# 1 Introduction

This document lists the RAN2 agreements related to paging carrier selection objective of Rel-17 WID for NB-IoT/eMTC enhancements and identified the subset of agreements applicable for 36/.304 running CR.

# 2 Agreements applicable for 36304 for paging carrier selection based on coverage level

The highlighted agreements (yellow) from the list of agreements are considered in the running CR for 36.304 for Rel-17 NB-IoT -eMTC enhancements.

RAN2#111-e agreements:

* Paging carrier selection Improvements based on CE level is considered
* Paging carrier selection Improvements based on DRX cycle may be considered
	+ - whether DRX cycle is considered as part of CE level (Rmax) or can be also considered separately
* Enhancements for NPRACH Carrier selection carrier may be considered
* Paging carrier selection Improvements solely based on WUS or GWUS is not considered
* FFS service based

RAN2#112-e agreements: None

RAN2#113-e agreements:

* Select between one of the options:
	+ - Option 1: UE selects a paging carrier based on a rule configured by the network
		- Option 2: NW configures a specific paging carrier
* Working assumption: For both options, when coverage changes, mechanism that requires UE to report the update of coverage is not introduced.

RAN2#113bis-e agreements: None

RAN2#114-e agreements:

* Rel-17 paging carriers and the legacy paging carriers should be exclusive.
* RAN2 assumes S1AP/NGAP update is not needed.
* Carrier selection criteria does not include power boosting or service
* FFS: For option 1, whether DRX can be part of the carrier selection criteria
* Rel-17 paging carrier configuration is provided in broadcast signalling.
* Select between the following sub-options:
	+ - Option 1c: Network enables UE to select a Rel-17 paging carrier by providing the coverage information (CEL/Rmax) for the carrier selection to the UE in dedicated signalling
		- Option 2a: NW indicates the carrier to use explicitly via dedicated signalling based on information determined within the NW.
		- FFS for both options whether there is a report from the UE to suggest a carrier or provide a metric report
* Working assumption: UE metric for determining carrier suitability and selection is based on measured NRSRP. FFS whether to use a hysteresis/longer averaging/timer
* For option 1, upon cell change, FFS:
	+ - Alt 1: based on previously determined CEL and broadcasted paging carrier configuration in the new cell.
		- Alt 2: UE needs to perform fallback mechanism.
* For option 2, upon cell change, UE needs to perform fallback mechanism.
* Whenever the R17 coverage-based carrier criteria is met, UE uses the R17 coverage based carrier, otherwise UE should use the fallback mechanism
* For both options, fall back carrier is legacy paging carrier based on UE\_ID

RAN2#115-e agreements:

* Support coverage or carrier specific DRX configurations, FFS details.
* UE capability for Rel-17 paging carrier selection should be introduced
* UE metric for determining carrier suitability and selection is based on NRSRP.
* Use a hysteresis/longer averaging/timer for UE metric based on NRSRP.
* FFS whether to introduce new UE report and/or whether to mandate support of existing Msg5 reporting.

RAN2#116-e agreements:

* DRX is not used a criterion that needs to be explicitly considered for paging carrier selection.
* Option 1c with Alt2 (fallback when cell change) is supported