

Project	IEEE 802.16 Broadband Wireless Access Working Group < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	Service Primitive for Paging Group Action	
Date Submitted	2005-07-19	
Source(s)	Jee Hyeon Na, Yun Won Chung, PhD Sang Ho Lee, PhD ETRI, 161, Gajeong-dong, Yuseong-gu, Daejeon, 305-700, Korea	<a href="mailto:jhna@etri.re.kr">jhna@etri.re.kr</a> <a href="mailto:yun.chung@etri.re.kr">yun.chung@etri.re.kr</a> <a href="mailto:leesh@etri.re.kr">leesh@etri.re.kr</a> Voice: +82-42-860-5408 Fax: +82-42-861-1966
Re:	Call for Comment on P802.16g Baseline Document	
Abstract	This contribution proposes service primitive for paging group action	
Purpose	The document should be considered during the resolution of comments on the baseline document.	
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# Service Primitive for Paging Group Action

Jee Hyeon Na, Yun Won Chung, and Sang Ho Lee

ETRI, Korea

## Problem Statement

The location information of an idle MSS is managed by the unit of Paging Group in Paging Service of an NCMS, and paging messages are sent to all the BSs within the called MSS's Paging Group. The NCMS should divide the whole service area into multiple Paging Groups and notify this Paging Group information to all the BSs within the service area, where a BS may be a member of one or more Paging Groups. In this contribution, we propose a service primitive for Paging Group Action which is exchanged through Management Service Access Point (M-SAP) of Management Plane specified in IEEE 802.16g baseline document. Paging Group Action is performed by Paging Service of an NCMS, as shown in Fig. 1.

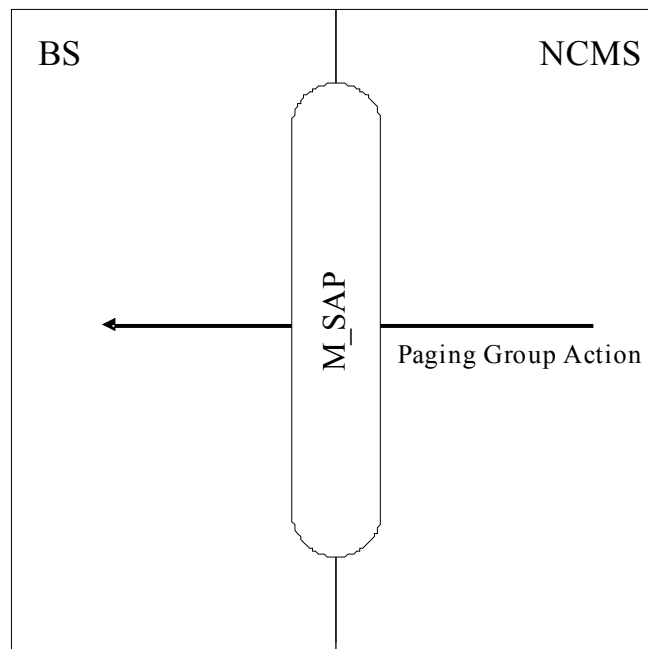


Fig. 1 - Paging Group Action Primitive

## Summary of the Proposed Remedy

In this contribution, we define a primitive for supporting Paging Group Management between a BS and an NCMS, which is described briefly in the following table.

Primitive	Direction	Primitive Contents
Paging Group Action	NCMS -> BS	Paging Controller ID, Number of Paging Group IDs, Paging Group ID List

## Proposed Text Changes

[Modify section 14.5.9.2 as follow]

## 14.5.9.2 Paging Management

### 14.5.9.2.1 Paging Group Management

#### 14.5.9.2.1.1 Paging Group Management Procedure

The location information of an idle MSS is managed by the unit of Paging Group in Paging Service of an NCMS, and paging messages are sent to all the BSs within the called MSS's Paging Group. The NCMS should divide the whole service area into multiple Paging Groups and notify this Paging Group information to all the BSs within the service area, where a BS may be a member of one or more Paging Groups. In this contribution, we propose service primitive for Paging Group Action which is exchanged through Management Service Access Point (M-SAP) of Management Plane specified in IEEE 802.16g baseline document. Paging Group Action is performed by Paging Service of an NCMS, as shown in Fig. 2

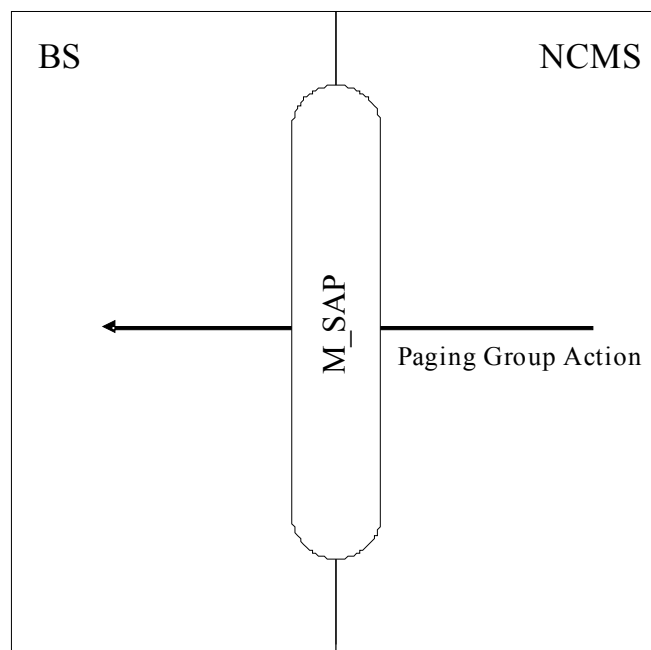


Fig. 2 - Paging Group Action Primitive

#### 14.5.9.2.1.2 Service Primitive for Paging Group Management

##### 14.5.9.2.1.2.1 Paging Group Action

###### 14.5.9.2.1.2.1.1 Function

This primitive is issued by an NCMS to inform a BS of Paging Group ID(s) of the BS.

###### 14.5.9.2.1.2.1.2 Semantics of the service primitive

The parameter of the primitive is as follows:

Paging Group Action

(

Paging Controller ID  
Number of Paging Group IDs  
Paging Group ID List

)

Paging Controller ID

The Paging Controller ID is a logical network identifier for the serving BS or other network entity retaining MSS service and operational information and/or administering paging activity for the MSS while in Idle Mode.

Number of Paging Group IDs

The number of Paging Group IDs in this primitive.

Paging Group ID List

List of Paging Group IDs of a BS (eg, Paging Group ID1, Paging Group ID2, ... , Paging Group IDn)

#### 14.5.9.2.1.2.1.3 When generated

This primitive is generated when an NCMS initializes or updates paging group configuration information and notifies the information to a BS.

#### 14.5.9.2.1.2.1.4 Effect of receipt

When the BS receives this primitive, it updates its Paging Group ID information according to the delivered Paging Group ID List, and broadcasts the updated Paging Group ID information in MOB\_NBR-ADV message.

## References

[1] IEEE 802.16e/D9

[2] IEEE 802.16g-04/03r3, "Baseline Document – P802.16g Management Plane Procedures and Services"

[3] IEEE Std 802-16-2004