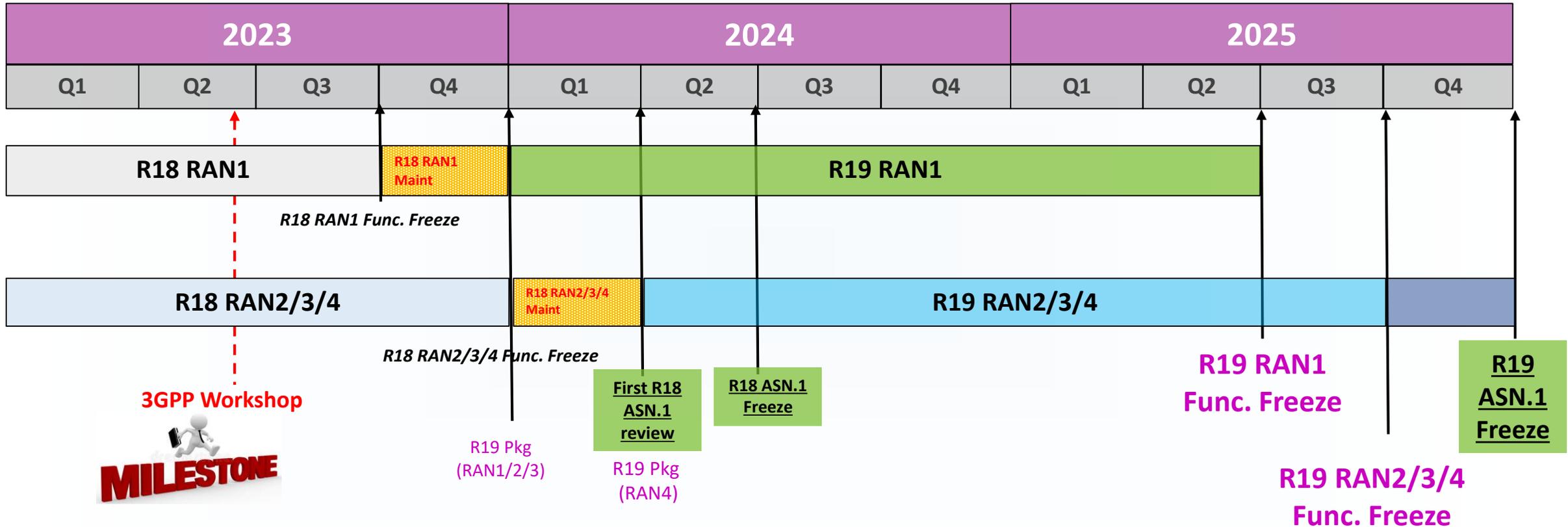


**3GPP TSG RAN Rel-19 workshop
Taipei, June 15 - June 16, 2023**

RWS-230075

Agenda Item: 4
Source: Spreadtrum Communications
Title: Overview on Rel-19
Document for: Discussion and decision

3GPP Rel-19 Timeline



Part 1: Continue enhancements on existing items

- UL SFN for UE Backup [1]
- MIMO enh. [2]
- MC enh. [3]
- LP-WUS [4]
- NTN/IoT NTN enh. [5]
- Positioning enh. [6]
- Mobility enh. [7]
- XR enh. [8]
- MultiSIM enh. [9]

.....

Part 2: New areas expansion Prepare for 6G

- AI/ML enabled air interface [10]
- AI/ML-based mobility [11]
- Ambient IoT [12]
- Duplex Evolution [13]
- Integrated Sensing and Communication [14]
- MC: MBSC, Dynamic Spectrum Sharing [3]

.....

R19: 5G-A evolution

Potential principle recommendation

- **Observation**

- Rel.19 is the second release for 5G-Advanced
- Performance and efficiency will lead 5G-Advanced to success
- Rel.19 will continue to expand vertical application

- **Recommendation**

- The total Rel.19 RAN1/2/3 package should be equal or smaller than that of Rel.18.
- One new priority evaluation scheme should be fairly set up to form final Rel.19 RAN1/2/3 package.
 - Different dimensions requirement should jointly be considered with a clear scoring system.
 - E.g. Operators should have highest score rights in terms of market requirement.
 - E.g. Chipset vendor should have highest score rights in terms of complexity and implementation applicable.
 -
- Rel.19 should leave some capacity for future study, which will be beneficial on smooth transition to 6G.

References: Selected Rel-19 topics from Spreadtrum



1. RWS-230327, UL SFN for UE Backup in Rel-19, Spreadtrum Communications, CEPRI, China Southern Power Grid, China Telecom, CAICT, RAN Rel-19 Workshop
2. RWS-230076, Views on Rel-19 MIMO enhancement, Spreadtrum Communications, RAN Rel-19 Workshop
3. RWS-230077, Overview on Rel-19 Multi-Carrier enhancement, Spreadtrum Communications, RAN Rel-19 Workshop
4. RWS-230078, LP-WUS in Rel-19, Spreadtrum Communications, RAN Rel-19 Workshop
5. RWS-230079, NTN/IoT-NTN enhancements for Rel-19 , Spreadtrum Communications, RAN Rel-19 Workshop
6. RWS-230080, Positioning enhancements for Rel-19 , Spreadtrum Communications, RAN Rel-19 Workshop
7. RWS-230081, Mobility enhancements for Rel-19 , Spreadtrum Communications, RAN Rel-19 Workshop
8. RWS-230082, XR enhancements for Rel-19 , Spreadtrum Communications, RAN Rel-19 Workshop
9. RWS-230083, Multi-SIM enhancements for Rel-19 , Spreadtrum Communications, RAN Rel-19 Workshop
10. RWS-230084, AI/ML for Air interface in Rel-19 , Spreadtrum Communications, RAN Rel-19 Workshop
11. RWS-230085, AI/ML-based mobility in Rel-19 , Spreadtrum Communications, RAN Rel-19 Workshop
12. RWS-230086, Duplex evolution in Rel-19 , Spreadtrum Communications, RAN Rel-19 Workshop
13. RWS-230087, Ambient IoT considerations in Rel-19 , Spreadtrum Communications, RAN Rel-19 Workshop
14. RWS-230088, Views on Integrated Sensing and Communication in Rel-19 , Spreadtrum Communications, RAN Rel-19 Workshop

Thanks

