3GPP TSG-RAN WG2 Meeting #110 electronic draftR2-2005737

**Online, June 1 – June 12 2020**

Agenda Item: 8.7

Source: Session Chair (Huawei)

Title: [draft] Report NB-IoT breakout session

Document for: Approval

**General**

Recording of voice or video at meetings is not used in 3GPP. This applies also to this e-Meeting. At this e-Meeting, no specific actions are taken to prevent the recording of web conferences. Companies that have concerns related to recordings, if any, may express those by email in the main meeting organizational thread [AT110][000]

Please see the following Tdocs for e-meeting guidance:

R2-2004300 Agenda for RAN2#110 Chairman agenda

[R2-2004462](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004462.zip) RAN2 110 Methods and Guidance RAN2 chairman, RAN2 vice chairmen, session chairs discussion

**Time Schedule**Please refer to the latest schedule in the RAN2 inbox on the public 3GPP servers.

**Access Tools**

*HTTP Upload Tool:*

ETSI IT has created a facility in Inbox and Inbox/Drafts folders on the public 3GPP servers to allow delegates to upload their documents using a web browser (however Internet Explorer is not yet supported). Open your browser and navigate to your chosen folder – for example,

<https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110/Inbox>

Click the green button to log in using your EOL account. A panel will appear in the upper part of the screen and documents may be dragged and dropped onto this landing pad; this causes them to be uploaded to the folder.

*Secure FTP:*

Those e-delegates who prefer to use FTP-like access to our e-meeting Inbox & Draft folders but are concerned by their usernames and passwords being sent unencrypted over the internet, ETSI IT has fitted the server with FTPS (SSL) so delegates can connect from their favourite FTP client using the address: ftps.3gpp.org. Please enter your username and password when prompted.

**Organizational**

* Incoming LSs are noted by default. Contact companies should flag LSs that need to be replied from this meeting.
* Legacy topics will be treated by email only. Please see the list of offline email discussions below.
* Rel-16 (draft) CRs and text proposals will be handled as part of the email discussion on the corresponding CR(s) or the ASN.1 review email discussion if associated with a RIL#.
* All organizational emails and notes will be shared over the following email discussion throughout both meeting weeks:
* [AT110][300][NBIOT] Organisational (Session Chair)

 Status: Started

 Scope: Comments to session notes. Kick-off and management of email discussions for NB-IoT session. Coordination issues. Other organisational issues and announcements.

 Intended outcome: Approval of Report from NB-IoT session.

 Deadline: June 12 1000 UTC

**List and Status of Offline Email Discussions**

NOTE: The official kick off date for these email discussions is Monday, June 1st 0700 UTC. The rapporteurs can share them on the reflector earlier, however companies are not required to participate before the official kick off date. The deadlines refer to the deadline for providing company comments unless stated otherwise.

* [AT110-e][301][NBIOT] R16 36.331 CR (Huawei)

 Status: Not Started

 Scope: Update the CR with agreements from this meeting.

 Intended outcome: Agreed CR in R2-2005921

 Deadline: June 12 1000 UTC

* [AT110-e][302][NBIOT] R16 36.300 CR (Huawei)

 Status: Not Started

 Scope: Update the CR with agreements from this meeting.

 Intended outcome: Agreed CR in R2-2005922

 Deadline: June 12 1000 UTC

* [AT110-e][303][NBIOT] R16 36.304 CR (Nokia)

 Status: Not Started

 Scope: Update the CR with agreements from this meeting.

 Intended outcome: Agreed CR in R2-2005923

 Deadline: June 12 1000 UTC

* [AT110-e][304][NBIOT] R16 36.321 CR (Ericsson)

 Status: Not Started

 Scope: Update the CR with agreements from this meeting.

 Intended outcome: Agreed CR in R2-2005924

 Deadline: June 12 1000 UTC

* [AT110-e][305][NBIOT] R16 36.306 CR (Blackberry)

 Status: Not Started

 Scope: Update the CR with agreements from this meeting.

 Intended outcome: Agreed CR in R2-2005925

 Deadline: June 12 1000 UTC

* [AT110-e][306][NBIOT] R16 RAN1 features list and UE capabilities (Huawei)

 Status: Not Started.

 Scope: [R2-2005030](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005030.zip).

 Intended outcome: Report in R2-2005926

 Deadline: June 5 1000 UTC

* [AT110-e][307][NBIOT] R16 ASN.1 Review (Huawei)

 Status: Not Started.

 Scope: Remaining RIL issues (TBD).

 Intended outcome: Report in R2-2005927

 Deadline: June 5 1000 UTC

* [AT110-e][308][NBIOT] R14 Allow sending Rel-14 AS RAI when no UL grant (Mediatek)

 Status: Not Started

 Scope: [R2-2004812](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004812.zip), [R2-2004816](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004816.zip), [R2-2004828](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004828.zip)

 Intended outcome: Report in R2-2005928, CRs TBD.

 Deadline: June 5 1000 UTC

* [AT110-e][309][NBIOT] R15 Clarification on PHR report for power class 14dBm UE (Huawei)

 Status: Not Started

 Scope: [R2-2005026](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005026.zip), [R2-2005027](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005027.zip)

 Intended outcome: Report in R2-2005929, CRs TBD

 Deadline: June 5 1000 UTC

* [AT110-e][310][NBIOT] R15 Clarification for dedicated SR with HARQ-ACK (ZTE)

 Status: Not Started

 Scope: [R2-2005588](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005588.zip), [R2-2005590](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005590.zip)

 Intended outcome: Report in R2-2005930, CRs TBD

 Deadline: June 5 1000 UTC

## 4.1 NB-IoT corrections Rel-15 and earlier

Documents in this agenda item will be handled in a break out session. Common NB-IoT/eMTC parts treated jointly with 4.2. No web conference is planned for this agenda item

### 4.1.0 In-principle agreed CRs

[R2-2005025](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005025.zip) Clarification on RLC UM SN size for NB-IoT Huawei, HiSilicon CR Rel-15 36.322 15.3.0 0145 2 F NB\_IOTenh2-Core [R2-2004056](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2004056.zip)

* Agreed

### 4.1.1 Other

[R2-2004317](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004317.zip) Reply LS on assistance indication for WUS (S2-2003217; contact: Qualcomm) SA2 LS in Rel-15 NB\_IOTenh3-Core, LTE\_eMTC5-Core To:RAN3, RAN2 Cc:CT1

[R2-2005012](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005012.zip) Discussion on eNB knowledge of UE Radio paging capability when UE is in RRC\_CONNECTED mode Huawei, HiSilicon discussion Rel-15 NB\_IOTenh2-Core, LTE\_eMTC4-Core

[R2-2005013](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005013.zip) System support for Wake Up Signal Huawei, HiSilicon CR Rel-15 36.300 15.9.0 1264 1 F NB\_IOTenh2-Core, LTE\_eMTC4-Core R2-2000809

[R2-2005014](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005014.zip) System support for (Group) Wake Up Signal Huawei, HiSilicon draftCR Rel-16 36.300 16.1.0 NB\_IOTenh2-Core, LTE\_eMTC4-Core, NB\_IOTenh3-Core, LTE\_eMTC5-Core R2-2000810

[R2-2005015](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005015.zip) System support for Wake Up Signal Huawei, HiSilicon CR Rel-15 36.304 15.5.0 0795 - F NB\_IOTenh2-Core, LTE\_eMTC4-Core R2-2000608

[R2-2005016](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005016.zip) System support for Wake Up Signal Huawei, HiSilicon CR Rel-16 36.304 16.0.0 0796 - A NB\_IOTenh2-Core, LTE\_eMTC4-Core

[R2-2005017](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005017.zip) System support for Group Wake Up Signal Huawei, HiSilicon draftCR Rel-16 36.304 16.0.0 NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2005199](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005199.zip) [draft] Reply LS on assistance indication for WUS Qualcomm Incorporated LS out Rel-15 NB\_IOTenh2-Core, LTE\_eMTC4-Core To:SA2, RAN3 Cc:CT1

[R2-2005200](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005200.zip) Restrict WUS to last used cell Qualcomm Incorporated CR Rel-15 36.300 15.9.0 1282 - C NB\_IOTenh2-Core, LTE\_eMTC4-Core

[R2-2005201](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005201.zip) Restrict WUS to last used cell Qualcomm Incorporated CR Rel-16 36.300 16.1.0 1283 - A NB\_IOTenh2-Core, LTE\_eMTC4-Core

[R2-2005202](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005202.zip) Restrict WUS to last used cell Qualcomm Incorporated CR Rel-15 36.304 15.5.0 0798 - C NB\_IOTenh2-Core, LTE\_eMTC4-Core

[R2-2005203](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005203.zip) Restrict WUS to last used cell Qualcomm Incorporated CR Rel-16 36.304 16.0.0 0799 - A NB\_IOTenh2-Core, LTE\_eMTC4-Core

[R2-2004812](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004812.zip) Allow sending Rel-14 AS RAI when no UL grant MediaTek Inc. discussion Late

[R2-2004816](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004816.zip) Allow sending Rel-14 AS RAI when no UL grant MediaTek Inc. CR Rel-14 36.321 14.12.0 1475 - F NB\_IOTenh-Core Late

R2-2004819 Allow sending Rel-14 AS RAI when no UL grant MediaTek Inc. CR Rel-14 36.321 14.12.0 1476 - F NB\_IOTenh-Core Withdrawn

[R2-2004828](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004828.zip) Allow sending Rel-14 AS RAI when no UL grant MediaTek Inc. CR Rel-15 36.321 15.8.0 1477 - A NB\_IOTenh-Core Late

* [AT110-e][308][NBIOT] R14 Allow sending Rel-14 AS RAI when no UL grant (Mediatek)

 Status: Not Started

 Scope: [R2-2004812](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004812.zip), [R2-2004816](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004816.zip), [R2-2004828](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004828.zip)

 Intended outcome: Report in R2-2005928, CRs TBD.

 Deadline: June 5 1000 UTC

[R2-2005026](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005026.zip) Clarification on PHR report for power class 14dBm UE Huawei, HiSilicon CR Rel-15 36.321 15.8.0 1478 - F NB\_IOTenh2-Core

[R2-2005027](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005027.zip) Clarification on PHR report for power class 14dBm UE Huawei, HiSilicon CR Rel-16 36.321 16.0.0 1479 - A NB\_IOTenh2-Core

* [AT110-e][309][NBIOT] R15 Clarification on PHR report for power class 14dBm UE (Huawei)

 Status: Not Started

 Scope: [R2-2005026](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005026.zip), [R2-2005027](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005027.zip)

 Intended outcome: Report in R2-2005929, CRs TBD

 Deadline: June 5 1000 UTC

[R2-2005588](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005588.zip) Clarification for dedicated SR with HARQ-ACK ZTE Corporation, Sanechips, MediaTek Inc. CR Rel-15 36.321 15.8.0 1469 1 F NB\_IOTenh2-Core [R2-2003254](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003254.zip)

[R2-2005590](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005590.zip) Clarification for dedicated SR with HARQ-ACK ZTE Corporation, Sanechips, MediaTek Inc CR Rel-16 36.321 16.0.0 1483 - A NB\_IOTenh2-Core

* [AT110-e][310][NBIOT] R15 Clarification for dedicated SR with HARQ-ACK (ZTE)

 Status: Not Started

 Scope: [R2-2005588](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005588.zip), [R2-2005590](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005590.zip)

 Intended outcome: Report in R2-2005930, CRs TBD

 Deadline: June 5 1000 UTC

## 7.2 Additional enhancements for NB-IoT

(NB\_IOTenh3-Core; leading WG: RAN1; REL-16; started: Jun 18; target; June 20; WID: RP-200293; SR: RP-200440)

Time budget: 2.5 TU

Documents in this agenda item will be handled in a break out session

Some sub-items in 7.1 and 7.2 may be treated jointly.

### 7.2.1 Organisational

Including incoming LSs, draft TS, rapporteur inputs, etc

A web conference will be used for handling some of the discussions in this AI.

One CR per specification will be provided by the corresponding rapporteur. No individual company CRs are expected. Companies should provide TPs when needed.

[R2-2004322](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004322.zip) Reply LS on MO exception data (S2-2003504; contact: Qualcomm) SA2 LS in Rel-16 5G\_CIoT To:CT4 Cc:RAN2, CT1

* noted

[R2-2004342](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004342.zip) Reply LS on open PUR issues for NB-IoT/eMTC (R1-2002846; contact: Intel) RAN1 LS in Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core To:RAN2

* noted

[R2-2004345](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004345.zip) LS on PUR working assumption for NB-IoT and eMTC (R1-2002944; contact: Huawei) RAN1 LS in Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core To:RAN2

* noted

[R2-2004466](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004466.zip) RAN2 agreements for Rel-16 additional enhancements for NB-IoT and MTC Rapporteur (BlackBerry) other Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core

* noted

[R2-2004631](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004631.zip) Corrections to MAC for Rel-16 NB-IoT Ericsson CR Rel-16 36.321 16.0.0 1472 1 F NB\_IOTenh3-Core, LTE\_eMTC5-Core R2-2004043

* [AT110-e][304][NBIOT] R16 36.321 CR (Ericsson)

 Status: Not Started

 Scope: Update the CR with agreements from this meeting.

 Intended outcome: Agreed CR in R2-2005924

 Deadline: June 12 1000 UTC

[R2-2004930](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004930.zip) Introduction of Rel-16 NB-IoT enhancements Nokia CR Rel-16 36.304 16.0.0 0788 2 B NB\_IOTenh3-Core R2-2004042

* [AT110-e][303][NBIOT] R16 36.304 CR (Nokia)

 Status: Not Started

 Scope: Update the CR with agreements from this meeting.

 Intended outcome: Agreed CR in R2-2005923

 Deadline: June 12 1000 UTC

[R2-2005028](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005028.zip) Miscellaneous corrections to TS 36.300 for Rel-16 NB-IoT Huawei, HiSilicon CR Rel-16 36.300 16.1.0 1277 2 F NB\_IOTenh3-Core R2-2004039

* [AT110-e][302][NBIOT] R16 36.300 CR (Huawei)

 Status: Not Started

 Scope: Update the CR with agreements from this meeting.

 Intended outcome: Agreed CR in R2-2005922

 Deadline: June 12 1000 UTC

[R2-2005029](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005029.zip) Miscellaneous corrections to 36.331 for Rel-16 NB-IoT Huawei, HiSilicon CR Rel-16 36.331 16.0.0 4287 2 F NB\_IOTenh3-Core, LTE\_eMTC5-Core R2-2004040

* [AT110-e][301][NBIOT] R16 36.331 CR (Huawei)

 Status: Not Started

 Scope: Update the CR with agreements from this meeting.

 Intended outcome: Agreed CR in R2-2005921

 Deadline: June 12 1000 UTC

### 7.2.2 UE-group wake-up signal (WUS)

UE group wake Up signal for MTC and NB-IoT is treated jointly under this Agenda Item.

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting.

A web conference will be used for handling some of the discussions in this AI.

[R2-2006009](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2006009.zip) Summary of GWUS contributions Qualcomm discussion NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2005129](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005129.zip) Group WUS for mobile UE Lenovo, Motorola Mobility discussion Rel-16

[R2-2005146](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005146.zip) On supporting UE group WUS operation with mobility Sony, Ericsson discussion Rel-16 NB\_IOTenh3-Core [R2-2002671](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002671.zip)

[R2-2005204](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005204.zip) Group WUS corrections Qualcomm Incorporated discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2005278](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005278.zip) GWUS Resource location signalling for eMTC Nokia Solutions & Networks (I) discussion Rel-16 NB\_IOTenh3

[R2-2005624](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005624.zip) TP for 36.331 changes for GWUS Config Nokia Solutions & Networks (I) discussion Rel-16

### 7.2.3 Transmission in preconfigured resources

Transmission in preconfigured resources for MTC and NB-IoT is treated jointly under this Agenda Item.

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting.

A web conference will be used for handling some of the discussions in this AI.

[R2-2005726](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005726.zip) Summary for 7.2.3 Preconfigured uplink resources Ericsson discussion NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2004632](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004632.zip) [E906, E907] Remaining open issues in PUR Ericsson discussion NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2004633](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004633.zip) Draft LS reply on PUR open issues and working assumption Ericsson LS out NB\_IOTenh3-Core, LTE\_eMTC5-Core To:RAN1

[R2-2004817](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004817.zip) Remaining issue on NB-IoT Preconfigured resources ITL discussion Rel-16

[R2-2005019](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005019.zip) Discussion on start offset and requested TBS for PUR Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2005020](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005020.zip) RRC-MAC interactions for PUR Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2005021](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005021.zip) Discussion on RAN1 LSs for PUR Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2005022](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005022.zip) [Draft] Reply LS on PUR working assumption for NB-IoT and eMTC Huawei LS out Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core To:RAN1

[R2-2005023](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005023.zip) [Draft] Reply LS on open PUR issues for NB-IoT and eMTC Huawei LS out Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core To:RAN1

[R2-2005035](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005035.zip) Remaining FFSs for PUR ZTE Corporation, Sanechips discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2005206](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005206.zip) [H810] [H840] [H854] PUR start time offset Qualcomm Incorporated discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2005569](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005569.zip) Remaining issue of D-PUR TA timer in RRC ASUSTeK discussion Rel-16 NB\_IOTenh3-Core

[R2-2005570](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005570.zip) PUR configuration maintenance during RRC state transition ASUSTeK discussion Rel-16 36.331 NB\_IOTenh3-Core

[R2-2005571](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005571.zip) HARQ feedback in RRC\_IDLE ASUSTeK discussion Rel-16 36.321 NB\_IOTenh3-Core

### 7.2.4 NB-IoT Specific

NB-IoT specific topics

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting.

A web conference will be used for handling some of the discussions in this AI.

Includes [Post109bis-e][944][NBIOT] CSS overlapping case for UE specific DRX (Sequans)

[R2-2004812](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004812.zip) Necessity of time stamp info for ANR in NB-IoT ZTE Corporation, Sanechips discussion Rel-16 NB\_IOTenh3-Core

[R2-2005686](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005686.zip) Report of [Post109bis-e][944][NBIOT] CSS overlapping case for UE specific DRX Sequans Communications discussion NB\_IOTenh3-Core

### 7.2.5 NB-IoT UE capabilities

This agenda item may utilize a summary document to facilitate treatment of topics during the e-meeting.

A web conference will be used for handling some of the discussions in this AI.

[R2-2004467](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2004467.zip) Updates for Rel-16 additional enhancements NB-IoT BlackBerry UK Limited CR Rel-16 36.306 16.0.0 1746 2 F NB\_IOTenh3-Core R2-2004044

* [AT110-e][305][NBIOT] R16 36.306 CR (Blackberry)

 Status: Not Started

 Scope: Update the CR with agreements from this meeting.

 Intended outcome: Agreed CR in R2-2005925

 Deadline: June 12 1000 UTC

[R2-2005030](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005030.zip) RAN1 features list and UE capabilities issues Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core

* [AT110-e][306][NBIOT] R16 RAN1 features list and UE capabilities (Huawei)

 Status: Not Started.

 Scope: [R2-2005030](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005030.zip).

 Intended outcome: Report in R2-2005926

 Deadline: June 5 1000 UTC

### 7.2.6 ASN.1 review of NB-IoT

Including documents related to Class 2/3 ASN.1 review issues that require WI-specific discussion.

A web conference will be used for handling some of the discussions in this AI.

[R2-2005031](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005031.zip) [H812][H842] Signalling of newUEidentity for PUR Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2005032](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005032.zip) [H813][H843] Description of groupForServiceList for GWUS Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2005033](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005033.zip) [H816] GWUS frequency location and resource pattern Huawei, HiSilicon discussion Rel-16 LTE\_eMTC5-Core

[R2-2005034](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005034.zip) [H844, H847, H845, H846, H853 ] Miscellaneous RIL WI open issues Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core

* [AT110-e][307][NBIOT] R16 ASN.1 Review (Huawei)

 Status: Not Started.

 Scope: Remaining RIL issues (TBD).

 Intended outcome: Report in R2-2005927

 Deadline: June 5 1000 UTC