

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Initial network entry procedure to the Femto ABS in unavailable interval (15.4.10)	
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Re:	IEEE 802.16m-09/0044, "IEEE 802.16 Working Group Working Group Letter Ballot #30"	
Abstract	Propose to support wake-up procedure during the unavailable interval to shorten the service interruption time and minimize the impact of low-duty operation.	
Purpose	To be discussed and adopted in P802.16m/D1.	
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Low-Duty Operation Mode and Wake-up Procedure in Femtocell (15.4.10)

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Introduction

When a Femto ABS is in unavailable interval of the low-duty operation mode, AMS cannot initiate initial network entry since the Femto ABS does not send any signal during unavailable interval therefore AMS even does not recognize the existence of the Femto ABS. In this contribution, we propose the text to support initial network entry to Femto ABS that is in the unavailable interval.

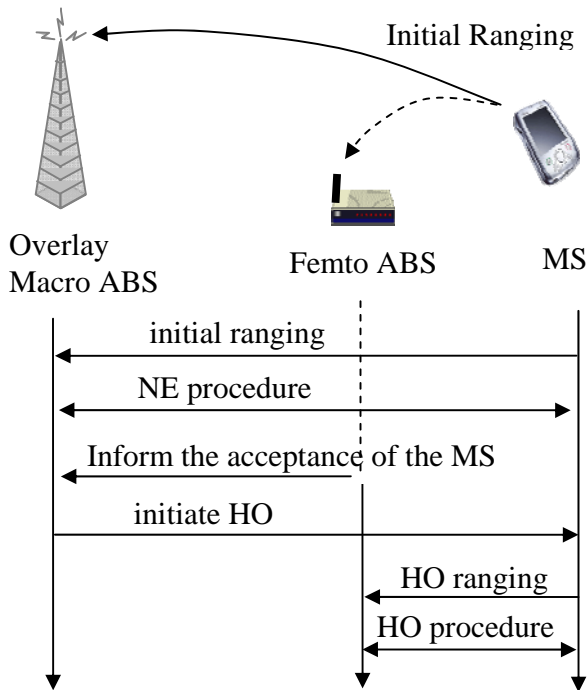


Figure 1: initial network entry to the Femto ABS in unavailable interval: scenario(1)

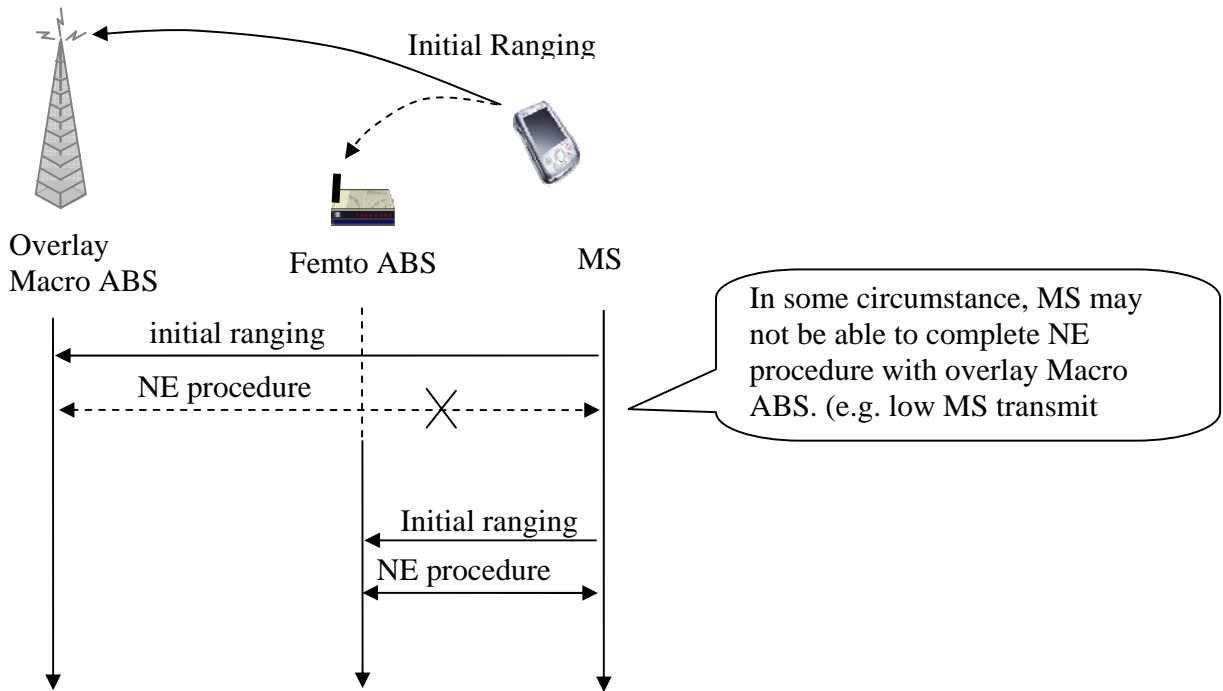


Figure 2: initial network entry to the Femto ABS in unavailable interval: scenario(2)

Proposed Text

[Insert the following new text as a new subclause 15.4.10.x after 15.4.10.1]

===== Start of the Text =====

15.4.10.x Initial network entry procedure to the Femto ABS in unavailable interval

An Femto ABS in unavailable interval may monitor activities of the overlay Macro cell especially its initial ranging region and the response of the overlay Macro ABS. When Femto ABS detect that the MS that has sent initial ranging code to the overlay Macro ABS could be served by itself, it may either inform the overlay Macro ABS that it is possible to accept the MS to HO to the Femto ABS over the network, or enter normal operation mode and wait for the MS to start initial network entry procedure with the Femto ABS. In the former case, the Femto ABS shall be in normal operation mode when the HO process begins.

===== End of Proposed Text =====