TSG SA priorities *

SA2 led - System Architecture and Services

- XR (Extended Reality) & media services
- Edge Computing Phase 2
- System Support for AI/ML-based Services
- Enablers for Network Automation for 5G Phase 3
- Enh. support of Non-Public Networks Phase 2
- Network Slicing Phase 3
- 5GC LoCation Services Phase 3
- 5G multicast-broadcast services Phase 2
- Satellite access Phase 2
- 5G System with Satellite Backhaul
- 5G Timing Resiliency and TSC & URLLC enh.
- Evolution of IMS multimedia telephony service
- Personal IoT Networks
- Vehicle Mounted Relays
- Access Traffic Steering, Switching & Splitting support in the 5G system architecture Phase 3
- Proximity-based Services in 5GS Phase 2
- UPF enh. for Exposure & SBA
- Ranging based services & sidelink positioning
- Generic group management, exposure & communication enh.
- 5G UE Policy Phase 2
- UAS, UAV & UAM Phase 2
- 5G AM Policy Phase 2
- RedCap Phase 2
- Support for 5WWC Phase 2
- System Enabler for Service Function Chaining
- Extensions to TSC Framework to support DetNet
- Seamless UE context recovery
- MPS when access to EPC/5GC is WLAN

SA3 led - Security and Privacy

- Privacy of identifiers over radio access
- SECAM and SCAS for 3GPP virtualized network products and Management Function (MnF)
- Mission critical security enhancements Phase 3
- Security and privacy aspects of RAN & SA features

SA4 led - Multimedia Codecs, Systems and Services

Systems & Media Architecture:
- 5G Media, Service Enablers
- Split-Rendering
- 5G AR Experiences Architecture

Media:
- Video codec for 5G
- Media Capabilities for Augmented Reality Glasses
- AI / ML Study

Real-Time Communications:
- XR conversational services
- WebRTC-based services and collaboration models

Immersive Voice & Audio:
- EVS Codec Extension for Immersive Voice and Audio Services (IVAS_Codec)
- Terminal Audio quality performance and Test methods for Immersive Audio Services (ATIAS)

Streaming & Broadcast services:
- 5GMS Enh. (Network slicing, Low latency, Background traffic, 5GMS Uplink)
- Further MBS Enh. (Free to air, Hybrid unicast/broadcast)

SA5 led - Management, Orchestration and Charging

Operations, Administration, Maintenance and Provisioning (OAM&P):
- Intelligence and Automation: Self-Configuration of RAN NEs, Enh. autonomous network levels, Evaluation of autonomous network levels, Enh. intent driven management services for mobile networks, AI/ ML management, Enh. of the management aspects related to NWDAF
- Management Architecture and Mechanisms: Network slicing provisioning rules, Enh. service based management architecture
- Support of New Services: Enh. Energy Efficiency for 5G Phase 2, New aspects of Energy Efficiency for 5G networks Phase 2, Enh. management of Non-Public Networks, Network and Service Operations for Energy Utilities, Key Quality Indicators(KQIs)for 5G service experience, Deterministic Communication Service Assurance

Charging:
- Charging Aspects for Enh. Support of Non-Public Networks

SA6 led - Application Enablement & Critical Communication Applications

Critical Communications:
- MCX Enhancements – MC over 5GS (5MBS, ProSe) Adhoc group comm., MCPTT Enh.
- Railways - Gateway UE, Interworking

Service Frameworks:
- Edge App Architecture Enh., SEAL Enh., Subscriber-Aware API (CAPIF Enh.)
- Fused location, Application Data Analytics, App Layer NW Slicing

Enablers for Vertical Applications:
- Enhancements to V2X, UAS application-enablement
- Future Factories, Personal IoT networks, Capability exposure for IoT platforms

*These are preliminary lists (As at SA#94-e)

See the 3GPP Work Plan for full details, as Release 18 develops:
www.3gpp.org/specifications/work-plan

TSG RAN priorities

RAN1 led - Radio Layer 1 (Physical layer)

- MIMO Evolution for Downlink and Uplink
- Study on Artificial Intelligence (AI)/Machine Learning (ML) for NR Air Interface
- Study on Evolution of NR Duplex Operation
- NR sidelink evolution
- Study on expanded and improved NR positioning
- Study on further NR RedCap UE complexity/cost reduction
- Study on network energy savings
- Further NR coverage enhancements
- Study on NR Network-Controlled Repeaters
- Enh. of NR Dynamic spectrum sharing (DSS)
- Study on low-power Wake-up Signal and
- Receiver for NR
- Multi-carrier enhancements for NR

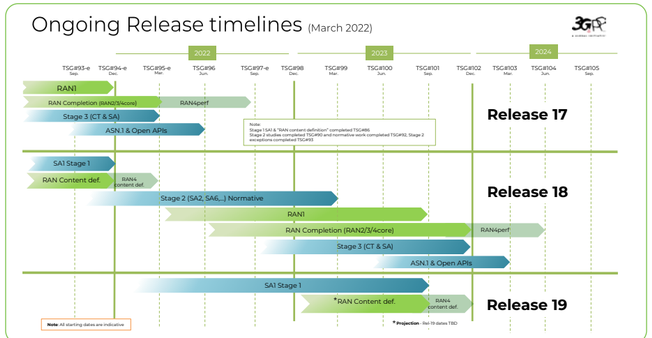
RAN2 led - Radio layer 2 & layer 3 Radio Resource Control

- NR Mobility Enh.
- Study on XR Enh. for NR
- NR sidelink relay enh.
- NR NTN (Non-Terrestrial Networks) enh.
- IoT NTN enh.
- NR Support for UAV
- Dual Tx/Rx MUSIM
- In-Device Co-existence (IDC) enh. for NR and MR-DC
- Mobile Terminated-Small Data Transmission (MT-SDT) for NR
- Enh. of NR Multicast and Broadcast Services

RAN3 led - UTRAN/E-UTRAN/NG-RAN architecture & related network interfaces

- Mobile IAB
- Artificial Intelligence (AI)/Machine Learning (ML) for NG-RAN
- Further enh. of data collection for SON (Self-Organising Networks)/MDT (Minimization of Drive Tests) in NR and EN-DC
- Enh. on NR QoE management and optimizations for diverse services
- Study on enh. for resiliency of gNB-CU

Ongoing Release timelines (March 2022)



Release 18

RAN4 led - Radio Performance and Protocol Aspects*

- Further RF requirements enh.for NR frequency range 1 (FR1)
- NR RF requirements enh. for frequency range 2 (FR2), Phase 3
- Req. for NR frequency range 2 (FR2) multi-Rx chain DL reception
- RRM enh. for NR and MR-DC
- Enh.on NR and MR-DC Measurement Gaps and Measurements without Gaps
- NR demodulation performance evolution
- Study on simplification of band combination specification
- Study on enh. for 700/800/900MHz band combinations
- NR BS RF requirement evolution
- Study on NR frequency range 2 (FR2) Over-the-Air (OTA) testing enh.
- Support of intra-band non-collocated EN-DC/NR-CA deployment
- Enh. NR support for high speed train scenario in frequency range 2 (FR2)
- BS/UE EMC enh.
- Air-to-ground network for NR
- NR support for dedicated spectrum less than 5MHz for FR1

*There are other approved items related to Rel-17 continuation; more spectrum-related items are expected to be approved later.

TSG CT priorities

Rel-18 Workplan for TSG CT

CT will work on stage 3 completion and ASN.1 code and OpenAPI freeze of Rel-17 until June 2022 (TSG#96).

Work Item discussion on Rel-18 stage 2 / stage 3 (under CT) from June 2022.

CT waits for a stable output of the stage 2 work in SA and RAN before initiating the work on Rel-18 (expected TSG#99 March 2023). Completion of stage 3 is targeted for TSG#103 March 2024.