**3GPP TSG RAN meeting #105 RP-24xxxxx**

**Melbourne, Australia, September 9-12, 2024**

## Status Report to TSG

**Agenda item:** 9.2.7

|  |  |
| --- | --- |
| **WI / SI Name** | Study on additional topological enhancements for NR |
| included in this status report | Study Item: Yes | Core part: No | Performance part:No | Testing part:No |
| **Acronym** | FS\_NR\_WAB\_5GFemto |
| **Unique ID** | 1020082 |
| **TSG Tdoc of latest approved WI/SI description (if any)** | RP-241264 |
| **Target Completion Date****(indicate if changed)** | Study Item: 09/2024 | Core part:n/a | Performance part: n/a | Testing part: n/a |
| **Overall Completion level** | Study Item: 100 % | Core part: n/a | Performance Part: n/a | Testing part: n/a |

Note: Overall completion level percentage numbers should use one of the colors below:

* xx%: Normal progress, no RAN plenary action needed
* xx%: Progress behind schedule, may need RAN plenary intervention. If so, SR should clearly define requested action
* xx%: Progress critically behind, RAN plenary shall intervene. SR should define requested action

**Source:**

|  |  |
| --- | --- |
| **Leading WG** | RAN3 |
| **Rapporteur** | **Name** | Min, Tianyang |
| **Company** | NTT DOCOMO |
| **Email** | tianyang.min.ex@nttdocomo.com |
| **Secondary WG** | RAN2 |
| **Rapporteur** | **Name** | Schumacher, Joe |
| **Company** | AT&T |
| **Email** | joseph.schumacher@att.com |

## 1 Work plan related evaluation

|  |  |
| --- | --- |
| **Do you want to modify the time budget for this WI/SI compared to what was endorsed at the last RAN meeting?** | No |

*If you answered No: Then please remove the Excel file from the zip file of this status report.*

*If you answered Yes: Then please fill out the attached Excel template to request a modification of the time budgets for your WI /SI. The Excel table has to be filled out for all affected RAN WGs and up to the target date of the WI/SI. The basis are the endorsed time budgets of the last RAN meeting. Please highlight all changes of the values.
 One time unit (TU) corresponds to ~ 2 hours in the meeting.
 If this status report covers a WI with Core and Performance part, then please have one line for each in the attached Excel table.
 Note: If no Excel table is attached, then this means no time budget change.*

**Additional explanations/motivations for the time budget changes in the attached Excel table:**

## 2. Detailed progress in RAN WGs since last TSG meeting (for all involved WGs)

 NOTE: Agreements and Open issues impacted cross-TSG aspects shall be explicitly highlighted

## 2.1 RAN2

No RAN2 work on this SI.

## 2.2 RAN3

#### 2.2.1 Agreements

**WAB**

General and Architecture

The study focuses on the use of WAB-MT´s PDU session via NR Uu as backhaul of WAB gNB. Other options for the backhaul (including non-3GPP radio technology) are not precluded but not a part of the study.

It is agreed that the study is focused on NR-Uu backhaul

The WAB-MT may connect to a public PLMN or an SNPN.

The WAB-gNB may connect to a public PLMN or an SNPN.

A WAB-gNB cannot serve WAB MTs

The WAB-MT supports at least a subset of UE functionalities.

The NR-Uu backhaul link does not include the IP layer. The IP layer is included in the NG-U and NC-C. Amend Figure X.Y.3 by correcting the dashed vertical lines.

The scope of the study is limited to PDU Session Backhauling. Other options are not precluded but not treated in this study.

For Figure X.Y removing the white box and making the IP bold line to terminate at the WAB box.

BH-RAN-node: This is an NG-RAN node serving the WAB-MT.

BH-gNB: The gNB serving the WAB-MT.

BH-AMF: The AMF serving the WAB-MT.

BH-5GC: The 5GC serving the WAB-MT.

BH-UPF: The UPF serving the WAB-MT for backhauling.

UE´s 5GC: The 5GC connected to the WAB-gNB and serving the UEs.

UE´s AMF: The AMF connected to the WAB-gNB and serving the UEs.

UE´s UPF: The UPF connected to the WAB-gNB and serving the UEs.

WAB Authorization

RAN3 understands that authorization of the WAB-MT is different from the WAB-gNB service authorization/configuration/activation by e.g. OAM/SeGW.

WAB-MT authorization provides the WAB MT with the right to support BH PDU sessions.

In case MT authorization is based on slice, signaling enhancements to the AS layer for the support of WAB-MT authorization are not needed. SA2 to decide whether MT authorization based on slicing is supported.

Authorization of WAB-gNB provides service authorization, i.e., the right to serve UEs.

WAB mobility

Support the following scenarios for intra-PLMN WAB-node mobility:

* UE´s AMF/UPF remains unchanged as WAB-gNB moves inside a PLMN.
* UE´s AMF/UPF changes as WAB-gNB moves inside a PLMN.
* BH UPF/AMF remains unchanged as WAB-MT moves inside a PLMN.
* BH UPF/AMF changes as WAB-MT moves inside a PLMN.

Legacy mobility procedures can be supported for WAB-MT.

RAN3 assumes that roaming scenarios for WAB-MT are supported.

Establishment of Xn Connections of the WAB-gNB with BH-RAN nodes, as well as with surrounding RAN nodes, is supported and can follow legacy procedures.
Addition of new information in the legacy procedures is not precluded

If needed, the WAB-gNB may power up one or more new cells with new configuration parameters related to its current location and handover UEs between the old and new cell served by the WAB-gNB.

The two logical gNB solution (as described in the LS from SA2) is feasible.

The single gNB solution including the options below shall be captured in the TR:

- Single gNB single cell using registration update due to TAC change

- Single gNB two cells with different TAC using NG HO

- Single gNB single cell without TAC change

Feedback from SA2 is needed concerning whether any of the options above is feasible and whether enhancements are needed.

In the TR conclude that solutions on mobility will be further analysed during normative phase. At study conclusion it is assessed that the two gNB solution is feasible. It remains to be verified whether the single gNB solution is feasible and acceptable.

Conclusion and recommendation for WAB

Based on the study, RAN3 can confirm the feasibility of WAB functionality from RAN3 perspective.

RAN3 recommends that a normative phase for WAB should be pursued.

The normative work for WAB should be based on the functionalities, terminology and requirements captured in TR 38.799. Addition of further details during normative phase is not precluded.

The normative work should consider the following architectural aspects for WAB according to TR 38.799:

• Backhauling of the WAB-gNB NG, Xn and OAM traffic is conducted over the WAB-MT’s PDU session.

• WAB-gNBs can establish Xn interface(s) with the WAB-MTs serving BH RAN node and with other surrounding gNBs.

• The interface between WAB-MT and WAB-gNB is out-of-scope for the normative phase.

• Split architecture of WAB-gNB is out-of-scope for the normative phase.

Authorization procedures for WAB-MT are out of RAN3 scope and are expected to be handled by SA2. RAN3 to define the WAB-node behavior in case the authorization status of WAB-MT and/or WAB-gNB changes.

The normative phase to define integration procedures for WAB nodes should follow the description in TR 38.799.

Mobility procedures to be used for UEs served by a WAB-gNB are legacy UE mobility procedures. Mobility for WAB-MTs is based on legacy UE mobility procedures.

During normative phase, handling of WAB-gNB’s traffic (including Xn, NG and OAM traffic) during WAB-node mobility should be defined, including the case where the MT´s BH PDU session changes.

During normative phase, define the procedure to support the UE’s AMF change for UEs connected to or camped on a WAB-gNB, in cooperation with SA2.

During normative phase, define enhancements to the UE’s ULI that reflect the WAB node’s location.

During normative phase, capture the handling of:

• PCI collision.

• Reconfiguration of TAC and RANAC on WAB-gNBs.

• Avoidance of multi-hop WAB.

• Radio-resource coordination between access and backhaul links.

**5G Femto**

General and Architecture

Option 1 does not require any architecture change.

RAN3 to use the term “NR Femto node”. The functionalities of an NR Femto node need to be further studied

An NR Femto node only supports NR.

Option A does not have any architecture impact in 3GPP.

Access control

Initial access control to a CAG supported by a NR Femto node is performed by the AMF, reusing current PNI-NPN functionality.

Reusing CAG configurations and mobility functionalities specified for PNI-NPN also for NR Femto nodes deployments. Whether enhancements to legacy CAG functionalities are needed is for further discussion.

For Access control, NR Femto reuses the existing CAG functionalities, no stage3 impact has been identified.

With the existing CAG mechanism, the open, hybrid and closed access modes can be supported as follows:

- To support the open access mode: The NR Femto activates a PLMN cell, which can be accessed by legacy UE without access control.

- To support the hybrid access mode: The NR Femto cell can be shared by both PLMN and CAG, through broadcast both the plmn-IdentityInfoList and the npn-IdentityInfoList-r16 in the SIB1, but without the cellReservedForOtherUse. Then, this cell is accessible as a CAG cell by UEs which have the allowed CAG list including this cell. For the legacy UE not supporting CAG, this cell is viewed as a normal PLMN cell.

- To support the closed access mode: The NR Femto activates an NPN-only cell by broadcasting the cellReservedForOtherUse IE with value to be set as “true”, then this cell can only be accessed by the UEs whose allowed CAG list includes a CAG-ID broadcasted by the NR Femto cell.

No impacts on the UE are in scope of the study.

Local service

Co-located UPF scenarios are in scope of the SID and shall be tackled by the analysis in the TR.

Conclusion and recommendation for 5G Femto

Option 1, namely direct connection of an NR Femto Node to the 5GC via the NG interface, is already possible.

In order to maintain the existing infrastructure for an operator who has deployed LTE HeNBs, Option 2 with an optional NR Femto GW is recommended for a normative phase.

Option A, namely direct connection of an NR Femto Node to other NR Femto Nodes / gNBs via the Xn interface, is already possible.

Co-located UPF scenarios are in scope of the SID and shall be tackled by the analysis in the TR.

#### 2.2.2 Remaining Open issues

No remaining issue.

## 3. Detailed progress in SA/CT WGs since last TSG meeting (for all involved WGs)

N/A

## 4. References

RP-234041 New SID Study on additional topological enhancements for NR AT&T

**RAN3#123b**

[R3-241554](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241554.zip) (TP to TR 38.799) Aspects related to WAB architecture (Qualcomm Inc.) other

[R3-241926](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241926.zip) (pCR for TR 38.799) Functional Aspects of WAB-Nodes (Ericsson) pCR

[R3-241717](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241717.zip) Consideration on integration procedure and resource multiplexing for WAB (Huawei) pCR

[R3-241997](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241997.zip) Discussion on WAB architecture and high level aspects (Nokia, Nokia Shanghai Bell) discussion

[R3-241540](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241540.zip) (TP to TR 38.799) Architecture and protocol stack for WAB (CATT) other

[R3-241541](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241541.zip) Discussion on impact of WAB mobility (CATT) discussion

[R3-241542](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241542.zip) Discusson on operation and signling for supporting WAB (CATT) discussion

[R3-241549](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241549.zip) Discussion on Network Selection for WAB (Fraunhofer IIS, Fraunhofer HHI) discussion

[R3-241552](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241552.zip) Aspects related to WAB mobility and resource multiplexing (Qualcomm Inc.) discussion

[R3-241553](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241553.zip) (TP to TR 38.799) Discussion on requirements for WAB (Qualcomm Inc.) other

[R3-241601](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241601.zip) Discussion on the enhancements for WAB (NEC) discussion

[R3-241625](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241625.zip) Discussion on Wireless Access Backhaul (NTT DOCOMO INC.) discussion

[R3-241715](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241715.zip) Consideration on the architecture design for WAB (Huawei) pCR

[R3-241716](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241716.zip) Consideration on the QoS support and mobility for WAB (Huawei) pCR

[R3-241743](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241743.zip) Discussion on architecture and protocol stack for WAB (Samsung) discussion

[R3-241744](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241744.zip) Discussion on architecture requirement and deployment scenarios for WAB (Samsung) discussion

[R3-241751](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241751.zip) (TP for TR 38.799) Architecture and protocol stack of MWAB (Xiaomi) other

[R3-241752](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241752.zip) (TP for TR 38.799) Stage 2 procedures of MWAB (Xiaomi) other

[R3-241781](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241781.zip) Architecture and Signalling Enhancements for Wireless Access Backhaul (China Telecom) discussion

[R3-241797](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241797.zip) Architecture and protocol stacks of WAB node (Lenovo) discussion

[R3-241798](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241798.zip) Discussion on integration and migration procedures for WAB node (Lenovo) discussion

[R3-241799](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241799.zip) Discussion on resource multiplexing for WAB node (Lenovo) discussion

[R3-241893](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241893.zip) Discussion on architecture and protocol stack for R19 WAB (ZTE) discussion

[R3-241894](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241894.zip) Discussion on WAB mobility (ZTE) discussion

[R3-241895](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241895.zip) Discussion on resource multiplexing and location service in WAB (ZTE) discussion

[R3-241925](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241925.zip) (pCR for TR 38.799) WAB Architecture and Scenarios (Ericsson) pCR

[R3-241927](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241927.zip) (pCR for TR 38.799): Handling of Reliability, Latency and Resource Multiplexing for WAB (Ericsson) discussion

[R3-241979](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241979.zip) Discussion on support of WAB (LG Electronics) discussion

[R3-241998](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241998.zip) Discussion on WAB mobility and XnAP/NGAP impact (Nokia, Nokia Shanghai Bell) discussion

[R3-241999](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241999.zip) Resource Multiplexing for WAB (Nokia, Nokia Shanghai Bell) discussion

[R3-242158](file:///C%3A%5CUsers%5C5088196%5CDownloads%5CInbox%5CR3-242158.zip) Summary of Offline Discussion on additional topological enhancement (NTT DOCOMO INC.) Discussion

[R3-241624](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241624.zip) Discussion on 5G Femto (NTT DOCOMO INC.) discussion

[R3-241555](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241555.zip) (TP to TR 38.799) Discussion on requirements for 5G Femto (Qualcomm Inc.) other

[R3-241556](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241556.zip) Architecture, access control and local services for 5G Femto (Qualcomm Inc.) discussion

[R3-241543](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241543.zip) (TP to TR 38.799) Discussion on 5G Femto architecture (CATT) other

[R3-241980](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241980.zip) Discussion on support of 5G Femto (LG Electronics) discussion

[R3-241896](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241896.zip) Discussion on RAN architecture and required functional for 5G femto (ZTE) discussion

[R3-241831](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241831.zip) Solution for 5G Femto Architecture (Nokia, TMO US, AT&T, Verizon Wireless, BT, NTT Docomo, KDDI) discussion

[R3-241832](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241832.zip) [TP for TR 38.799] Solution for 5G Femto architecture (Nokia, TMO US, AT&T, Verizon Wireless, BT, NTT Docomo, KDDI) other

[R3-241598](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241598.zip) Considerations on 5G femto (NEC) discussion

[R3-241800](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241800.zip) Architecture and protocal stacks of 5G femto (Lenovo) discussion

[R3-241565](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241565.zip) On 5G Femto Support (China Telecommunication) discussion

[R3-241745](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241745.zip) Discussion on architecture and functional impact for Femto (Samsung) discussion

[R3-241718](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241718.zip) Discussion on the architecture design for 5G femto (Huawei) pCR

[R3-242040](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-242040.zip) Femto Architecture and NG-RAN (Ericsson LM) pCR

[R3-241897](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241897.zip) Discussion on access control for 5G femto (ZTE) discussion

[R3-241545](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241545.zip) Discussion on 5G Femto access control mechanism (CATT) discussion

[R3-241801](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241801.zip) Access control and handover for 5G Femto with CAG (Lenovo) discussion

[R3-241833](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241833.zip) [TP for TR 38.799] Initial Access Control of 5G Femtos (Nokia ) other

[R3-241834](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241834.zip) [TP for TR 38.799] Access Control of 5G Femtos for Mobility (Nokia ) other

[R3-241835](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241835.zip) LS on security aspect for handover to target 5G Femto (Nokia) LS out To: SA3 CC:

[R3-241719](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241719.zip) Discussion on the access control for 5G femto (Huawei) pCR

[R3-242041](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-242041.zip) Access Control with CAG (Ericsson LM) pCR

[R3-241898](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241898.zip) Discussion on local services for 5G femto (ZTE) discussion

[R3-241544](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241544.zip) Discussion on 5G Femto local service access (CATT) discussion

[R3-241684](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-241684.zip) Access to local services from the 5G Femto via collocated local UPF (Huawei) pCR

[R3-242042](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123-bis%5CDocs%5CR3-242042.zip) Access to Local Services via Local UPF (Ericsson LM) pCR

**RAN3#124**

[R3-243362](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243362.zip) (pCR for TR 38.799) Functional Aspects of WAB-Nodes (Ericsson) pCR

[R3-243199](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243199.zip) (draft Reply LS) Discussion on reply LS to SA2 on VS\_VMR\_Ph2 solution impacts on RAN (Qualcomm Inc.) other

[R3-243352](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243352.zip) Discussion on WAB integration and mobility (Nokia, Nokia Shanghai Bell) discussion

[R3-243339](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243339.zip) Discussion on the Architecture, Access control and QoS support of WAB (Huawei) pCR

[R3-243174](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243174.zip) Discussion on Wireless Access Backhaul (NTTDOCOMO, INC.) discussion

[R3-243021](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243021.zip) LS on FS\_VMR\_Ph2 solution impacts to RAN (SA2(Qualcomm)) LS in

[R3-243217](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243217.zip) (TP to TR 38.799) Discussion on architecture and protocol stack for R19 WAB (ZTE) other

[R3-243200](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243200.zip) (TP to TR 38.799) WAB requirements and archtiecture (Qualcomm Inc.) other

[R3-243201](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243201.zip) (TP to TR 38.799) WAB network integration and mobility (Qualcomm Inc.) other

[R3-243202](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243202.zip) (TP to TR 38.799) WAB resource coordination (Qualcomm Inc.) other

[R3-243218](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243218.zip) (TP to TR 38.799) Discussion on supporting WAB and the reply LS on FS\_VMR\_Ph2 solution impacts to RAN (ZTE) other

[R3-243219](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243219.zip) (TP to TR 38.799) Discussion on WAB mobility and resource multiplexing (ZTE) other

[R3-243247](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243247.zip) Consideration on architecture and mobility for WAB (NEC) discussion

[R3-243305](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243305.zip) (TP for TR 38.799) General aspects of WAB (Xiaomi) other

[R3-243306](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243306.zip) (TP for TR 38.799) SA2’s LS for WAB (Xiaomi) other

[R3-243327](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243327.zip) (TP to TR 38.799) Discussion on impact of WAB (CATT) other

[R3-243328](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243328.zip) (draft reply LS) Discussion on LS for VMR from SA2 (CATT) other

[R3-243329](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243329.zip) (TP to TR 38.799) Discusson on resource multiplexing for WAB (CATT) other

[R3-243340](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243340.zip) Discussion on the procedures related to the WAB (Huawei) pCR

[R3-243341](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243341.zip) Discussion on SA2's LS (S2-2405822/R3-243021) on FS\_VMR\_Ph2 solution impacts to RAN (Huawei) discussion

[R3-243351](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243351.zip) (TP to draft TR 38.799) Discussion on WAB architecture and high level aspects (Nokia, Nokia Shanghai Bell) other

[R3-243353](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243353.zip) Resource Multiplexing for WAB (Nokia, Nokia Shanghai Bell) discussion

[R3-243361](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243361.zip) (pCR for TR 38.799) WAB Architecture and Scenarios (Ericsson) pCR

[R3-243363](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243363.zip) Handling of Backhaul Link Degradation and Resource Multiplexing for WAB (Ericsson) discussion

[R3-243389](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243389.zip) Discussion on integration procedure for WAB node (Lenovo) discussion

[R3-243390](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243390.zip) Discussion on migration procedure for WAB node (Lenovo) discussion

[R3-243391](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243391.zip) Discussion on resource multiplexing for WAB node (Lenovo) discussion

[R3-243581](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243581.zip) Discussion on enhancements for WAB (CANON Research Centre France) discussion

[R3-243583](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243583.zip) Discussion on RAN impact of SA2 solution in WAB (LG Electronics) discussion

[R3-243584](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243584.zip) (TP for TR 38.799) Architecture and protocol stack for WAB’s Xn (LG Electronics) other

[R3-243585](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243585.zip) Reply LS on FS\_VMR\_Ph2 solution impacts to RAN (LG Electronics) LS out To: SA2 CC: RAN2

[R3-243588](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243588.zip) Views on FS\_VMR\_Ph2 Solution Impacts to RAN (China Telecom) discussion

[R3-243648](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243648.zip) (TP to TR 38.799) Discussion on network integration for WAB (Samsung) pCR

[R3-243649](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243649.zip) (TP to TR 38.799) Discussion on WAB mobility (Samsung) pCR

[R3-243809](file:///C%3A%5CUsers%5C5088196%5CDownloads%5CInbox%5CR3-243809.zip) Summary of Offline Discussion on additional topological enhancement (NTT Docomo) discussion

[R3-243025](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243025.zip) LS to request clarification on the potential baseline system architecture of 5G NR Femto (SA3(China mobile))

[R3-243187](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243187.zip) 5G femto architecture considerations (AT&T Services, Inc.) discussion

[R3-243197](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243197.zip) Comment on Femto architecture options 1 and 2 (Charter Communications, Inc) other

[R3-243562](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243562.zip) [TP for TR 38.799] Evaluation of NR Femto Architecture Options (Nokia, TMO US, AT&T, Verizon Wireless, KDDI, British Telecom, NTT Docomo Charter) other

[R3-243608](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243608.zip) On Architecture for NR Femto Support (China Telecom) discussion

[R3-243315](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243315.zip) Discussion on NG connection and interface for Option 2 for NR Femto Architecture (Baicells) discussion

[R3-243316](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243316.zip) (TP to TR 38.799)NG connection and interface for Option 2 for NR Femto Architecture (Baicells) discussion

[R3-243252](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243252.zip) Open issues on NR femto (NEC) discussion

[R3-243330](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243330.zip) (TP to TR 38.799) On 5G Femto architecture (CATT) other

[R3-243342](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243342.zip) Discussion on the architecture and access control for NR Femto (Huawei) pCR

[R3-243753](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243753.zip) (TP to TR 38.799)Discussion on architecture and access control of NR Femto (ZTE) discussion

[R3-243374](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243374.zip) NR Femto Architecture and Ongoing Issues (Ericsson LM) pCR

[R3-243761](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243761.zip) Draft Reply LS to request clarification on the potential baseline system architecture of 5G NR Femto (CMCC) LS out To: SA3 CC: SA2

[R3-243686](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243686.zip) draft Reply LS to request clarification on the potential baseline system architecture of 5G NR Femto (NTTDOCOMO, INC.) LS out To: SA3 CC: SA2

[R3-243828](file:///C%3A%5CUsers%5C5088196%5CDownloads%5CInbox%5CR3-243828.zip) Adding SeGW to NR Femto Architecture Options 1, 3 and 4 (Ericsson LM) Discussion

[R3-243020](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243020.zip) LS on Support of UE move between CAG cell of 5G Femto and CSG cell (SA2(Docomo)) LS in

[R3-243175](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243175.zip) Discussion on NR Femto (NTTDOCOMO, INC.) discussion

[R3-243176](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243176.zip) draft Reply LS on Support of UE move between CAG cell of 5G Femto and CSG cell (NTTDOCOMO, LS out To: SA2 CC: RAN2

[R3-243563](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243563.zip) Support of UE Move between CAG cell and CSG cell (Nokia) discussion

[R3-243564](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243564.zip) Reply LS on Support of UE move between CAG cell of 5G Femto and CSG Cell (Nokia) LS out To: SA2 CC:

[R3-243755](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243755.zip) Discussion on CSG-CAG mobility (ZTE) discussion

[R3-243203](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243203.zip) (draft Reply LS) Discussion on reply LS to SA2 on Support of UE move between CAG cell of 5G Femto and CSG cell (Qualcomm Inc.) other

[R3-243394](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243394.zip) Discussion on interworking between CAG and CSG cells (Lenovo) discussion

[R3-243586](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243586.zip) Discussion on SA2 solutions to support HO between CAG and CSG cell (LG Electronics) discussion

[R3-243587](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243587.zip) Reply LS on Support of UE move between CAG cell of 5G Femto and CSG cell (LG Electronics) LS out To: SA2, RAN2 CC:

[R3-243343](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243343.zip) Discussion on SA2’s LS (S2-2405813/ R3-243020) on Support of UE move between CAG cell of 5G Femto and CSG cel (Huawei) discussion

[R3-243409](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243409.zip) NR Femto Node Access Control with CAG (Ericsson LM) pCR

[R3-243607](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243607.zip) On Access Control for NR Femto (China Telecom) discussion

[R3-243393](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243393.zip) Access control and handover for NR Femto with CAG (Lenovo) discussion

[R3-243332](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243332.zip) (TP to TR 38.799) On 5G Femto access control mechanism (CATT) other

[R3-243651](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243651.zip) (TP to TR 38.799) Discussion on access control for NR Femto (Samsung) pCR

[R3-243198](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243198.zip) Xn Gateway in Femto architecture (Charter Communications, Inc) discussion

[R3-243392](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243392.zip) Architecture for NR Femto (Lenovo) discussion

[R3-243650](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243650.zip) (TP to TR 38.799) Discussion on Femto architecture (Samsung) pCR

[R3-243835](file:///C%3A%5CUsers%5C5088196%5CDownloads%5CInbox%5CR3-243835.zip) (TP to TR38.799) for option B of Xn support (Huawei) Other

[R3-243837](file:///C%3A%5CUsers%5C5088196%5CDownloads%5CInbox%5CR3-243837.zip) (TP for TR 38.799) OptionA without Xn gateway (ZTE) Other

[R3-243565](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243565.zip) [TP for TR 38.799] Access to Local Services (Nokia ) other

[R3-243754](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243754.zip) (TP to TR 38.799)Discussion on support of local services (ZTE) discussion

[R3-243232](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243232.zip) Access to local services from the 5G Femto via distributed UPF (Huawei) pCR

[R3-243331](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243331.zip) (TP to TR 38.799) On 5G Femto local service access (CATT) other

[R3-243411](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_124%5CDocs%5CR3-243411.zip) Access to Local Services via Local UPF (Ericsson LM) pCR

**RAN3#125**

[R3-244019](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244019.zip) LS on questions regarding FS\_VMR\_Ph2 (SA2(Samsung)) LS in

[R3-244140](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244140.zip) (draft Reply LS) Discussion on reply LS to SA2 on questions regaring VS\_VMR\_Ph2 (Qualcomm Inc.) other

[R3-244526](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244526.zip) Discussion on the Architecture, access control and QoS mappingsupport of WAB (Huawei) pCR

[R3-244338](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244338.zip) (TP to TR 38.799) Discussion on WAB mobility (Nokia, Nokia Shanghai Bell) other

[R3-244270](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244270.zip) (pCR for TR 38.799): Handling of Reliability and Latency for WAB (Ericsson) pCR

[R3-244118](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244118.zip) (TP to TR 38.799) Discussion on supporting WAB and the reply LS to SA2 (ZTE Corporation) other

[R3-244119](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244119.zip) (TP to TR 38.799) Discussion on WAB mobility (ZTE Corporation) other

[R3-244120](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244120.zip) (TP to TR 38.799) Discussion on other aspects in WAB (ZTE Corporation) other

[R3-244121](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244121.zip) Discussion on Network Selection for WAB (Fraunhofer IIS, Fraunhofer HHI) discussion

[R3-244141](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244141.zip) (TP to TR 38.799) Remaining issues for WAB (Qualcomm Inc.) other

[R3-244142](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244142.zip) (TP to TR 38.799) Conclusion of study on WAB (Qualcomm Inc.) other

[R3-244154](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244154.zip) Discussion on the architecture and mobility for WAB (NEC) discussion

[R3-244231](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244231.zip) (TP to TR 38.799 & draft reply LS) On WAB architecture and authorization (CATT) other

[R3-244232](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244232.zip) (TP to TR 38.799) Discussion on WAB mobility (CATT) other

[R3-244233](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244233.zip) (TP to TR 38.799) Discusson on resource multiplexing for WAB (CATT) other

[R3-244269](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244269.zip) (pCR for TR 38.799): Functional Aspects of WAB-Nodes (Ericsson) pCR

[R3-244271](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244271.zip) Reply to SA2 Questions Regarding UE Access Control and Additional ULI (Ericsson) discussion

[R3-244316](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244316.zip) Discussion on architecture and QoS mapping for WAB (Lenovo) discussion

[R3-244317](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244317.zip) (TP to TR 38.799) Discussion on WAB-gNB migration (Lenovo) other

[R3-244318](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244318.zip) (TP to TR 38.799) Discussion on resource multiplexing for WAB node (Lenovo) other

[R3-244334](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244334.zip) Discussion on enhancements for WAB (CANON Research Centre France) discussion

[R3-244337](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244337.zip) (TP to TR 38.799) Discussion on Xn support for WAB-gNB and Traffic Mapping (Nokia, Nokia Shanghai Bell) other

[R3-244339](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244339.zip) Discussion on SA2 LS (Nokia, Nokia Shanghai Bell) discussion

[R3-244392](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244392.zip) (TP for TR 38.799) Remaining open issues in WAB (LG Electronics) other

[R3-244394](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244394.zip) (TP for TR 38.799) Access control and location information in WAB (LG Electronics) other

[R3-244395](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244395.zip) Reply LS on questions regarding FS\_VMR\_Ph2 (LG Electronics) LS out To: RAN2, SA2 CC:

[R3-244527](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244527.zip) Discussion on WAB mobility and other some remaining issues (Huawei) pCR

[R3-244528](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244528.zip) Discussion on SA2's LS (S2-2407345) on questions regarding FS\_VMR\_Ph2 (Huawei) discussion

[R3-244541](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244541.zip) (TP to TR 38.799) Discussion on support WAB (Samsung) pCR

[R3-244542](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244542.zip) Discussion on WAB mobility (Samsung) discussion

[R3-244543](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244543.zip) (draft Reply LS) Discussion on LS for VMR from SA2 (Samsung) discussion

[R3-244562](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244562.zip) On WAB Awareness and Authorization (China Telecom) discussion

[R3-244563](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244563.zip) On Xn Connection Management (China Telecom) discussion

[R3-244631](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244631.zip) Discussion on Wireless Access Backhaul (NTT DOCOMO INC.) discussion

[R3-244701](file:///C%3A%5CUsers%5C5088196%5CAppData%5CLocal%5CTemp%5Ce710c924-e8b2-4f5f-8585-a87e6fa9ce2b_RP-241263.zip.e2b%5CInbox%5CR3-244701.zip) Summary of Offline Discussion on additional topological enhancement (NTT Docomo) Discussion

[R3-244012](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244012.zip) Reply LS on Support of UE move between CAG cell of 5G Femto and CSG cell (RAN2(LGE)) LS in

[R3-244415](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244415.zip) Answer to SA2 LS on UE Move between CAG cell and CSG cell (Nokia ) discussion

[R3-244167](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244167.zip) (Draft reply LS) Mobility between CAG cell and CSG cell (NEC) discussion

[R3-244143](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244143.zip) (draft Reply LS) Discussion on reply LS to SA2 on Support of UE move between CAG cell of 5G Femto and CSG cell (Qualcomm Inc.) other

[R3-244369](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244369.zip) (Non-Opinionated) Analysis of CAG-CSG Mobility Support (Ericsson, NTT Docomo, Huawei, ZTE, LG Electronics Inc., Deutsche Telekom) discussion

[R3-244319](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244319.zip) Discussion on interworking between CAG and CSG cells (Lenovo) discussion

[R3-244258](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244258.zip) (TP to TR 38.799) On Access Control and Mobility for NR Femto (China Telecom) other

[R3-244320](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244320.zip) (TP to TR 38.799) Access control and handover for NR Femto with CAG (Lenovo) other

[R3-244545](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244545.zip) (TP to TR 38.799) Discussion on access control and handover for NR Femto (Samsung) pCR

[R3-244171](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244171.zip) (TP to TR 38.799)Discussion on architecture and access control of NR Femto (ZTE Corporation) discussion

[R3-244371](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244371.zip) NR Femto Node Access Control with CAG (Ericsson) pCR

[R3-244590](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244590.zip) Discussion on access control for 5G Femto with CAG (CMCC) discussion

[R3-244416](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244416.zip) [TP for TR 38.799] Temporary Access Control for NR Femtos and Mobility (Nokia ) other

[R3-244236](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244236.zip) (TP to TR 38.799) On 5G Femto access control mechanism (CATT) other

[R3-244321](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244321.zip) Local services for NR Femto via collocated local UPF (Lenovo) discussion

[R3-244172](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244172.zip) (TP to TR 38.799)Discussion on support of local services (ZTE Corporation) discussion

[R3-244101](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244101.zip) (TP for TR 38.799) Access to local services from the 5G Femto via distributed UPF (Huawei) other

[R3-244144](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244144.zip) Support of local services with UPF at NR Femto (Qualcomm Inc.) discussion

[R3-244259](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244259.zip) (TP to TR 38.799) On local service access for NR Femto (China Telecom) other

[R3-244530](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244530.zip) Discussion on the access control for NR Femto (Huawei) pCR

[R3-244372](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244372.zip) Access to Local Services via Local UPF (Ericsson) pCR

[R3-244419](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244419.zip) [TP for TR 38.799] Access to Local Services (Nokia ) other

[R3-244414](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244414.zip) [TP for TR 38.799] Conclusion on NR Femto Architecture Options (Nokia, TMO US, AT&T, Verizon Wireless, British Telekom, NTT Docomo, KDDI, Charter) other

[R3-244173](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244173.zip) (TP for TR 38.799)Evaluation of NR Femto Architecture Options (ZTE Corporation) discussion

[R3-244202](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244202.zip) (TP to TR 38.799) Proposals on NR Femto Architecture (Baicells) discussion

[R3-244544](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244544.zip) (TP to TR 38.799) Discussion on Femto architecture (Samsung) pCR

[R3-244234](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244234.zip) (TP to TR 38.799) Discussion on 5G Femto architecture (CATT) other

[R3-244370](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244370.zip) Discussion and Potential Conclusions for NR Femto (Ericsson) pCR

[R3-244589](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244589.zip) Discussion on 5G Femto architecture (CMCC) discussion

[R3-244529](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244529.zip) Discussion on the architecture for NR Femto (Huawei) pCR

[R3-244632](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244632.zip) Discussion on 5G Femto (NTT DOCOMO INC.) discussion

[R3-244145](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244145.zip) Conclusion of study on NR Femto (Qualcomm Inc.) discussion

[R3-244168](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244168.zip) NR femto (NEC) discussion

[R3-244396](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244396.zip) (TP for TR 38.799) Remaining open issues in 5G Femto (LG Electronics) other

[R3-244235](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244235.zip) (TP to TR 38.799) On 5G Femto local service access (CATT) other

[R3-244591](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244591.zip) Draft Reply LS to request clarification on the potential baseline system architecture of 5G NR Femto (CMCC) LS out To: SA3 CC: SA2

R3-244712 (TP for TR 38.799) Access to Local Services – Text Proposal (Ericsson)

R3-244710 (TP for TR 38.799) Conclusion and Recommendation of NR Femto Study (Nokia)

 16.02.2024 minor adaptations for RAN #103

 10.11.2023 minor adaptations for RAN #102

 02.08.2023 minor adaptations for RAN #101

 26.04.2023 minor adaptations for RAN #100

 01.02.2023 minor adaptations for RAN #99

 27.10.2022 minor adaptations for RAN #98e

 01.08.2022 minor adaptations for RAN #97e

 21.05.2022 minor adaptations for RAN #96

 10.01.2022 minor adaptations for RAN #95e

 04.10.2021 minor adaptations for RAN #94e

 08.08.2021 minor adaptations for RAN #93e

 17.05.2021 minor adaptations for RAN #92e

 28.01.2021 minor adaptations for RAN #91e

 09.11.2020 minor adaptations for RAN #90e

 31.08.2020 minor adaptations for RAN #89e

 20.04.2020 minor adaptations for RAN #88e

 18.02.2020 minor adaptations for RAN #87e

 14.11.2019 minor adaptations for RAN #86

 18.08.2019 minor adaptations for RAN #85

 12.05.2019 minor adaptations for RAN #84

 27.02.2019 minor adaptations for RAN #83

 21.11.2018 completion levels with colours added (for RAN #82)

v04.81 31.07.2018 simplification of template and addition of cross-TSG aspects (for RAN #81)

v04.80 21.05.2018 minor adaptations for RAN #80

v04.79 26.02.2018 minor adaptations for RAN #79

v04.78 18.11.2017 minor adaptations for RAN #78

v04.77 06.08.2017 minor adaptations for RAN #77

v04.76 15.05.2017 minor adaptations for RAN #76

v04.75 31.01.2017 minor adaptations for RAN #75

v04.74 28.10.2016 minor adaptations for RAN #74

v04.73 01.09.2016 adaptations for RAN #73 (time units in extra Excel table, RAN6 reporting included)

v04.72 26.05.2016 adaptations for RAN #72 (introduction of NR & GERAN TUs)

v04.71 10.02.2016 minor adaptations for RAN #71

v04.70 30.10.2015 minor adaptations for RAN #70

v04.69 12.08.2015 minor adaptations for RAN #69

v04.68 21.05.2015 minor adaptations for RAN #68

v04.67 01.02.2015 minor adaptations for RAN #67

v04.66 16.11.2014 minor adaptations for RAN #66

v04.65 16.08.2014 minor adaptations for RAN #65

v04.64 22.05.2014 minor adaptations for RAN #64

v04.63 24.01.2014 restructuring for RAN #63 to cover Core & Perf. in one doc file

v03.62 11.11.2013 section 1.2.3 adapted for RAN #62

v03 11.08.2013 section 1.2.3 added on time budget

v02 07.05.2010 history added, some spelling corrections

v01 13.11.2009 First version of the template