IEEE 802.16 Broadband Wireless Access Working Group http://ieee802.org/16 >
Addressing scheme in 16m
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802.16m AWD: IEEE 802.16m-09/0012 - "Call for Contributions on Project 802.16m Amendment Working Document (AWD) content" on Addressing
This contribution proposes IEEE 802.16m AWD text on Addressing concept
To be discussed and adopted in 802.16m AWD
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Handover Scheme in 802.16m

1 Introduction

This contribution proposes amendment text for addressing scheme for WirelessMAN-OFDMA Advanced System.

2 Text Proposal

======= Start of Proposed Text ===============

15.2.x Addressing

15.2.x.1 AMS MAC Address

Each AMS shall have a 48-bit IEEE Extended Unique Identifier (EUI-48TM) based on the 24-bit Organizationally Unique Identifier (OUI) value administrated by the IEEE Registration authority. It is used during the ranging process during initial network entry to establish the appropriate connections for an AMS. It is also used as part of the authentication process by which the ABS and AMS verifies the identity of each other.

15.2.x.2 Station Identifier

Each AMS shall also have a 12-bit Station Identifier (STID) that uniquely identifies the MS within the domain of its serving ABS. A temporary STID is assigned during initial ranging in the AAI_RNG-RSP. The STID is assigned to the AMS during authentication procedure when encryption of the MAC management message becomes available. The temporary STID is used to identify the AMS, and released after the STID is assigned. The STID is used to identify AMS once it is assigned. The STID may be reassigned by a target ABS during handover preparation, and used by the AMS after AMS handover to the target ABS.

Specific Station Identifiers are reserved for broadcast, multicast and initial ranging.

15.2.x.3 Flow Identifier

Each unicast connection within an AMS is uniquely identified by a 4-bit Flow Identifier (FID). The basic and primary management connections are pre-assigned with FID with value 0 and 1 respectively. The FIDs for the transport connections are assigned to the AMS during service flow setup procedure using AAI_DSx-REQ/RSP. The FIDs are not changed when the AMS handover from its serving ABS to the target ABS.

FIDs are not valid for broadcast and multicast connections.

15.2.x.4 Temporary AMS Identifier

The network may assign a temporary AMS Identifier to uniquely identify an AMS in the idle mode in a particular paging group. The temporary AMS identifier is assigned during idle mode entry using AAI_DREG-CMD or location update due to paging group change using AAI_RNG-RSP. Such identifier remains valid as long as the AMS stays in the same paging group. The temporary AMS identifier is used in paging messages

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