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In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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Foreword

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- x the first digit:
 - 1 presented to TSG for information;
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 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

In the present document, certain modal verbs have the following meanings:

shall indicates a mandatory requirement to do something

shall not indicates an interdiction (prohibition) to do something

NOTE 1: The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

NOTE 2: The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

should indicates a recommendation to do something

should not indicates a recommendation not to do something

may indicates permission to do something

need not indicates permission not to do something

NOTE 3: The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

can indicates that something is possible

cannot indicates that something is impossible

NOTE 4: The constructions "can" and "cannot" shall not to be used as substitutes for "may" and "need not".

will indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

will not indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

might indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

might not indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

In addition:

is (or any other verb in the indicative mood) indicates a statement of fact

is not (or any other negative verb in the indicative mood) indicates a statement of fact

NOTE 5: The constructions "is" and "is not" do not indicate requirements.

1 Scope

The present document provides description of the Backhaul Adaptation Protocol (BAP).

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 38.300: "NG Radio Access Network; Overall description".
- [3] 3GPP TS 38.331: "NR Radio Resource Control (RRC); Protocol Specification".
- [4] 3GPP TS 38.322: "NR Radio Link Control (RLC) protocol specification".
- [5] 3GPP TS 38.473: "NG-RAN F1 application protocol (F1AP) protocol specification".
- [6] 3GPP TS 38.401: "NG-RAN; Architecture description".

3 Definitions of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the terms given in TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [1].

BH RLC channel: an RLC channel between two nodes, which is used to transport backhaul packets, as defined in TS 38.300 [2].

Boundary IAB-node: an IAB-node with one RRC interface terminating at a different IAB-donor-CU than the F1 interface, as defined in TS 38.401 [6]. This term is not used for a mobile IAB-node.

Egress BH RLC channel: a BH RLC channel on which a packet is transmitted by a node.

Egress link: a radio link on which a packet is transmitted by a node.

F1-terminating donor: refers to the IAB-donor that terminates F1 for the IAB-node or a mobile IAB-node, as defined as "F1-terminating IAB-donor" in TS 38.401 [6].

IAB-donor: as defined in TS 38.300 [2].

IAB-donor-DU: as defined in TS 38.401 [6].

IAB-node: as defined in TS 38.300 [2].

Ingress BH RLC channel: a BH RLC channel on which a packet is received by a node.

Ingress link: a radio link on which a packet is received by a node.

Mobile IAB-node: as defined in TS 38.300 [2].

Non-F1-terminating donor: refers to the IAB-donor that has an RRC connection with the boundary node but does not terminate F1 with this boundary IAB-node, as defined as "Non-F1-terminating IAB-donor" in TS 38.401 [6].

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1].

BH	Backhaul
DSCP	Differentiated Services Code Point
IAB	Integrated Access and Backhaul
MT	Mobile Termination
RLF	Radio Link Failure
TEID	Tunnel Endpoint Identifier

4 General

4.1 Introduction

The present document describes the functionalities of BAP.

4.2 Architecture

4.2.1 BAP structure

Figure 4.2.1-1 represents one possible structure for the BAP sublayer; it should not restrict implementation. The figure is based on the radio interface protocol architecture defined in TS 38.300 [2].

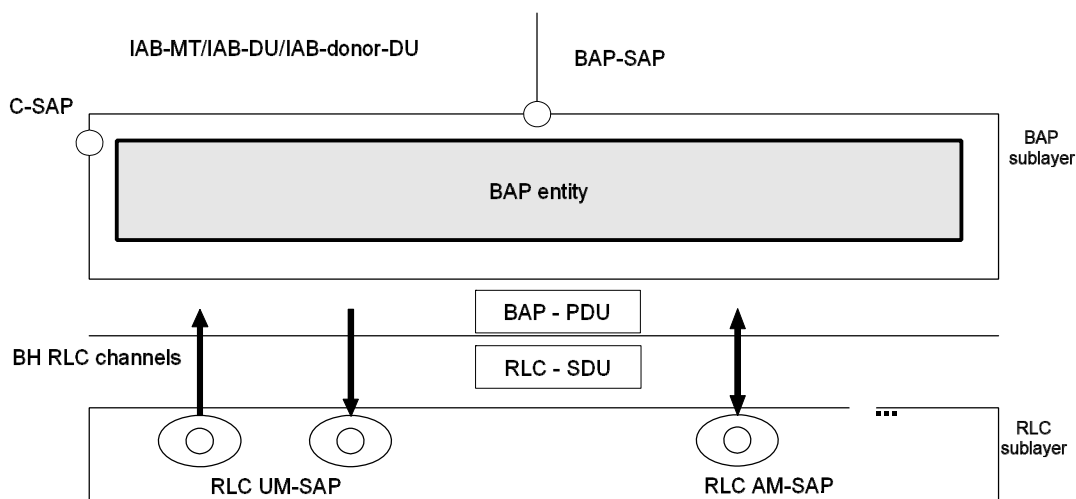


Figure 4.2.1-1: BAP sublayer, structure view

The BAP sublayer is configured by upper layers TS 38.331 [3] and TS 38.473 [5].

4.2.2 BAP entities

On the IAB-node, the BAP sublayer contains one BAP entity at the MT function and a separate collocated BAP entity at the DU function. A mobile IAB-node may have two logical DU functions, as defined in TS 38.401 [6], which are supported by one common BAP entity at the MT function. The RAN node operating as a mobile IAB-node has no BAP entity at the DU function. On the IAB-donor-DU, the BAP sublayer contains only one BAP entity. Each BAP entity has a transmitting part and a receiving part.

NOTE: The modelling of BAP entities does not restrict internal implementation of IAB-nodes, i.e. the exact modelling of BAP sublayer may vary for different IAB-node implementations.

The transmitting part of the BAP entity has a corresponding receiving part of a BAP entity at the IAB-node or IAB-donor-DU across the BH link.

Figure 4.2.2-1 shows one example of the functional view of the BAP sublayer. This functional view should not restrict implementation. The figure is based on the radio interface protocol architecture defined in TS 38.300 [2].

In the example of Figure 4.2.2-1, the receiving part on the BAP entity delivers BAP PDUs to the transmitting part on the collocated BAP entity. Alternatively, the receiving part may deliver BAP SDUs to the collocated transmitting part. When passing BAP SDUs, the receiving part removes the BAP header and the transmitting part adds the BAP header with the same BAP header content as carried on the BAP PDU header prior to removal. Passing BAP SDUs in this manner is therefore functionally equivalent to passing BAP PDUs, in implementation. The following specification therefore refers to the passing of BAP Data Packets.

Besides, BAP entity generates, delivers/receives BAP Control PDU(s) as described in clause 6.1.2. BAP Control PDU can only be exchanged between peer BAP entities across the BH link.

In addition to the functions shown in Figure 4.2.2-1, the transmitting part of the BAP entity may perform BAP header rewriting operation, in accordance with clause 5.2.1.

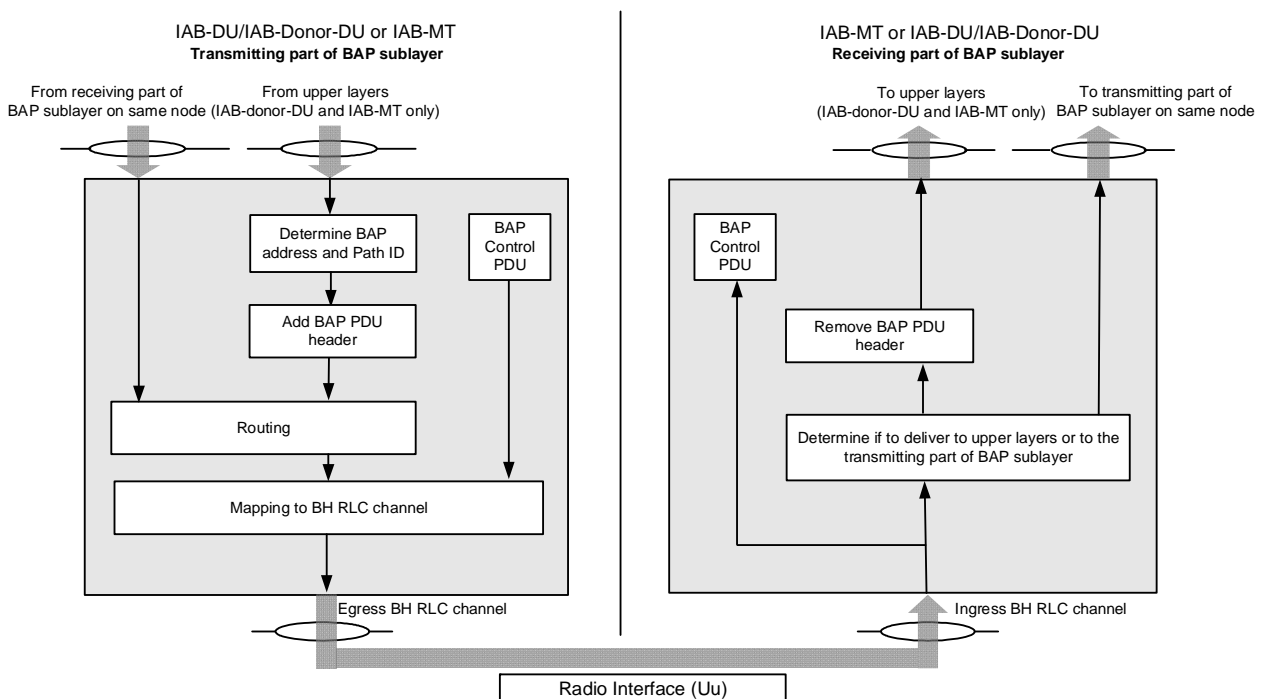


Figure 4.2.2-1. Example of functional view of BAP sublayer

4.3 Services

4.3.1 Services provided to upper layers

The following services are provided by the BAP sublayer to upper layers:

- data transfer.

4.3.2 Services expected from lower layers

A BAP sublayer expects the following services from lower layers per RLC entity (for a detailed description see TS 38.322 [4]):

- acknowledged data transfer service;
- unacknowledged data transfer service.

4.4 Functions

The BAP sublayer supports the following functions:

- Data transfer;
- Determination of BAP destination and path for packets from upper layers;
- Determination of egress BH RLC channels for packets routed to next hop;
- Routing of packets to next hop;
- BAP header rewriting;
- Differentiating traffic to be delivered to upper layers from traffic to be delivered to egress link;
- Flow control feedback and polling signalling;
- Handling of BH RLF related indications;

4.5 Configurations

The configuration of the BAP entity includes:

- The IAB-node's BAP address(es) via RRC.
- The IAB-donor-DU's BAP address via F1AP.
- Mapping from next hop BAP address to downstream egress link via F1AP.
- Mapping from next hop BAP address to upstream egress link via RRC.
- Mapping from upper layer traffic to BAP routing ID in BAP header via F1AP and RRC.
- The BAP routing entries via F1AP.
- Mapping to egress BH RLC channels via F1AP and RRC.
- Flow control feedback type(s) to be provided, if any, via RRC.
- Inter-donor-DU re-routing enabling/disabling via F1AP.

BH RLC channels are configured via RRC on the IAB-MT, and via F1AP on the IAB-DU/IAB-donor-DU.

For F1AP configurations, the following mapping, which are derived from the original F1AP signaling, are used in procedure:

- Uplink Traffic to Routing ID Mapping Configuration.
- Downlink Traffic to Routing ID Mapping Configuration.
- BH Routing Configuration.
- BH RLC Channel Mapping Configuration.

- Uplink Traffic to BH RLC Channel Mapping Configuration.
- Downlink Traffic to BH RLC Channel Mapping Configuration.
- Header Rewriting Configuration.

NOTE: For a mobile IAB-node with two logical DUs, separate F1AP configurations are provided for each logical DU by the DU's respective IAB-donor-CU via the corresponding F1AP and are used for the logical DU correspondingly.

5 Procedures

5.1 BAP entity handling

5.1.1 BAP entity establishment

When upper layers request establishment of a BAP entity, the node shall:

- establish a BAP entity;
- follow the procedures in clause 5.

5.1.2 BAP entity release

When upper layers request release of a BAP entity, the node shall:

- release the BAP entity and the related BAP configurations.

5.2 Data transfer

5.2.1 Transmitting operation

5.2.1.1 General

The transmitting part of the BAP entity on the IAB-MT can receive BAP SDUs from upper layers and BAP Data Packets from the receiving part of the BAP entity on the IAB-DU of the same IAB-node, and construct BAP Data PDUs as needed (see clause 4.2.2). The transmitting part of the BAP entity on the IAB-DU can receive BAP Data Packets from the receiving part of the BAP entity on the IAB-MT of the same IAB-node, and construct BAP Data PDUs as needed (see clause 4.2.2). The transmitting part of the BAP entity on the IAB-donor-DU can receive BAP SDUs from upper layers, and construct BAP Data PDUs as needed (see clause 4.2.2).

Upon receiving a BAP SDU from upper layers, the transmitting part of the BAP entity shall:

- select a BAP address and a BAP path identity for this BAP SDU in accordance with clause 5.2.1.2;
- construct a BAP Data PDU by adding a BAP header to the BAP SDU, where the DESTINATION field is set to the selected BAP address and the PATH field is set to the selected BAP path identity, in accordance with clause 6.2.2;

When the BAP entity has a BAP Data PDU to transmit, the transmitting part of the BAP entity shall:

- for the boundary IAB-node, if the BAP Data PDU is received from the collocated BAP entity, perform the BAP header rewriting operation (if configured) in accordance with clause 5.2.1.5;
- perform routing to determine the egress link in accordance with clause 5.2.1.3;
- determine the egress BH RLC channel in accordance with clause 5.2.1.4;

- submit this BAP Data PDU to the selected egress BH RLC channel of the selected egress link.

NOTE: Data buffering on the transmitting part of the BAP entity, e.g., until RLC-AM entity has received an acknowledgement, is up to implementation. In case of BH RLF, the transmitting part of the BAP entity may reroute the BAP Data PDUs, which has not been acknowledged by lower layer before the BH RLF, to an alternative path in accordance with clause 5.2.1.3.

5.2.1.2 BAP routing ID selection

5.2.1.2.1 BAP routing ID selection at IAB-node

At an IAB-node, for a BAP SDU received from upper layers and to be transmitted in upstream direction, the BAP entity performs mapping to a BAP address and BAP path identity based on:

- Uplink Traffic to Routing ID Mapping Configuration, which is derived from F1AP on the IAB-node in TS 38.473 [5],
- *defaultUL-BAP-RoutingID*, which is configured by RRC on the IAB-node in TS 38.331[3].

Each entry of the Uplink Traffic to Routing ID Mapping Configuration contains:

- a traffic type specifier, which is indicated by *UL UP TNL Information* IE for F1-U packets and *Non-UP Traffic Type* IE for non-F1-U packets in TS 38.473 [5],
- a BAP routing ID, which includes a BAP address and a BAP path identity, indicated by *BAP Routing ID* IE in *BH Information* IE in TS 38.473 [5], and
- a topology indicator, indicating whether the BAP routing ID belongs to the non-F1-terminating donor topology, which is optionally indicated by *Non-F1-terminating IAB-donor Topology Indicator* IE.

At the IAB-node, for a BAP SDU received from upper layers and to be transmitted in upstream direction, the BAP entity shall:

- if the Uplink Traffic to Routing ID Mapping Configuration has not been (re)configured by the F1AP associated with the (logical) DU, where this BAP SDU is received, after the last (re)configuration of *defaultUL-BAP-RoutingID* by RRC:
 - select the BAP address and the BAP path identity as configured by *defaultUL-BAP-RoutingID* in TS 38.331 [3] for non-F1-U packets;
- else:
 - for the BAP SDU encapsulating an F1-U packet:
 - select an entry from the Uplink Traffic to Routing ID Mapping Configuration with its traffic type specifier corresponds to the destination IP address and TEID of this BAP SDU;
 - for the BAP SDU encapsulating a non-F1-U packet:
 - select an entry from the Uplink Traffic to Routing ID Mapping Configuration with its traffic type specifier corresponds to the traffic type of this BAP SDU;
 - select the BAP address and the BAP path identity from the BAP routing ID in the entry selected above;
 - if the selected entry is configured with *Non-F1-terminating IAB-donor Topology Indicator* IE:
 - consider this BAP Data PDU as data to be routed to non-F1-terminating donor topology.

NOTE 1: Uplink Traffic to Routing ID Mapping Configuration may contain multiple entries for F1-C/non-F1 traffic (for mobile IAB-node, this case occurs when considering both configurations received from two F1AP). It is up to IAB node's implementation to decide which entry is selected.

NOTE 2: In cases where the same IP address is shared by the two logical DUs, it is up to mobile IAB-node's implementation to decide the logical DU where a BAP SDU encapsulating a non-F1 packet is considered to be received from. The non-F1 traffic does not have to be confined/associated with one specific logical DU.

5.2.1.2.2 BAP routing ID selection at IAB-donor-DU

For a BAP SDU received from upper layer at the IAB-donor-DU, the BAP entity performs mapping to a BAP address and a BAP Path identity based on:

- Downlink Traffic to Routing ID Mapping Configuration, which is derived from *IP-to-layer-2 traffic mapping Information List* IE configured on the IAB-donor-DU in TS 38.473 [5].

Each entry of the Downlink Traffic to Routing ID Mapping Configuration contains:

- a destination IP address, which is indicated by *Destination IAB TNL Address* IE in *IP header information* IE, including an IPv4 address or IPv6 address or an IPv6 address prefix,
- an IPv6 flow label, if configured, which is indicated by *IPv6 Flow Label* IE in *IP header information* IE,
- a DSCP, if configured, which is indicated by *DSCP* IE in *DS Information List* IE in *IP header information* IE, and
- a BAP routing ID, which is indicated by *BAP Routing ID* IE in *BH Information* IE in TS 38.473 [5].

At the IAB-donor-DU, for a BAP SDU received from upper layers and to be transmitted in downstream direction, the BAP entity shall:

- for the BAP SDU encapsulating an IPv6 packet:
 - select an entry from the Downlink Traffic to Routing ID Mapping Configuration which fulfils the following conditions:
 - the Destination IP address of this BAP SDU matches the destination IP address in this entry; and
 - the IPv6 Flow Label of this BAP SDU matches IPv6 flow label in this entry if configured; and
 - the DSCP of this BAP SDU matches DSCP in this entry if configured;
- for the BAP SDU encapsulating an IPv4 packet:
 - select an entry from the Downlink Traffic to Routing ID Mapping Configuration which fulfils the following conditions:
 - the Destination IP address of this BAP SDU matches the destination IP address in this entry; and
 - the DSCP of this BAP SDU matches DSCP in this entry if configured;
 - select the BAP address and the BAP path identity from the BAP routing ID in the entry selected above;

5.2.1.3 Routing

The BAP entity performs routing based on:

- the BH Routing Configuration derived from an F1AP message as specified in TS 38.473 [5].

Each entry of the BH Routing Configuration contains:

- a BAP routing ID consisting of a BAP address and a BAP path identity, which is indicated by *BAP Routing ID* IE,
- a next hop BAP address which is indicated by *Next-Hop BAP Address* IE, and
- a topology indicator, indicating whether the entry belongs to the non-F1-terminating donor topology, which is optionally indicated by *Non-F1-terminating IAB-donor Topology Indicator* IE.

In the BH Routing Configuration, the entry configured with *Non-F1-terminating IAB-donor Topology Indicator IE* applies to the BAP Data PDU considered as data to be routed to non-F1-terminating donor topology, and the entry not configured with *Non-F1-terminating IAB-donor Topology Indicator IE* only applies to the BAP Data PDU not considered as data to be routed to non-F1-terminating donor topology.

For a BAP Data PDU to be transmitted, BAP entity shall:

- if the BAP Data PDU corresponds to a BAP SDU received from the upper layer, and
- if the BH Routing Configuration has not been (re)configured by the F1AP associated with the (logical) DU, where this BAP SDU is received, after the last (re)configuration of *defaultUL-BH-RLC-Channel* by RRC:
 - select the egress link on which the egress BH RLC channel corresponding to *defaultUL-BH-RLC-Channel* is configured as specified in TS 38.331 [3] for non-F1-U packets;
- else if there is an entry in the BH Routing Configuration whose BAP address matches the DESTINATION field, whose BAP path identity is the same as the PATH field, and whose egress link corresponding to the next hop BAP address is available:
 - select the egress link corresponding to the next hop BAP address of the entry;

NOTE 1: An egress link is not considered to be available if the link is in BH RLF.

NOTE 2: For each combination of a BAP address and a BAP path identity, there should be at most one entry with the same topology indicator in the BH Routing Configuration. There could be multiple entries of the same BAP address with the same topology indicator in the BH Routing Configuration.

NOTE 3: An egress link may not be considered available for a BH Routing Configuration entry with a given BAP routing ID, if it is determined as congested, e.g. based on the received flow control feedback, as defined in clause 5.3.1.

NOTE 4: In cases where the same IP address is shared by the two logical DUs, it is up to mobile IAB-node's implementation to decide the logical DU where a BAP SDU encapsulating a non-F1 packet is considered to be received from. The non-F1 traffic does not have to be confined/associated with one specific logical DU.

- else if there is at least one entry in the BH Routing Configuration whose BAP address matches the DESTINATION field, and whose egress link corresponding to the next hop BAP address is available:
 - select an entry from the BH Routing Configuration whose BAP address is the same as the DESTINATION field, and whose egress link corresponding to the next hop BAP address is available;
 - select the egress link corresponding to the next hop BAP address of the entry selected above;
- else if, for the transmitting part of IAB-MT, at least one egress link is available, and if *Re-routing Enable Indicator IE* is set to true by F1AP:
 - if this egress link belongs to F1-terminating donor topology of the boundary IAB-node or the transmitting part of IAB-MT is not at the boundary IAB-node, and there is an entry in the BH Routing Configuration not configured with *Non-F1-terminating IAB-donor Topology Indicator IE* whose next hop BAP address corresponds to this egress link, or
 - if this egress link belongs to non-F1-terminating donor topology, and there is an entry in the BH Routing Configuration configured with *Non-F1-terminating IAB-donor Topology Indicator IE* whose next hop BAP address corresponds to this egress link:
 - select the egress link;
 - rewrite the BAP header of this BAP Data PDU, where the DESTINATION field is set to the leftmost 10 bits of BAP routing ID of the entry in the BH Routing Configuration (i.e. BAP address), and the PATH field is set to the rightmost 10 bits of BAP routing ID of the entry (i.e. BAP path identity).

5.2.1.4 Mapping to BH RLC Channel

5.2.1.4.1 Mapping to BH RLC Channel for BAP Data Packets from collocated BAP entity at IAB-node

For a BAP Data Packet received from the collocated BAP entity, the transmitting part of the BAP entity performs mapping to an egress BH RLC channel based on:

- BH RLC Channel Mapping Configuration, which is derived from *BAP layer BH RLC channel mapping Information List* IE, and optionally together with the *Configured BAP Address* IE and the *BH RLC Channel to be Setup/Modified List* IE, as configured on the IAB-node in TS 38.473 [5],

Each entry of the BH RLC Channel Mapping Configuration contains:

- an ingress link ID, which is indicated by *Prior-Hop BAP Address* IE, or by the *Configured BAP Address* IE in UE-associated F1AP message for upstream, belonging to topology indicated by *Ingress Non-F1-terminating IAB-donor Topology Indicator* IE in F1AP if configured,
- an egress link ID, which is indicated by *Next-Hop BAP Address* IE, or by the *Configured BAP Address* IE in UE-associated F1AP message for downstream, belonging to topology indicated by *Egress Non-F1-terminating IAB-donor Topology Indicator* IE in F1AP if configured,
- an ingress BH RLC channel ID, which is indicated by *Ingress BH RLC CH ID* IE, or by the *BH RLC CH ID* IE in UE-associated F1AP message for upstream, and,
- an egress BH RLC channel ID, which is indicated by *Egress BH RLC CH ID* IE, or by the *BH RLC CH ID* IE in UE-associated F1AP message for downstream.

For a BAP Data PDU received from an ingress BH RLC channel of an ingress link and for which the egress link has been selected as specified in clause 5.2.1.3:

- if there is an entry in the BH RLC Channel Mapping Configuration, whose ingress BH RLC channel ID matches the BAP Data PDU's ingress BH RLC channel, whose ingress link ID matches the BAP Data PDU's ingress link, and whose egress link ID corresponds to the selected egress link;
 - select the egress BH RLC channel corresponding to egress BH RLC channel ID of this entry;
- else:
 - select any egress BH RLC channel on the selected egress link;

5.2.1.4.2 Mapping to BH RLC Channel for BAP SDUs from upper layers at IAB-node

For a BAP SDU received from upper layers at the IAB-node, the BAP entity performs mapping to an egress BH RLC channel based on:

- Uplink Traffic to BH RLC Channel Mapping Configuration, which is derived from F1AP message, configured on the IAB-node in TS 38.473 [5],
- *defaultUL-BH-RLC-Channel*, which is configured by RRC on the IAB-node in TS 38.331[3].

Each entry of the Uplink Traffic to BH RLC Channel Mapping Configuration contains:

- a traffic type specifier, which is indicated by *UL UP TNL Information* IE for F1-U packets or *Non-UP Traffic Type* IE for non-F1-U packets in TS 38.473 [5],
- an egress link ID, which is indicated by *Next-Hop BAP address* IE in *BH Information* IE in TS 38.473 [5], belonging to topology indicated by *Egress Non-F1-terminating IAB-donor Topology Indicator* IE in F1AP if configured, and
- an egress BH RLC channel ID, which is indicated by *BH RLC CH ID* IE in *BH Information* IE in TS 38.473 [5].

For a BAP SDU received from upper layers at the IAB-node and to be transmitted in upstream direction, whose egress link has been selected as specified in clause 5.2.1.3, the BAP entity shall:

- if the Uplink Traffic to BH RLC Channel Mapping Configuration has not been (re)configured by the F1AP associated with the (logical) DU, where this BAP SDU is received, after the last (re)configuration of *defaultUL-BH-RLC-Channel* by RRC:
 - select the egress BH RLC channel corresponding to *defaultUL-BH-RLC-Channel* configured in TS 38.331 [3] for non-F1-U packets;
- else:
 - for the BAP SDU encapsulating an F1-U packet:
 - if there is an entry in the Uplink Traffic to BH RLC Channel Mapping Configuration with its traffic type specifier corresponds to the destination IP address and TEID of this BAP SDU and its egress link ID corresponding to the selected egress link;
 - select the egress BH RLC channel corresponding to the egress BH RLC channel ID of this entry;
 - else:
 - select any egress BH RLC channel on the selected egress link;
 - for the BAP SDU encapsulating a non-F1-U packet:
 - if there is an entry from the Uplink Traffic to BH RLC Channel Mapping Configuration with its traffic type specifier corresponds to the traffic type of this BAP SDU and its egress link ID corresponding to the selected egress link;
 - select the egress BH RLC channel corresponding to the egress BH RLC channel ID of this entry;
 - else:
 - select any egress BH RLC channel on the selected egress link;

NOTE 1: Uplink Traffic to BH RLC Channel Mapping Configuration may contain multiple entries for F1-C/non-F1 traffic (for mobile IAB-node, this case occurs when considering both configurations received from two F1AP). It is up to IAB node's implementation to decide which entry is selected, but the selected entry has to match the BAP routing ID selected in 5.2.1.2.1, i.e. BAP routing ID and BH RLC channel must be derived from the same *BH Information IE*.

NOTE 2: In cases where the same IP address is shared by the two logical DUs, it is up to mobile IAB-node's implementation to decide the logical DU where a BAP SDU encapsulating a non-F1 packet is considered to be received from. The non-F1 traffic does not have to be confined/associated with one specific logical DU.

5.2.1.4.3 Mapping to BH RLC Channel at IAB-donor-DU

For a BAP SDU received from upper layers at the IAB-donor-DU, the BAP entity performs mapping to an egress BH RLC channel based on:

- Downlink Traffic to BH RLC Channel Mapping Configuration, which is derived from *IP-to-layer-2 traffic mapping Information List IE*, and optionally together with the *Configured BAP Address IE* and the *BH RLC Channel to be Setup/Modified List IE*, as configured on the IAB-donor-DU in TS 38.473 [5].

Each entry of the Downlink Traffic to BH RLC Channel Mapping Configuration contains:

- a destination IP address, which is indicated by *Destination IAB TNL Address IE* in *IP header information IE* including an IPv4 address or IPv6 address or an IPv6 address prefix,
- an IPv6 flow label, if configured, which is indicated by *IPv6 Flow Label IE* in *IP header information IE*,
- a DSCP, if configured, which is indicated by *DSCP IE* in *DS Information List IE* in *IP header information IE*,
- an egress link ID, which is indicated by *Next-Hop BAP Address IE* in *BH Information IE*, or by the *Configured BAP Address IE* in UE-associated F1AP message,

- an egress BH RLC channel ID, which is indicated by *Egress BH RLC CH ID* IE in *BH Information* IE, or by the *BH RLC CH ID* IE in UE-associated F1AP message.

At the IAB-donor-DU, for a BAP SDU received from upper layers and to be transmitted in downstream direction, whose egress link has been selected as specified in clause 5.2.1.3, the BAP entity shall:

- for the BAP SDU encapsulating an IPv6 packet:
 - if there is an entry in the Downlink Traffic to BH RLC Channel Mapping Configuration with its egress link ID corresponding to the selected egress link, and the entry fulfils the following conditions:
 - the Destination IP address of this BAP SDU matches the destination IP address in this entry; and
 - the IPv6 flow label of this BAP SDU matches IPv6 flow label in this entry if configured; and
 - the DSCP of this BAP SDU matches DSCP in this entry if configured:
 - select the egress BH RLC channel corresponding to egress BH RLC channel ID of this entry;
 - else:
 - select any egress BH RLC channel on the selected egress link;
- for the BAP SDU encapsulating an IPv4 packet:
 - if there is an entry in the Downlink Traffic to BH RLC Channel Mapping Configuration with its egress link ID corresponding to the selected egress link, and the entry fulfils the following conditions:
 - the Destination IP address of this BAP SDU matches the destination IP address in this entry; and
 - the DSCP of this BAP SDU matches DSCP in this entry if configured:
 - select the egress BH RLC channel corresponding to egress BH RLC channel ID of this entry;
 - else:
 - select any egress BH RLC channel on the selected egress link;

5.2.1.5 BAP header rewriting operation

The BAP entity performs BAP header rewriting based on:

- the Header Rewriting Configuration derived from an F1AP message as specified in TS 38.473 [5].

Each entry of the Header Rewriting Configuration contains:

- an Ingress Routing ID consisting of a BAP address and a BAP path identity of the BAP Data PDU, which is indicated by *Ingress BAP Routing ID* IE, and
- an Egress Routing ID consisting of a BAP address and a BAP path identity of the BAP Data PDU, which is indicated by *Egress BAP Routing ID* IE, and
- a topology indicator, indicating whether the Egress Routing ID belongs to the non-F1-terminating donor topology, which is optionally indicated by *Non-F1-terminating IAB-donor Topology Indicator* IE.

For each BAP Data PDU to be considered for BAP header rewriting, the BAP entity shall:

- for the IAB-MT of boundary IAB-node, if there is an entry in the Header Rewriting Configuration configured with *Non-F1-terminating IAB-donor Topology Indicator* IE, whose BAP address of Ingress Routing ID matches the DESTINATION field, and whose BAP path identity of Ingress Routing ID matches the PATH field:
 - rewrite the BAP header of this BAP Data PDU, where the DESTINATION field is set to the leftmost 10 bits of Egress Routing ID of the entry (i.e. BAP address), and the PATH field is set to the rightmost 10 bits of Egress Routing ID of the entry (i.e. BAP path identity);
 - consider this BAP Data PDU as data to be routed to non-F1-terminating donor topology;

- for the IAB-DU of boundary IAB-node, if the ingress link of this BAP Data PDU belongs to non-F1-terminating donor topology of the boundary IAB-node; and
- if there is an entry in the Header Rewriting Configuration not configured with *Non-F1-terminating IAB-donor Topology Indicator* IE, whose BAP address of Ingress Routing ID matches the DESTINATION field, and whose BAP path identity of Ingress Routing ID matches the PATH field:
 - rewrite the BAP header of this BAP Data PDU, where the DESTINATION field is set to the leftmost 10 bits of Egress Routing ID of the entry (i.e. BAP address), and the PATH field is set to the rightmost 10 bits of Egress Routing ID of the entry (i.e. BAP path identity).

NOTE: A BH link belongs to the topology of the IAB-donor that provides the configuration of that BH link, as specified in TS 38.331 [3].

5.2.2 Receiving operation

Upon receiving a BAP Data PDU from lower layer (i.e. ingress BH RLC channel), the receiving part of the BAP entity shall:

- if DESTINATION field of this BAP Data PDU matches the BAP address, which is configured for this IAB-node by the IAB-donor providing this ingress BH RLC channel configuration:
 - remove the BAP header of this BAP Data PDU and deliver the BAP SDU to upper layers;
- else:
 - deliver the BAP Data Packet to the transmitting part of the collocated BAP entity.

5.3 Flow control

5.3.1 Flow control feedback

5.3.1.1 Transmitting operation

For a link, the BAP entity at the IAB-MT shall:

- when a flow control feedback is triggered due to the buffer load exceeding a certain level, or
- when a BAP Control PDU for flow control polling is received at the receiving part, the transmitting part of this BAP entity shall:
 - construct a BAP Control PDU for flow control feedback per BH RLC channel, if configured by RRC, in accordance with clause 6.2.3;
 - construct a BAP Control PDU for flow control feedback per BAP routing ID, if configured by RRC, in accordance with clause 6.2.3;
 - if the egress BH RLC channel for the BAP Control PDU is configured as specified in TS 38.473 [5]:
 - submit the BAP Control PDU(s) to the configured egress BH RLC channel of the egress link, indicated by *Egress BH RLC CH ID* IE in *BH Information* IE associated with *Non-UP Traffic Type* IE set to *BAP control PDU* in TS 38.473 [5];
- else:
 - submit the BAP Control PDU(s) to any egress BH RLC channel of the egress link.

NOTE 1: The BH RLC channel(s) and BAP routing ID(s) to be included in the flow control feedback is up to IAB node implementation, once triggered.

NOTE 2: For a mobile IAB-node, in case multiple egress BH RLC channels on one egress link are configured for BAP control PDU, it is up to mobile IAB-node's implementation to decide which one is selected.

5.3.1.2 Receiving operation

For a link, upon receiving a BAP Control PDU for flow control feedback per BAP routing ID from lower layer, the BAP entity at the IAB-DU or IAB-donor-DU may:

- if the available buffer size as indicated by the received BAP Control PDU for flow control feedback per BAP routing ID is less than the *Buffer Size Threshold* IE, configured by F1AP in TS 38.473 [5]:
 - consider the BH link as congested for this BAP routing ID (for routing defined in accordance with clause 5.2.1.3).

5.3.2 Flow control polling

When a flow control polling is to be transmitted over an egress link, the transmitting part of the BAP entity at the IAB-DU or IAB-donor-DU:

- construct a BAP Control PDU for flow control polling in accordance with clause 6.2.3;
- if the egress BH RLC channel for the BAP Control PDU is configured as specified in TS 38.473 [5]:
 - submit this BAP Control PDU to the configured egress BH RLC channel of the egress link, indicated by *BH RLC CH ID* IE which is associated with *BAP Control PDU Channel* IE that is set to true in TS 38.473 [5];
- else:
 - submit this BAP Control PDU to any egress BH RLC channel of the egress link.

5.4 BH RLF related indications

5.4.1 Transmitting operation

When a BH RLF recovery failure is detected at the IAB-MT, for each egress link associated with the IAB-DU, the transmitting part of the collocated BAP entity at the IAB-DU may:

- construct a BAP Control PDU for BH RLF indication in accordance with clause 6.2.3.3;

When BH RLF(s) occur at the IAB-MT on all the link(s) providing F1 interface over BAP, for each egress link associated with the IAB-DU, the transmitting part of the collocated BAP entity at the IAB-DU may:

- construct a BAP Control PDU for BH RLF detection indication in accordance with clause 6.2.3.4;

When BH RLF recovery is successful at the IAB-MT, for each egress link associated with the IAB-DU on which a BAP Control PDU for BH RLF detection indication was transmitted, the transmitting part of the collocated BAP entity at the IAB-DU shall:

- construct a BAP Control PDU for BH RLF recovery indication in accordance with clause 6.2.3.5;

For any constructed BAP Control PDU above, the BAP entity shall:

- if the egress BH RLC channel for the BAP control PDU is configured as specified in TS 38.473 [5]:
 - submit this BAP Control PDU to the configured egress BH RLC channel of the egress link, indicated by *BH RLC CH ID* IE which is associated with *BAP Control PDU Channel* that is set to true in TS 38.473 [5];
- else:
 - submit this BAP Control PDU to any egress BH RLC channel of the egress link.

5.4.2 Receiving operation

Upon receiving a BAP Control PDU for BH RLF indication from lower layer (i.e. ingress BH RLC channel), the receiving part of the BAP entity shall:

- indicate to upper layers that the BH RLF indication has been received for the ingress link where this BAP Control PDU is received.

Upon receiving a BAP Control PDU for BH RLF detection indication from lower layer (i.e. ingress BH RLC channel), the receiving part of the BAP entity shall:

- consider the BH link, from which this BAP Control PDU is received, as not available (for routing defined in accordance with clause 5.2.1.3).

Upon receiving a BAP Control PDU for BH RLF recovery indication from lower layer (i.e. ingress BH RLC channel), the receiving part of the BAP entity shall:

- consider the BH link, from which this BAP Control PDU is received, to be available again (for routing defined in accordance with clause 5.2.1.3).

5.5 Handling of unknown, unforeseen, and erroneous protocol data

When a BAP Data PDU contains a BAP address which is not included in the applied entries of BH Routing Configuration during Routing operation in accordance with clause 5.2.1.3 and the BAP Data PDU contains a BAP address which is not the BAP address of this node in accordance with clause 5.2.2 upon receiving; or

when a BAP Control PDU that contains reserved or invalid values is received, the BAP entity shall:

- discard the received BAP PDU.

6 Protocol data units, formats, and parameters

6.1 Protocol data units

6.1.1 Data PDU

The BAP Data PDU is used to convey one of the following in addition to the PDU header:

- upper layer data.

6.1.2 Control PDU

The BAP Control PDU is used to convey one of the following in addition to the PDU header:

- flow control feedback per BH RLC channel;
- flow control feedback per BAP routing ID;
- flow control polling;
- BH RLF related indication;

6.2 Formats

6.2.1 General

A BAP PDU is a bit string that is byte aligned (i.e. multiple of 8 bits) in length. The formats of BAP PDUs are described in clause 6.2.2, 6.2.3 and their parameters are described in clause 6.3.

6.2.2 Data PDU

Figure 6.2.2-1 shows the format of the BAP Data PDU.

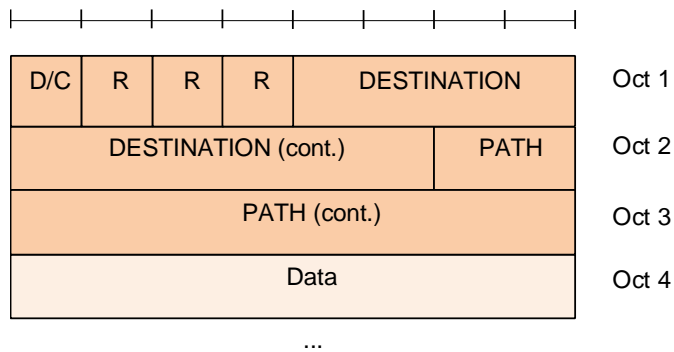


Figure 6.2.2-1: BAP Data PDU format

6.2.3 Control PDU

6.2.3.1 Control PDU for flow control feedback

Figure 6.2.3.1-1 and 6.2.3.1-2 show the formats of the BAP Control PDU for flow control feedback.

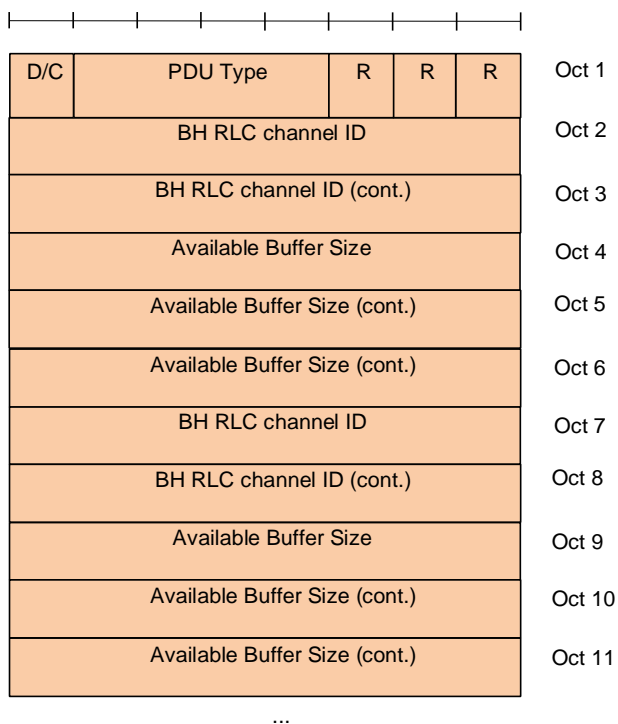


Figure 6.2.3.1-1: BAP Control PDU format for flow control feedback per BH RLC channel

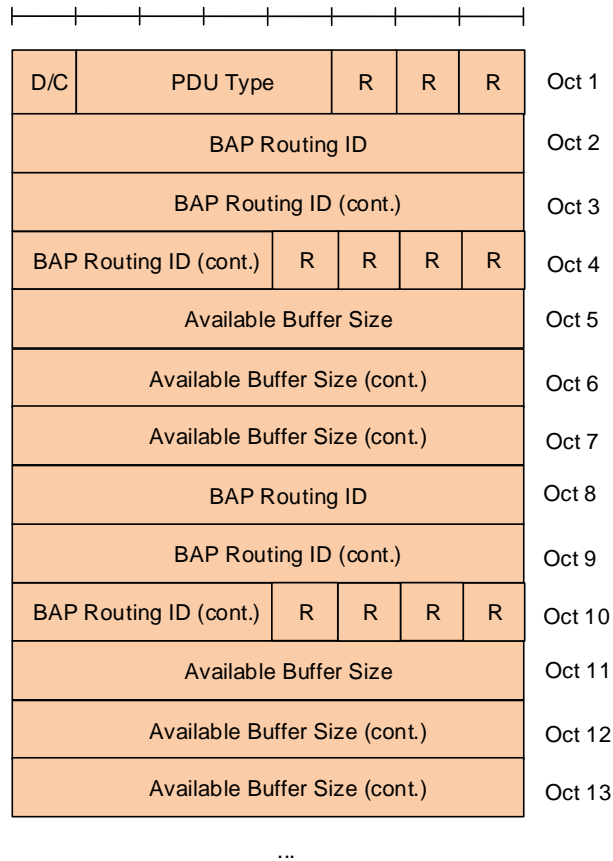


Figure 6.2.3.1-2: BAP Control PDU format for flow control feedback per BAP routing ID

6.2.3.2 Control PDU for flow control polling

Figure 6.2.3.2-1 shows the formats of the BAP Control PDU for flow control polling.

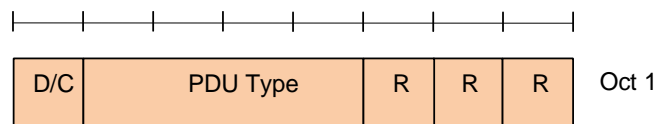


Figure 6.2.3.2-1: BAP Control PDU format for flow control feedback polling

6.2.3.3 Control PDU for BH RLF indication

Figure 6.2.3.3-1 shows the format of the BAP Control PDU for BH RLF indication.

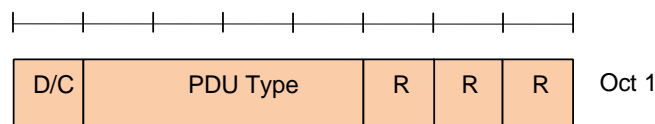


Figure 6.2.3.3-1: BAP Control PDU format for BH RLF indication

6.2.3.4 Control PDU for BH RLF detection indication

Figure 6.2.3.4-1 shows the format of the BAP Control PDU for BH RLF detection indication.

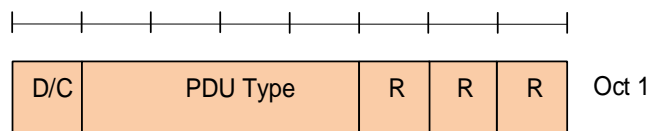


Figure 6.2.3.4-1: BAP Control PDU format for BH RLF detection indication

6.2.3.5 Control PDU for BH RLF recovery indication

Figure 6.2.3.5-1 shows the format of the BAP Control PDU for BH RLF recovery indication.

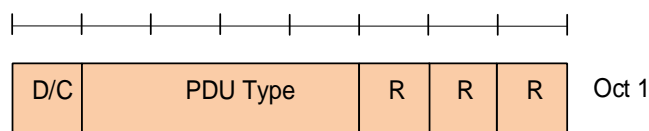


Figure 6.2.3.5-1: BAP Control PDU format for BH RLF recovery indication

6.3 Parameters

6.3.1 General

If not otherwise mentioned in the definition of each field, the bits in the parameters shall be interpreted as follows: the left most bit string is the first and most significant and the right most bit is the last and least significant bit.

Unless otherwise mentioned, integers are encoded in standard binary encoding for unsigned integers. In all cases the bits appear ordered from MSB to LSB when read in the PDU.

6.3.2 DESTINATION

Length: 10 bits.

This field carries the BAP address of the destination IAB-node or IAB-donor-DU.

6.3.3 PATH

Length: 10 bits.

This field carries the BAP path identity.

6.3.4 Data

Length: Variable

This field carries the BAP SDU (i.e. IP packet).

6.3.5 R

Length: 1 bit

Reserved. In this version of the specification reserved bits shall be set to 0. Reserved bits shall be ignored by the receiver.

6.3.6 D/C

Length: 1 bit

This field indicates whether the corresponding BAP PDU is a BAP Data PDU or a BAP Control PDU.

Table 6.3.6-1: D/C field

Bit	Description
0	BAP Control PDU
1	BAP Data PDU

6.3.7 PDU type

Length: 4 bits

This field indicates the type of control information included in the corresponding BAP Control PDU.

Table 6.3.7-1: PDU type

Bit	Description
0000	Flow control feedback per BH RLC channel
0001	Flow control feedback per BAP routing ID
0010	Flow control feedback polling
0011	BH RLF indication
0100	BH RLF detection indication
0101	BH RLF recovery indication
0110-1111	Reserved

6.3.8 BH RLC channel ID

Length: 16 bits.

This field indicates the identity of the BH RLC channel whose flow control information is provided in the flow control feedback.

6.3.9 BAP Routing ID

Length: 20 bits.

This field indicates BAP routing identity, for which the flow control information is provided in the flow control feedback. It contains the BAP address in the leftmost 10 bits and the BAP path identity in the rightmost 10 bits.

6.3.10 Available Buffer Size

Length: 24 bits.

This field indicates the maximum traffic volume the transmitter should send. The unit is kilobyte.

Annex A (informative): Change history

Change history							
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
10/2019	RAN2#107bis	R2-1914006				skeleton	0.0.0
10/2019	RAN2#107bis	R2-1914008				Captured agreements made before RAN2#107bis	0.1.0
02/2020	RAN2#109e	R2-2002113				Captured agreements made in RAN2#108	0.3.0
03/2020	RAN2#109e	R2-2002345				Captured agreements made in RAN2#109e	0.4.0
03/2020	RP-87	RP-200113				Version submitted for approval in RAN#87-e	1.0.0
03/2020	RP-87					Updated to Rel-16	16.0.0
07/2020	RP-88	RP-201179	0001	4	F	Miscellaneous corrections to 38.340 for IAB	16.1.0
09/2020	RP-89	RP-201923	0006	1	F	Miscellaneous corrections to 38.340 for IAB	16.2.0
	RP-89	RP-201923	0007	-	F	Corrections on flow control BAP control PDU	16.2.0
12/2020	RP-90	RP-202772	0009	1	F	Miscellaneous corrections to 38.340 for IAB	16.3.0
03/2021	RP-91	RP-210691	0012	1	F	Correction on the illustration of BAP entity	16.4.0
	RP-91	RP-210691	0014	1	F	Miscellaneous corrections to 38.340 for IAB	16.4.0
06/2021	RP-92	RP-211472	0015	2	F	Miscellaneous corrections on BAP transmitting operation and default routing	16.5.0
	RP-92	RP-211472	0018	1	F	Corrections to the handling of unknown, unforeseen, and erroneous protocol data	16.5.0
03/2022	RP-95	RP-220486	0020	2	B	Introduction of eIAB to TS 38.340	17.0.0
06/2022	RP-96	RP-221718	0024	1	F	Miscellaneous CR for TS 38.340	17.1.0
09/2022	RP-97	RP-222523	0029	1	F	Miscellaneous corrections in TS 38.340 for eIAB	17.2.0
12/2022	RP-98	RP-223410	0030	1	F	Miscellaneous corrections in TS 38.340 for eIAB	17.3.0
03/2023	RP-99	RP-230689	0031	1	F	Corrections on the inter-CU routing and header rewriting for eIAB	17.4.0
06/2023	RP-100	RP-231413	0032	-	F	Corrections on RLF indication for BAP	17.5.0
12/2023	RP-102	RP-233933	0033	1	B	Introduction of mobile IAB in TS 38.340	18.0.0
09/2024	RP-105	RP-242238	0036	1	F	Corrections on mobile IAB terminologies	18.1.0
12/2024	RP-106	RP-243233	0040	-	D	Miscellaneous corrections on BAP for IAB	18.2.0

History

Document history		
V18.0.0	May 2024	Publication
V18.1.0	October 2024	Publication
V18.2.0	January 2025	Publication