

# Release 16

## Considerations & Priority



# The Considerations for Release 16 Priority

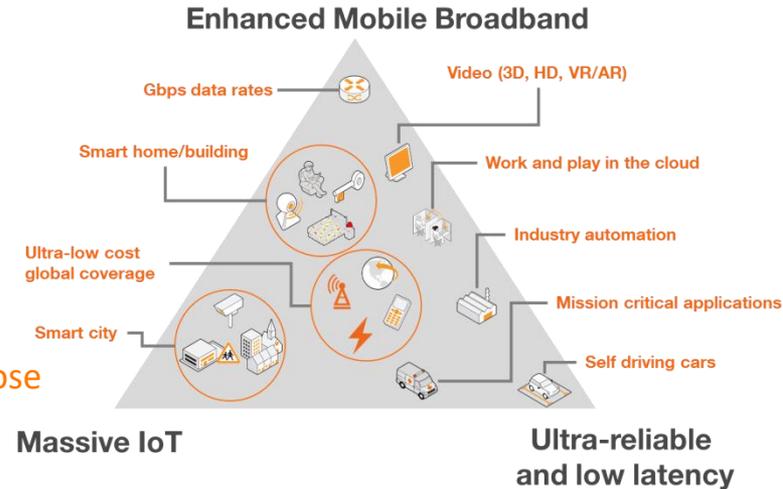
❑ Features & Functions to improve 5G system performance, capacity, security, network automation & interoperability, and market opportunities

❑ Completion and Improvements of R15 incomplete features and functions, in particular, the architecture options that may not be completed in R15, including Option 4, 7 and 5, depending on the progress of RAN R15 late drop.

❑ Features & Functions essential to support the above and have system-wide impacts in particular on RAN to make sure that the relevant work starts and completes in time (December 2019) in close coordination among SA, RAN and CT.

❑ The scope and objectives of R16 priority items must be defined in consideration of R16 timeline (stage 3 frozen by December 2019) for timely submission to IMT-2020.

❑ Focus on items in most time and task critical WG, e.g. SA2



## The R16 High Priority Items (1/2) – SA2

WID Title	Objectives	Interest to Operators	System/RAN Impact	Note
Study on Enhancement of URLLC supporting in 5GC	5GC enhancement for URLLC requirements in TS22.261	High	Don't Know	SP-180118/SA2
Study on enhancement of systems using EPS for Ultra Reliability and Availability using commodity equipment	EPS enhancements to enable data services of ultra reliability and availability	High	Yes	SP-180119/SA2
Study on Enhancement of Network Slicing	Study open issues on network slicing issues incomplete in R15	High	Don't Know	SP-180121/SA2
Study on Enhancements to the Service-Based 5G System Architecture	Optimizations of Release 15 SBA for higher flexibility & better modularization of the 5G System	High	Don't Know	SP-180231/SA2
Study on Enhanced IMS to 5GC Integration	Enhancements to the IMS architecture and capabilities to better address the new features and services of the 5GC system	High	No	SP-171052/SA2
Study on the Wireless and Wireline Convergence for the 5G system architecture	Enhance the common 5G core network to natively support non-3GPP access networks, specifically wireline access networks	High	Don't Know	SP-170380/SA2

## The R16 High Priority Items (2/2) – SA2

WID Title	Objectives	Interest to Operators	System/RAN Impact	Note
Study on Access Traffic Steering, Switch and Splitting support in the 5G system architecture	Architecture enhancement to switch or split traffic between 3GPP and non-3GPP accesses to deliver the best customer experience.	High	Yes	SP-170411/SA2
Study on architecture enhancements for 3GPP support of advanced V2X services	Architecture enhancements of EPS and 5G System design to support advanced V2X services identified in TR 22.886, V2X TS 22.185) and eV2X TS 22.186	High	Yes	SP-170590, postponed from R15/SA2
Study of enablers for Network Automation for 5G	Study the solutions for improving R15 Network Data Analytics (NWDA) to support network automation and information exposure across technical domains for context mining	High	Yes	SP-170383/SA2
Study on EPC support for Mobility with Low Latency Communication	Utilise the CUPS architecture and identify solutions based on EPC functionality to enable UE mobility with low latency	High	Don't Know	SP-171069/SA2
Study on Cellular IoT support and evolution for the 5G System	Study the solutions to support CiOT/MTC functionalities in 5G CN and co-existence and migration from EPC based eMTC/NB-IoT to 5GCN as well as 5G System enhancements of 5G service requirements (Ref: TS 22.261 and TR 38.913).	High	Yes	SP-170801/SA2

## The R16 High Priority Items (1/3) – Other SA WGs

WID Title	Objectives	Interest to Operators	System/RAN Impact	Note
New Services and Markets Technology Enablers – Phase 2	Further clarification and alignment with stage 2/3 work requests and constraints	High	Yes	SP-180138/SA1
Enhancements to IMS for new real time communication services	Develop system level requirements for IMS, MC and GCSE services to support new RTC services.	High	Yes	SP-180137/SA1
Mobile Communication System for Railways 2	Identify the requirements highly specific to railway communication and not fitting to any existing specification	High	Yes	SP-170451/SA1
Study on positioning use cases	Study of 5G positioning use cases, requirements and performance.	High	Don't Know	SP-170589/SA1
Study on Communication for Automation in Vertical Domains	Identify the requirements for automation in vertical domains	High	Don't Know	SP-170169/SA1
Study on Business Role Models for Network Slicing	Examine the business role models for network slicing in order to identify potential requirements that will enable a 3GPP system to adequately support those models.	High	Yes	SP-180169/SA1

## The R16 High Priority Items (2/3) – Other SA WGs

WID Title	Objectives	Interest to Operators	System/RAN Impact	Note
Study on supporting 256-bit algorithms for 5G	Address the questions of why, when, where, and how to counter the threats and potential countermeasures; comparing of countermeasures in the 5G system and increase the key lengths to 256 bits	High	Yes	SP-171054/SA3
Study on Evolution of Cellular IoT Security for the 5G System	Capture massive MTC/CIoT related 5G requirements from other working groups in 3GPP and further analyse security issues and enhancements	High	Yes	S3-181444/SA3
Study on authentication and key Management for applications based on 3GPP credentials in 5G	Identify key issues, derive requirements and solutions to support authentication and key management for applications and 3GPP services based on 3GPP credential in 5G	High	No	S3-181562/SA3
Study on the security of the Wireless and Wireline Convergence for the 5G system architecture	Investigate the security issues for Wireless and Wireline Convergence for the 5G aspects including securities between a 5G-RG and 5GC, a FN RG and 5GC, Access independent security for User Plane traffic and for 3GPP UE behind a 5G-RG or a FN RG, etc	High	Don't Know	S3-181442/SA3

## The R16 High Priority Items (3/3) – Other SA WGs

WID Title	Objectives	Interest to Operators	System/RAN Impact	Note
Usage of CAPIF for xMB API	Modify xMB stage 2 to align it with the CAPIF TS 23.222. to separate xMB stage 2 definition into a new specification.	High	No	SP-180031/SA4
EVS Codec Extension for Immersive Voice and Audio Services	Develop a single general-purpose audio codec for immersive 4G and 5G services and applications including the VR use cases envisioned in 3GPP TR 26.918.	High	No	SP-170611/SA4
Study on Media Handling Aspects of RAN Delay Budget Reporting in MTSI	Study the media handling aspects of RAN delay budget reporting framework in MTSI	High	No	SP-170837/SA4
Study on integration of ONAP DCAE and 3GPP management architecture	Study how ONAP DCAE (Data Collection, Analytics and Events) positions itself in reference to 3GPP management architecture and analyse how DCAE data collection in ONAP maps with 3GPP Alarm IRP and PM IRP communication principles.	High	Yes	SP-170948/SA5

# Thank You

