Clarification of Some Terminologies for 802.16j

Document Number: IEEE C802.16j-06/079r1
Date Submitted: 2006-07-12
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Venue: IEEE 802.16 Session #44, San Diego, USA
Base Document: C80216j-06_041: "Harmonized definitions and terminology for Mobile Multihop Relay"

Purpose: To further clarify some terminologies associated with 802.16j

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Some Terminologies for IEEE 802.16j

• **Cell**: The radio coverage area of a particular access station (e.g. BS, MMR-BS, or RS).

• **MMR-cell**: The radio coverage area of a MMR-BS cell and all of its subordinate RS cells.

• **R-Link**: An 802.16j radio link between an MMR-BS and an RS or between a pair of RSs. This can be a R-DL or R-UL.

• **Relay path**: A concatenated set of relay links between the MMR-BS and the access RS or vice versa (depending on the direction of traffic flow).

• **k-hop path**: A concatenated set of k-1 relay links and 1 access link between the MMR-BS and the MS or vice versa (depending on the direction of traffic flow)

• **MMR diversity set**: List of RSs, BSs, and/or MMR-BSs associated with an MS. This set is applicable to macro diversity handover, cooperative relay, and fast serving station switching.

• **Active MMR-BS**: An MMR-BS that is informed of the MS’s capabilities, security parameters, service flows, and full MAC context information. For macro diversity handover the MS transmits/receives data to/from all active MMR-BSs in the MMR diversity set.

• **Anchor MMR-BS**: In the context of Macro Diversity Handover (MDHO), cooperative relay, and Fast Serving Station Switching (FSSS), this is the MMR-BS that sends registration, ranging, synchronization, and other control information to the MS.

• **Access Station**: The station at the point of direct access into the network for a given MS or RS. An access station can be a BS, RS, or MMR-BS. An intermediate RS acts as an access station for another RS.
Definitions of MMR-Cell, R-Link and Relay-Path

MMR-Cell

R-Link

Relay-Path

2-hop
Definitions of MMR-Diversity Set

MMR-BS and RS-1 constitute the diversity set for MS-1

RS-1, RS-2, RS-3 and RS-4 constitute the diversity set for MS-3

RS-3 and RS-4 constitute the diversity set for MS-7
Definitions of Neighbor Stations

MMR-BS, RS-1 and RS-2 are the neighbor stations for MS-1

RS-1 and RS-4 are the neighbor station for RS-3
Definitions of Active MMR-BS and Anchor MMR-BS

- MMR-BS-1 is the active MMR-BS and MMR-BS-1 is the anchor BS for MS-1
- MMR-BS-1, MMR-BS-2, MMR-BS-3 and RS-1 constitute the MMR-diversity set for MS-1
- RS-1 is the access station for MS-1
  - RS-1 can not be the active RS and can not be the anchor RS
Definitions of MMR-MDHO and MMR-FBSS
Definition of Cooperative Relay, Intra-MMR-BS HO
Text Proposal

• See C80216j-06_027_R4.doc