

The 14th North-East Asia OSS Promotion Forum

Activity Report of Working Group 1

2015/11/17

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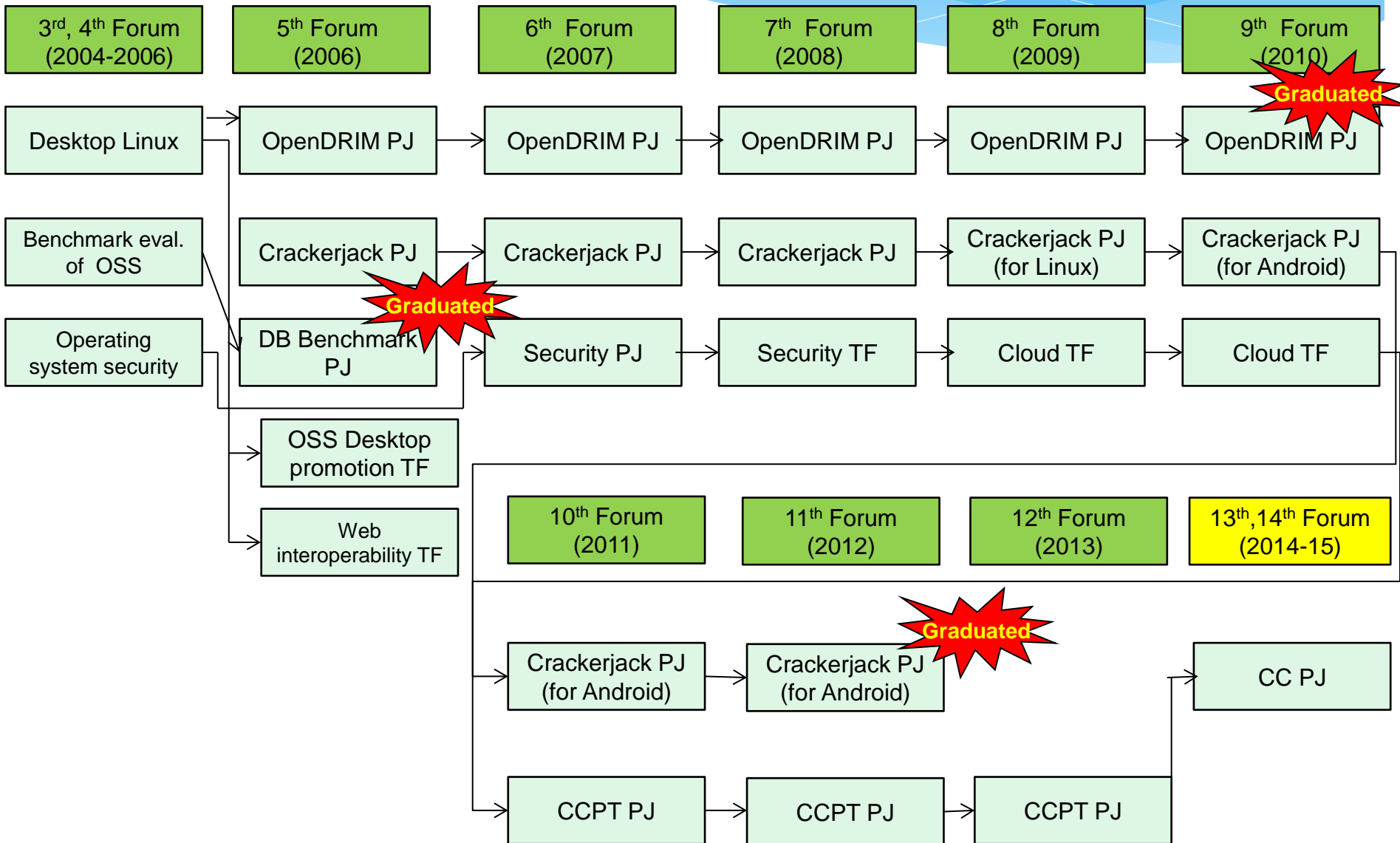


WG1(Technology Development & Assessment WG)
North-East Asia OSS Promotion Forum

Agenda

1. History of WG1
2. Achievement of last 10 years
3. Activities of WG1 in 2015Y
4. Plan in 2016Y

1. History of WG1



2. Achievement of last 10 years

DBT(Database test) project(2004-2006)

- Background

- DBMS market was dominated by commercial products

- Goal

- developing database test suites(DBT-1, DBT-3)
- benchmarking MySQL and PostgreSQL

- Outcomes

- opened OSS DBMS benchmark results measured on CJK

- Exploitation

- disseminated a performance superiority of MySQL and PostgreSQL
- contributed in DBT open project

2. Achievement of last 10 years

Crackerjack project(2006-2012)



- Background
 - solving an incompatible problem of Linux released every 3 months
- Goal
 - developing regression test suite for verifying the compatibility of Linux kernel
 - providing incompatible information of kernel version for users
- Outcomes
 - regression test framework, and testcase of 317 Linux system calls
- Exploitation
 - collaborated with world wide test communities such as Autotest and LTP(Linux Test Project)
 - Redhat US, used for compatibility test of RHEL versions

2. Achievement of last 10 years

OpenDRIM project(2006-2010)



- Background
 - securing standard technologies of system management, and collaborating the relevant open projects such as OpenWBEM
- Goal
 - developing system management framework based on DMTF standard
 - developing CIM(Common Information Model) provider technology
- Outcomes
 - international standard based Linux system manager
- Exploitation
 - provided the technologies of OpenDRIM to Ubuntu Linux open project(Karmic version(2009) and Maverick version(2010))

3. WG1 activities in Y2015

The 13th
OSSPF
(Wuhan)

2014

10

11

12

1

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2015

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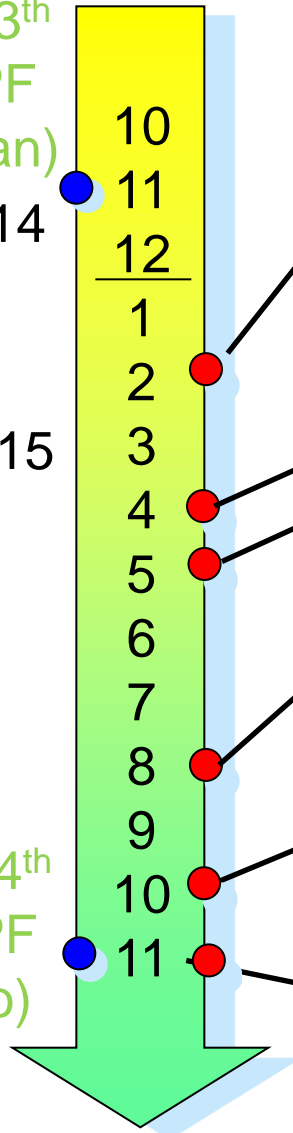
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The 14th
OSSPF
(Tokyo)



<F2F meeting : 6times, conference call : 1 times>

- JK meeting for connecting JK datacenter by Compatible One at **Seoul**(2/9)
- JK meeting for connecting JK datacenter at **Okinawa**(2/25)
- JK **tele-conference** for connecting JK datacenter(4/9)
- WG1 CJK developer meeting at **Beijing**(5/27)
- WG1 meeting for following up the CSB connectivity, and add Cascading as cloud service broker at **Beijing**(8/19)
- WG1 CJK contact person's meeting for Tokyo forum at **Beijing** (10/13)
- OpenStack Summit Tokyo(10/27-30)
- WG1 brainstorming meeting for discussing Y2016 plan in **Tokyo**(11/16)

3. WG1 activities in Y2015

WG1 Developer meeting(5/27)

- Presentation about OpenStack relative activities from CJK developers
 - CSB(Cloud Service Broker) technology of CompatibleOne
 - RACK(Real Application Centric Kernel) technology
 - SDN(Software Defined Networking) technology



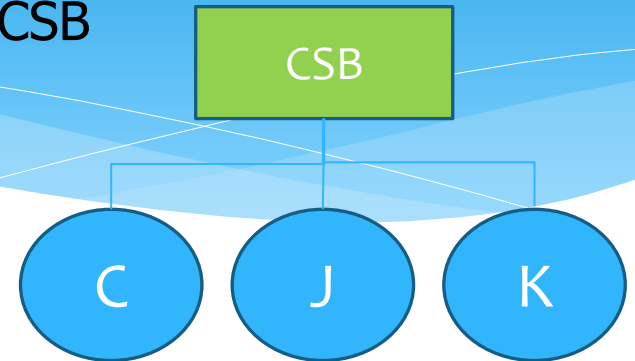
3. WG1 activities in Y2015

WG1 Developer meeting(5/27)

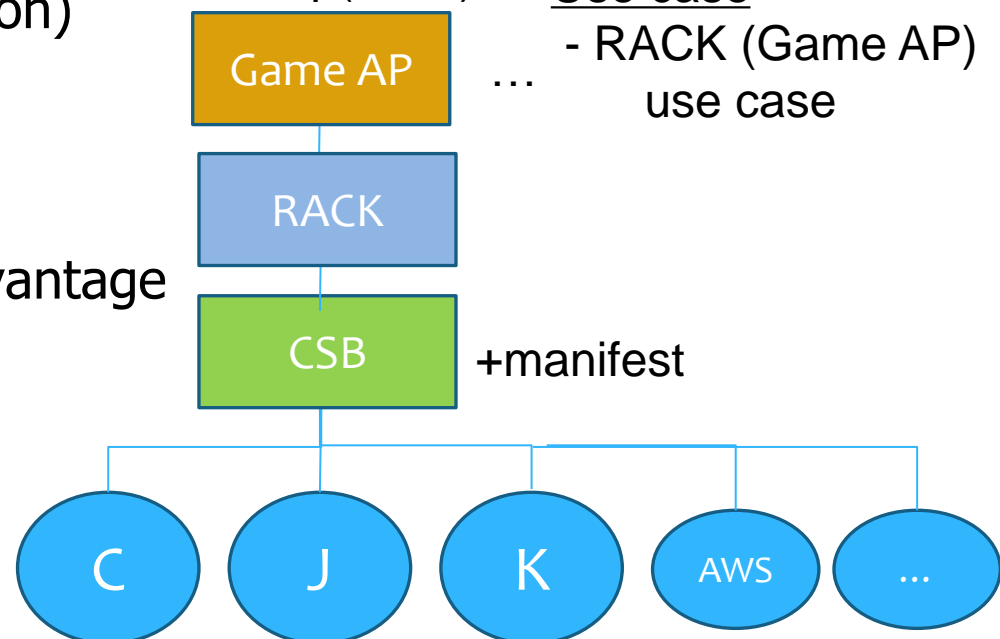
- Discuss how to connect CJK datacenter by CSB

- Setup of OpenStack testbed
- Development of technologies
 - CSB(Cloud Service Broker)
 - Interconnected network based on SDN
 - RACK(Cloud Native Application)
- Integration and testing
- Development of applications (use cases) that show the advantage of Inter-Cloud platform

1st step(∼2015/10)



2nd step(2016)



Use case

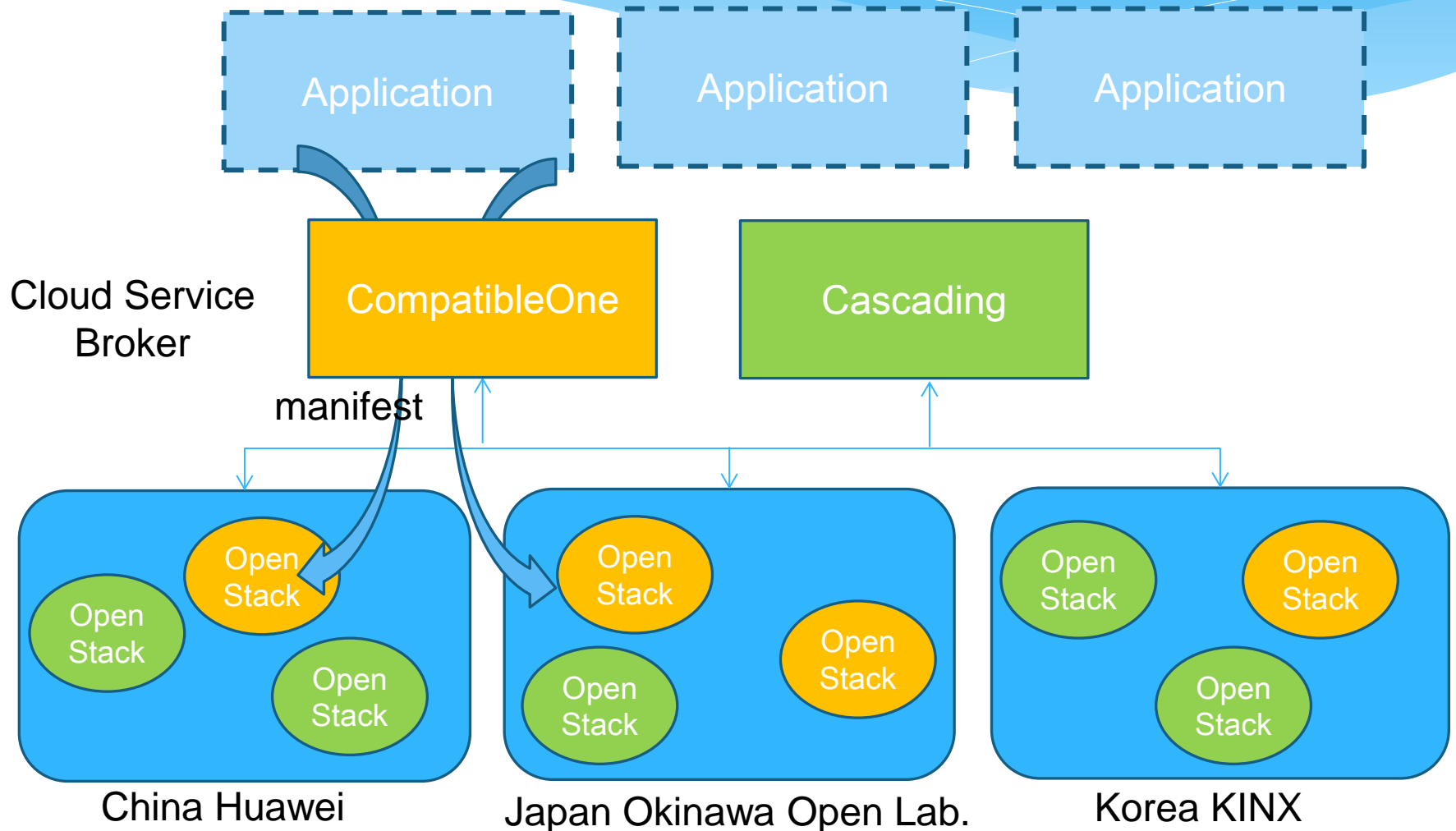
- RACK (Game AP) use case

+manifest

3. WG1 activities in Y2015

WG1 Developer meeting(8/19)

- CJK datacenters are connected/managed by CompatibleOne/Cascading



4. Plan in Y2016

- OpenStack
 - Continuing to construct CJK cloud testbed
 - Deploy application, and Evaluate
- Research cooperation possibilities in areas of Cloud Computing, Mobile Internet, Internet of Things, Big Data, Smart City and so on.

TBD in WG1 meeting on 16th Dec.

Thank You!



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