

**3GPP TSG SA/CT/RAN meeting #103**  
**Maastricht, Netherlands, March 18-21, 2024**

**SP-240137 / CP-240154 / RP-240071**

# **View on IMT-2030 submission timeplan**

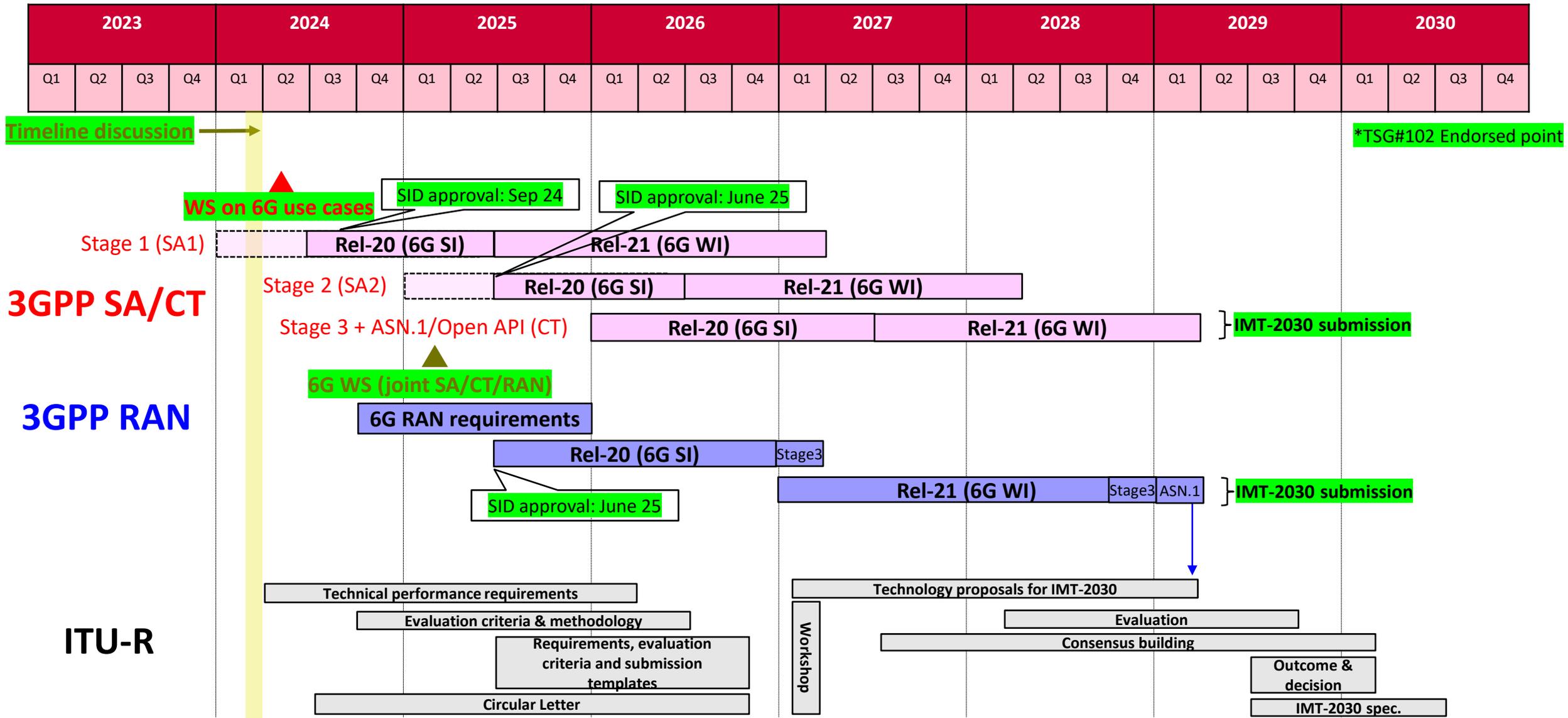
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- RP-233985 - **Endorsed**

## High-Level Considerations for 6G Timeline

- 📶 **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 TBD
- 📶 **IMT-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

# DOCOMO proposed timeline



## ■ Rel-21 completion

- **March 2029 for ASN.1 freeze, aligned among SA/CT/RAN**
  - Reasonable timing for enough study/work duration (18 + 21 months)
  - SA/CT: 9 months b/w stage 2 and stage 3 completions, followed by 3 months for ASN.1 freeze**→ SA2 completion on schedule is quite important**

## ■ Agenda of TSG-wide 6G workshop

- **Useful to discuss/decide cross-TSG aspects**, such as
  - Which 6G use cases are supported by (enhanced) 5G NR, and which ones are supported by 6G RAT?
  - Which 6G use cases identified in SA1 Rel-20 SI(s) should be prioritized for SA2 Rel-20 SI(s)?
  - Whether 6G CN architecture is (enhanced) 5GC or brand-new 6GC, and when to decide?
  - What should be discussed for tight TSG coordination, such as 6G NW architecture, including RAN-CN interface?

## ■ RAN requirements SI

- Controversial in TSG#102: strange to be started before 6G workshop (unlike 5G), while requirements are necessary to start WG-level technical discussion

From 5G RAN Requirements SI (RP-160811, Dec'15 – Dec'16 for TR approval)

*This SI is to be completed in March 2017 (RAN #75), to match the ITU-R timeline of technical performance requirement (February 2017). RAN high-level requirements and high-level deployment scenarios need to be completed by March 2016 (RAN #71), to provide guidance to the technical work to be performed in RAN WGs. The TR is to be approved in RAN#73 when the bulk of the requirements is expected to be agreed. When the TR is approved it should be sent to ITU-R so that they can take into account for the discussion on IMT 2020 requirements definition. The SI can then remain open until March 2017 (RAN #75) in the background to further refine the requirements and make sure that they include the IMT 2020 requirements that will be defined by ITU-R by Feb 2017.*

- **DOCOMO proposal: Dec. 2024 – Dec. 2025 for TR approval**, considering followings
  - » 5 meetings for TR approval
  - » At least 2 meetings before WG-level technical discussion
  - » TR approval before the completion of the discussion on IMT-2030 at ITU-R
- Alternatively, two-phase approach can be considered
  - » 1st phase (Dec'24-): Focus on RAN high-level requirements and high-level deployment scenarios (similar to 5G study)
  - » 2nd phase (Sep'25-): High-level technical topics, such as
    - 5G-6G migration (including NW architecture)
    - 6G use case support via eNR vs 6G RAT
    - 6G day1 priority

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