Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Add New Primitive on MS Handover Management diagrams**
Date Submitted	**2006-03-01**
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Re:	Contribution on comments to P802.16g-D1
Abstract	In this contribution, we propose to add C-HO-NOTFY(HO-CMPLT) primitive in Figure 499 and Figure 500
Purpose	Adoption
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Add New Message Primitive on MS Handover Management diagrams

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1. Introduction

In Section 14.2.9.7 (Handover Control Protocol Procedures), Figure 499 and Figure 500 have missed primitive C-HO-NOTFY(HO-CMPLT) from NCMS to BS. This primitive should be used to release resources from serving BS after handover procedure has completed.

2. Proposed Solution

This contribution proposes to add C-HO-NOTFY (HO-CMPLT) primitive in Figure 499 and Figure 500 in section 14.2.9.7. It also modified the corresponding text in section 14.2.9.7.3.4. Subsection 14.2.9.7.3.4.3.1, 14.2.9.7.3.4.3.2, 14.2.9.7.3.4.4.1 and 14.2.9.7.3.4.4.2 have been added accordingly.

2. Detail Text Changes

[*Modify section 14.2.9.7, replace Figure 499 and 500 with the following figures*]
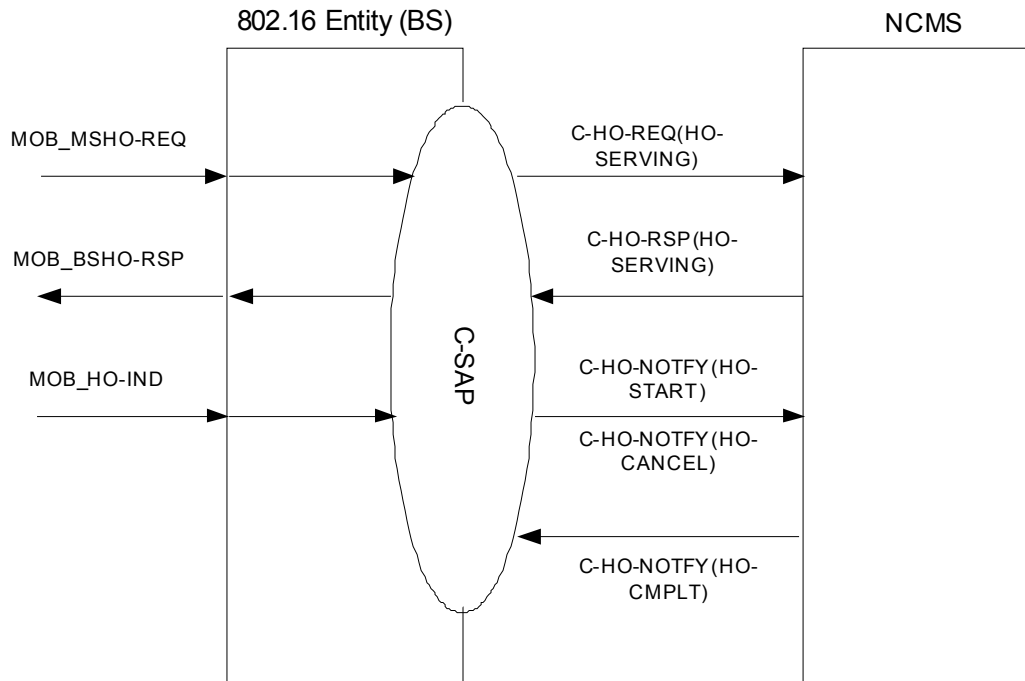
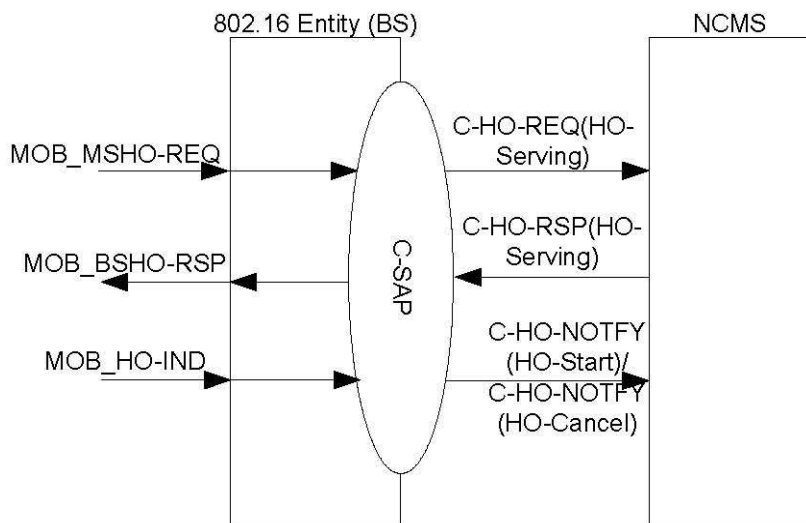Figure 499 ---- HO primitives flow between Serving BS and NCMS, BS initiated

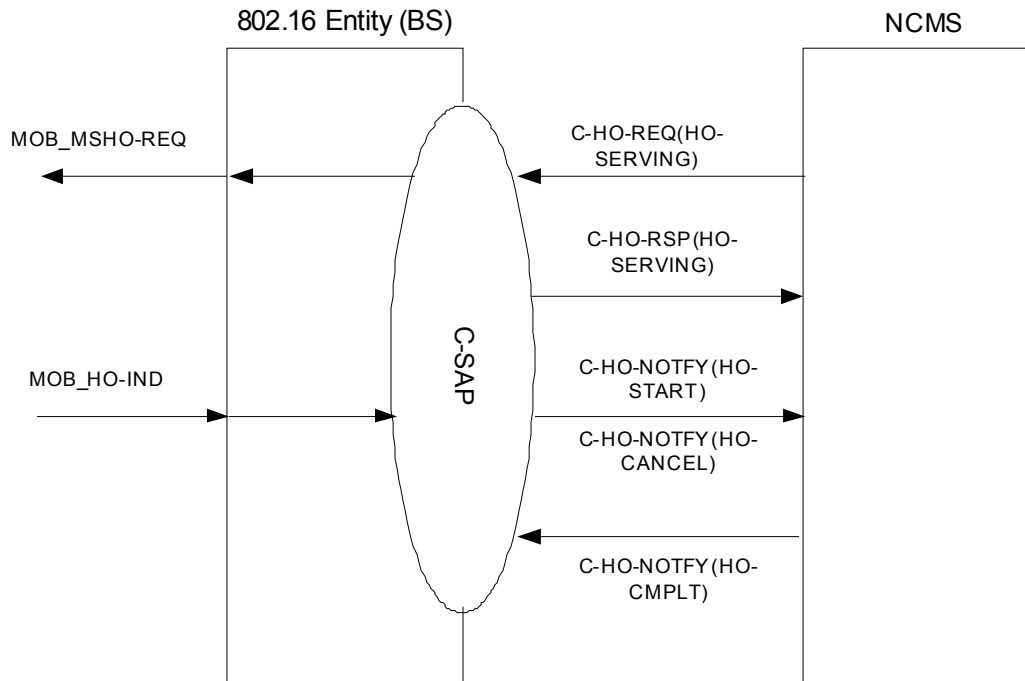Figure 499—HO primitives flow between Serving BS and NCMS, BS initiated

802.16 Entity (BS)   NCMS

MOB_MSHO-REQ

C-SAP

C-HO-REQ(HO-SERVING)

C-HO-RSP(HO-SERVING)

MOB_HO-IND

C-HO-NOTFY(HO-START)

C-HO-NOTFY(HO-CANCEL)

C-HO-NOTFY(HO-CMPLT)

Figure 500 ---- HO primitives flow between Serving BS and NCMS, NCMS initiated

802.16 Entity (BS)   NCMS

MOB_BSHO-REQ

C-SAP

C-HO-REQ(HO-Serving)

C-HO-RSP(HO-Serving)

MOB_HO-IND
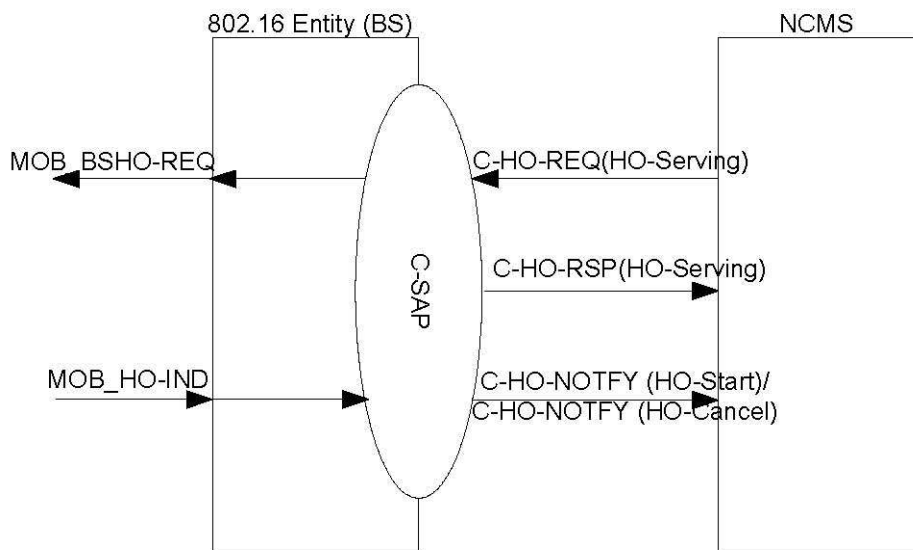
C-HO-NOTFY (HO-Start)/
C-HO-NOTFY (HO-Cancel)

Figure 500—HO primitives flow between Serving BS and NCMS, NCMS initiated

14.2.9.7.3.4 C-HO-NOTFY(Event_Type==HO-CMPLT)

14.2.9.7.3.4.1 Function

This primitive is used by both ~~Target~~ BS and ~~to notify~~ NCMS to notify the handover process is completed.

14.2.9.7.3.4.2 Semantics of the service primitive

It delivers the following parameters.

> **C-HO-NOTFY**
> (
> Message_id,
> Event_Type(HO-CMPLT),
> Object_id(NCMS or 802.16 BS Entity),
> Attribute _list:
> > Target BS ID
> > MS ID
> > Result Flag
> > List of Last received SDU SNs
>)

Target BS ID
> Base station unique identifier of the target BS

MS ID
> 48-bit unique identifier used by MS

Result Flag

List of Last received SDU SNs

(

SFID

Last received SDU SN

)

The sequence number of the last MAC SDU which the MS received before handover to the target BS. The connection associated with the SDU SN is identified by SFID when SDU SN feedback is enabled.

14.2.9.7.3.4.3 When generated

14.2.9.7.3.4.3.1 802.16 BS Entity to NCMS

This primitive is generated by target 802.16 BS Entity when the MS completes network re-entry at the target BS. If SDU SN feedback is enabled, the target 802.16 BS Entity shall generates this primitive after it has received SN report header.

14.2.9.7.3.4.3.2 NCMS to 802.16 BS Entity

This primitive is generated by NCMS after finishing handover process in NCMS side. It is used to inform serving BS to release its corresponding resource.

14.2.9.7.3.4.4 Effect of receipt

14.2.9.7.3.4.4.1 802.16 BS Entity to NCMS

NCMS completes handover procedure.

14.2.9.7.3.4.4.2 NCMS to 802.16 BS Entity
BS releases its resource for MS accordingly.