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Extension of multi-node test study to Rel14 eLAA

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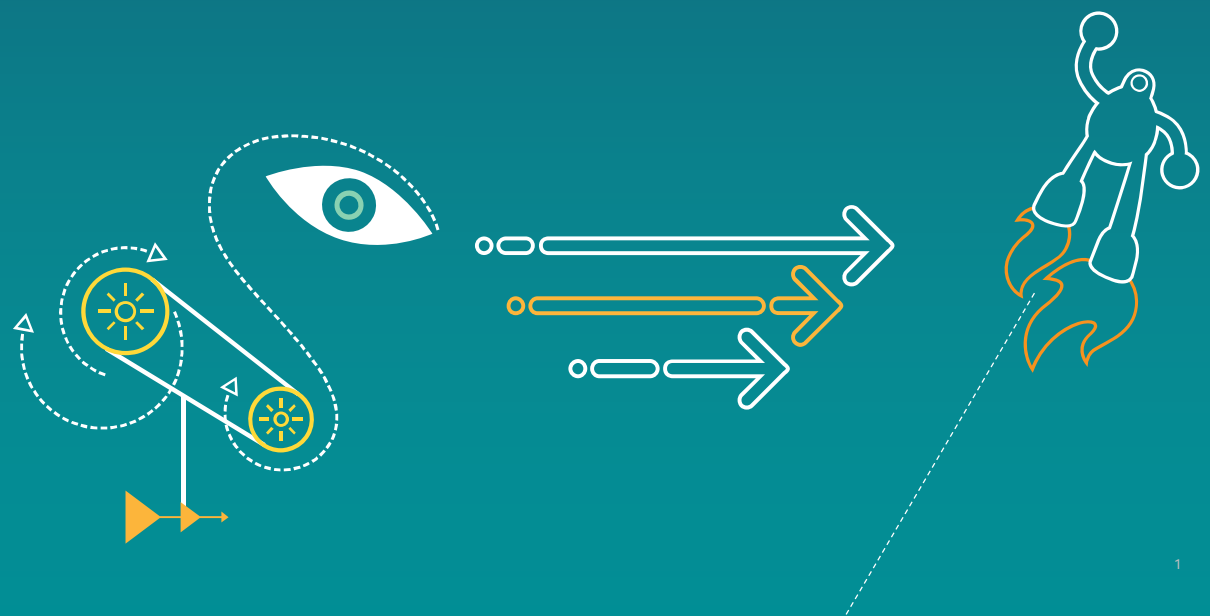

Background info

Rel13 Multi-node tests and TR 36.789

- Rel 13 multi-node study outcome was captured in TR 36.789
  - *The present document describes the multi-node tests for Rel-13 LAA BSs and other wireless systems operating in unlicensed spectrum. In particular, the report documents how to conduct multi-node tests involving two Rel-13 LAA BSs or one Rel-13 LAA BS and one other wireless system, e.g. IEEE 802.11 system to make sure that the two systems can coexist in the same unlicensed spectrum. This document aims to provide* ***an evaluation methodology for multi-node coexistence between Rel-13 LAA BSs and other wireless systems****.*
- TR 36.789 is a "**tool**" which can be used to evaluate how LAA and IEEE 802.11 coexist in 5GHz unlicensed spectrum
- As such, the multi-node study item did not imply any normative work
- Functional aspects of coexistence mechanism (e.g. LBT) are captured in Ran1 and Ran4 technical specifications for LAA/eLAA

Motivation

Extending multi-node study item to Rel14 LAA/eLAA

- TR 36.789 only captures Rel13 LAA
  - UL traffic is not considered
- It is natural to extend the study to Rel14 eLAA
  - This was already agreed in Rel-13 study objectives ("The tests shall be easily extended to include future systems such as eLAA in Rel-14")
  - Rel14 eLAA multi-node study will include both DL and UL traffic
- The goal of the study would be the same, e.g. to provide a tool/evaluation methodology which can be used to asses coexistence performance in 5GHz spectrum
  - A new TR can extend the scope of TR 36.789 including LAA/eLAA
  - RAN1/RAN4 technical specifications still capture core requirements and functional testing of coexistence mechanisms

Proposal

Extending multi-node study item to Rel14 LAA/eLAA

- To introduce a RAN4 study item for Rel14 eLAA multi-node testing
- The outcome of the study should be captured in a RAN4 technical report extending TR 36.789 (same TR could be adopted)

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