

3GPP TSG#103 Joint Session March 20<sup>th</sup>, 2024 RP-240823 AI 6.1

## Additional Considerations for 6G Timeline

Source: TSG Chairs



1010







### Background: As Endorsed in TSG#102

#### <u>High-Level Considerations for 6G Timeline</u>

- First TSG-wide 6G workshop is expected to be in March 2025
  - Right before the planned Rel-19 RAN1 functional freeze (June 2025). Detailed information for the workshop is TBD
- Organization of a **3GPP Stage 1 workshop on IMT-2030 use cases** is being discussed separately
  - Refer to SP-231619
- Studies for 6G in 3GPP are expected to start from Release 20
  - Requirements studies:
    - SA1 SID is expected to be approved in Sept'2024.
    - RAN plenary SID (e.g., radio requirements and KPIs) is expected to be approved TBD (to be decided at RAN#103)
  - Technology studies:
    - **SA2 SID** is expected to be approved in **June'2025.** Other SA-WG SIDs (e.g., Security, etc.) are expected to be approved TBD
    - **RAN-WG SIDs** are expected to be approved in **June'2025**
    - CT-WG SIDs are expected to be approved in March'2026 (depends on SA2 SI work)
- MT-2030 submission and normative work for 6G in 3GPP are expected to start from Release 21
  - Release 21 is expected to produce the 1<sup>st</sup> set of 3GPP 6G technical specifications, and will be the release for IMT-2030 submission before 2030
  - **Release 21** is expected to be delivered with a **single drop** (i.e., a single code freeze)
- Target **TSG#103 (March'2024)** for the remaining detailed 6G timeline decisions

## Proposal: Additional Details for TSG-Wide 6G Workshop

- Note: TSG#102 endorsed the TSG-wide 6G workshop to be in March'2025
- **Proposal:** 
  - TSG-Wide 6G Workshop (WS): Monday Tuesday of the TSG#107 meeting week
    - Details TBD (e.g., whether to have a joint or separate workshop across TSGs, how to handle contributions, etc.)
  - TSG#107 plenary meetings are to be scheduled subsequently in the same week
    - RAN/SA: Wed (0900) Friday (1800)
    - CT: Wed (0900) Thursday (1200)

# Proposal: Additional Details for 3GPP RAN Plenary Study for 6G

#### **○** RAN

- RAN plenary work is split into an ITU focused SI (study item) and General RAN SI
  - IMT-2030 discussion is expected in RAN from 09/24 to 12/24
  - RP SI Rel-20 focusing on ITU— IMT-2030: approval 12/24 until 06/25
  - RP SI Rel-20 focusing on 6G General: approval 03/25 (after WS), until 06/26

## Proposal: Additional Details for Rel-20 1/2

- Proposal: in Rel-20
  - For 5G-Advanced: 18-month. Assuming no delay of Rel-19
    - Stage-1 freeze : Jun 2025
    - Stage-2 freeze : Jun 2026 (>=80%); Sep 2026 (100%)
    - Stage-3 freeze: Mar 2027
    - ASN.1/OpenAPI freeze: June 2027

## Proposal: Additional Details for Rel-20 2/2

- Proposal (Cont'd): in Rel-20
  - For 6G SI
    - SA WGs:
      - SA1 SI approval: TSG#105(Sept2024) endorsed at TSG#102
      - SA2 SI approval: TSG#108(Jun2025) endorsed at TSG#102
      - Other SA WG (SA3, SA4, SA5, SA6) SI approval: TBD at future TSG meeting
      - SA1/SA2 6G SI may continue beyond Stage-1/Stage-2 freeze dates for 5G-Advanced
      - 6G SI (this may use time from Rel-21)
        - » SA1 6G SI completion: Mar 2026
        - » SA2 6G SI completion: Dec. 2026 or Mar 2027 (To be confirmed at future TSG meeting)
    - RAN WGs: 21 months
      - RAN1 starts in 3Q/25 until 1Q/27; RAN2/3/4 start in 4Q/25 until 2Q/27
    - CT WGs: at least 9 months
      - CT WG 6G SI will start 9 months after approval of SA2 SI.

## Proposal: Additional Details for Rel-21

#### **Proposal:**

- Rel-21 timeline is to be decided no later than June 2026
  - However, ASN.1/OpenAPI freeze date is no earlier than March 2029