**Agreements from RAN3#108e**

|  |  |  |
| --- | --- | --- |
| [R3-203002](docs%5CR3-203002.zip) | BL CR to 38.423: Support for IAB (Samsung) | CR0223r5, TS 38.423 v16.1.0, Rel-16, Cat. B **Endorsed as BL** |
| [R3-203003](docs%5CR3-203003.zip) | BL CR to 38.463: Support for IAB (Huawei) | CR0162r5, TS 38.463 v16.1.1, Rel-16, Cat. B **Endorsed as BL** |
| [R3-203004](docs%5CR3-203004.zip) | BL CR to 36.413: Support for IAB (Huawei) | CR1661r12, TS 36.413 v16.1.0, Rel-16, Cat. B **Endorsed as BL** |
| [R3-203005](docs%5CR3-203005.zip) | BL CR to 38.413: Support for IAB (Nokia, Nokia Shanghai Bell) | CR0063r12, TS 38.413 v16.1.0, Rel-16, Cat. B **Endorsed as BL** |
| [R3-203018](docs%5CR3-203018.zip) | Support for IAB (Nokia, Nokia Shanghai Bell) | CR0007r3, TS 38.474 v15.3.0, Rel-16, Cat. B **Endorsed as BL**  |
| [R3-203036](docs%5CR3-203036.zip) | BL CR to 36.420: Support for IAB (Samsung) | CR0020r2, TS 36.420 v15.2.0, Rel-16, Cat. B **Endorsed as BL** |
| [R3-203037](docs%5CR3-203037.zip) | BL CR to 38.425: Support for IAB (Samsung) | CR0103r6, TS 38.425 v16.0.0, Rel-16, Cat. B **Endorsed as BL** |
| [R3-203066](docs%5CR3-203066.zip) | BL CR to 36.423: Support for IAB (Samsung) | CR1303r14, TS 36.423 v16.1.0, Rel-16, Cat. B **Endorsed as BL** |
| [R3-203067](docs%5CR3-203067.zip) | BL CR to 38.401 Support for IAB (Huawei) | CR0033r20, TS 38.401 v16.1.0, Rel-16, Cat. B**Endorsed as BL****A number of issues need to be addressed at this meeting****Chair: suggest to continue discussing this through e.g. new TP in CB 3** |
| [R3-203068](docs%5CR3-203068.zip) | BL CR to 38.470: Support for IAB (Ericsson) | CR0026r14, TS 38.470 v16.1.0, Rel-16, Cat. B **Endorsed as BL** |
| [R3-203069](docs%5CR3-203069.zip) | BL CR to 38.473: Support for IAB (Ericsson) | CR0285r16, TS 38.473 v16.1.0, Rel-16, Cat. B **Endorsed as BL** |

**# 2\_IAB-DU\_features\_and\_PHY\_parameters**

**- note LS**

**ZTE:**

**- In Rel-15, capability coordination between gNB-DU and gNB-CU is implemented via OAM or configuration, which means gNB-DU doesn’t need to indicate its capability to gNB-CU (ZTE)**

**- Capability coordination between IAB-DU and donor-CU could be implemented via OAM or configuration and no capability signaling needs to be introduced for the IAB-DU features (ZTE)**

**- No need for spec change / no need for reply?**

**AT&T:**

**The following IAB-DU features are mandatory to support as part of the minimum capability set:**

**- Inter-IAB-node discovery and measurements: SSB transmission configuration: support up to 4 STCs configured for an IAB-DU per cell per frequency location, including IAB-specific SSB transmission periodicities.**

**- Extension of RACH occasions and periodicities for backhaul RACH resources: support RACH configuration separately from the RACH configuration for UE access, including new IAB-specific offset and scaling factors.**

**- IAB-DU resource configuration: per-cell D/U/F resource type configuration + H/S/NA attributes per-resource type.**

**The following IAB-DU features are optional to support and capability signaling is introduced to indicate whether the corresponding feature is supported by an IAB-DU of a given IAB node.**

**- IAB-node non-TDM multiplexing capability: TDM not required between IAB-MT and IAB-DU functions.**

**- UL-Flexible-DL slot formats: support semi-static and dynamic configuration/indication of UL-Flexible-DL slot formats for IAB-DU resources.**

**- Dynamic indication of soft resource availability: support DCI Format 2\_5 based indication of soft resource availability to an IAB-node.**

**- Insertion of guard symbols by the IAB-DU.**

**ZTE,HW (Parameters config)**

**- F1AP signaling needs to be enhanced to support DU resource configuration for paired spectrum? Merge/revise as needed; check details**

(ZTE - moderator)

[R3-204306](Inbox%5CR3-204306.zip) **Agreed**

**IAB Rapporteur: Captures st3 DU resource configuration for FDD in 38473**

**IAB-DU capabilities are not exchanged between IAB-DU/IAB-donor-DU and IAB-donor-CU via F1 interface.**

**In Rel-16, how the donor-CU and/or parent node are aware of the appropriate capabilities of a given child IAB-DU is left up to network implementation (e.g. via OAM)**

**F1AP signaling needs to be enhanced to support DU resource configuration for paired spectrum, and the CHOICE structure is used to capture the configuration.**

**Make the CSI-RS and SR configurations optional in the cell-specific signals/channels configurations so that they do not have to be configured if signaling storm becomes a concern.**

**# 3\_IAB\_optE-RAB\_setup-relatedIEs**

[R3-204381](file:///C%3A%5CUsers%5Cghampel%5CAppData%5CLocal%5CTemp%5CTemp2_RAN3_108-e_agenda_with_Tdocs_20200611_EOM2.zip%5CInbox%5CR3-204381.zip) **Agreed unseen**

**IAB Rapporteur: Minor st2 correction to topology adaptation on DRB optionality for SA in 38401**

**DRB setup is optional for NR SA since Rel-15; E-RAB setup is mandatory in LTE since Rel-8**

**For DRB-free operation, HO aspects are out of Rel-16 scope; change introduced to NGAP/XnAP/S1AP/X2AP HO procedures in Rel-16 are only related to nomadic operation (i.e. detach from network, then move, then reattach to network)**

**Common understanding that spec text applies to IAB unless otherwise stated**

**SRB setup is mandatory**

**IAB MT feature support is a different issue w.r.t. optional/mandatory UP setup by the network**

**Common understanding is that UP setup at IAB MT is optional**

**# 4\_IAB\_BarredCell**

**- IAB donor CU can send IAB node barred information to the IAB-DU or IAB donor DU?**

**- IAB barred information can be exchanged over X2/Xn?**

(SS - moderator)

[R3-204088](Inbox%5CR3-204088.zip) **Agreed**

**IAB Rapporteur: Captures st3 IAB cell barring indication from CU to DU in IAB 38473**

**IAB donor CU can send IAB node barred information to the IAB-DU or IAB donor DU**

**IAB barred information exchange over X2/Xn is not supported in this release.**

**# 6\_IAB\_bearer\_mapping**

**Nok,HW:**

**- For Multiple Egress BH RLC CHs to be used for local rerouting in case of RLF, new Egress BH RLC CH List IE is added in Donor DU BH RLC channel mapping Information IE; no need to add it in the Intermediate IAB DU BH RLC channel mapping Information IE, since the intermediate IAB node is always allowed to configure the mapping from one ingress BH RLC CH to multiple BH RLC CH, e.g. for different traffic; Add related gNB-DU behavior text?**

**QC:**

**- Agree WA from last meeting; Include DL BH traffic mapping IEs and BH RLC channel mapping IEs into the BH ROUTING CONFIGURATION message and rename this message to BAP CONFIGURATION message; Same IEs to be used for DL BH traffic mappings and BH RLC channel mappings, respectively, if delivered via UE-associated or non-UE-associated message; To-be-added lists and to-be-removed lists to be used for DL BH traffic mappings and BH RLC channel mappings. UL BH Information IE to be also used for DL traffic mapping and to be renamed to BH Information IE?**

**SS:**

**- to support local re-routing, each ingress link can be configured with an additional IE including the additional egress links.**

**- mapping information contained in UE-associated F1AP and non-UE-associated F1AP should be clearly clarified as:**

**In UE-associated F1AP, the egress BH RLC CH ID and next-hop BAP address are not needed for bearer mapping configuration at IAB donor DU**

**In UE-associated F1AP, either prior-hop BAP address and ingress BH RLC CH ID or next-hop BAP address and egress BH RLC CH ID are included for bearer mapping configuration at intermediate IAB node**

**In UE-associated F1AP, the include ingress/egress BH RLC CH ID is referring to the BH RLC CH served by the collocated IAB-MT for bearer mapping configuration at the intermediate IAB node**

**- each mapping information is assigned an index, which is unique in a donor DU or intermediate IAB node.**

**- the following settings can be applied for bearer mapping configuration:**

**Max no of aggregated traffic = 2^20**

**Mapping information Index: 20 bits**

**Max no of DS information = 16**

**Max no of additional egress links =5**

**ZTE,SC**

**- for F1AP procedure to configure the DL mapping in the Donor-DU and to configure the UL/DL mapping in the intermediate IAB, both UE-Associated F1AP procedure and non-UE-Associated F1AP procedures are supported and it is up to donor-CU implementation to decide which one to use.**

**- A new class-1 non-UE-associated signaling should be defined to configure mapping rules to donor-DU and intermediate node. To be specific, the configuration information includes:**

**To execute the DL traffic mapping, the following information is needed in the Donor-DU:**

**- Destination IP address**

**- IPv6 Flow Label**

**- List of DSCP**

**- BAP Routing ID**

**- List of Next-hop BAP address and corresponding Egress BH RLC Channel ID**

**To execute the UL and DL traffic mapping, the following information is needed in the intermediate IAB:**

**- Prior-hop BAP address**

**- Ingress BH RLC CH ID**

**- List of Next-hop BAP address**

**- List of Next-hop BAP address and corresponding Egress BH RLC Channel ID**

(Nok - moderator)

[R3-204382](file:///C%3A%5CUsers%5Cghampel%5CAppData%5CLocal%5CTemp%5CTemp2_RAN3_108-e_agenda_with_Tdocs_20200611_EOM2.zip%5CInbox%5CR3-204382.zip) **Agreed unseen**

**IAB Rapporteur: Captures on St2 that DL mapping configuration with full IP address takes precedence over one with prefix in 38401.**

**maxnoofEgressLinks = 2**

**use Mapping Information Index to reference the mapping configuration**

[R3-204244](file:///C%3A%5CUsers%5Cghampel%5CAppData%5CLocal%5CTemp%5CTemp2_RAN3_108-e_agenda_with_Tdocs_20200611_EOM2.zip%5CInbox%5CR3-204244.zip) **Agreed**

**IAB Rapporteur: Captures St2 traffic mapping from IP layer to L2 at IAB-donor-DU and RLC channel mapping at intermediate IAB node in 38401.**

[R3-204245](file:///C%3A%5CUsers%5Cghampel%5CAppData%5CLocal%5CTemp%5CTemp2_RAN3_108-e_agenda_with_Tdocs_20200611_EOM2.zip%5CInbox%5CR3-204245.zip) **Agreed**

**IAB Rapporteur: Captures St3 traffic mapping from IP layer to L2 at IAB-donor-DU and RLC channel mapping at intermediate IAB node in 38473.**

**For F1AP procedure to configure the DL mapping in the Donor-DU, and to configure the UL/DL mapping in the intermediate IAB, the UE-Associated F1AP procedure is used when the BH RLC CH is impacted (e.g. add a new BH RLC CH, or modify an existing BH RLC CH), and Non-UE-Associated F1AP procedure is used otherwise; when to use UA and NUA procedures (including e.g. the avoidance of concurrent usage) shall be fully described in st2 and st3 as necessary**

**in principle, use same IE (i.e. To Add IE and To Remove IE) for UA and NUA signaling**

**modify existing F1AP BH Routing Configuration procedure also for BH RLC Channel mapping configuration**

**No need to add Additional Egress BH RLC CH information**

**- Max no of mapping entries: 2^26**

**- Max no of DS information: 64**

**# 7\_IAB\_BH\_misc\_cleanups**

**- merge/revise if needed; check details**

**- st2 issues (QC)**

**- “F1-C can support multiple UL mappings (both non-UE and UE associated)” to be turned into agreement if no objections**

(HW - moderator)

[R3-204248](Inbox%5CR3-204248.zip) (HW) **Agreed**

**IAB Rapporteur: Captures St3 minor corrections to 38473.**

[R3-204249](Inbox%5CR3-204249.zip) 38.300 TP (QC) **Agreed**

**IAB Rapporteur: Captures St2 update to UL mapping to 38300. Already integrated into RAN2 update to 38300.**

**Max # of non-UP traffic mapping: 32**

**Keep the presence of Non-UP Traffic Type IE as it is.**

**BAP address update for IAB node and IAB donor DU is not supported in R16.**

**Two following cause values are defined for BH RLC CH in F1AP:**

**- Multiple BH RLC CH ID Instances**

**- Unknown BH RLC CH ID**

**Delete the semantics description for Uplink BH Non-UP Traffic Mapping IE, and correct the “rach-ConfigCommon” to be “rach-ConfigCommonIAB-r16”.**

**SCTP multi-homing can be supported by IAB node with connection to one or multiple IAB donor DUs.**

**To support SCTP multi-homing, multiple UL BH Information IEs can be configured to same F1-C traffic, including UE-associated F1AP and non-UE-associated F1AP.**

**If more than one UL BH Information is configured to a given F1-C traffic, it is up to IAB node implementation to select a suitable one for transmitting the corresponding UL F1-C traffic.**

 **# 8\_IAB\_MT\_INACTIVE**

**HW:**

**- When IAB-MT enters inactive state, the operation on the air interface of the collocated IAB-DU needs to be discussed, e.g. switch off or enter dormant/DTX mode, in future release**

**- In Rel-16, the IAB-DU can release the F1 interface if IAB-MT enters RRC inactive, some enhanced solution may be studied in future release**

**E///:**

**- SCTP fault management mechanisms are suspended when the IAB-MT is in the RRC INACTIVE state**

(E/// - moderator)

**The IAB-MT optionally supports the RRC INACTIVE state. Upon the IAB-MT entering the RRC INACTIVE state, it is up to implementation whether to keep or to release the F1 connection of the collocated IAB-DU.**

[R3-204322](file:///C%3A%5CUsers%5Cghampel%5CAppData%5CLocal%5CTemp%5CTemp2_RAN3_108-e_agenda_with_Tdocs_20200611_EOM2.zip%5CInbox%5CR3-204322.zip) **Agreed unseen**

**IAB Rapporteur: Captures St2 for RRC INACTIVE in 38401.**

**Attempt st2 text to capture the fact that certain functionality will need to be impacted through implementation (e.g. SCTP connection fault mgmt., IPsec keep-alive, F1AP config, BAP config, …)**

**# 9\_IAB\_IPaddr\_alloc\_SA**

**SS:**

**- clarify the sending time of UL RRC message about the IP addresses received from OAM**

**- Opt1: left to implementation, i.e., the IAB donor CU can figure out the associated donor DU of each IP address, e.g., the IP addresses associated with each Donor DU have a specific range**

**- Opt2: IAB node notifies the associated SpCell or Cell group of each IP address in the UL RRC message. This requires that the OAM needs configure the correspondence between IP address and the cell**

**- if Opt2 is selected, additional enhancement to UL RRC message is needed**

**- clarify that absence of IAB TNL Address Usage IE indicates the IP addresses in IAB TNL Address IE can be used for all traffic?**

(SS - moderator)

[R3-204079](Inbox%5CR3-204079.zip) F1AP TP **Agreed**

**IAB Rapporteur: Captures St3 fixes to IP address allocation between CU and IAB-donor-DU in 38473.**

**Further details can be addressed when integrating into BL CR**

**# 10\_IAB\_DCoperation**

**ZTE:**

**- It is up to IAB-node implementation to decide which option is used for IP address assignment for F1-C over LTE leg**

**QC:**

**- IAB-donor informs the IAB-node via RRC signaling if only LTE leg, only NR leg, or both LTE leg and NR leg can be used for F1-C. (QC,HW but HW does not consider the case where both are configured)**

**- IAB-donor sends its IP address for the X2/LTE path to the IAB-node via RRC?**

**- Liaise RAN2**

**HW:**

**- For OAM-based IP address assignment, IAB-node only informs the IAB-donor-CU of the IAB-node’s IP addresses for NR leg.**

**- If RAN2 allows to use a new RRC message for IP address request/report from/to the IAB-donor-CU via LTE leg+X2 interface in NSA case, how to transmit this message over X2 interface needs to be clarified by RAN3, e.g. to modify RRC Transfer message or define a new X2AP message.**

**SS:**

**- OAM based method is used for the IP address allocation for F1-C over LTE leg**

**Nok:**

**- Do not support configuring both LTE leg and NR leg for F1-C. (+HW?)**

**- Capture in st2: It is up to Donor-CU to decide to only configure LTE leg, or only configure NR leg, for F1-C.**

**- link local IP address is used for F1-C over LTE leg.**

**- IAB determines its link local IP address to be used for F1-C over LTE leg.**

**- how the IAB knows the link local IP address(es) of the IAB-donor-CU is outside of RAN3 specs.**

(Nok - moderator)

**For F1-C traffic transfer for NSA IAB, the LTE leg and NR leg should use separate IP address pairs {IAB-DU’s IP address, IAB-donor-CU’s IP address}. How the IAB-DU gets the remote IP end point(s) and its own IP address for LTE leg is not specified in this release.**

**The IAB-donor-CU decides to only configure LTE leg, or only configure NR leg, or configure both LTE leg and NR leg, to be used for F1-C traffic transfer. The configuration may be performed before IAB-DU part setup. IAB-donor-CU may also change the configuration after IAB-DU part setup. In case the configuration is not performed before IAB-DU part setup, the IAB node uses the NR leg as the default one. When both LTE leg and NR leg are configured, it is up to the implementation to select the leg for F1-C traffic transfer.**

**Introduce a new X2AP IE (sent from MeNB to en-gNB) for IP address request/report.**

[R3-204246](Inbox%5CR3-204246.zip) **Agreed**

**IAB Rapporteur: Captures St2 indication by IAB-donor for F1-C over LTE/NR/both and IP address usage in 38401.**

[R3-204247](Inbox%5CR3-204247.zip) X2AP TP (HW) **Agreed**

**IAB Rapporteur: Captures St3 RRC signaling between MeNB and IAB-donor-CU for IP address transfer. Not clear what we actually need this for.**

[R3-204165](file:///C%3A%5CUsers%5Cghampel%5CAppData%5CLocal%5CTemp%5CTemp2_RAN3_108-e_agenda_with_Tdocs_20200611_EOM2.zip%5CInbox%5CR3-204165.zip) **Agreed unseen**

**IAB Rapporteur: LS to RAN2 on IAB-donor’s indication to IAB-node on F1-C over LTE/NR/both and IP address usage.**

**# 11\_IAB\_migration\_functions**

**HW:**

**- capture the RAN2 agreements about IAB node orderly release in stage 2 spec.**

**- clarify in st2 that IAB-donor-CU providing the updated default BAP UL mapping configuration for descendent nodes of the migrating IAB node via RRCReconfiguration message.**

**- Add st2 description about the default BAP UL mapping configuration via RRC for the BH RLF recovery procedure in clause 8.2.z of the BL CR for TS38.401.**

**- Exchange the order of the last two sentences in step 11 of clause 8.2.x.1.**

**Intel:**

**- In step 12 of the intra-CU topological redundancy procedure, RAN3 to remove the condition of new TNL address allocation, so that migrating an F1-U tunnel can be done even if both paths share the same IAB-donor-DU**

(Intel - moderator)

[R3-204250](Inbox%5CR3-204250.zip) **Agreed**

**IAB Rapporteur: Capture St2 on default-UL-mapping during topology adaptation in 38401.**

**# 12\_IAB\_migration\_same\_donor**

**- st2 issues: ZTE,QC**

**- E1 issues: CATT,SS,HW,Nok**

**ZTE:**

**- a new class-1 non-UE-associated F1AP procedure is defined to update UL FTEID, UL BH Info and DL FTEID for UP traffic.**

**- UL TEID can be carried in the new F1AP message from gNB-CU to IAB-DU.**

**- UL BH Information should be carried in the new F1AP message from gNB-CU to IAB-DU.**

**- DL FTEID can be carried in the new F1AP message from IAB-DU to gNB-CU.**

**CATT:**

**- turn the WA into agreement that new class-1 non-UE associated E1AP procedure is defined for donor-CU-CP to inform donor-CU-UP to update the DL UP TNL Information for multiple UEs and child IAB-MTs.**

**- Only need to update the Transport Layer Address(es) of the TNL Information, TEID could be kept unchanged.**

**- No need to define new class-1 F1AP message for donor-CU-CP to inform IAB-DU to update UL FTEID, UL BH Info and DL FTEID for UP traffic, UE Context Modification procedure could be reused.**

**SS:**

**- turn the two WAs into agreements**

**t- he DL IP address update can be determined by either IAB node or IAB donor CU-CP, and for each DL IP address, the update information includes the old DL IP address and new DL IP address**

**- to update the UL UP information, the IAB donor CU can provide the following information to IAB node:**

**UL IP address update list**

**BAP routing ID update**

**Next-hop BAP address update list**

**Per-tunnel update information list**

**…Where Per-tunnel update information list takes the precedence to other information.**

**- over F1 interface, the UP information update procedure includes the following signalling:**

**UP Information Update: contain UL UP information update as indicated in Proposal 3**

**UP Information Update ACK: contain DL IP address update**

**- over E1 interface, the UP information update procedure includes the following signaling:**

**UP information update: contain gNB-DU ID of IAB node and DL IP address update**

**UP information update ACK: contain UL UP information updates, i.e., UL IP address update list, and Per-tunnel update information list**

**HW,Nok:**

**- introduce a new class-1 non-UE associated E1AP procedure for donor-CU-CP to inform donor-CU-UP about the updated the DL UP TNL Information.**

**- With the new class-1 non-UE associated E1AP procedure, the IAB-donor-CU-CP will include pair(s) of TNL addresses in the request message to the IAB-donor-CU-UP, where each pair includes a new TNL address of IAB-DU and an old IP address of IAB-DU.**

**HW, BAP config:**

**- introduce a new class-1 non-UE-associated F1AP procedure, for the DL TNL information update and F1-U UL mapping configuration update during IAB migration procedure; its contents should be:**

**IAB-donor-CU→ IAB-DU: list of {UL UP TNL Information, UL BH Information}**

**IAB-DU→ IAB-donor-CU: list of {new IP address for F1-U, old IP address for F1-U}**

(HW)

**# 12\_IAB\_migration\_same\_donor**

**- st2 issues: ZTE,QC**

**- E1 issues: CATT,SS,HW,Nok**

**ZTE:**

**- a new class-1 non-UE-associated F1AP procedure is defined to update UL FTEID, UL BH Info and DL FTEID for UP traffic.**

**- UL TEID can be carried in the new F1AP message from gNB-CU to IAB-DU.**

**- UL BH Information should be carried in the new F1AP message from gNB-CU to IAB-DU.**

**- DL FTEID can be carried in the new F1AP message from IAB-DU to gNB-CU.**

**CATT:**

**- turn the WA into agreement that new class-1 non-UE associated E1AP procedure is defined for donor-CU-CP to inform donor-CU-UP to update the DL UP TNL Information for multiple UEs and child IAB-MTs.**

**- Only need to update the Transport Layer Address(es) of the TNL Information, TEID could be kept unchanged.**

**- No need to define new class-1 F1AP message for donor-CU-CP to inform IAB-DU to update UL FTEID, UL BH Info and DL FTEID for UP traffic, UE Context Modification procedure could be reused.**

**SS:**

**- turn the two WAs into agreements**

**t- he DL IP address update can be determined by either IAB node or IAB donor CU-CP, and for each DL IP address, the update information includes the old DL IP address and new DL IP address**

**- to update the UL UP information, the IAB donor CU can provide the following information to IAB node:**

**UL IP address update list**

**BAP routing ID update**

**Next-hop BAP address update list**

**Per-tunnel update information list**

**…Where Per-tunnel update information list takes the precedence to other information.**

**- over F1 interface, the UP information update procedure includes the following signalling:**

**UP Information Update: contain UL UP information update as indicated in Proposal 3**

**UP Information Update ACK: contain DL IP address update**

**- over E1 interface, the UP information update procedure includes the following signaling:**

**UP information update: contain gNB-DU ID of IAB node and DL IP address update**

**UP information update ACK: contain UL UP information updates, i.e., UL IP address update list, and Per-tunnel update information list**

**HW,Nok:**

**- introduce a new class-1 non-UE associated E1AP procedure for donor-CU-CP to inform donor-CU-UP about the updated the DL UP TNL Information.**

**- With the new class-1 non-UE associated E1AP procedure, the IAB-donor-CU-CP will include pair(s) of TNL addresses in the request message to the IAB-donor-CU-UP, where each pair includes a new TNL address of IAB-DU and an old IP address of IAB-DU.**

**HW, BAP config:**

**- introduce a new class-1 non-UE-associated F1AP procedure, for the DL TNL information update and F1-U UL mapping configuration update during IAB migration procedure; its contents should be:**

**IAB-donor-CU→ IAB-DU: list of {UL UP TNL Information, UL BH Information}**

**IAB-DU→ IAB-donor-CU: list of {new IP address for F1-U, old IP address for F1-U}**

(HW)

[R3-204251](file:///C%3A%5Ctemporary%5CRAN3%5CRAN3%20May%2020%5Coutcome%5CInbox%5CR3-204251.zip) **Agreed**

**IAB Rapporteur: Capture St2 on new non-UE-association F1-C message for group update of IP addresses and UL mapping after topology adaptation in 38401**

[R3-204384](file:///C%3A%5Ctemporary%5CRAN3%5CRAN3%20May%2020%5Coutcome%5CInbox%5CR3-204384.zip) **Agreed unseen**

**IAB Rapporteur: Capture St3 on new non-UE-association E1-C message for group update of IP addresses and UL mapping after topology adaptation in 38463.**

[R3-204383](file:///C%3A%5Ctemporary%5CRAN3%5CRAN3%20May%2020%5Coutcome%5CInbox%5CR3-204383.zip) **Agreed unseen**

**IAB Rapporteur: Capture St3 on new non-UE-association F1-C message for group update of IP addresses and UL mapping after topology adaptation in 38473.**

**F1/E1 group signaling uses an NUA F1AP/E1AP message since it may include information updates affecting multiple UEs.**

**The F1/E1 group signaling message can be used for IAB node migration/RLF recovery to same or different donor-DU as well as same or different CU-UP/SeGW**

**Selected IEs in the F1/E1 group signaling message can be kept optional to allow optimization of migration/RLF recovery scenarios without CU-UP/SeGW change or underneath same donor DU**

**The F1/E1 group signaling can be used to update DL IP addresses for IAB node migration/ RLF recovery to different donor-DUs**

**Optional IEs contains the following contents are included in the messages for NUA F1AP/ E1AP procedures:**

 **IAB-donor-CU-> IAB-DU:**

**- list of {new UL UP TNL Information, old UL UP TNL Information, UL BH Information }**

**- list of {new UL UP TNL address, old UL UP TNL address}**

**IAB-DU-> IAB-donor-CU:**

**- list of { new DL UP TNL address, old DL UP TNL address }**

**CU-CP->CU-UP:**

**- list of {new DL UP TNL address, old DL UP TNL address}**

**CU-UP->CU-CP:**

**- list of {new UL UP TNL address, old UL UP TNL address}**

**Introduce the following cause value for the New E1AP/F1AP procedure:**

**- F1AP：“Unknown UP TNL information”, “Unknown TNL address”**

**- E1AP：“Unknown TNL address”**

**Whether to include gNB-DU ID in E1AP procedure: To be continued as Rel-16 correction...**

**Chairman’s notes color coding**

|  |  |  |
| --- | --- | --- |
| R3-xxxxxx | Available but not yet treated document  | Chairman notes |
| R3-xxxxxx | This document has low priority |  |
| R3-xxxxxx | This document was not available at submission deadline | Chairman notes |
| R3-xxxxxx | The quota for at least one of the sourcing companies was exceeded in this AI. This document is to be considered withdrawn and will not be treated. | Chairman notes |
| R3-xxxxxx | This document was treated at this meeting and a decision has been made | Chairman notes |
| R3-xxxxxx | Agreed (or approved) proposal: e.g. Working Assumption, tdoc proposal, etc... | Chairman notes**Approved –** used for Report and Agenda**Agreed** **–** used for CR to be sent to RAN or LS out**p-Approved** (partially approved) **–** used for BL CR or TR subject to tdoc allocation by MCC for next meeting**Merged** **–** used for a tdoc agreed to be merge in a BL CR or TR**Endorsed** **–** used for CR to be agreed by other WG e.g. TS 36.300 or Draft Status Report (DSR) produced in meeting |
| R3-xxxxxx | Request for ComeBack (CB) during the meeting  | Chairman notes **a Come Back is required during the meeting****CB # n\_FolderName****- comments** (Company Owner) |
| R3-xxxxxx | E-mail discussion set up by the Chairman before an e-meeting  | Chairman notes **Discussion to be handled via e-mail during the e-meeting****CB # n\_Emailnnn-FolderName****- comments** (Company Owner) |
| R3-xxxxxx | Open issue which might require further clarification in next meeting | Chairman notes**Comments (no agreement)** |
| R3-xxxxxx | E-mail discussion (typically after the meeting) | Chairman notes**Email#01**Deadline (Company)  |
| R3-xxxxxx |  “To be continued” discussion: there was no agreement at this meeting and the discussion may continue at the next meeting | Chairman notes**To be continued** |
| R3-xxxxxx | Important warning for consideration | Chairman notes**Important warning for consideration** |