













Thomas Tovinger Chairman of 3GPP SA WG5

Outline



- → 3GPP Overview
- 3GPP SA5 study on OAM support for LSA, objectives and status
- Conclusion & Next Steps

3GPP - The Mobile Broadband Standard



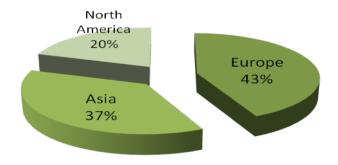
- The 3rd Generation Partnership Project (3GPP) unites [Seven] telecommunications standard development organizations (ARIB, ATIS, CCSA, ETSI, TSDSI, TTA, TTC), known as "Organizational Partners" and provides their members with a stable environment to produce the Reports and Specifications that define 3GPP technologies.
- The project covers cellular telecommunications network technologies, including radio access, the core network, and service capabilities including work on codecs, security, quality of service and thus provides complete system specifications.

3GPP Facts and Figures

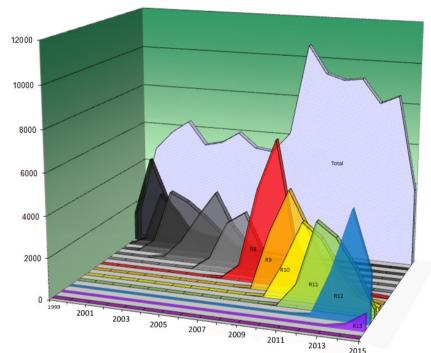


- [↑] ~400 Companies from 39 Countries
- 50.000 delegate days per year
- ◆ 40.000 documents per year
- 1.200 specs per Release
- New Release every ~18 months

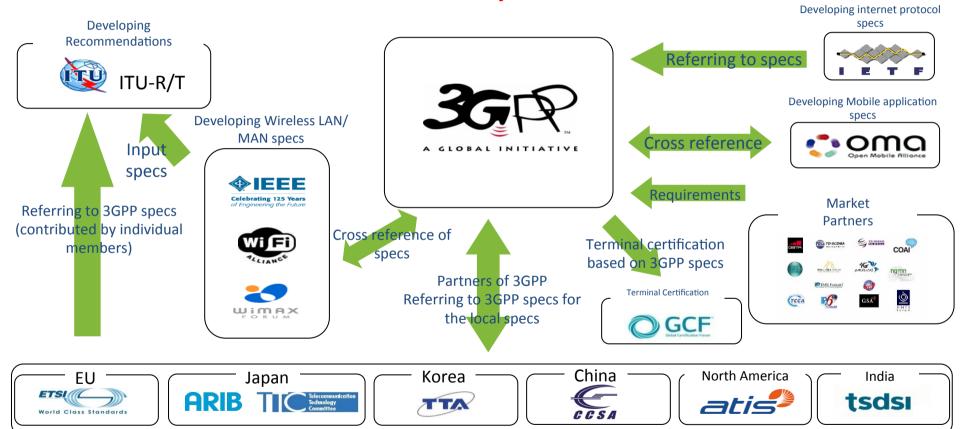
Participation by Region

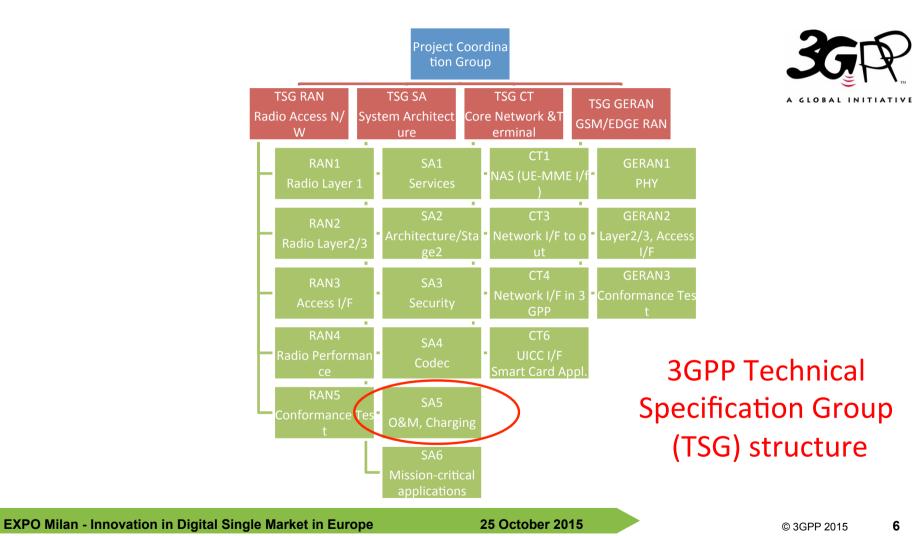






The 3GPP Eco-system





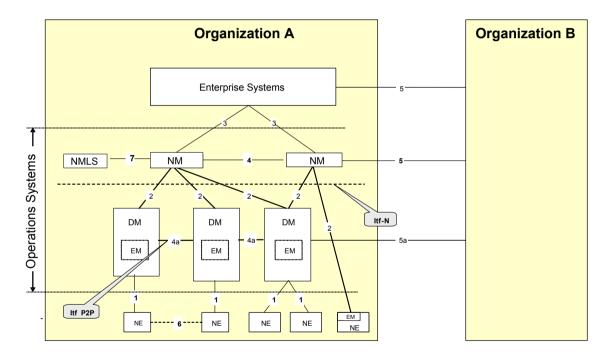
Study on OAM support for LSA - Objectives



- Study how the solution and architecture defined in ETSI TS 103 235 may provide a global solution for mobile networks.
- Study the impact on the 3GPP management architecture (reference model defined in 3GPP TS 32.101).
- Analyse the LSA functionalities and the information flow defined in ETSI TS 103 235 towards a 3GPP mobile network operator and any impact on Itf-N (SA5-defined standard "Northbound" management interface).
- Study how to support the static and semi-static spectrum sharing scenarios
 and reference use case defined in ETSI TR 103 113.
- Started April 2015
- Result documented in Technical Report (TR) 32.855

3GPP management reference model (from TS 32.101)

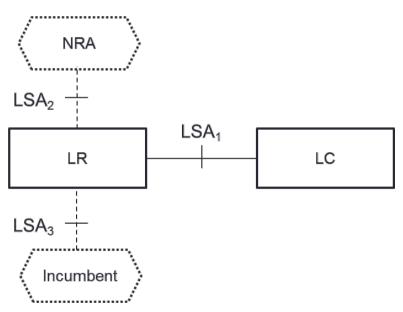




Architecture and Reference points to be considered by 3GPP SA5



All based on the LSA Architecture reference model defined in ETSI TS 103 235:

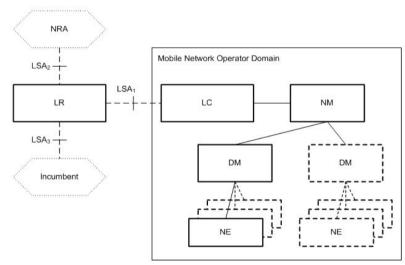


Options to connect LC to a 3GPP network



- Option 1 Direct interaction between LC and Network Elements (NEs)
- ♠ Option 2 LC as part of the NE
- Option 3 Interaction between LC and Domain Manager (DM)
- Option 4 LC as part of the DM
- Option 5 Interaction between LC and Network Manager (NM)
- Option 6 LC as part of the NM

Example: Option 5

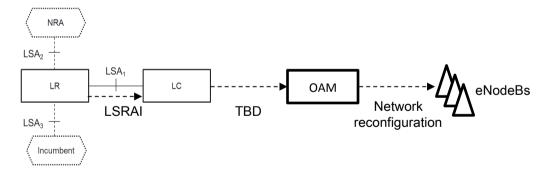


Main focus of study



- Implications on the 3GPP management architecture
- Advantages & disadvantages with all 6 options above
- Options with regard to functional split between LC and OA&M
- Interface functionality & information flows as depicted in the

following diagram:



Conclusion & Next Steps



- Completion of ETSI specification work is essential for standard support of LSA
- → 3GPP SA5 study to conclude on the options and necessity for further normative work in 3GPP
- ♠ Study expected to be completed by Dec. 2015



For more Information:





Search for WIDs at http://www.3gpp.org/specifications/work-plan and http://www.3gpp.org/specifications/work-plan and http://www.3gpp.org/specifications/work-plan and http://www.3gpp.org/specifications/work-plan and http://www.3gpp.org/specifications/work-plan and http://www.3gpp.org/ftp/Information/WORK PLAN/ (See excel sheet)