Project	IEEE 802.16 Broadband Wireless Access Working Group <**http://ieee802.org/16**>
Title	Network model for multicast and broadcast service
Date Submitted	2004-11-17
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Re:	IEEE 802.16 NetMan Task Group Call for Contribution
Abstract	This document contains additional network entity for multicast and broadcast service.
Purpose	Adopt proposed network model for multicast and broadcast service
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Network model for multicast and broadcast service

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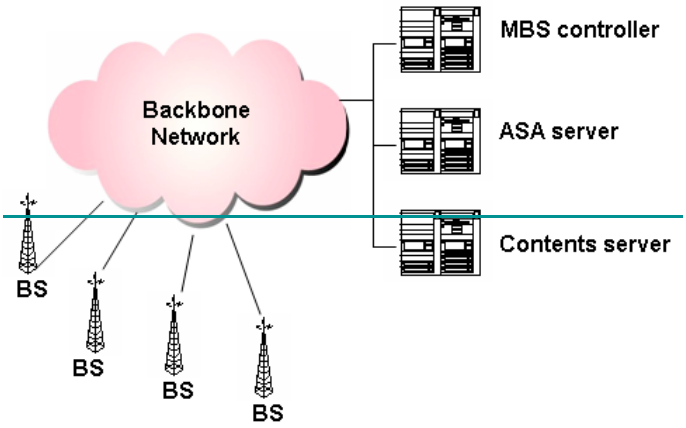
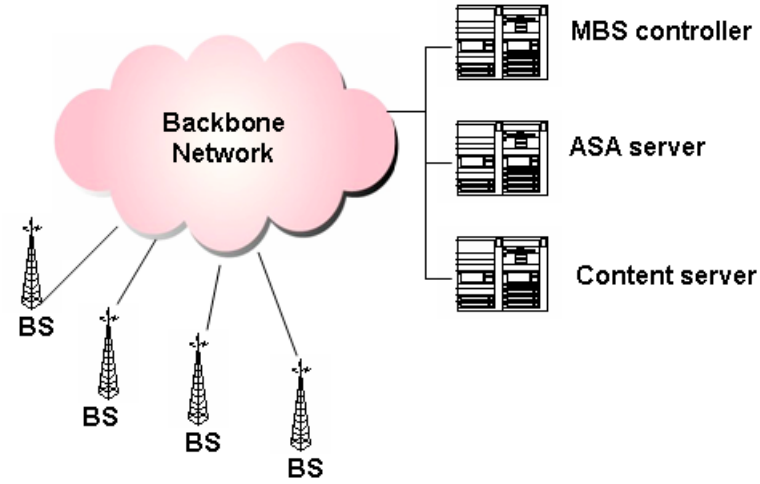
1. Network model for MBS





(1) MBS controller

An MBS controller manages ~~a~~ multicast and broadcast zones for contents of multicast and broadcast services. In each MBS zone, BSs use the same CID for a MBS content. ~~Distribution status of MBS subscribersis managed by the MBS controller and is used to decide which BS shall be contained in a multicast and broadcast zone. When a Paging controller receives location update message of MBS subscriber that is in Idle mode, the location update is also informed to the MBS controller.~~

~~Besides, t~~The MBS controller should ~~manage~~ maintain a mapping table between MBS content and ~~M~~CID if a single MBS zone contains the whole BSs for the MBS content. In case that several MBS zones cover the BSs for the MBS content, the MBS controller should maintain a mapping table between BS and CID

per MBS content. ~~and~~The MBS controller should schedule transmission of MAC PDUs of MBS content~~s~~ in each MBS zone.

(2) ASA(Authentication and Service Authorization) server

MSSs that intend to receive MBS contents should authorized by an ASA server. A successfully authorized MSS receives the decryption key for the intending MBS content. MAC PDUs of MBS content are encrypted in a higher layer.

(3) Content~~s~~ server

A content~~s~~ server sends MBS content packet~~s~~~~s~~, which are encrypted ~~by inself~~.