Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**	
Title	**MIH C-SAP Primitives**	
Date Submitted	**2006-03-09**	
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Re:	Doc IEEE 802.16g-D1	
Abstract	Provides the missing C-SAP primitives to carry the MIH 802.21 Frames.	
Purpose	To enable the carriage of 802.21 MIHF frames over the C-SAP to be mapped onto the 802.21 MIH-SAP.	
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MIH C-SAP Primitives

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802.16g defines MIH messages. These carry 802.21 MIHF frames. 802.16g also specifiies that these messages are managed through the C-SAP management interface.

There is no MIH primitive specified on the C-SAP interface. It is missing.

This document proposes text for the missing MIH C-SAP message:

In addition this proposal reduces the MIH on-air messages down to one MOB_MIH-MSG primitive, since it is incorrect for the 802.16 entity to be tracking the req/rsp state of the 802.21 MIH protocol. The 802.21 protocol packages up the MIHF Frame so that undlaying media can simply transport the frame without needing to interpret it or sychronise to its protocol state.

This revision (r1) corrects the primitive naming convention used to agree with the format agreed in the NetMan TG.

The proposed changes to 802.16g are as follows:

Change Message Name cell of type entries 67 in Table 14a of Clause 6.3.2.3. as follows:

~~MOB_MSMIH-REQ~~ MOB_MIH-MSG

Delete type entries 68, 69 and 70 from Table 14a of Clause 6.3.2.3.

Change Text of 802.16g Clause 6.3.2.3.67 as follows

6.3.2.3.67 ~~MOB-MSMIH-REQ~~ MOB_MIH-MSG

The 802.16 entity ~~MS~~ may ~~transmit~~ send or receive the ~~MOB_MSMIH-REQ~~ MOB_MIH-MSG message to or from the ~~BS~~ peer 802.16 entity in order to ~~send~~ convey MIHF Frames carrying the 802.21 MIH protocol messages ~~handover imminent messages, or control and management message related to MIH. Parameters encoded to TLV tuple shall be differentiated according to data which MIH delivers as primitive~~. The message shall be transmitted on basic CID.

Change title of table 108aa as follows:

Table 108aa -- ~~MOB_MSMIH-REQ~~ MOB_MIH-MSG message format

Change Cell (1,2) of table 108aa as follows:

~~MOB_MSMIH-REQ_Message_Format( ) {~~ MOB_MIH-REQ_Message_Format( ) {

Delete from 802.16g Clause 6.3.2.3.68

Delete from 802.16g Clause 6.3.2.3.69

Delete from 802.16g Clause 6.3.2.3.70

Insert new text into 802.16g, 14.2.9.8:

14.2.9.8 MIH Control Protocol Procedures

The MIH Control Primtives provide carriage of 802.21 MIHF Frames between the 802.16 entity and the NMCS. This enables the NMCS to map between MIHF frames and primitives on the 802.21 MIH-SAP, consistent with Clause 5.5.3 of IEEE Std 802.21.

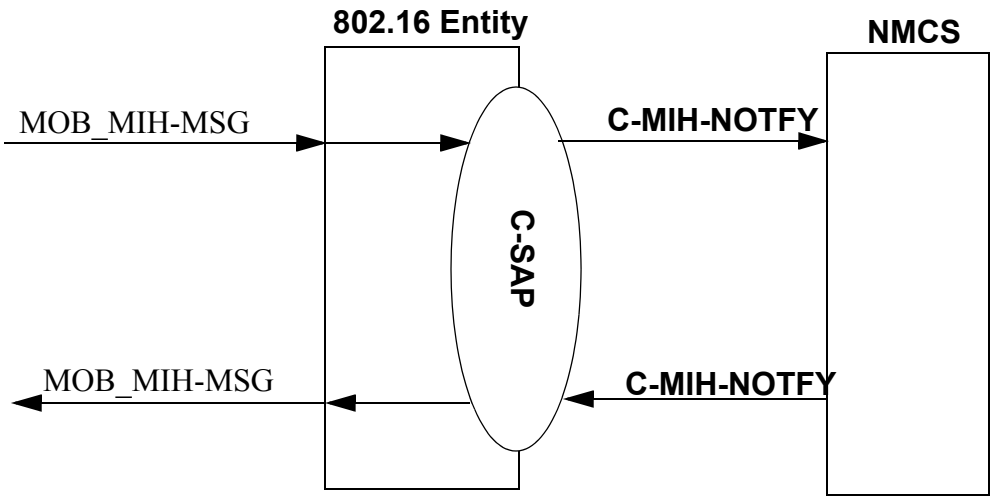

Figure 504—MIH Primitive Flow between 802.16 Entity and NMCS for 802.21 Support

14.2.9.8.1 C-MIH-NOTIFY

14.2.9.8.1.1 Function

This primitive used by the 802.16 entity to indicate on the C-SAP the reception of a MOB_MIH-MSG on the air interface and to convey 802.21 MIHF frame carried in the message to the NMCS.

This primitive is used by the NMCS to request on the C-SAP that the 802.16 entity transmits a MOB_MIH-MSG message containing the 802.21 MIHF frame carried in the primitive.

14.2.9.8.1.2 Semantics of the Service Primitive

C-MIH-NOTFY
(
MIHF Frame,
)

MIHF Frame
MIHF Frame as described in clause 8.2 of Std 802.21

14.2.9.8.1.3 When Generated

This primitive is generated by the 802.16 entity when the 802.16 entity receives a MOB_MIH-MSG from the peer 802.16 entity.

This primitive is generated by the NMCS when the NMCS needs to convey an 802.21 MIHF frame through the 802.16 entity to the peer 802.16 entity.

14.2.9.8.1.4 Effect of Recipt

On recipt of this primitive from the C-SAP by the NMCS, the NMCS should map the 802.21 MIH Message embedded in the 802.21 MIHF Frame in the primitive onto the equivalent primitive on the MIH_SAP consistent with Std 802.21, Clause 5.5.3.

On recipt of this primitive from the C-SAP by the 802.16 entity, the 802.16 entity shall transmit a MOB_MIH-MSG message containing the 802.21 MIHF frame conveyed in the MIHF Frame field of the primitive.