

3GPP Organization MindMap Workflow

- Stage-1 (TSG SA, TSG RAN, TSG CT): Defines the Requirements (What).**
- Technical Reports (TR 2x.8xx): Study the Feasibility and Architecture options (The Background).**
- Technical Specification (S 23, 24, 29, 38, etc): Define the Detailed Specifications (The Implementation Rules)**

3GPP Organization

TSG SA (Service and System Aspects): TS/TR 21,22,23,33
Working Groups: SA1 (Requirements), SA2 (Architecture), SA3 (Security)
Overall system requirements, architecture design, and security principles. Defines the *what* (Stage 1) and how (Stage 2) of the network.

TSG RAN (Radio Access Network): TS/TR 36,38,25,04
Working Groups: RAN1 (PHY), RAN2 (RRC/L2), RAN3 (RAN Architecture), RAN4 (RF Tests)
All aspects of the radio interface (NR/LTE/UMTS). Defines Layer 1,2,3 protocols, RAN architecture, and RF performance.

TSG CT (Core Network and Terminals): TS/TR 24, 29
Working Groups: CT1 (NAS), CT3 (CN Protocols), CT4 (CN Interfaces), CT5 (SIM/USIM)
Detailed Core Network interfaces and protocols (Stage 3 implementation), including UE NAS signaling.

Technical Reports (TR): Research Background

Service & Requirement Studies TR 22.XXXX

TR 22.891
Requirement and use cases for 5G era (massive IoT & enhanced Mobile Broadband (eMBB))

TR 22.953
LTE & 5G service requirements for new applications.

System Architecture Studies TR 23.XXXX

TR 23.799: AI/ML in 5G Advanced
Defines how AI & ML will be used to optimize network functions and radio access.

TR 23.700: Feasibility for new 5G features
Defines system level impacts of new concepts like NTN or enhanced Edge Computing.

RAN Feasibility Studies TR 38.XXXX

TR 38.913: Feasibility study for 5G NR
Technical basis for 5G NR, including key features like flexible numerology and massive MIMO.

TR 38.800: Further RAN Evolution
Integrated Sensing & Communication (ISAC) and Advanced Duplex Operations.

Test & Measurement Studies

TR 38.800: NR RF Requirements
Studies the radio characteristics of NR at new frequency bands (FR1/FR2) to ensure real-world device and network compatibility.

TR 37.985: Common Test Procedures
Defines test methods and requirements for Multi-RAT scenarios (4G & 5G working together).

