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Enhancement of capability negotiation for Handover

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1. Introduction

In the current IEEE P802.16e/D5a, it defines some kinds of handover, such as hard handover (HHO), soft handover (SHO) and fast BS switching (FBSS). And the MSS' capability of supporting handover is negotiated in the message REG_REQ/RSP. We think that the handover type that MSS support should be negotiated during registration process. In this contribution, we propose to enhance REG_REQ and REG_RSP, so that the handover type that MSS supports can be negotiated during registration.

2. Proposed Text Changes

[Modify the 11.7.13.1 in section 11.7.13 as the following]

11.7.13 Mobility parameters support

The following parameters are associated with mobile operations.

11.7.13.1 Mobility Features supported

This field indicates whether or not the MSS supports Mobility hand-over, Sleep-mode, and Idle-mode. A bit value of 0 indicates "not supported" while 1 indicates it is supported.

| Type | Length | Value | Scope |
|------|--------|---|---------|
| 18 | 1 | Bit #0: Mobility (handover) support HHO£@hard handover) support | REG-REQ |
| | | Bit #1: Sleep-mode support | REG-RSP |
| | | Bit #2: Idle-mode support | |
| | | Bit #3: SHO support | |
| | | Bit #4: FBSS support | |
| | | Bit #5~Bit#7 reserved | |