TSDSI Outreach Workshop at 3GPP TSG #101 - Sep 15, 2023





TSG SA Update on Rel-18 and Rel-19





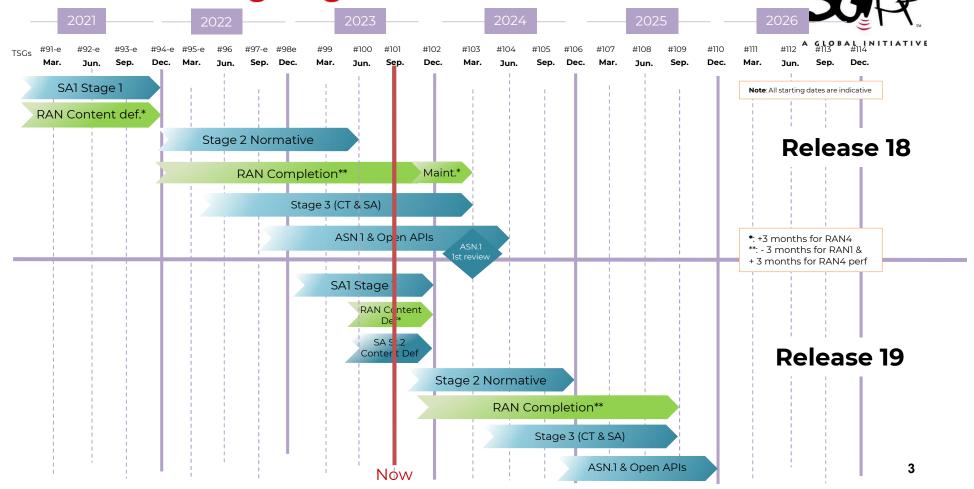


Puneet Jain, Intel **SA Chair**

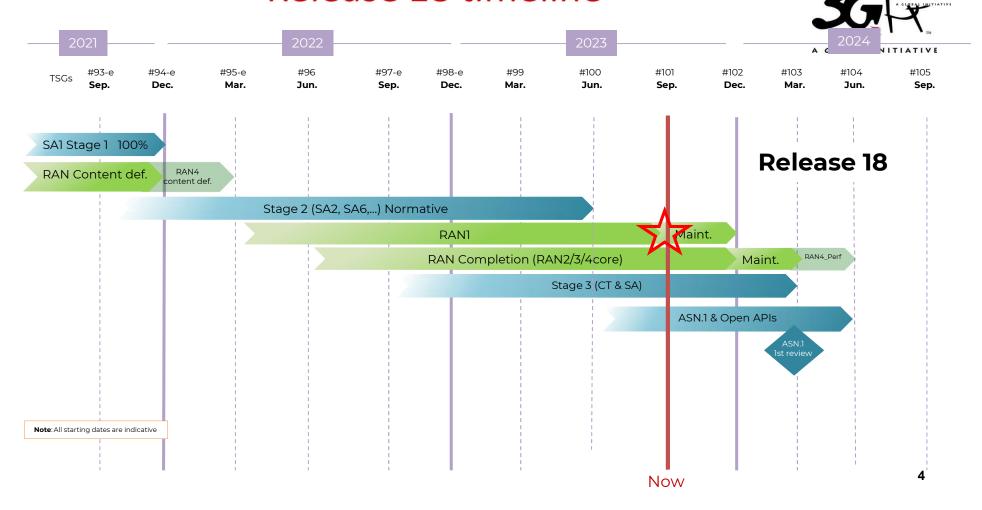
Technical Specification Group – System and Service Aspects (TSG-SA)

Aspects (130 3A)					
Project Co-ordination Group (PCG)					
TSG RAN Radio Access Network	TSG SA Service & System Aspects	TSG CT Core Network & Terminals			
RAN WG1 Radio Layer 1 (Physical layer)	SA WG1 Services	<u>CT WG1</u> User Equipment - Core Network protocols			
RAN WG2 Radio layer 2 and Radio layer 3 Radio Resource Control	SA WG2 System Architecture and Services	CT WG3 Interworking with External Networks & Policy and Charging Control			
RAN WG3 UTRAN/E-UTRAN/NG-RAN architecture and related network interfaces	SA WG3 Security and Privacy	CT WG4 Core Network Protocols			
RAN WG4 Radio Performance and Protocol Aspects	SA WG4 Multimedia Codecs, Systems and Services	CT WG6 Smart Card Application Aspects			
RAN WG5 Mobile Terminal Conformance Testing	SA WG5 Management, Orchestration and Charging				
	SA WG6 Application Enablement and Critical Communication Applications				
RAN AH1 RAN ad hoc group on ITU-R					

Ongoing Release timelines

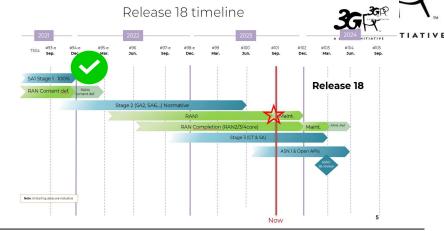


Release 18 timeline

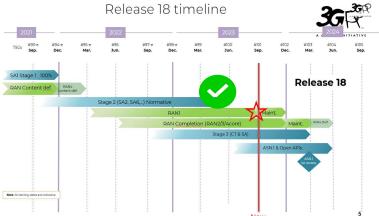


Release 18 Progress: Stages 1 & 2

- Stage 1 and content definition:
 - Completed since TSG#94
 - In total, 25 normative items plus 14 studies.

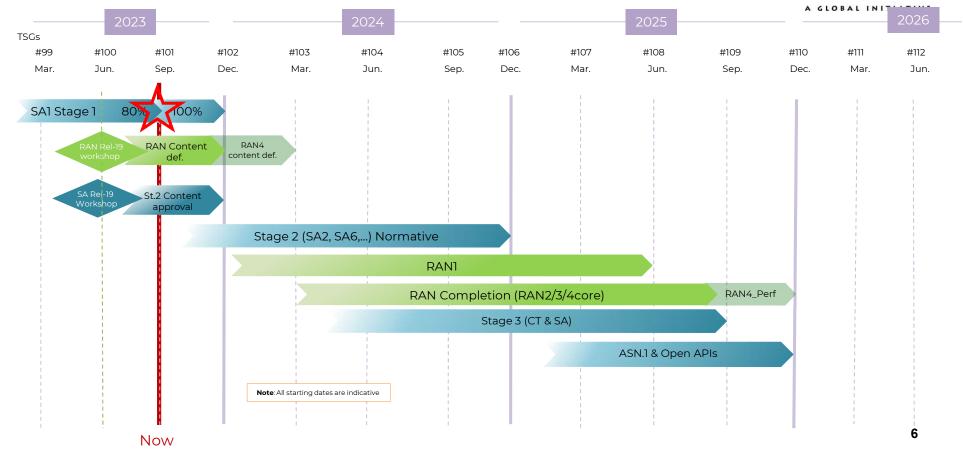


- Stage 2 at SA2 and SA6:
 - Stage 2 (at SA2 and SA6) studies:
 - In total, 43 studies
 - Completed since TSG#99
 - except for EDGEAPP_EXT (UID 960011, SA6, now 65%, targeted for Dec.)
 - Stage 2 (at SA2 and SA6) normative progress :
 - In total, 57 tasks
 - Completed since TSG#100, including XRM (SA2, was 98% at TSG#100, now 100%)



Release 19 timeline

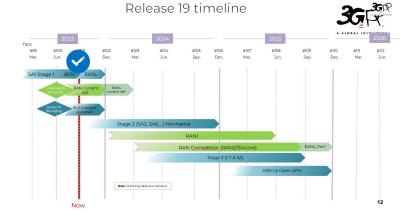




Release 19 progress overview



- Stage 1 (SA1):
 - Studies :
 - 14 studies same as at previous TSG
 - OCI (St.1 Studies from SA1) = 94 % (against 80% at previous TSG).
 - Normative :
 - 23 tasks, including "miniWIDs"
 - OCI (St.1 Normative from SA1) = 92 %

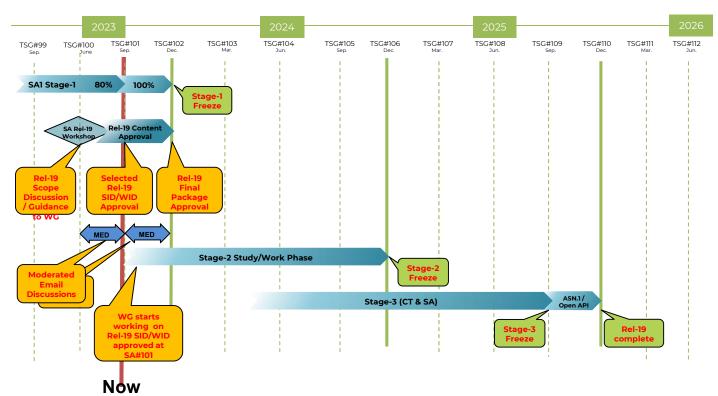


Stage 2 & 3:

- Studies :
 - 4 studies one more than at previous TSG: 1 from SA4, 3 from SA6
 - OCI = 15 %
- Normative :
 - 8 tasks
 - OCI = 3 %

Source: SP-230720 A GLOBAL INITIATIVE

Rel-19 Content Definition Process (From SA#100)



SA2 Rel-19 candidate topics (from SA#100)

S.No.	Rel-19 Core Topics	Rel-19 Miscellaneous Topics	
1	Satellite Architecture Enhancements	SBA framework enhancement / 5GS enhancement for Cloud Native Deployment	
2	XRM Enhancements and Metaverse	Network Slicing	
3	AI/ML Enhancements	5G SA Roaming services and Intermediaries (GSMA 5MRR request)	
4	Multi-access (Dual 3GPP + ATSSS Enh)	Traffic Management (Monitoring + + QUIC)	
5	Integrated Sensing and Communication	Enhancements in handling of Radio Capabilities	
6	Ambient IoT	5GC enhancements for IP routing	
7	Energy Efficiency / Energy Saving as a Service	Enhancing Emergency Services when Zero CS network coverage	
8	IMS and NG_RTC enhancements	NPN enhancements	
9	Edge Computing Enhancements	Ranging Phase 2	
10	Proximity Services enhancements	LCS enhancements	
11	TSC/URLLC/TRS enhancements	Mobile VPN	
12	Network Sharing	Architecture Enhancements for Energy Utilities	
13	User identities + identification of device behind RG/AP	eUEPO (UE Policy) Enhancements	
14	5G Femto	Interworking of Non-3GPP Digital Terrestrial Broadcast Networks with 5GS Multicast Broadcast Services	
15	UAS enhancements	RVAS (Roaming Value-Added Services)	
16	VMR Enhancements		
17	UPEAS Enhancements		

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Source: SP-230759

SA1 Release 19 normative WIDs so far



excluding miniWIDs

Unique_ID	Name	Acronym	%Complet e	Hyperlink
1000026	Integrated Sensing and Communication	Sensing	80%	SP-230750
1010024	Ambient power-enabled Internet of Things	AmbientloT	80%	SP-231016
1000028	Mobile Metaverse Services	Metaverse	80%	SP-230509
1000029	Indirect Network Sharing	NetShare	100%	SP-230511
1000031	FRMCS Phase 5	FRMCS_Ph5	50%	SP-230512
1000030	AI/ML Model Transfer Phase 2	AIML_MT_Ph2	80%	SP-230514
1000024	Satellite access Phase 3	5GSAT_Ph3	95%	SP-230516
1000032	Uncrewed Aerial System Phase 3	UAS_Ph3	95%	SP-230518
1010008	Application Architecture for UAS applications Phase 3	UASAPP_Ph3	0%	SP-230991
1010023	Upper layer traffic steering, switching and splitting over dual 3GPP access	DualSteer	80%	SP-231032
1000033	Energy Efficiency as Service Criteria	EnergyServ	75%	SP-230520
990051	Roaming Value-Added Services	RVAS	100%	SP-230231

SA2 Release 19 normative WIDs so far



Name	Acronym	%Complete	Hyperlink
Study on Architecture enhancement for XRM Ph2	FS_XRM Ph2	0%	SP-231198
Feasibility Study on 5GS Enhancement for Energy Efficiency and Energy Saving	FS_CNEES	0%	SP-231192
Study on Integration of satellite components in the 5G architecture Phase III	FS_5GSAT_ARCH_Ph3	0%	SP-231199
Study on system architecture for next generation real time communication services phase 2	FS_NG_RTC_Ph2	0%	SP-231196
Study on MPS for IMS Messaging and SMS services	FS_MPS4msg	0%	SP-231197



SA6 Rel-19 Work/Study Items

UID	Name	Acronym	Target (dd/mm/yyyy)	Old %	WID	New %
1000035	Study on enhanced application layer support for location services	FS_eLSAPP	Jun-2024	NA	<u>SP-230778</u>	15%
1000034	Study on Service aspects for supporting the eMMTel service	FS_eMMTelAPP	Sep-2024	NA	<u>SP-230779</u>	10%
1000039	enhMC – Enhanced Mission Critical Architecture for Rel-19	enhMC	Dec-2024	NA	<u>SP-230695</u>	5%
1000036	MCShAC – Sharing of administrative configuration between interconnected MC service systems	MCShAC	Dec-2024	NA	<u>SP-230692</u>	5%
1000038	FRMCS_Ph5 – Railways specific Enhancements to Mission Critical Services	FRMCS_Ph5	Dec-2024	NA	<u>SP-230780</u>	10%
1000037	5GMARCH_Ph3 – Application Architecture for MSGin5G Service Phase 3	5GMARCH_Ph3	Sep-2024	NA	<u>SP-230781</u>	0%
960011	Edge Application Standards in 3GPP and alignment with External Organizations	EDGEAPP_EXT	Jun-2023	50%	<u>SP-220990</u>	65%