
Title: HO Overview Section Cleanup 6 — Target BS Scanning Section

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Source(s): Phillip Barber
Broadband Mobile Technologies, Inc.
8302 Sebastian Inlet
Frisco, Tx 75035
Voice: +1 (972) 365-6314
Fax: +1 (925) 396-0269
mailto:pbarber@BroadbandMobileTech.com

Re: Response to IEEE 802.16e-04/06 (Call for Contributions on IEEE 802.16e/D1)

Abstract: HO Overview Section Cleanup 6 — Target BS Scanning Section

Purpose: Correct overview section flow and language in HO Overview Section

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HO Overview Section Cleanup 6

Phillip Barber

Broadband Mobile Technologies

Problem:
As currently defined, mechanics for hand-over are incomplete or poorly defined. Elements are out of order.

Remedy:
Revise hand-over process overview to more logical format and increase language clarity.

Remedy 1:
HO Cancellation previously relocated to 1.4.1.2.2.6. Move and consolidate content from 1.4.1.2.4.1 Synchronize with downlink and obtain parameters and 1.4.1.2.4.2 Obtain uplink parameters.

[Replace 1.4.1.2.2.3 HO cancellation/rejection, page 12, lines 20-29, editor will make appropriate allocation of numbering (??) for subsection:]

6.4.??.3 Target BS Scanning

MSS shall scan Target BS for downlink channel & synchronization and uplink channel & synchronization. If MSS had previously decoded a MOB_BEA-ADV message including Target BS ID, Physical Frequency, DCD and UCD, then the scanning and synchronization process may be shortened. If the Target BS had previously received HO notification from Serving BS over the backbone (see section Backbone network HO procedures), then Target BS may place a non-contention based Fast_UL_ranging_IE() (see 8.2.1.5.5.3.3 Fast ranging (Paging) Information Element, 8.3.6.3.4 Fast ranging (Paging) Information Element, and 8.4.5.3.5 & 8.4.5.3.6 Fast ranging (Paging) Information Element) MSS Initial Ranging opportunity in the UL-MAP. MSS shall scan Target BS for UL-MAP that includes either a contention or non-contention based MSS Initial Ranging opportunity.

Remedy 2:
Delete relocated section. HO Cancellation previously relocated to 1.4.1.2.2.6. Move and consolidate content from 1.4.1.2.4.1 Synchronize with downlink and obtain parameters and 1.4.1.2.4.2 Obtain uplink parameters.

[Delete 1.4.1.2.4.1 Synchronize with downlink and obtain parameters, page 13, lines 1-6:]

1.4.1.2.4.1 Synchronize with downlink and obtain parameters

For MSS that have used their scanning interval to synchronize with Target BS and have decoded the MOB_NBR-ADV message in the Serving BS, this stage should be immediate. In other situations this procedure defaults to the one specified for initial network entry.

Remedy 3:
Delete relocated section. HO Cancellation previously relocated to 1.4.1.2.2.6. Move and consolidate content from 1.4.1.2.4.1 Synchronize with downlink and obtain parameters and 1.4.1.2.4.2 Obtain uplink parameters.

[Delete 1.4.1.2.4.2 Obtain uplink parameters, page 13, lines 8-12:]

1.4.1.2.4.2 Obtain uplink parameters

For MSS’s that have decoded the MOB_NBR-ADV message, this stage should be immediate. In other situations this procedure defaults to the one specified for initial network entry.