# Draft offline info for 2-step for eRedCap

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| * The only case when eRedCap UEs can do 2-step RA is on 2-step RA resources not associated with any feature combination. The UE uses this when there are no eRedCap 2-step RA resources.
* [AT126][763][eRedCap] 2-step RA for eRedCap (vivo)

Scope:* + - Produce agreeable CRs and LS if needed

      Intended outcome: * + - Agreed CRs in R2-2405843 and R2-2405844 (vivo)
		- Approvable LS in R2-2405845 if needed (vivo)

     Deadline: * + - Friday
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| ***FeatureCombination* field descriptions** |
| ***eRedCap***If present, this field indicates that eRedCap is part of this feature combination. The fields *redCap* and *eRedCap* shall not be both set to *true*. If the UE is an eRedCap UE and there is no set of configured RA resources with *eRedCap* set to *true* among all sets of configured RA resources, the UE considers *redCap* to be applicable for random access procedure. This field is not configured in a set of preambles that is configured with 2-step random-access type. |

**Case 1:**

* there is no RA set for eRedCap
* Set1: RedCap with 4-step RA

eRedCap could use this set1 for RedCap with 4-step RA

**Case 2:**

* there is no RA set for eRedCap
* Set 1: RedCap with 2-step RA only.

eRedCap could use RA set not associated with any feature, i.e. not to select this set1.

**Case 3:**

* there is no RA set for eRedCap
* Set 1: RedCap with 4-step RA + 2-step RA.

eRedCap could only use this set1 for RedCap with 4-step RA, but cannot use 2-step RA resource in this set, i.e. cannot perform 2-step RA in this set even RSRP for 2-step is higher than threshold. // QC vivo LG, HW (no strong view), Nokia, Ericsson

ZTE/Eswar: prefer to remove the fallback from eRedCap to RedCap for 4-step RA, or to support fallback from eRedCap to RedCap for 2-step RA as 4-step RA.

**WF: Figure out how to capture this in RRC.**

**Case 4: // e.g. in dedicated BWP**

* Set1: RA set for SDT with only 2-step RA type (not associated with RedCap and eRedCap, but only associated with SDT)
* Set2: RA set for eRedCap with 4-step RA
* Set3: RA set not associated with any feature

Priority: SDT > eRedCap

Option 1: eRedCap performing SDT RACH will select set 1. //QC LG Nokia ZTE/Eswar is fine to keep spec simple. Ericsson is fine with this considering the current spec. means this (it is a very strange configuration).

Option 2: eRedCap performing SDT RACH will select set 3. // HW, Xiaomi

current agreement means which one???

Chair-Mattias: current agreement may mean option 2, which may need spec change. But if following current MAC procedure, it is option 1. We can go with either one based on majority’s view. We could have slightly change on the agreement if all companies agree and the change is small.

**Case 5: // if option 1 is selected, there is no problem for this case.**

* There is no RA set for eRedCap
* Set1: SDT with 2-step RA type
* Set2: RedCap 4-step (or RedCap 4-step + 2-step)

If SDT>RedCap/eRedCap, eRedCap will select set 1

If SDT<RedCap/eRedCap, eRedCap will select set 2

**Offline WF:**

**Agree the 2nd change in MAC**

**For 1st change, figure out the RRC CR to match case 3 behavour and case 4 (Option 1)**

LG: we should not change the UE behaviour as what we want, i.e. option 2.

ZTE: we can further discuss to remove all fallback in future meeting.

**Others: during offline discussion some companies still prefer HW’s proposal 2**