
1 Introduction

Agenda item(s): 9.8.1.7/9.8.1.8

Affected tdocs: RP-211495, RP-211496

This e-mail discussion tackles the following issues addressed by Huawei:

Issue 1: WA BS consideration: BS class text can be removed in both WIDs, or replaced by e.g. “To study applicable BS classes”.

Issue 2: Text of Note 1 on the interference to the existing networks to be aligned as captured in RMR900 WID in RP-211230.

2 Context

The objectives of the work items NR_RAIL_EU_900MHz and NR_RAIL_EU_1900MHz_TDD have been discussed during RAN4#98bis-e and RAN4#99. The tdocs RP-211495 and RP-211496 address the consolidated agreements of these discussions.

For issue 1 the requester of the work items narrowed the scope because in Europe rail track coverage is dominated by linear track coverage with an ISD approach between 3-8km. The existing site infrastructure resulting from GSM-R should be able to be reused as far as possible.

For issue 2 further clarifications are necessary what is missing in the alignment of Note 1 between RP-211495 and RP-211496.

RP-211495:

NOTE-1: The introduction of the 900 MHz band for use by Rail Mobile Radio is intended to ensure coexistence with adjacent spectrum ranges in Europe in compliance with the applicable regulations to avoid causing interference on already established networks.

RP-211496:

NOTE-1: The introduction of the 1900 MHz band for use by Rail Mobile Radio is intended to ensure coexistence with adjacent spectrum ranges in Europe in compliance with the applicable regulations, to avoid the effects of interference on already established networks.

3 Initial round

3.1 Sub-topic - RP-211404/RP-211405

Potentially, there are two options:

Option 1: Narrow the scope to wide area base stations only .

Option 2: Remove BS class considerations from the objectives.

Feedback Form 1:

1 – Nokia Germany

Whenever new band is defined in RAN4, requirements are specified for all BS classes (in some cases with power limitation restrictions, requirements for higher power classes were not defined). Since Wide Area BS class is considered for these items, it is not clear to us why other BS classes cannot be completed at the same time. There is no extra effort expected due to introduction of other BS classes.

3.2 Sub-topic - RP-211496

Align the text in RP-211496:

NOTE-1: The introduction of the 1900 MHz band for use by Rail Mobile Radio is intended to ensure coexistence with adjacent spectrum ranges in Europe in compliance with the applicable regulations, to avoid causing ~~the effects of~~ interference on already established networks.

Feedback Form 2:

3.3 Summary Initial Round

The e-mail thread encompasses the following documents RP-211404, RP-211405, RP 211495 and RP 211496.

UIC proposed a revision on RP-211496 which aligns text mentioned by Huawei with RP-211495.

Huawei proposed revisions on RP-211405 and RP-211406 and UIC provided comments and change proposal. There seems to be some misunderstandings regarding the tasks of RMR 900/1900 work items.

ECC Decision 20(02) requirements are applicable for an coordinated approach. Therefore deployment related subjects are to the infrastructure manager as well as to the national authority. There is no need to clarify this in 3GPP. This would affect as well mitigation measures.

WF:

1.) It is proposed to limit the open issue which are in the responsibility of RAN4 in the context with RP-211404 and RP-211405.

2.) It is proposed to agree on the provided changes for RP-211496.

4 Intermediate Round

4.1 Sub-topic 1 RP-211404/RP-211405

Provide comments on the proposed revisions in directory Listing
/ftp/tsg_ran/TSG_RAN/TSGR_92e/Inbox/Drafts/[92-e-36-flag-RMR-1900MHz-WI] (3gpp.org).

If necessary propose further updates. Please make use of the feedback form underneath.

Feedback Form 3:

1 – Nokia Germany

”Necessary mitigation measures” is not clear to us, we propose to remove it in the SR. UE conformance testing is not part of the RAN4 work so shall be removed as well.

2 – Ericsson LM

We are mostly fine with the updated. Agree with Nokia to remove: Necessary mitigation measures and limit last bullet to BS conformance test

- Necessary BS conformance testing requirements.

4.2 Sub-topic RP-211496

Provide comments on the proposed revisions in directory Listing
/ftp/tsg_ran/TSG_RAN/TSGR_92e/Inbox/Drafts/[92-e-36-flag-RMR-1900MHz-WI] (3gpp.org).

If necessary propose further updates. Please make use of the feedback form underneath.

Feedback Form 4:

1 – Ericsson LM

This revised version of the WID is fine for us. We agree to define requirements for all BS classes.

4.3 Intermediate summary

4.3.1 Sub-topic RP-211496

Proponents agree with the proposed changes in rev_RP-211496. The sub-topic is closed.

Note: RP-211495 remains unchanged.

RP-211496 will be revised to RP-211542.

4.3.2 Sub-topic RP-211404/RP-211405

1.) Proponents agree the proposed changes provided by Huawei and UIC.

2.) Further changes proposed by Nokia and Ericsson are also agreed and will be consolidated in the revisions of RP-211404 and RP-211405.

This sub-topic is therefore also closed.

RP-211404 will be revised to RP-211543.

RP-211405 will be revised to RP-211544.

5 Conclusion

Based on the intermediate summary, agreement has been reached which are consolidated in the corresponding revisions.