



3GPP SA2 Focus Area in Rel-13

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Broad Focus Areas for Rel-13

- Machine to Machine/Internet of Things
- Integration with non-3GPP technologies
- 3GPP technologies for Public Safety
- Building blocks for system evolution
- IMS Enhancements

Machine to Machine/Internet of Things

- M2M/IoT provides opportunity for new business model and services to 3GPP operators. This requires -
 - Exposing 3GPP service capabilities via APIs to 3rd party service providers and thereby monetizing the PLMN's assets.
 - Deploying new services (e.g. Monitoring Service) that could potentially generate new revenue stream.
 - Optimizing 3GPP internal resources by understanding applications usage requirements and communications pattern (e.g. dedicated CN nodes, optimizing inactivity timers etc.).
- This has to be complemented by New/Enhanced RAT for M2M/IoT which falls in RAN domain.
- **3GPP Work/Study items:** AESE (SA2), MONTE (SA2), GROUPE (SA2), DECOR (SA2), FS_HLCom (SA2), FS_eDRX(SA2)

Machine to Machine/Internet of Things

- **Additional considerations for work items -**

- AESE (SA2): OMA and oneM2M is actively looking into completion of this work. Study is 65% complete. CR agreed on Service Capability Exposure Framework. Please refer S2-144691/SP-140702.
- MONTE (SA2): Study is 85% complete. Most conclusions has been agreed. Please refer S2-144688/SP-140701
- GROUPE (SA2): Study is 70% complete. Work item scope has been reduced. Please refer S2-144400/SP-140689
- DECOR (SA2): Study is 100% complete. Please refer S2-144090/SP-140696
- FS_HLCom (SA2): Optimization for high latency communication is needed due to PSM and eDRX feature.
- FS_eDRX (SA2): System aspects has already been studied in Rel-12 MTCe-UEPCOP. Most of the work needs to happen in RAN2. SA2 only need align specifications once RAN2 reaches conclusion. No need to allocate any time till RAN2 makes progress.

Integration with non-3GPP technologies

- Dual radio devices (e.g. 3GPP/LTE & WiFi) are becoming commonly available and the set of applications running in the mobile devices is diversifying.
- 3GPP has done lot of work on integrating WLAN as trusted access to 3GPP system in Rel-12. Further work is needed to allow -
 - Seamless IP flow mobility between 3GPP and WLAN over S2a/S2b interfaces.
- **3GPP Work/Study items:** NBIFOM (SA2)

3GPP technologies for Public Safety

- Enable LTE as the future technology for critical communications users including public safety first responders as well as other users such as utility companies and railways. This requires -
 - Building Mission critical Push to talk (MCPTT) service for on-network and off-network operation, including relays
 - Enhancing the Device-to-Device interface (PC5) to support 1:1 communication and off-network discovery
 - Enabling isolated E-UTRAN operation (IOPS)
- **3GPP Work/Study items:** MCPTT (SA6, SA2), eProSe_Ext (SA2), FS_IOPS_St2 (SA2)
- For MCPTT, once SA6 becomes operational there will be not work on EPS (excluding the IMS) aspects in SA2. IMS aspects may be handled in a parallel stream (thus freeing the current estimate of 6 slots)
- eProSe-Ext and FS_IOPS_St2 work items may be scoped down for Rel-13
 - Initial focus on 1:1 communication, relays and off-network discovery
 - “no backhaul” case in IOPS can be expedited to SA3, whereas the “limited backhaul” access can be deprioritized

Building blocks for system evolution

- Rel-13 will form the basis for 5G. Certain 3GPP systems enhancements would ease migration towards 5G system. This includes -
 - Define and modify traffic steering policies that are used to steer traffic in (S)Gi-LAN.
 - System evolution that leverages applications' capability for coping with IP address changes to optimize the system (lower delay, lower overhead, better scalability)
- **3GPP Work/Study items:** FMSS (SA2), FS_CSIPTO_st2 (SA2)

IMS Enhancements

- Enhancements to WebRTC interworking to cover following aspects that were not covered in Rel-12:
 - WebRTC support of IMS subscriptions corresponding to users managed by third parties
 - Third-party realization of communication services
 - Architectural aspects for minimizing the need for bearer level protocol conversion
- **3GPP Work/Study items:** eWebRTCi (SA2)

Summary

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3GPP focus Area for Rel-13	Work Items
Machine to Machine/Internet of Things	AESE (SA2), MONTE (SA2), GROUPE (SA2), DECOR (SA2), FS_HLCom (SA2), FS_eDRX(SA2)
Integration with non-3GPP technologies	NBIFOM (SA2)
3GPP technologies for Public Safety	MCPTT (SA6, SA2), eProSe_Ext (SA2), FS_IOPS_St2 (SA2)
Building blocks for system evolution	FMSS (SA2), FS_CSIPTO_St2 (SA2)
IMS Enhancements	eWebRTCi (SA2)

