Update on progress SA#87-e meeting

Georg Mayer, 3GPP SA Chairman

COVID-19 Impact

- Cancellation of all 3GPP face-to-face meetings, including plenaries
  - so far Q1 and Q2/2020
  - more f2f meetings might need cancelling in Q3 and beyond

- All 3GPP meetings now conducted as e-meetings
  - Less, but still stable and high-quality output
  - Tooling and procedures are discussed and further aligned

- Focus is on Completion of Rel-16

- Rel-17 starting up on stage 2 level

3GPP Release 16

- Stage 3 Freeze Date shifted to June 2020 Plenary

- Coding Freeze Date stays June 2020

- This ensures that IMT-2020 timeline is met
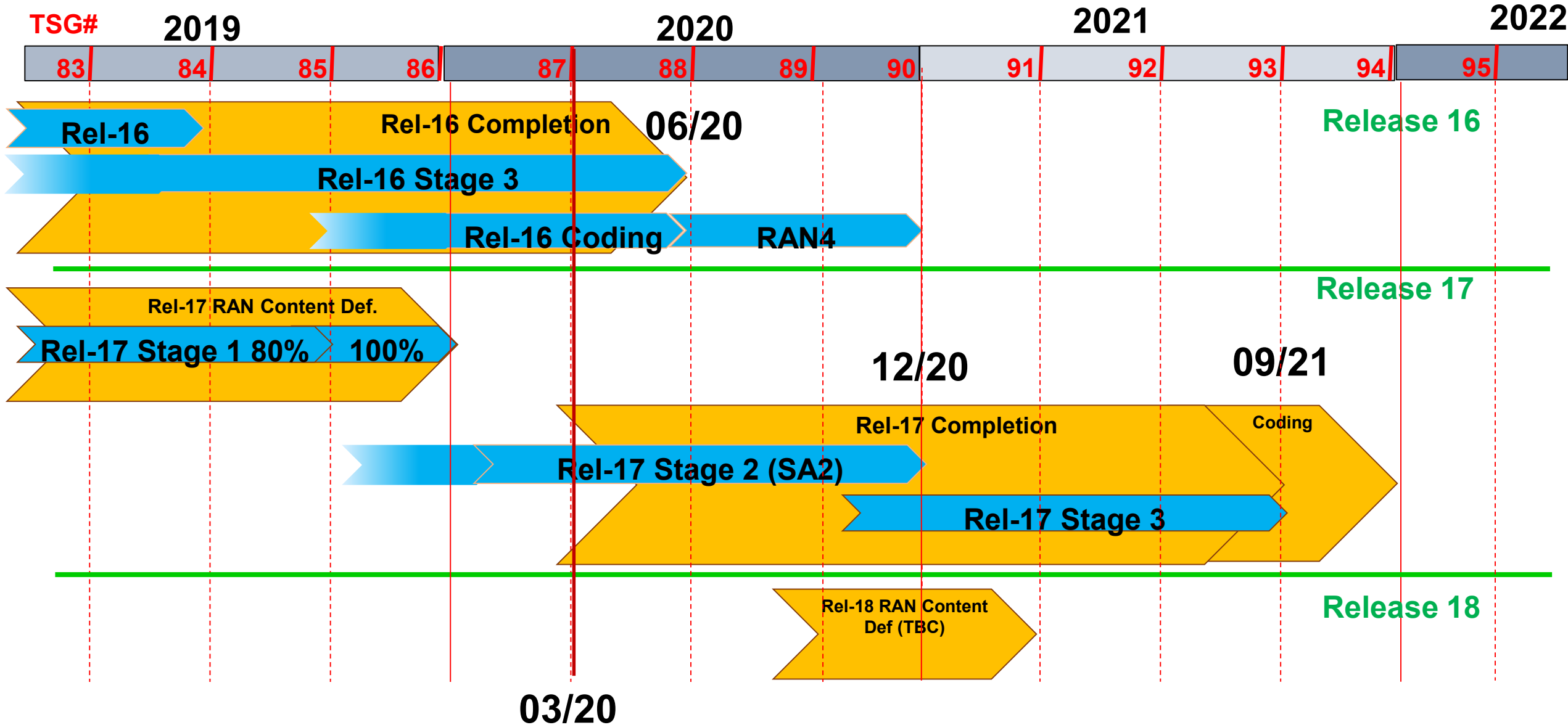 and product roll-out plans don't have to change

- Requirements (SA1) and Stage 2 are complete

- For Stage 2 some cross-WG issues are still discussed

- Exception sheets were endorsed by all impacted SA WGs

3GPP Release 17

- SA1 finished work as foreseen on stage 1 in Q4/19

- SA2 prioritization & timeline
  - Content and timeline ("15 month release") approved in 12/2019 SA Plenary
  - Coordination with RAN groups on details of content ongoing

- Due to COVID-19 crisis R17 timeline was shifted by 3 months

Current Ongoing Releases timelines

| TSG# | 2019 | | | | 2020 | | | | 2021 | | | | 2022 |

Rel-17 SA1 Work Items

Stage 1 of ATRAC	ATRAC	S1	100%	SP-190931
Stage 1 of CMED	CMED	S1	100%	SP-190306
Stage 1 of eCAV	eCAV	S1	95%	SP-191043
Complete Gap Analysis for Railways Mobile Communication System	MONASTERYEND	S1	100%	SP-190312
Study on Future Railway Mobile Communication System3	FS_FRMCS3	S1	100%	SP-190321
Stage 1 of AVPROD	AVPROD	S1	100%	SP-191041
Stage 1 of EAV	EAV	S1	100%	SP-190308
Broadcast / Multicast requirements supporting Mission Critical Services in 5G	5MBS_eMC	S1	100%	SP-190942
Stage 1 of REFEC	REFEC	S1	100%	SP-190307
Stage 1 of NCIS	NCIS	S1	100%	SP-191039
Stage 1 of MUSIM	MUSIM	S1	100%	SP-190309
Multi-Device and multi-identity Enhancements	MuDE	S1	100%	SP-190823
Stage 1 of MPS2	MPS2	S1	100%	SP-190561
Verification-modified Calling Name Display	VMOD_DISPLAY	S1	100%	SP-190085
Enhanced Calling Name Service Analytics Interworking	eCNAM_An	S1	100%	SP-190940
Enhancement for the 5G Control Plane Steering of Roaming for UE in CONNECTED mode	eCPSOR_CON	S1	100%	SP-190941
Study on MINT	FS_MINT	S1	100%	SP-190090
Stage 1 of MINT	MINT	S1	100%	SP-190938
IMS emergency support for SNPN	IESNPN	S1	100%	SP-191038

© 3GPP 2020

Rel-17 SA2 Studies & Work Items

Study on enhancement of support for 5G LAN-type service	FS_5GLAN_enh	S2	0%	SP-190626
Enhancement to the 5GC LoCation Services-Phase 2	5G_eLCS_ph2	S2	0%	SP-200082
Study on supporting Unmanned Aerial Systems Connectivity, Identification, and Tracking	FS_ID_UAS_SA2	S2	25%	SP-200097
Study on architecture aspects for using satellite access in 5G	FS_5GSAT_ARCH	S2	85%	SP-181253
Integration of satellite components in the 5G architecture	5GSAT_ARCH	S2	0%	SP-191335
Study on enhanced support of Industrial IoT	FS_IIoT	S2	40%	SP-200298
Study on V2X services – Phase 2	FS_eV2XARC_Ph2	S2	0%	SP-190631
Study on Architectural enhancements for 5G multicast-broadcast services	FS_5MBS	S2	35%	SP-200092
Study on Stage 2 (System Enablers) for MUSIM	FS_MUSIM	S2	45%	SP-200297
Stage 2 of Multimedia Priority Service (MPS) Phase 2	MPS2	S2	0%	SP-200083
5G System Enhancement for Advanced Interactive Services	5G_AIS	S2	0%	SP-190564
Supporting Flexible Local Area Data Network	FLADN	S2	0%	SP-190563
Study on Enhancement of Network Slicing Phase 2	FS_eNS_Ph2	S2	35%	SP-190931
Study on System enhancement for Proximity based Services in 5GS	FS_5G_ProSe	S2	55%	SP-190443
Study on enhancement of support for 5WWC	FS_5WWC_Ph2	S2	0%	SP-190562
Study on enhanced support of Non-Public Networks	FS_eNPN	S2	35%	SP-200094
Study on Enablers for Network Automation for 5G - phase 2	FS_eNA_Ph2	S2	32%	SP-200098
Study on enhancement of 5G UE Policy	FS_eUEPO	S2	0%	SP-190449
Study on the Usage of User Identifiers in the 5G System	FS_UUI5	S2	0%	SP-190450
Study on service-based support for SMS in 5GC	FS_SB_SMS	S2	0%	SP-190184
Study on enhancement of support for Edge Computing in 5GC	FS_enh_EC	S2	40%	SP-200093
Study on UPF enhancement for control and SBA	FS_UPCAS	S2	0%	SP-190187
Study on Access Traffic Steering, Switch and Splitting support in the 5G system architecture Phase 2	FS_ATSSS_Ph2	S2	15%	SP-200095
Study on Multimedia Priority Service (MPS) Phase 2, Stage 2	FS_MPS2_St2	S2	0%	SP-190629

Rel-17 SA3 Studies and Work Items

Integration of GBA into 5GC	GBA_5G	S3	0%	SP-190714
Assurance Specification for IMS	SCAS_IMS	S3	0%	SP-191128
Security Assurance Specification for 5G	eSCAS_5G	S3	0%	SP-200149
Security Assurance Specification for Non-3GPP InterWorking Function (N3IWF)	SCAS_5G_N3IWF	S3	0%	SP-200146
Security Assurance Specification for 5G NWDAF	SCAS_5G_NWDAF	S3	0%	SP-200147
Security Assurance Specification for Service Communication Proxy (SECOP)	SCAS_5G_SECOP	S3	0%	SP-200148
Lawful Interception Rel-17	LI17	S3	0%	SP-190983
Study on 5G security enhancement against false base stations	FS_5GFBS	S3	75%	SP-180690
Study on SECAM and SCAS for 3GPP virtualized network products	FS_VNP_SECAM_SCAS	S3	35%	SP-180696
Study on User Plane Integrity Protection	FS_UP_IP_Sec	S3	65%	SP-181035
Study on Security Impacts of Virtualisation	FS_SIV	S3	45%	SP-181236
Study on Long Term Key Update Process (LTKUP) Detailed solutions	FS_LTKUP_Detail	S3	60%	SP-181038
Study on authentication enhancements in 5GS	FS_AUTH_ENH	S3	40%	SP-190713

Rel-17 SA4 Studies and Work Items

Study on Multicast Architecture Enhancements for 5G Media Streaming	FS_5GMS_Multicast	S4	0%	SP-200238
5G Media Streaming stage 3	5GMS3	S4	70%	SP-190464
Support of Immersive Teleconferencing and Telepresence for Remote Terminals	ITT4RT	S4	35%	SP-180985
Terminal Audio quality performance and Test methods for Immersive Audio Services	ATIAS	S4	15%	SP-190040
EVS Codec Extension for Immersive Voice and Audio Services	IVAS_Codec	S4	27%	SP-170611
VR QoE metrics	VRQoE	S4	100%	SP-190331
Study on VR Streaming Conformance and Guidelines	FS_VR_CoGui	S4	10%	SP-190642
Study on 5G Video Codec Characteristics	FS_5GVideo	S4	0%	SP-200052
Study on the use of NBMP in FLUS	FS_FLUS_NBMP	S4	0%	SP-200053
Study on Streaming Architecture extensions For Edge processing	FS_EMSA	S4	0%	SP-200056

Rel-17 SA5 Studies and Work Items

Enhancements on EE for 5G networks	EE5GPLUS	S5	0%	SP-200188
Management of non-public networks	OAM_NPN	S5	0%	SP-200189
Enhancement on Management Aspects of 5G Service-Level Agreement	EMA5SLA	S5	0%	SP-200190
Management of MDT enhancement in 5G	e_5GMDT	S5	0%	SP-200191
Additional NRM features	adNRM	S5	0%	SP-200192
Enhancement of QoE Measurement Collection	eQoE	S5	0%	SP-200193
Enhancements of Self-Organizing Networks (SON) for 5G networks	eSON_5G	S5	0%	SP-200194
Closed loop SLS Assurance	eCOSLA	S5	0%	SP-200196
IMS Charging in 5G System Architecture	5GSIMSCH	S5	30%	SP-190367
Intent driven management service for mobile network	IDMS_MN	S5	55%	SP-180899
Study on network slice management enhancement	FS_NSMEN	S5	0%	SP-191192
Study on enhancement of Management Data Analytics Service	FS_eMDAS	S5	30%	SP-190930
Study on new aspects of EE for 5G networks	FS_EE5G	S5	0%	SP-200187
Study on enhancements of edge computing management	FS_eECM	S5	0%	SP-200195

Rel-17 SA6 Studies and Work Items

Study on application layer support for Factories of the Future in 5G network	FS_FFAPP	S6	50%	SP-190724
Enhancements to Application Architecture for the Mobile Communication System for Railways Phase 2	eMONASTERY2	S6	60%	SP-191104
Study on application layer support for Unmanned Aerial System (UAS)	FS_UASAPP	S6	35%	SP-200111
Study on enhancements to application layer support for V2X services	FS_eV2XAPP	S6	50%	SP-200110
Study on Mission Critical services support over 5G System	FS_MCOver5GS	S6	45%	SP-181136
Mission Critical Data	eMCData3	S6	15%	SP-191106
Study on Mission Critical services over 5G multicast-broadcast system	FS_MC5MBS	S6	100%	SP-190929
Study on Application Architecture for enabling Edge Applications	FS_EDGEAPP	S6	100%	SP-190065
Architecture for enabling Edge Applications	EDGEAPP	S6	20%	SP-200109
MC services support on IOPS mode of operation	MCIOPS	S6	50%	SP-190944
Enhanced Mission Critical Push-to-talk architecture phase 3	enh3MCPTT	S6	0%	SP-200108
Study on support of the 5GMSG Service	FS_5GMARCH	S6	40%	SP-190559

Thank You!

Georg Mayer
3GPP SA Chairman
mail: georg.mayer@huawei.com
phone: +43 699 1900 5758

© 3GPP 2020