Update on OSSii
(OSS Interoperability Initiative)

NGMN Meeting
Singapore, 27/28th January 2015

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(version 1.0)

OSS paradigm
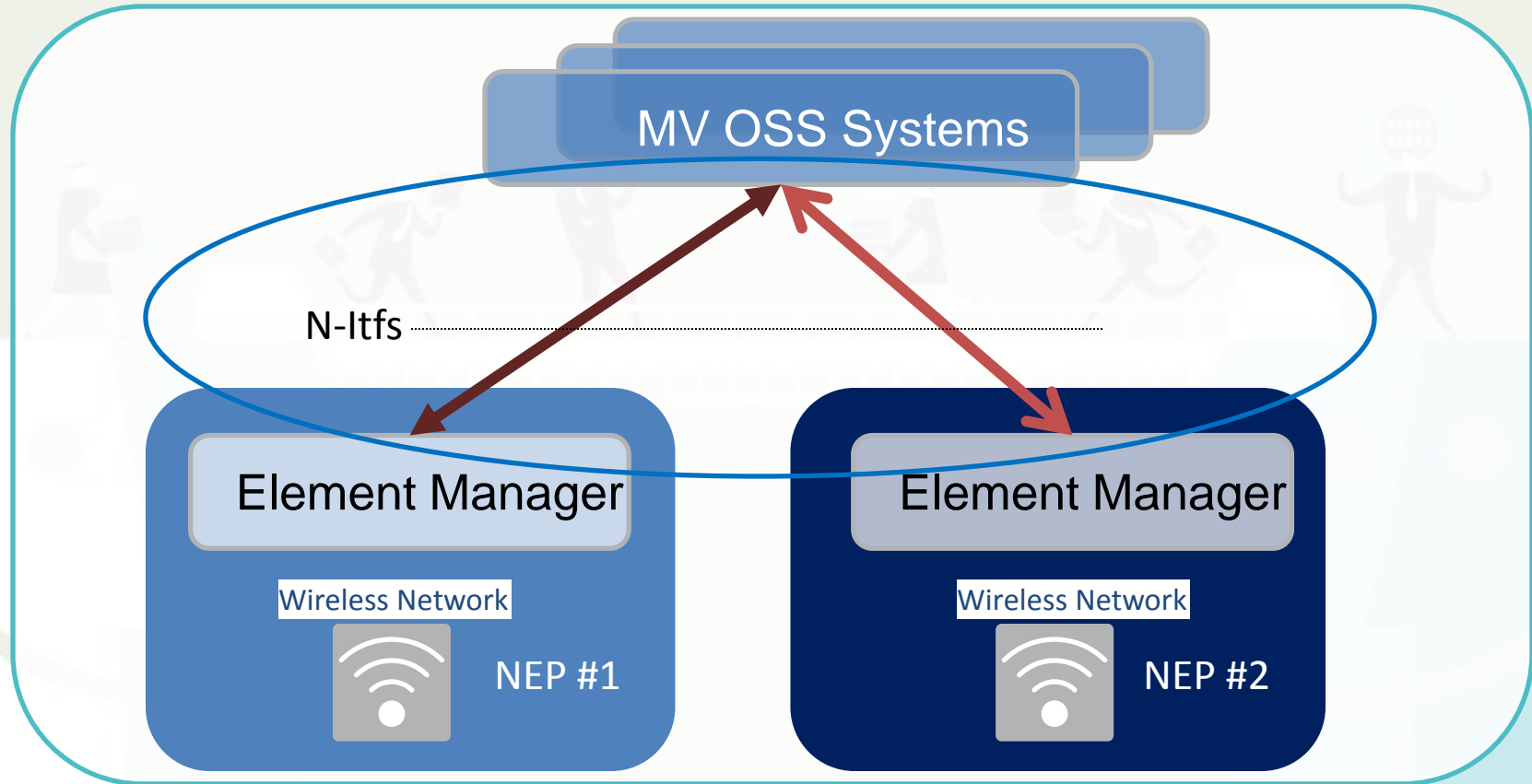
What is OSSii

An initiative by **Ericsson, Huawei and Nokia** to enable interoperability between their, and 3 party OSS systems for **reducing integration costs and promoting competition**

A **commitment** to **offer licensing of their existing OSS interfaces** for the purpose of development, manufacture and sale off functionality,
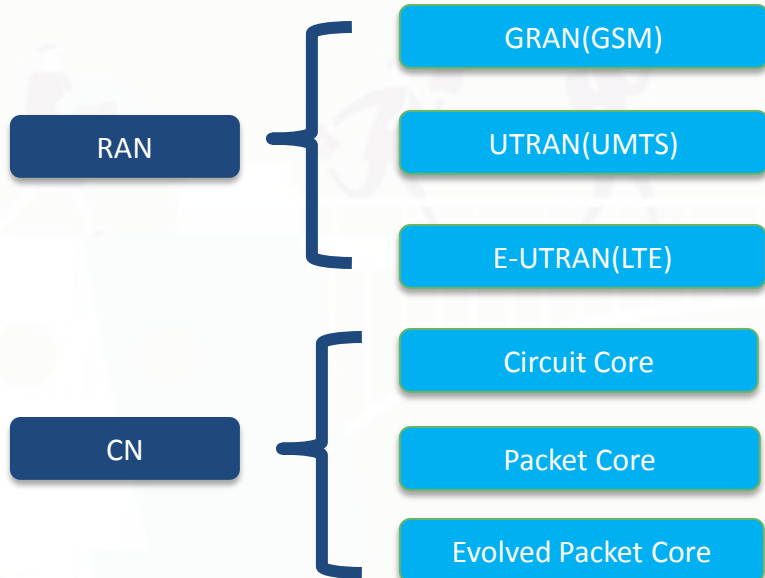
1) to one another,
2) to 3rd parties subject to reciprocity (NEPs) or
3) to 3rd parties on fair and reasonable terms (ISVs without own OSS interfaces)

A **complementary to standardization**, enabling interoperability by using the vendors' existing interfaces

An "initiative" instead of an industry body, forum or organization
The MoU made public available through a web portal

What is the Scope of OSSii

Involved Network Equipments Class

RAN
- GRAN(GSM)
- UTRAN(UMTS)
- E-UTRAN(LTE)

CN
- Circuit Core
- Packet Core
- Evolved Packet Core

Involved Network Interfaces Class

FM — for alarm management

PM — for performance counter data management

CM — for configuration data discovery and change management

Event/Trace — for network events/traces management
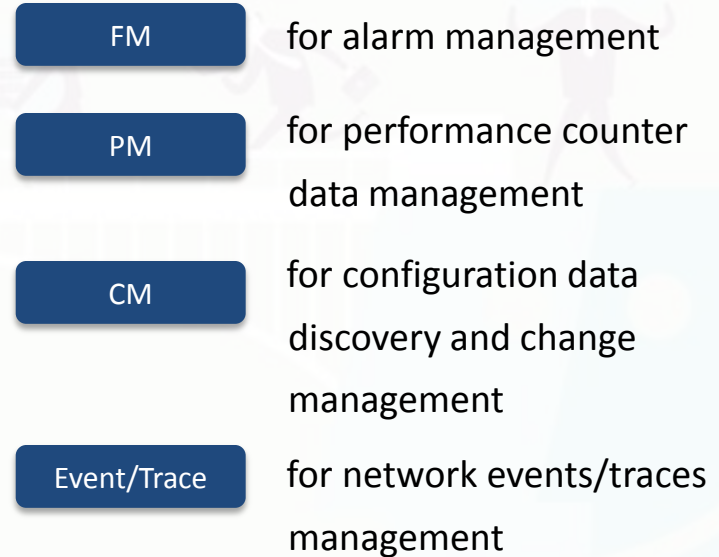
OSSii speeds up time to market

Without OSSii:

Operator (dedicated Integration Project)

Strong co-ordination needed
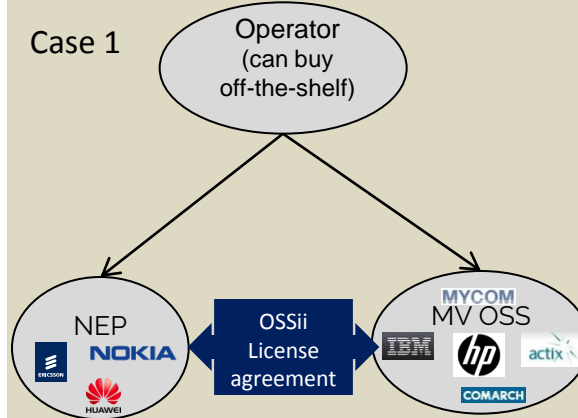
NEP — No business relationship — MV OSS
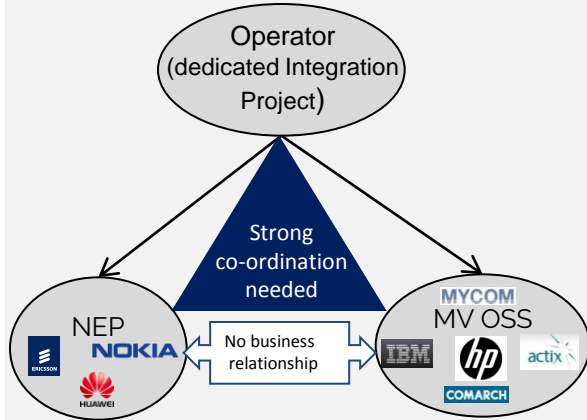
- According to Supplier agreements
- Operator needs to „moderate" between NEP and MV OSS Vendor
- No pre-integration possible
- Each case is treated as a seperated project

With OSSii:

Case 1

Operator (can buy off-the-shelf)

NEP ◄ OSSii License agreement ► MV OSS
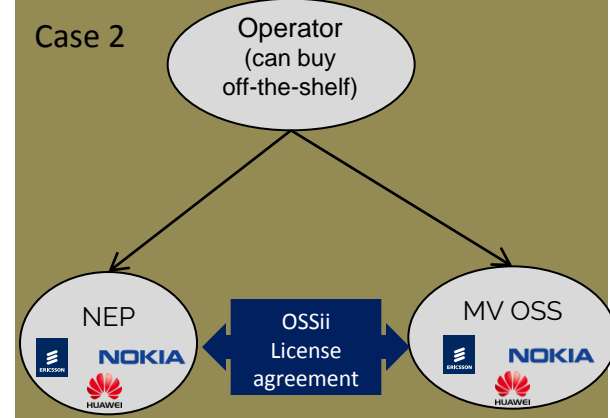
- No co-ordination by the operator needed
- Operator can buy „off-the-shelf"
- Pre-integration/testing possible

With OSSii:

Case 2

Operator (can buy off-the-shelf)

NEP ◄ OSSii License agreement ► MV OSS

- No co-ordination needed by the operator
- NEPs exchange NBI info between each other
- Operator can buy „off-the-shelf"
- Pre-integration/testing possible

Major Benefits for Operators

- Remote Testing Services are provided by all 3 vendors
- Lifecycle management is provided for the interfaces under OSSii
- Pre-verified OSS products for the new network releases

Higher integration efficiency

Speed up time to market

Lower integration costs

Major Benefits for 3rd Parties

- Remote Testing Services are provided by all 3 vendors
- Lifecycle management is provided for the interfaces under OSSii
- Visibility of vendor roadmaps and changes in advance
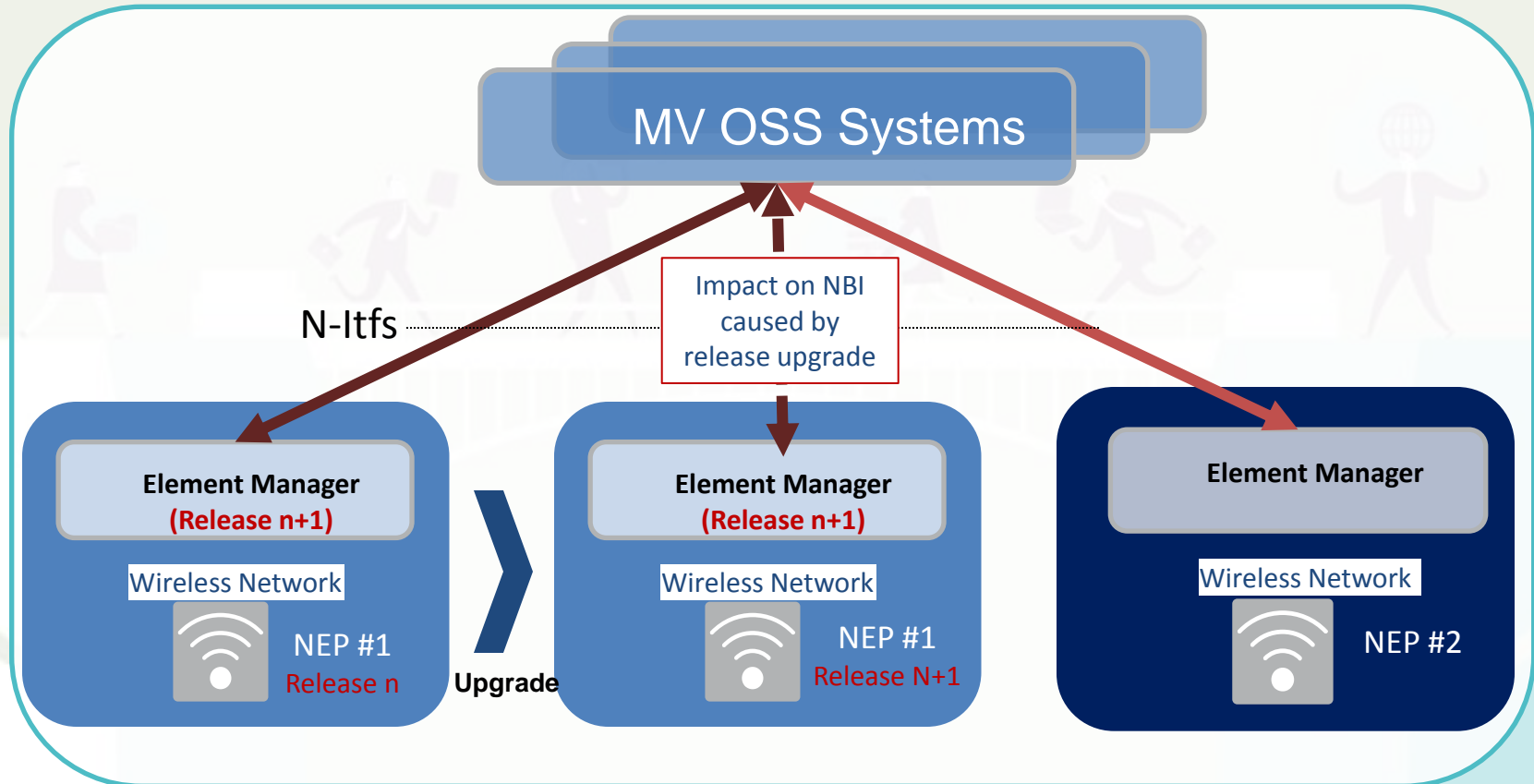- Pre-verified OSS products for the new network releases
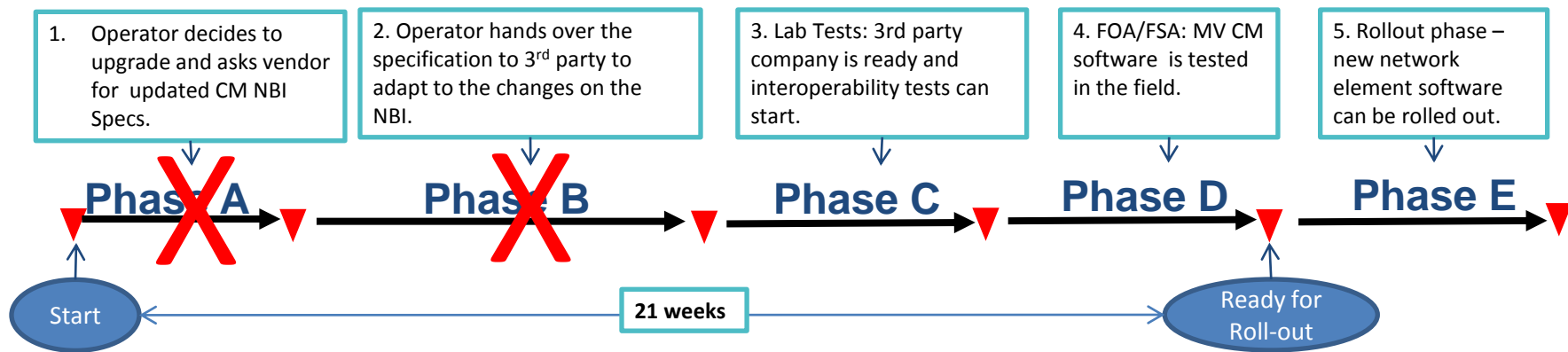
Possibility to develop and sell a „off-the-shelf product"

Optimize R&D resource planning

Speed up time to market

# Operator challenge - Reduce t-t-m for upgrade

Real Example - Reduce t-t-m for upgrade

1. Operator decides to upgrade and asks vendor for updated CM NBI Specs.

2. Operator hands over the specification to 3rd party to adapt to the changes on the NBI.

3. Lab Tests: 3rd party company is ready and interoperability tests can start.

4. FOA/FSA: MV CM software is tested in the field.

5. Rollout phase – new network element software can be rolled out.

Phase A **Phase B** **Phase C** **Phase D** **Phase E**

Start

21 weeks

Ready for Roll-out

	Typical time needed for upgrade of existing release	With OSSii
Phase A „Planning"	3 weeks	0 weeks
Phase B „Development"	7 weeks	0 weeks
Phase C „Lab Tests"	5 weeks	<<5weeks
Phase D „FOA (Firstoffice/site application)"	6 weeks	< 6 weeks

How to join OSSii
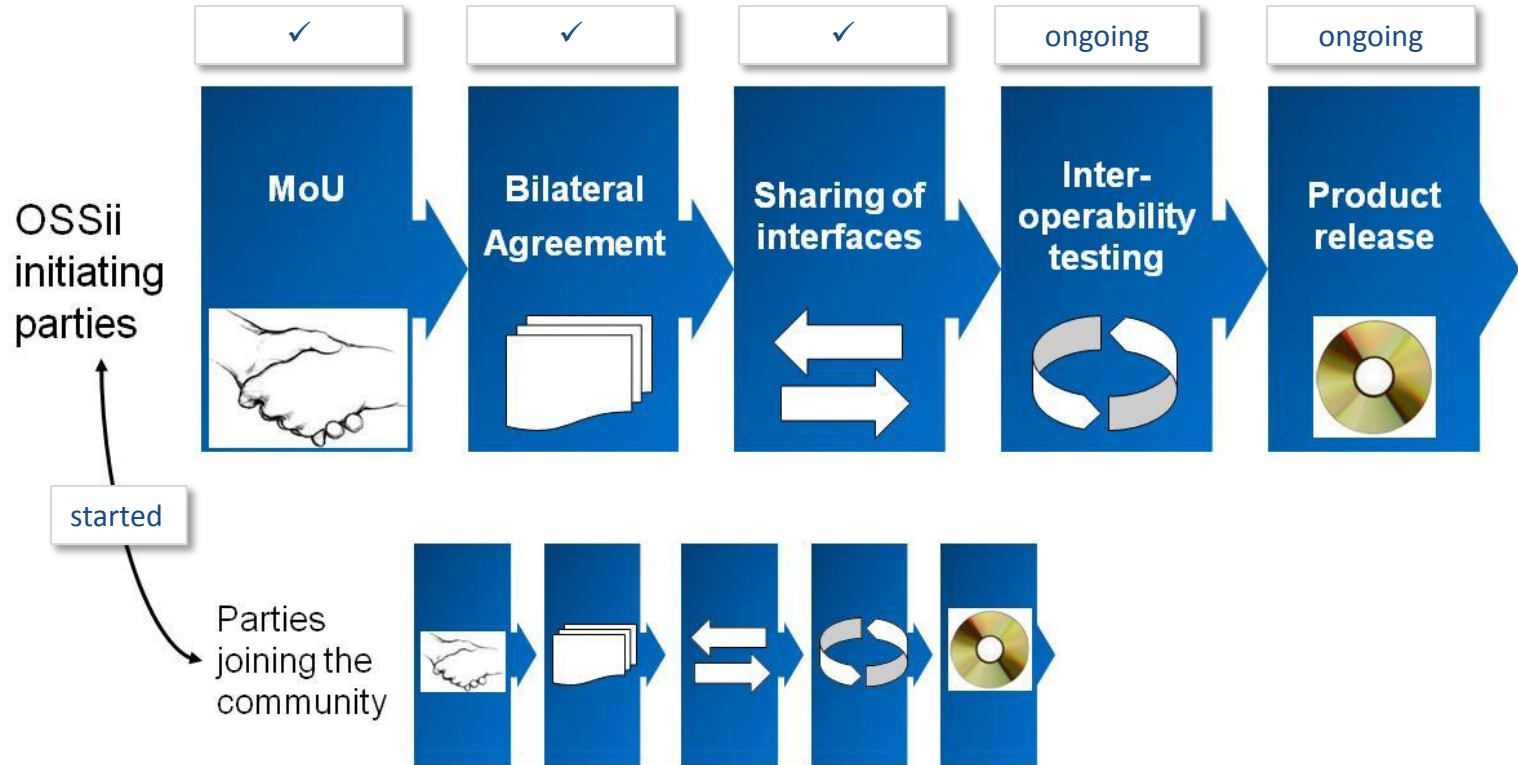
What has been achieved so far (Status Jan 2015)

2014:
Feb: Bi-lateral agreement was signed between the initiating parties for PM,FM and CM
Feb: Bi-lateral agreement was signed between the initiating parties for PM and FM
May: Bi-lateral agreement was signed between the initiating parties for Trace/Events
June: Bi-lateral agreement was signed between the initiating parties for CM and Trace/Events
June: Exchange of interface documentation done between the initiating parties
July: Set-up of portals to share interface documentation done between the initiating parties
Oct-January 2015: Interoperability Tests Nokia-E///, Huawei-Nokia, Huawei-E///

2013:
MoU was signed on May 8th, 2013 by all the parties (Nokia, E///,Huawei)
Anti-trust external analysis done by all parties. Law-firms did not find OSSii in conflict with competition law
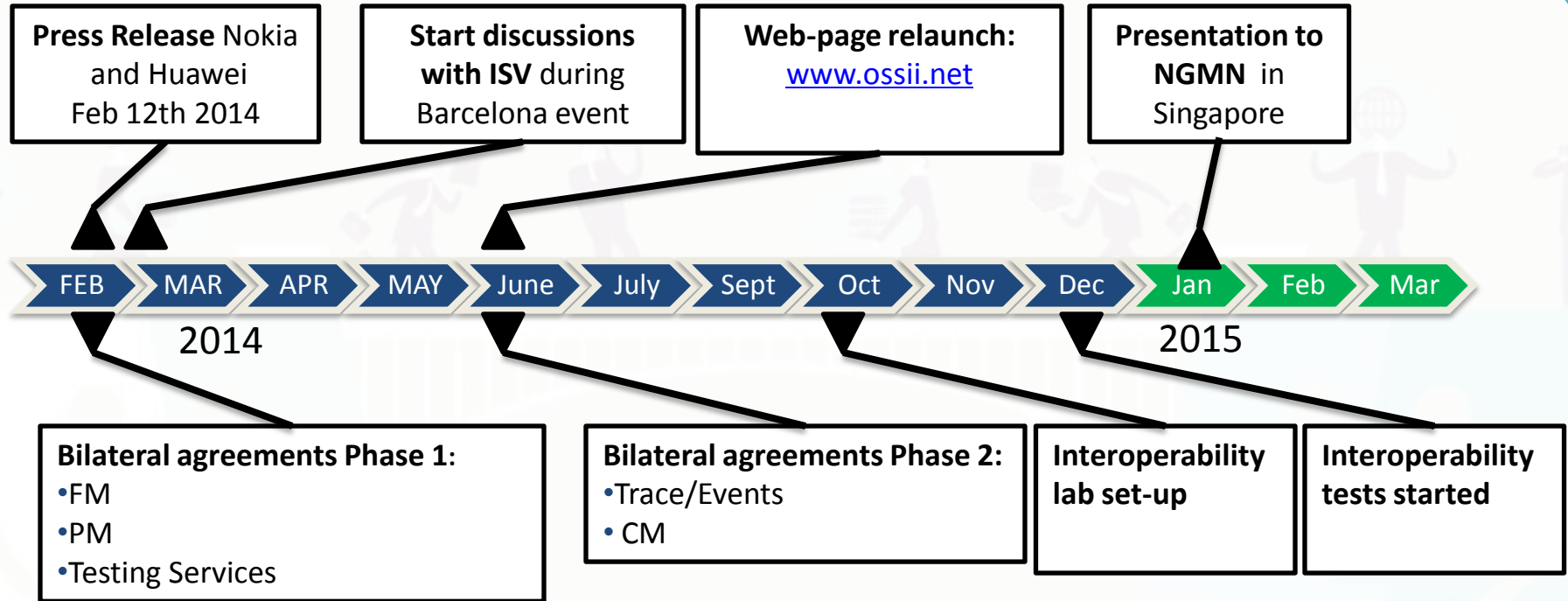Q&A published on May 13th, 2013
Seperate Press releases were published on May 13th, 2013 by each party
Portal: www.ossii.net went online on May 13th, 2013
Press Conference/Q&A Session held during TMF in Nice, May 14th-16th 2013
All signing parties will be present and answer questions to interested companies and parties.

Timeline OSSii

Press Release Nokia and Huawei Feb 12th 2014

Start discussions with ISV during Barcelona event

Web-page relaunch: www.ossii.net

Presentation to NGMN in Singapore

FEB MAR APR MAY June July Sept Oct Nov Dec Jan Feb Mar

2014

2015

Bilateral agreements Phase 1:
•FM
•PM
•Testing Services

Bilateral agreements Phase 2:
•Trace/Events
• CM

Interoperability lab set-up

Interoperability tests started
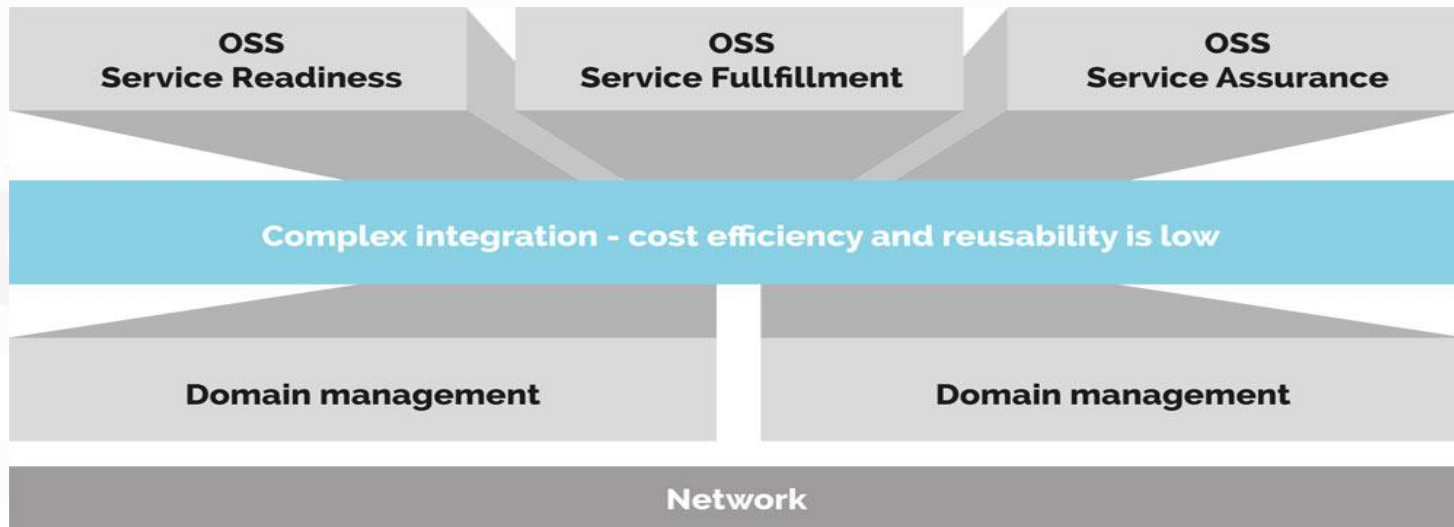
3rd Party Vendor Progress

- Big interest from major 3rd party players
- Detailed discussions ongoing with >10 3rd parties
- First agreements are expected soon

Thanks for your attention!

www.ossii.net

What OSSii tries to solve

| OSS Service Readiness | OSS Service Fullfillment | OSS Service Assurance |

Complex integration - cost efficiency and reusability is low

| Domain management | Domain management |

Network

Scope:
- OSS north bound radio and core: FM - PM – CM - event/trace interfaces including updates/upgrades, and one earlier release
- Related interface and interoperability testing specifications
- Interoperability testing services