporting flexibility of security policy.**

OpenDRIM Project

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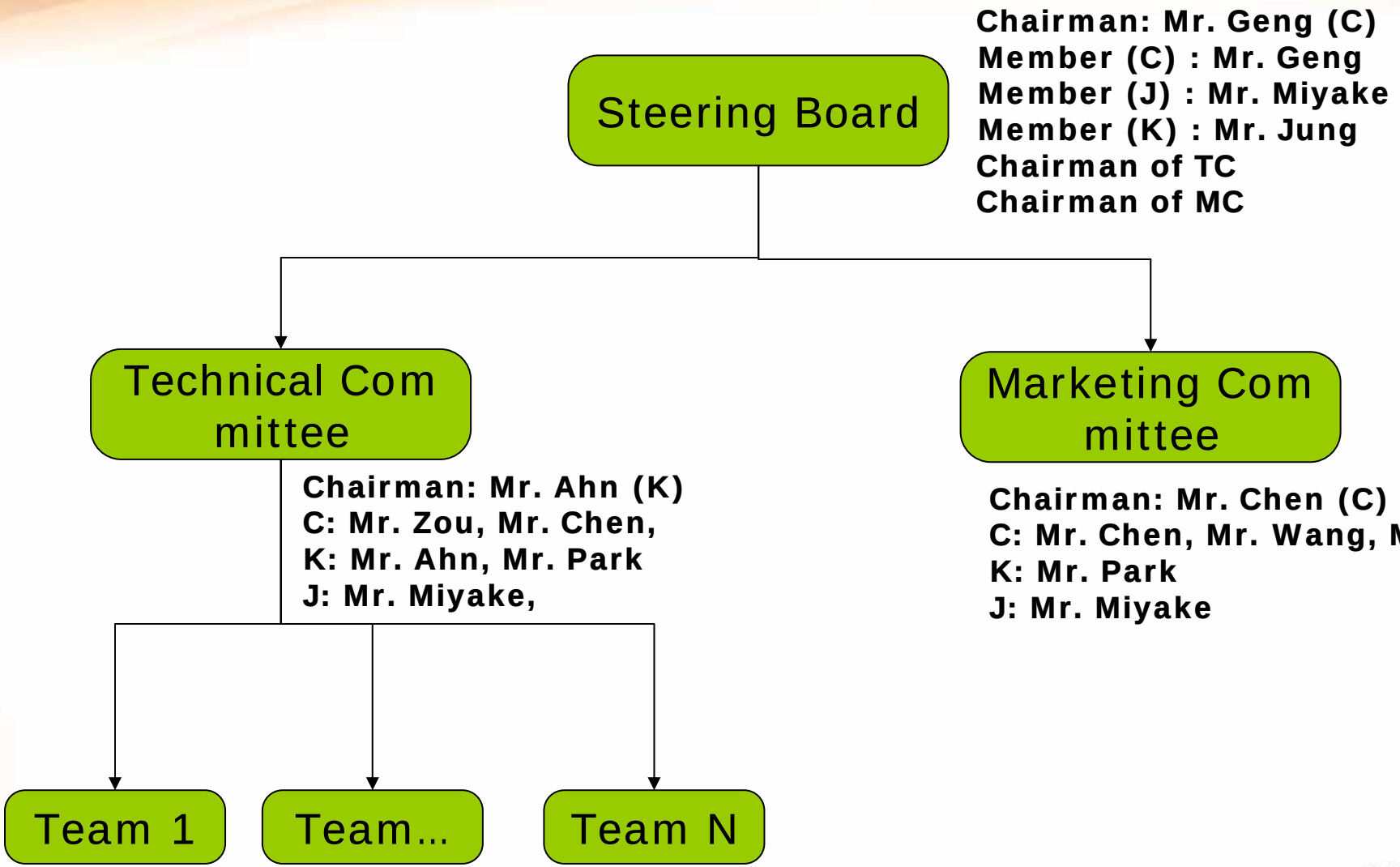
Background

- The old Problem
  - Enterprise demands standard, affordable, feature-rich, open and easy-to-use system management software on UNIX/Linux;
- the “Unsatisfying” Current Status
  - No existing one meets all
    - One provided by Major H/W vendors: not standard, expensive, not hardware-neutral ;
    - Open source management tools: no enough features, not user friendly, not distributed;
- the “Not-so-complete” Solution
  - WBEM tries to solve this problem by standardizing management environment;
  - Standard is not enough and not well adopted;
  - CJK’s efforts, good combination
    - C: LIME, J: SMASH, K: DRIM

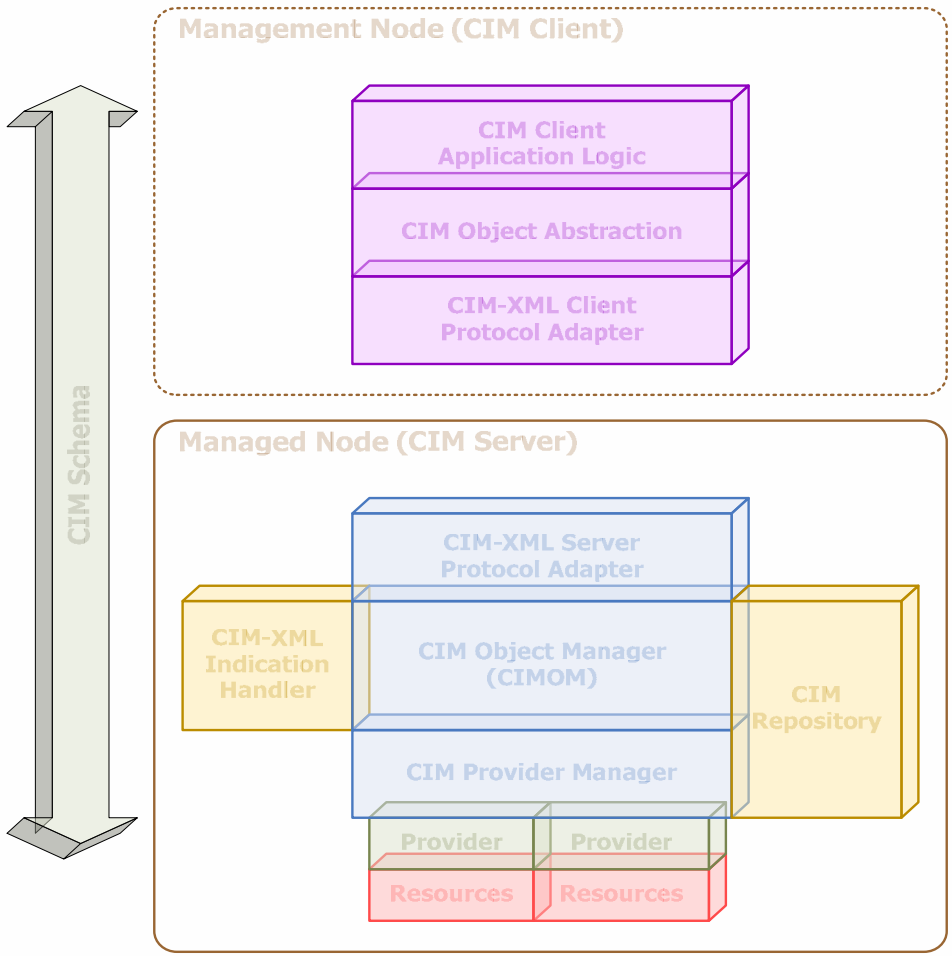
Goals

- Develop open source distributed resources information management technologies & environment for Linux system based on open standards.
  - Open Source & Free
  - Open Standard based
    - current standard: CIM/WBEM
  - Cover both Linux server & desktop management
  - Extensible
  - Easy to use
  - Interoperability

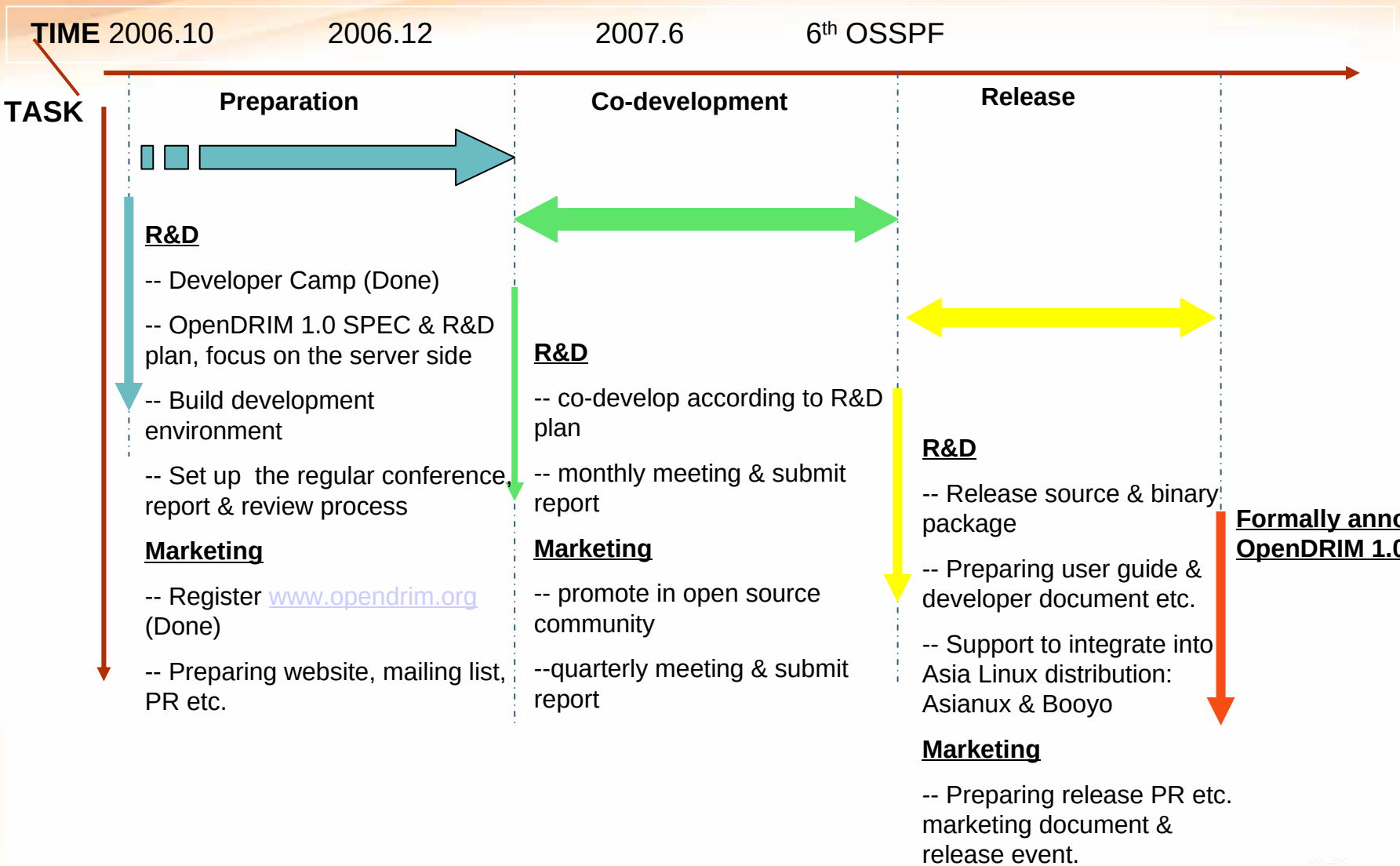
Organization



Architecture



Roadmap


TIME 2006.10
2006.12
2007.6
6th OSSPF
TASK
Preparation
Co-development
Release
R&D
-- Developer Camp (Done)
-- OpenDRIM 1.0 SPEC & R&D plan, focus on the server side
-- Build development environment
-- Set up the regular conference, report & review process
Marketing
-- Register www.opendrim.org (Done)
-- Preparing website, mailing list, PR etc.
R&D
-- co-develop according to R&D plan
-- monthly meeting & submit report
Marketing
-- promote in open source community
--quarterly meeting & submit report
R&D
-- Release source & binary package
-- Preparing user guide & developer document etc.
-- Support to integrate into Asia Linux distribution: Asianux & Booyo
Marketing
-- Preparing release PR etc. marketing document & release event.
Formally announce
OpenDRIM 1.0

Linux Kernel Regression Test (Crackerjack Project)

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Background

Problems

-Commercial OS;

-Usually keep the compatibility between versions.

-Information on incompatibility is being offered as documents.

-Linux;

-Developer or distributor have NOT already known about incompatibility between versions.

-Information on incompatibility is NOT being offered excluding the source code.

-ISVs notice the incompatibility only after they tested.

Project Plan

-Members

C:BST&QAC,RedFlag, CSIP, CS2C

J:Miraclelinux, Hitachi, RedHat

K:ETRI, SureSoft Technologies, HaanSoft, SK C&C

-Goal

Build Kernel Regression Test with cooperating among CJK,
and release to World Wide community.

-Schedule

2006.Nov.	Member recruiting
2006.Dec.6-8	CJK Developer camp in Beijing
2007.Jun	Release v1.0

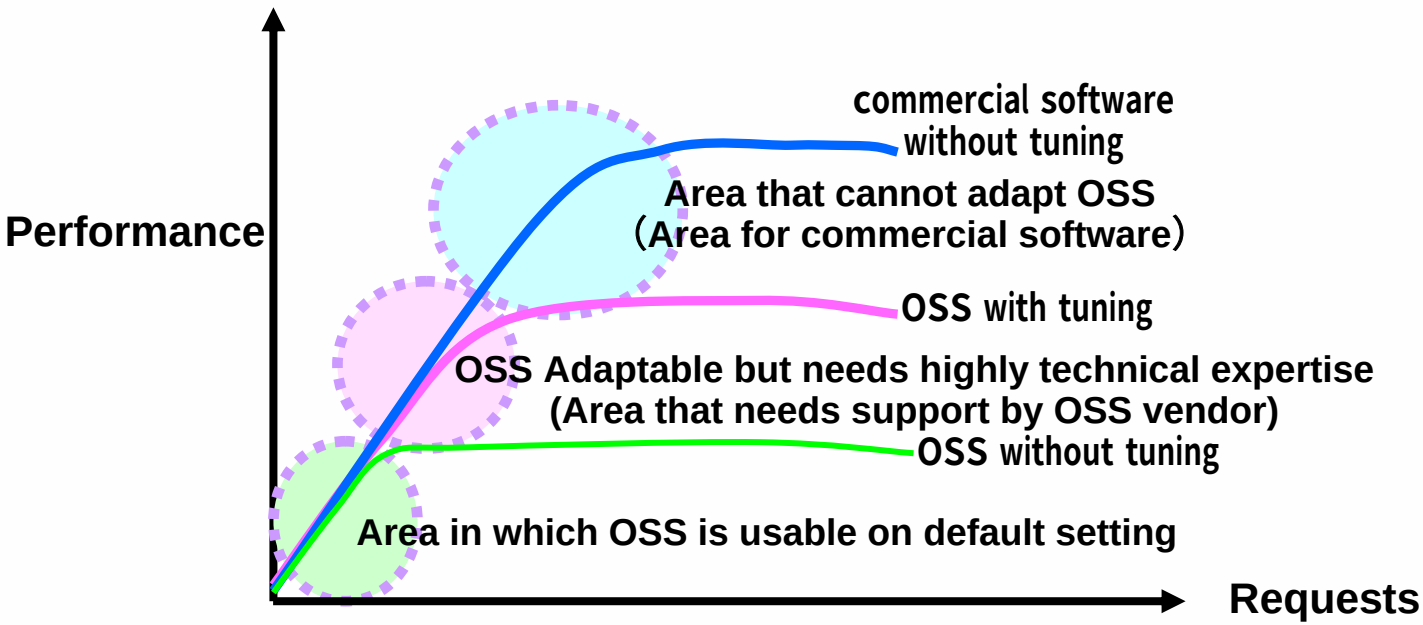
Benchmark of DBMS

Overview

Purpose

-share the variety of performance data among CJK

-clarify the area that is adaptable OSS DBMS
and promote OSS DBMS in each market



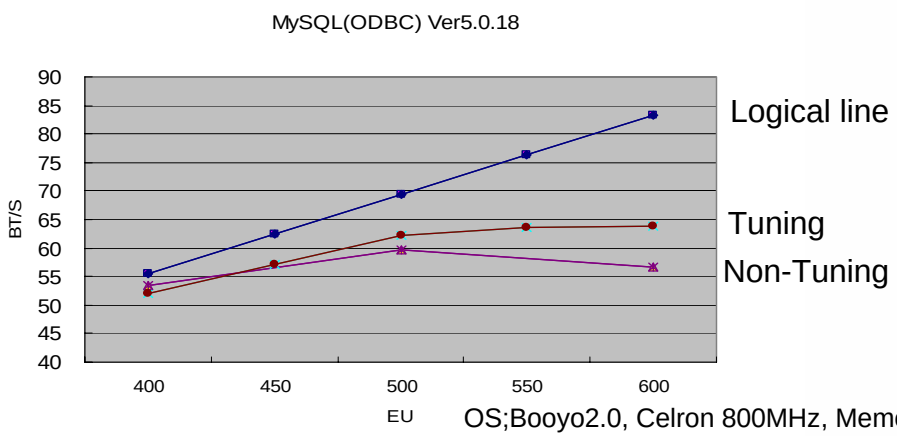
Activities

History

-Japanese WG1 members have 2years experience about DBT-1 Benchmark and present their result in each WG1 meeting.
-DBT-1 Benchmark project was agreed as one of the CJK cooperative project on Jeju meeting Sep. 2006.
-The camp was held on Nov.16-18 at Fukuoka

Output of Camp

-CJK procedure document of DBT-1 for PostgreSQL/MySQL + Asianux/Booyo
-Performance graphs of PostgreSQL/MySQL + Booyo



OS;Booyo2.0, Celron 800MHz, Memory 64

SEEN Model

Overview

- SEEN Model project history
  - Starting in Chonnam National Univ. in Korea
  - The First Proposal (Sep. 4th, 2006 in Jeju)
    - Decision was postponed at this Forum because of patent issue.
  - Nov. 17th, 2006 in Tokyo
    - SEEN Meeting with Japanese security TF



  - Nov. 21th, 2006 in Fukuoka
    - Korea declare the Patent is Free.
    - Now, everyone can use SEEN Model freely.

Overview

- Background
  - Security Administrator needs flexibility of policy for diverse access control policies in various computing environment
  - SELinux's TE security policy is not easy to make security policy.
  - Lack of flexibility because of using different modules in each policy
    - Increase in kernel code.
    - Hard to manage policies.
- The project goal
  - Develops open source access control model based on open standards.
    - to present various access controls in Linux Operating Systems
    - to support easy to use policy.
    - to support powerful access control in computing environment

Conclusion & Suggestions

- Big progress
  - First time we have three co-development projects based on fourth CJK IT Directors-General agreement.
- Suggestions
  - Need more support: budget, facilities, HR etc.
- Next step
  - More co-development projects are in discussion.
  - Next WG1 Meeting will be held in China in April.

Thank you ！