

# Views on Rel-16 and Rel-17 schedules



# Workplan adjusted at RAN#87e due to e-meetings

	Release 16	Release 17
Stage-1 freeze	December 2018	December 2019
Stage-2 freeze	June 2019	December 2020 (+ 3 months)
Stage-3 freeze (RAN1)	December 2019	June 2021 (+ 3 months)
Stage-3 freeze (RAN2/3/4)	June/July 2020 (+ 3 months)	September 2021 (+ 3 months)
ASN.1 and OpenAPI freeze	June/July 2020 (unchanged)	December 2021 (+ 3 months)
Performance Part	December 2020 (+ 3 months)	June 2022 (+ 3 months)

# Status of Rel-16

- **Rel-16**

- Some Rel-16 work items require a 3-month exception for stage-3
  - RAN2 exception: FR1 enhancements (Tx switching, RAN4-led WI)
  - RAN3 exception: NR positioning (no critical issue but ASN.1 incomplete)
  - RAN4 exceptions:
    - NR MIMO, NR positioning, NR-U, IAB, MR-DC/eDCCA, (NR-V: remaining issues in TEI-16)
    - FR1 enh, FR2 enh, RRM enh, CSI-RS L3
- Rel-16 ASN.1 can be “frozen” at RAN#88e but:
  - Rel-16 CRs impacting ASN.1 may be needed e.g. for WI with exceptions or missing UE capabilities
  - Stable structure of UE capabilities needed in September 2020
  - ASN.1 non-backward compatible CR should NOT be allowed after Sept 2020

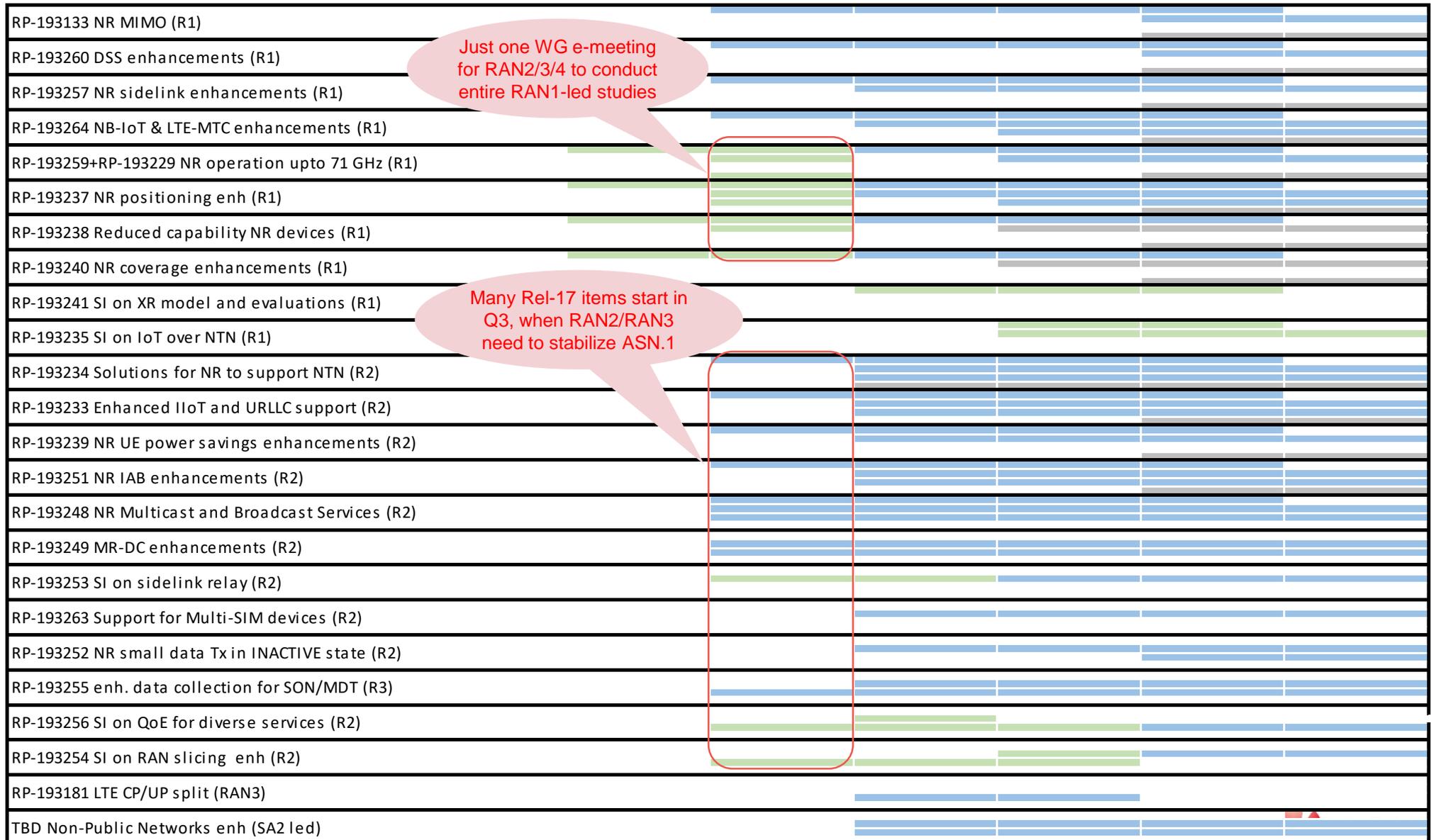
# Status of Rel-17

- **Rel-17**

- All 2020 meetings will be electronic with just 1 e-meeting per WG in Q3 and Q4
  - *Assume F2F ad-hoc meetings for all WGs in 2021/Q1*
- 2020/Q3: start all RAN1/2/3 study/work items according to RAN#87e shifted schedule
  - *Extend the completion time of RAN1-led studies by one quarter until December 2020 (see next slides)*
    - ✓ REDCAP, coverage enhancements, positioning enhancements, NR extension to 71 GHz
  - *Ensure sufficient discussion time for new topics in RAN2/RAN3*
    - ✓ REDCAP, MBS, sidelink relay
  - *No need for earlier start of work/study items scheduled to start in Q4*
- Proposal: wait until December 2020 to decide whether/how much to shift Rel-17
  - *Assess the efficiency of a RAN WG e-meeting compared to a F2F meeting for Rel-17 items*

# RAN R17 WI/SI Current schedule

2020				2021				
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
	Rel-16 stage-3 and ASN.1 freeze			TBCone ad-hoc meeting per WG		Rel-17 RAN1 freeze	Rel-17 freeze (RAN#93)	Rel-17 ASN.1



Just one WG e-meeting for RAN2/3/4 to conduct entire RAN1-led studies

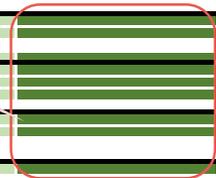
Many Rel-17 items start in Q3, when RAN2/RAN3 need to stabilize ASN.1

# RAN R17 WI/SI Adjusted schedule

2020				2021			
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
	Rel-16 stage-3 and ASN.1 freeze			TBC 1 ad-hoc meeting per WG	Rel-17 RAN1 freeze	Rel-17 freeze (RAN#93)	Rel-17 ASN.1

RP-193133 NR MIMO (R1)								R1
RP-193260 DSS enhancements (R1)								R2
RP-193257 NR sidelink enhancements (R1)								R3
RP-193264 NB-IoT & LTE-MTC enhancements (R1)								R4
RP-193259+RP-193229 NR operation up to 71 GHz (R1)								
RP-193237 NR positioning enh (R1)								
RP-193238 Reduced capability NR devices (R1)								
RP-193240 NR coverage enhancements (R1)								
RP-193241 SI on XR model and evaluations (R1)								
RP-193235 SI on IoT over NTN (R1)								
RP-193234 Solutions for NR to support NTN (R2)								
RP-193233 Enhanced IIoT and URLLC support (R2)								
RP-193239 NR UE power savings enhancements (R2)								
RP-193251 NR IAB enhancements (R2)								
RP-193248 NR Multicast and Broadcast Services (R2)								
RP-193249 MR-DC enhancements (R2)								
RP-193253 SI on sidelink relay (R2)								
RP-193263 Support for Multi-SIM devices (R2)								
RP-193252 NR small data Tx in INACTIVE state (R2)								
RP-193255 enh. data collection for SON/MDT (R3)								
RP-193256 SI on QoE for diverse services (R2)								
RP-193254 SI on RAN slicing enh (R2)								
RP-193181 LTE CP/UP split (RAN3)								
TBD Non-Public Networks enh (SA2 led)								

Proposal: extend RAN1 studies by 1 quarter



# Proposed adjustment at RAN#88e

	Release 16	Release 17
Stage-1 freeze	December 2018	December 2019
Stage-2 freeze	June 2019	December 2020
Stage-3 freeze (RAN1)	December 2019	June 2021
Stage-3 freeze (RAN2/3/4)	July 2020	September 2021
ASN.1 freeze	July 2020	December 2021
RAN4 Performance Part	December 2020 (March 2021 may be needed for some work items)	June 2022

## Rel-17:

- Extend RAN1 studies until Dec 2020
- Next checkpoint on schedule in Dec 2020

Thank you.

