**3GPP TSG-RAN WG2 Meeting #109bis-e R2-2003907**

**Electronic, 20 – 30 April 2020**

**Agenda item: 6.18.2**

**Source: Nokia (Rapporteur)**

**Title: Offline discussion 105: PRN open issues - third round**

**WID/SID: NG\_RAN\_PRN-Core - Release 16**

**Document for: Discussion and Decision**

# 1 Introduction

This document is the report about the 3rd round of the following email discussion

**[AT109bis-e][105][PRN] Open issues (Nokia)**

Initial scope: Continue the discussion on PRN open issues, based on [R2-2002659](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2002659-Post109e-18-PRN-OpenIssues.docx)

Initial intended outcome: Set of proposals with full consensus agreeable via email, based on

the list in Section 4.1 of [R2-2002659](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2002659-Post109e-18-PRN-OpenIssues.docx) (final list to be reflected in [R2-2003895](file:///C%3A%5CData%5C3GPP%5CRAN2%5CInbox%5CR2-2003895.zip))

Initial intermediate deadline (for companies' feedback): Tuesday 2020-04-21 09:00 UTC

Updated scope:

  for open issue 8: discuss the possibility to introduce an indication in SIB1 to allow UEs to search other cells on the same frequency

  for open issue 9: discuss the possibility to signal PCI range(s) per PLMN per frequency vs just per frequency

  continue the discussion on open issues 11 and 16

Updated intended outcome: summary of the offline discussion with e.g.:

  Set of proposals with full consensus, if any (agreeable over email)

  Set of proposals to discuss in the follow up conference call

Second intermediate deadline (for companies' feedback): Friday 2020-04-24 06:00 UTC

Second intermediate deadline (for rapporteur's summary in [R2-2003896](file:///C%3A%5CData%5C3GPP%5CRAN2%5CInbox%5CR2-2003896.zip)):  Friday 2020-04-24 10:00 UTC

Final scope: discuss whether PCI ranges can be optionally broadcast by all cells (both public cells and private cells) and the PCI range validity time

Final intended outcome: summary of the offline discussion with e.g.:

  Set of proposals with full consensus, if any (agreeable over email)

  Set of proposals to postpone to after the meeting

Final deadline (for companies' feedback): Wednesday 2020-04-29 10:00 UTC

Final deadline (for rapporteur's summary in R2-2003907):  Wednesday 2020-04-29 16:00 UTC

Proposed agreements in R2-2003907 indicated for email agreement and not challenged until Thursday 2020-04-30 06:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue after the meeting.

# 2 Discussion

## 2.1 Broadcasting PCI ranges for CAGs by all cells

**Open issue description:** It is FFS whether any cells including PLMN cells that do not support CAG IDs can optionally broadcast the PCI ranges for CAG cells.

**Background:** During the RAN2#109bis online session the following was agreed

The PCI range(s) can be optionally signalled per PLMN and per frequency when the CAG cell is shared among different PLMNs

**Question 1a:** Do you agree that a PLMN cell that is not a shared cell and supports CAGs can optionally broadcast PCI ranges for CAGs per frequency as agreed for CAG cells that are shared among different PLMNs?

**Question 1b:** Do you agree that a PLMN cell that does not support CAGs can optionally broadcast PCI ranges for CAG cells per PLMN and per frequency as agreed for CAG cells that are shared among different PLMNs?

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| **Company** | **Q1a** | **Q1b** | **Comment** |
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**Summary:**

## 2.2 Validity time of PCI ranges for CAGs

**Open issue description:** The validity time for PCI ranges for CAGs are FFS.

**Background:**

During the RAN2#109bis online session the following was agreed

The PCI range(s) can be optionally signalled per PLMN and per frequency when the CAG cell is shared among different PLMNs

There was no conclusion on the validity time of the PCI ranges for CAGs. Proposal 2 of R2-2002745 is the following: “The PCI range is valid among the whole frequency within the same PLMN for 24 hours”. During the discussion some companies’ view was that the generally used 3-hour validity is enough.

**Question 2:** Which option do you prefer for the validity time for PCI ranges advertised for CAGs?

* **Option A:** 24 hours (as for CSG)
* **Option B:** 3 hours (as for other SIB parameters)

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| **Company** | **Preference** | **Comment** |
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**Summary:**

# 3 Conclusions