Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Clarification on CS Specific Service Flow Encodings**
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Re:	Response to Sponsor Ballot on IEEE802.16e/D10 document
Abstract	
Purpose	To incorporate the text changes proposed in this contribution into the 802.16e/D11 draft.
Notice	
Release	
Patent Policy and Procedures	

Clarification on CS Specific Service Flow Encodings

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1. Problem Statement

Fix problems in section 11.13.19 text and re-number types of several CS service flow encoding to keep it consistent with Cor1/D4.

2. Proposed Solutions

3. Specific Text Changes

[Modify the following section:]

11.13 Service flow management encodings

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Service flow management encodings

Type	Parameter
.....	.....
33	MBS zone identifier assignment
34	Traffic Indication Preference
35	~~Unsolicited grant interval~~ Global Service Class Name
36	~~Unsolicited polling interval~~ Reserved
37	SN Feedback Enabled
38	~~HARQ Service Flows~~ Reserved
39	CID allocation for Active BSs
40	Unsolicited Grant Interval
41	Unsolicited Polling Interval
42	PDU SN extended subheader for HARQ reordering
43	MBS contents IDs
44	HARQ Service Flows
45	Authorization Token
46	HARQ Channel mapping

[Modify the following table:]

11.13.19.3.4.16 Large Context ID for ROHC- or ECRTP-compressed packet or ROHC feedback packet

…..

Type	Length	Value
[145/146].~~27~~ cst.3.16	2	0~65535: Context ID

[Modify the following table:]

11.13.26 MBS zone identifier assignment

…..

Type	Length	Value	Scope
[145/146].~~38~~33	8	MBS zone identifier	DSA-REQ/RSP DCD

[Modify the following section:]

11.13.30 CID allocation for Active BSs

The value of this field specifies a list of CIDs assigned by active BSs in the diversity set except for the anchor BS for the service flow with non-null admittedQoSParamSet or ActiveQoSParamSet. There is one CID per active BS and the CID is used when the active BS becomes the anchor BS. If CID assignment is sent for each active BS in MOB-BSHO-RSP and MOB_BSHO-REQ messages, the DSx messages shall contain CID allocation for Active BSs. The CID for anchor BS is defined by 11.13.2. The (Num of active BS) used to calculate length is the number of BSs in the diversity set.

Type	Length	Value	Scope
[145/146].39	variable Length is defined as: (Num of active BS -1) * 2	List of CIDs for the active BSs. Starting from the first byte, every 2 bytes contains one CID value per active BS. CIDs are listed based on the TEMP_BS_ID of the active BS. The TEMP_BS_IDs are sorted in an ascending order	DSA-REQ/RSP DSC-REQ/RSP

~~HARQ is enabled on a CID basis.~~

~~To deal with ordering implication of HARQ, each connection may enable ARQ or PDU SN mechanisms on top of the enabled HARQ connection.~~

~~Time stamp of first HARQ burst transmission is used as a the time relevance for all MAC specific Management messages and Sub headers (such as BW requests, Fast feedback, ARQ feedbacks etc.) that been transmitted in this burst.~~

11.13.31 Authorization Token

The value of this field specifies an authorization token which may be used when MS creates or modifies a service flow by sending DSA-REQ or DSC-REQ message. An authorization token identifies a session and

~~Type~~	~~Length~~	~~Value~~	~~Scope~~

~~[145/146].39~~	~~variable Length is defined as: (Num of active BS -1) * 2~~	~~List of CIDs for the active BSs. Starting from the first byte, every 2 bytes contains one CID value per activCIDs are listed based on the TEMP_BS_ID of the active BS. The BS. The TEMP_BS_IDs are sorted in an ascending order~~	~~DSA-REQ/RSP DSC-REQ/RSP~~

its QoS parameters, and it is used for authorizing the QoS for one or more IP flows generated by higher-level service creation/modification procedures. The token is provided to the MS by the higher-level service through some mechanism that is outside the scope of this specification. The MS must include the token in this TLV exactly as received from the higher-level service and must treat the token as an opaque octet string whose meaning is of significance only to those higher-level services. The field should not be included in the DSA-REQ or DSC-REQ messages which is sent by BS.

Type	Length	Value	Scope
[145/146].~~40~~ 45	variable	Authorization token which is used for authorizing the QoS for one or service flows generated by MS-initiated higher-level service flow creation or modification procedures	DSA-REQ DSC-REQ

[Modify the following table:]

11.13.32 HARQ Channel mapping
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Type	Length	Value	Scope
[145/146].~~41~~46	8	HARQ channel Index (1 byte each)	DSA-REQ, DSA-RSP, REG-REQ, REG-RSP

4. References

[1]   IEEE 802.16- 2004 IEEE Standards for local and metropolitan area networks part 16: Air interface for fixed broadband wireless access systems
[2]   IEEE P802.16e-D10-2005