MS Network Entry for transparent Relay Station

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For discussion and approval of inclusion of the proposed text into the P802.16j baseline document.

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Introduction

- In transparent RS systems, the MR-BS need to know information of ranging code received by RS in order to create CDMA_Alloc-IE and select the appropriate route (direct or relay).

- This contribution proposes ranging code information forwarding method in MS network entry procedure.

- Related sections in the standard:
  - 6.3.9.16 Support for network entry and initialization in relay mode
Network Entry Example

Transmitted with RS Basic CID

Transmitted with MS Basic CID

UL-MAP

CDMA Ranging Code

RNG-REQ containing status (success), code attributes

RNG-RSP

RNG-REQ (MSID)

RNG-RSP

UL-MAP (CDMA_Alloc-IE)

SBC-REQ

SBC-RSP

SBC-RSP

<select the best route>
Advantages

• To enable the MR-BS to select the appropriate route by providing code information to the MR-BS.

• To minimize new definition or changes by using the existing message with new TLVs.