

Scope and progress on Rel-17 RedCap

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Rel-17 RedCap: Current status (Overall)

- Target completion date for the Core Part of Rel-17 WI on RedCap is March 2022.
- For the Core Part, about **70~75%** of the work can be assessed as completed across RAN WGs.
- The target completion date for RAN1 was RAN1 #107-e.
- For RAN1, the basic framework for support of RedCap is in place, with an estimated **< 5%** work remaining **for core specs**.
 - Most of these relate to a few remaining details that can be addressed during Q1 of 2022 as part of RAN1 maintenance work for Rel-17 RedCap.

Rel-17 RedCap: Current status (RAN1)

- From the perspective of RAN1, the basic framework for support of RedCap UEs is in place.
- Few details remain to be sorted out; with the key ones including:
 - Remaining details/clarifications on configuration of initial DL/UL BWPs, e.g., related to center frequency alignment between DL and UL and presence of (CD/NCD-)SSB and/or CORESET#0 in some TDD scenarios, e.g.:
 - Center frequency alignment between CORESET#0 and initial UL BWP
 - BWP #0 configuration 1 when RedCap UE is provided with separate initial DL BWP
 - UE behavior when initial DL BWP for non-RedCap UEs is larger than max RedCap UE BW but separate initial DL BWP is not configured
 - Remaining details of resource determination for PUCCH w/ HARQ-ACK in response to Msg4/MsgB reception when FH is disabled for PUCCH.
 - Collision handling between SSB and Msg3 and PUCCH in response to Msg4/MsgB for HD-FDD UE.
 - **Note: Very limited to no impact expected from the above for ASN.1 implementations.**
- Proposal on Completion level (RAN1):
 - **~95%** completion in RAN1 (the ones identified above should be reflected in SR), with **some very** limited RRC impact expected for the remaining work.
 - Pending issues can be addressed at part of maintenance work, with most of the above expected to be addressed during 2022 Q1.

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