

Transmission for Broadcast Management Message (15.3.6.5.4.1)

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Venue:

IEEE 802.16m-09/0044, "Letter Ballot #30"

Area: "15.3.6 Downlink control structure".

Base Contribution:

None

Purpose:

To be discussed and adopted by TGM.

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<http://standards.ieee.org/guides/bylaws/sect6-7.html#6> and <http://standards.ieee.org/guides/opman/sect6.html#6.3>.

Further information is located at <http://standards.ieee.org/board/pat/pat-material.html> and <http://standards.ieee.org/board/pat>.

Intro.

- **Related Description in p.323 [P802.16m/D1]**

- Resource indication for broadcast message
 - NUS A-MAP extension or
 - A-MAP IE
- NUS A-MAP extension flag in NUS A-MAP
 - ON: NUS A-MAP is extended

- **Need to decide**

- NUS A-MAP extension IE contents
- Transmission method for broadcast burst

Proposed Structure

▪ **Extended NUS A-MAP IE contents (12bits)**

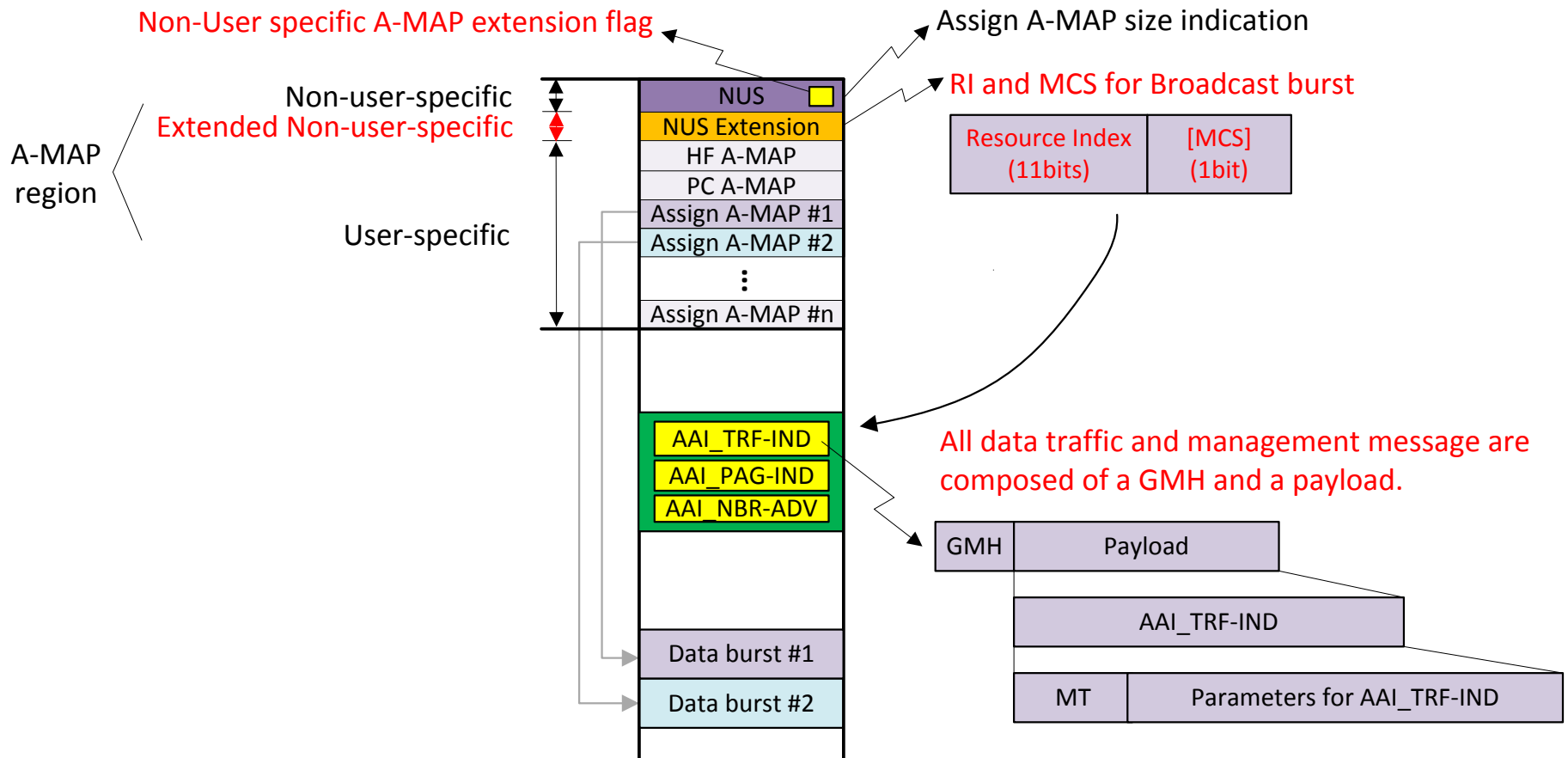
- Resource index (11 bits): identical to RI in DL Basic A-A-MAP IE
 - Flexible allocation is possible: minimize collision with PA or Long TTI burst
- [MCS level] (1 bit)

▪ **Broadcast burst transmission**

- One broadcast burst includes one or multiple broadcast management messages
- AMS delineates the boundary of each MAC PDU (management message) in the broadcast burst by decoding its GMH
- AMS identifies the type of broadcast management message by referring to message type (MT) in each MAC PDU

Proposed Structure

Illustration of Proposal



Text Proposal

----- Text Start -----

15.3.6.5.4.1 Non-user-specific A-MAP IE

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The resource allocation for Broadcast messages (e.g., PGID Info, AAI-TRF-IND, AAI-PAG-ADV, and other broadcast) is based on ~~A-MAP-IE~~ or non-user specific A-MAP extension.

If the non-user specific A-MAP extension flag in the non-user specific A-MAP is set, the non-user specific A-MAP extension ~~may be~~ is transmitted right after the non-user-specific A-MAP to specify ~~the~~ resource index [and MCS] information used to decode the broadcast burst. This broadcast burst includes one or multiple broadcast messages: PGID Info, AAI-TRF-IND, AAI-PAG-ADV, and other broadcast messages (TBD). ~~The PHY structure~~ Encoding and modulation for this extension is the same as the non-user specific A-MAP.

Table xxx—Extended Non-user specific A-MAP IE

Syntax	Size [bits]	Notes
Resource Index	11	Includes location and allocation size.
[MCS]	[1]	

----- Text End -----