3GPP TSG-RAN WG2 Meeting #109bis electronic draftR2-2003807

**20 – 30 Mar 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 [AT109bis-e][000]

Please see the following Tdocs for e-meeting guidance:

[R2-2002500](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002500.zip) Agenda for RAN2#109bis-e Chairman agenda

[R2-2003824](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_109_e/Docs/R2-2003824.zip) RAN2 109bis-e 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_109bis-e/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:
* [AT109bis-e][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: 30-04-2020, 10:00 UTC

**List and Status of Offline Email Discussions**

NOTE: The official kick off date for these email discussions are Monday April 20th at 7:00 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.

* [AT109bis-e][301][NBIOT] Clarification on RLC UM SN size for NB-IoT (Huawei)

Status: Starts Monday April 20th at 7:00 UTC

Scope: Check if there is support and update based on the comments if the CR is agreeable.

Intended outcome: Report from the discussion and, if agreeable, in-principle agreed CR. The report can be provided in R2-2004036

Deadline: 27-04-2020, 10:00 UTC

* [AT109bis-e][302][NBIOT] Optimisation on trigger for dedicated SR with HARQ-ACK (ZTE)

Status: Starts Monday April 20th at 7:00 UTC

Scope: Check if there is support and update based on the comments if the CR is agreeable.

Intended outcome: Report from the discussion and, if agreeable, in-principle agreed CR. The report can be provided in R2-2004037

Deadline: 27-04-2020, 10:00 UTC

* [AT109bis-e][303][NBIOT] Cell selection on the dedicated frequency after RRC connection rejection for NB-IoT (Mediatek)

Status: Starts Monday April 20th at 7:00 UTC

Scope: Check if there is support and update based on the comments if the CR is agreeable.

Intended outcome: Report from the discussion and, if agreeable, in-principle agreed CR. The report can be provided in R2-2004038

Deadline: 27-04-2020, 10:00 UTC

* [AT109bis-e][304][NBIOT] 36.300 CR (Huawei)

Status: Starts Monday April 20th at 7:00 UTC

Scope: Update the CR with agreements from this meeting.

Intended outcome: baseline CR for updating 36.300 in R2-2004039

Deadline: 29-04-2020, 10:00 UTC

* [AT109bis-e][305][NBIOT] 36.331 CR (Huawei)

Status: Starts Monday April 20th at 7:00 UTC

Scope: Update the CR with agreements from this meeting.

Intended outcome: baseline CR for updating 36.331 in R2-2004040

Deadline: 29-04-2020, 10:00 UTC

* [AT109bis-e][306][NBIOT] 36.302 CR (Huawei)

Status: Starts Monday April 20th at 7:00 UTC

Scope: Update the CR with agreements from this meeting.

Intended outcome: baseline CR for updating 36.302 in R2-2004041

Deadline: 29-04-2020, 10:00 UTC

* [AT109bis-e][307][NBIOT] 36.304 CR (Nokia)

Status: Starts Monday April 20th at 7:00 UTC

Scope: Update the CR with agreements from this meeting, including WUS TP.

Intended outcome: baseline CR for updating 36.304 in R2-2004042

Deadline: 29-04-2020, 10:00 UTC

* [AT109bis-e][308][NBIOT] 36.321 CR (Ericsson)

Status: Starts Monday April 20th at 7:00 UTC

Scope: Update the CR with agreements from this meeting.

Intended outcome: baseline CR for updating 36.321 in R2-2004043

Deadline: 29-04-2020, 10:00 UTC

* [AT109bis-e][309][NBIOT] 36.306 CR (Blackberry)

Status: Starts Monday April 20th at 7:00 UTC

Scope: Update the CR with agreements from this meeting.

Intended outcome: baseline CR for updating 36.306 in R2-2004044

Deadline: 29-04-2020, 10:00 UTC

* [AT109bis-e][310][NBIOT] WUS open issues (Ericsson)

Status: Not started

Scope: Remaining open issues on WUS

Intended outcome: Finalise the open issues, report in R2-2004045

Deadline: 22-04-2020, 16:00 UTC

* [AT109bis-e][311][NBIOT] PUR open issues (Huawei)

Status: Not started

Scope: Remaining open issues on PUR

Intended outcome: Finalise the open issues, report in R2-2004046

Deadline: 22-04-2020, 16:00 UTC

* [AT109bis-e][312][NBIOT] SON open issues (Session Chair)

Status: Starts Monday April 20th at 7:00 UTC

Scope: Remaining open issues on SON

Intended outcome: Finalise the open issues, report in R2-2004047

Deadline: 22-04-2020, 16:00 UTC

* [AT109bis-e][313][NBIOT] UE capabilities, TDD/FDD differentiation and 5GC applicability for NB-IoT and eMTC (Huawei)

Status: Starts Monday April 20th at 7:00 UTC

Scope: Discuss the open issues on UE capabilities

Intended outcome: Finalise the issues, report in R2-2004048

Deadline: 27-04-2020, 10:00 UTC

* [AT109bis-e][314][NBIOT] ASN.1 review of NB-IoT (Huawei)

Status: Starts Monday April 20th at 7:00 UTC

Scope: ASN.1 WI specific issues discussion

Intended outcome: progress the ASN.1 review and conclude as much as possible, report in R2-2004049

Deadline: 27-04-2020, 10:00 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.

This agenda item may not be treated during the e-meeting. No web conference is planned for this agenda item

[R2-2003246](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003246.zip) Clarification on RLC UM SN size for NB-IoT Huawei, HiSilicon CR Rel-15 36.322 15.3.0 0145 - F NB\_IOTenh2-Core

* [AT109bis-e][301][NBIOT] Clarification on RLC UM SN size for NB-IoT (Huawei)

Scope: Check if there is support and update based on the comments if the CR is agreeable.

Intended outcome: Report from the discussion and, if agreeable, in-principle agreed CR. The report can be provided in R2-2004036

Deadline: 27-04-2020, 10:00 UTC

[R2-2003245](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003245.zip) Optimisation on trigger for dedicated SR with HARQ-ACK ZTE Corporation, Sanechips, MediaTek Inc. discussion Rel-15 LTE\_eMTC4-Core

[R2-2003254](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003254.zip) Optimisation on trigger for dedicated SR with HARQ-ACK ZTE Corporation, Sanechips, MediaTek Inc. CR Rel-15 36.321 15.8.0 1469 - F LTE\_eMTC4-Core

[R2-2003256](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003256.zip) Optimisation on trigger for dedicated SR with HARQ-ACK ZTE Corporation, Sanechips, MediaTek Inc. CR Rel-15 36.331 15.9.0 4254 - F LTE\_eMTC4-Core

* [AT109bis-e][302][NBIOT] Optimisation on trigger for dedicated SR with HARQ-ACK (ZTE)

Scope: Check if there is support and update based on the comments if the CR is agreeable.

Intended outcome: Report from the discussion and, if agreeable, in-principle agreed CR. The report can be provided in R2-2004037

Deadline: 27-04-2020, 10:00 UTC

[R2-2003619](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003619.zip) Discussion on dedicated frequency search after connection rejection MediaTek Inc. discussion Rel-15 NB\_IOTenh2-Core

[R2-2003621](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003621.zip) Cell selection on the dedicated frequency after RRC connection rejection for NB-IoT in 36.304 MediaTek Inc. CR Rel-15 36.304 15.5.0 0787 - F NB\_IOTenh2-Core

[R2-2003622](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003622.zip) Cell selection on the dedicated frequency after RRC connection rejection for NB-IoT in 36.331 MediaTek Inc. CR Rel-15 36.331 15.9.0 4280 - F NB\_IOTenh2-Core

* [AT109bis-e][303][NBIOT] Cell selection on the dedicated frequency after RRC connection rejection for NB-IoT (Mediatek)

Scope: Check if there is support and update based on the comments if the CR is agreeable.

Intended outcome: Report from the discussion and, if agreeable, in-principle agreed CR. The report can be provided in R2-2004038

Deadline: 27-04-2020, 10:00 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.

[R2-2002587](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002587.zip) RAN2 agreements for Rel-16 additional enhancements for NB-IoT and MTC Document Rapporteur (BlackBerry) other Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2003249](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003249.zip) Miscellaneous corrections to TS 36.300 for Rel-16 NB-IoT Huawei, HiSilicon CR Rel-16 36.300 16.1.0 1277 - F NB\_IOTenh3-Core

* [AT109bis-e][304][NBIOT] 36.300 CR (Huawei)

Scope: Update the CR with agreements from this meeting.

Intended outcome: baseline CR for updating 36.300 in R2-2004039

Deadline: 29-04-2020, 10:00 UTC

R2-2003744 Miscellaneous corrections to 36.331 for Rel-16 NB-IoT Huawei, HiSilicon CR Rel-16 36.331 16.0.0 4287 - F NB\_IOTenh3-Core Late

* [AT109bis-e][305][NBIOT] 36.331 CR (Huawei)

Scope: Update the CR with agreements from this meeting.

Intended outcome: baseline CR for updating 36.331 in R2-2004040

Deadline: 29-04-2020, 10:00 UTC

R2-2003745 Miscellaneous corrections to 36.302 for Rel-16 NB-IoT Huawei, HiSilicon CR Rel-16 36.302 16.0.0 1209 - F NB\_IOTenh3-Core Late

* [AT109bis-e][306][NBIOT] 36.302 CR (Huawei)

Scope: Update the CR with agreements from this meeting.

Intended outcome: baseline CR for updating 36.302 in R2-2004041

Deadline: 29-04-2020, 10:00 UTC

* [AT109bis-e][307][NBIOT] 36.304 CR (Nokia)

Scope: Update the CR with agreements from this meeting, including WUS TP.

Intended outcome: baseline CR for updating 36.304 in R2-2004042

Deadline: 29-04-2020, 10:00 UTC

* [AT109bis-e][308][NBIOT] 36.321 CR (Ericsson)

Scope: Update the CR with agreements from this meeting.

Intended outcome: baseline CR for updating 36.321 in R2-2004043

Deadline: 29-04-2020, 10:00 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.

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

Includes [Post109e#32][NBIOT/EMTC] Finalise the 36.304 Text for WUS (Nokia)

Includes [Post109e#45][NBIOT/EMTC] WUS open issues (Ericsson)

All identified critical open issues should be provided to the rapporteur via email discussion Post109e#45 and new contributions on those topics are discouraged.

[R2-2003328](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003328.zip) E-mail-Discussion-Summary for Post109e-32 : Finalise TP for TS36.304 for WUS Nokia, Nokia Shanghai Bell discussion Rel-16

[R2-2003329](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003329.zip) Draft TP for TS36.304 Nokia, Nokia Shanghai Bell discussion Rel-16

[R2-2003431](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003431.zip) Report - Email discussion [Post109e#45][NB-IoT/eMTC] WUS open issues Ericsson discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core Late

* [AT109bis-e][310][NBIOT] WUS open issues (Ericsson)

Scope: Remaining open issues on WUS

Intended outcome: Finalise the open issues, report in R2-2004045

Deadline: 22-04-2020, 16:00 UTC

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

[R2-2003101](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003101.zip) Consideration on WUS paging probability parameter Lenovo, Motorola Mobility discussion Rel-16

[R2-2003102](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003102.zip) Group WUS for mobile UE Lenovo, Motorola Mobility discussion Rel-16

[R2-2003184](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003184.zip) Clarification of WUS resource configuration Qualcomm Incorporated draftCR Rel-16 36.331 16.0.0 LTE\_eMTC5-Core

[R2-2003485](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003485.zip) Formula for WUS group selection ZTE Corporation, Sanechips discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2003741](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003741.zip) Signalling changes for GWUS Resource mapping for eMTC 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.

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

Includes [Post109e#46][NBIOT/EMTC] PUR open issues (Huawei)

All identified critical open issues should be provided to the rapporteur via email discussions Post109e#46 and new contributions on those topics are discouraged.

[R2-2003746](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003746.zip) Report of email discussion [Post109e#46][NBIOT/EMTC] PUR open issues Huawei report Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core Late

* [AT109bis-e][311][NBIOT] PUR open issues (Huawei)

Scope: Remaining open issues on PUR

Intended outcome: Finalise the open issues, report in R2-2004046

Deadline: 22-04-2020, 16:00 UTC

[R2-2003257](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003257.zip) Complete the HARQ process for PUR ZTE Corporation, Sanechips draftCR Rel-16 36.321 16.0.0 NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2003258](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003258.zip) Correction on successful PUR transmission indication ZTE Corporation, Sanechips draftCR Rel-16 36.321 16.0.0 LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2003267](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003267.zip) Correction on TA timer maintenance ZTE Corporation, Sanechips draftCR Rel-16 36.321 16.0.0 LTE\_eMTC5-Core, NB\_IOTenh3-Core

[R2-2003331](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003331.zip) Security Aspects of PUR Configuration for CP Nokia, Nokia Shanghai Bell discussion

[R2-2003355](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003355.zip) Moving UL grant handling from MAC to RRC for PUR Ericsson, Huawei, HiSilicon discussion NB\_IOTenh3-Core, LTE\_eMTC5-Core

[R2-2003415](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003415.zip) TA validation based on serving cell RSRP change (related to RAN4 LSes) Sierra Wireless, S.A. discussion Rel-16 R2-2000443

[R2-2003429](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003429.zip) Configuration and adjustment of repetition number Sierra Wireless, S.A. discussion Rel-16

[R2-2003652](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003652.zip) Remaining issues of D-PUR TA timer in MAC ASUSTeK discussion Rel-16 38.321 NB\_IOTenh3-Core

[R2-2003653](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003653.zip) PUR configuration maintenance during RRC state transition ASUSTeK discussion Rel-16 36.331 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 [Post109e#15][NBIOT] UE specific DRX: DRX cycle values (Sequans)

[R2-2003131](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003131.zip) To Verify ANR Measurements Ericsson, Nokia, Nokia Shanghai Bell, ZTE Corporation discussion Rel-16

[R2-2003133](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003133.zip) Logging of CE Level for RLF and ANR measurements Ericsson discussion Rel-16

[R2-2003139](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003139.zip) Draft LS to RAN4 on ANR Measurements Ericsson [To be RAN2] LS out Rel-16 NB\_IOTenh3-Core To:RAN4

[R2-2003247](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003247.zip) SON remaining issues Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core

[R2-2003291](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003291.zip) Remaining FFSs for SON in NB-IoT ZTE Corporation, Sanechips discussion Rel-16 NB\_IOTenh3-Core

[R2-2003786](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003786.zip) Summary of SON/ANR open issues Session Chair (Huawei)

* [AT109bis-e][312][NBIOT] SON open issues (Session Chair)

Scope: Remaining open issues on SON

Intended outcome: Finalise the open issues, report in R2-2004047

Deadline: 22-04-2020, 16:00 UTC

[R2-2003669](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003669.zip) Report of [Post109e#15][NBIOT] UE specific DRX DRX cycle values Sequans Communications discussion Rel-16 NB\_IOTenh3-Core

[R2-2003747](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003747.zip) Introduction of UE specific DRX for NB-IoT Huawei, HiSilicon, MediaTek, CMCC, China Unicom, Ericsson, Lenovo, Motorola Mobility discussion Rel-16 NB\_IOTenh3-Core

=> Revised in [R2-2003780](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003780.zip)

[R2-2003780](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003780.zip) Introduction of UE specific DRX for NB-IoT Huawei, HiSilicon, MediaTek, CMCC, China Unicom, Ericsson, Lenovo, Motorola Mobility, Vodafone discussion Rel-16 NB\_IOTenh3-Core

=> Revised in [R2-2003815](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003815.zip)

[R2-2003815](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003815.zip) Introduction of UE specific DRX for NB-IoT Huawei, HiSilicon, MediaTek, CMCC, China Unicom, Ericsson, Lenovo, Motorola Mobility, Vodafone, China Telecom discussion Rel-16 NB\_IOTenh3-Core

[R2-2003748](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003748.zip) [Draft] Reply LS on Rel-16 NB-IoT enhancements Huawei LS out Rel-16 NB\_IOTenh3-Core To:CT1, RAN3 Cc:SA2

[R2-2003749](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003749.zip) [Draft] LS on UE specific DRX in NB-IoT Huawei LS out Rel-16 NB\_IOTenh3-Core To:RAN4

### 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.

Includes [Post109e#14][NBIOT] 36.306 CR (Blackberry)

[R2-2002588](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002588.zip) Updates for Rel-16 additional enhancements NB-IoT BlackBerry UK Limited CR Rel-16 36.306 16.0.0 1746 - C NB\_IOTenh3-Core Late

* [AT109bis-e][309][NBIOT] 36.306 CR (Blackberry)

Scope: Update the CR with agreements from this meeting.

Intended outcome: baseline CR for updating 36.306 in R2-2004044

Deadline: 29-04-2020, 10:00 UTC

[R2-2003248](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003248.zip) UE capabilities, TDD/FDD differentiation and 5GC applicability for NB-IoT and eMTC Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core

* [AT109bis-e][313][NBIOT] UE capabilities, TDD/FDD differentiation and 5GC applicability for NB-IoT and eMTC (Huawei)

Scope: Discuss the open issues on UE capabilities

Intended outcome: Finalise the issues, report in R2-2004048

Deadline: 27-04-2020, 10:00 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.

[R2-2003250](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003250.zip" \o "https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003250.zip) [H108][H109] TP on WUS sugnalling for per gap configuration Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core Late

[R2-2003251](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003251.zip) [H228][H229] TP on multipe TB schedullng in NB-IoT Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core Late

Moved from AI 7.2.3

Related to [Z603]

[R2-2003278](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003278.zip) Capture RRC setup using PUR ZTE Corporation, Sanechips draftCR Rel-16 36.331 16.0.0 LTE\_eMTC5-Core, NB\_IOTenh3-Core

* [AT109bis-e][314][NBIOT] ASN.1 review of NB-IoT (Huawei)

Scope: ASN.1 WI specific issues discussion

Intended outcome: progress the ASN.1 review and conclude as much as possible, report in R2-2004049

Deadline: 27-04-2020, 10:00 UTC