

Project	IEEE 802.21 Media Independent Handover Services < http://www.ieee802.org/21/ >	
Title	Pre-acquisition of System Parameters	
Date Submitted	March 6, 2007	
Source(s)	Jin Lee LG Electronics, Inc. 533,Hogye-1dong,Dongan-gu, Anyang-shi, Kyongki-do, Korea	Voice: +82-31-450-1856 Fax: +82-31-450-7912 [mailto: jins978@lge.com]
Re:	IEEE 802.21 Session #19 in Orlando	
Abstract	This contribution proposes to achieve system parameters before media independent handover.	
Purpose	Update 802.21 D04.00 draft to support seamless Media Independent Handover	
Notice	This document has been prepared to assist the IEEE 802.21 Working Group. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.	
Release	The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE's name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE's sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.21.	
Patent Policy	The contributor is familiar with IEEE patent policy, as outlined in Section 6.3 of the IEEE-SA Standards Board Operations Manual < http://standards.ieee.org/guides/opman/sect6.html#6.3 > and in <i>Understanding Patent Issues During IEEE Standards Development</i> < http://standards.ieee.org/board/pat/guide.html >.	

Pre-acquisition of System Parameters

Jin Lee
LG Electronics, Inc.

1. Introduction

We have discussed effects of system parameters such as DCD and UCD in IEEE 802.16 handover performance. According to [1], reducing synchronization time in IEEE 802.16 system plays a key role to optimize handover performance. Also in [2], UE tries to achieve access parameters including system information block (SIB)s in order to provide a speedy initial access from its target eNB before handover execution.

Having said that, handover performance can be improved gracefully if system parameters for synchronization can be attained in advance. Therefore this contribution proposes system parameters in IEEE 802.16, 3gpp and 3gpp2 shall be obtained through the information service.

2. Proposed Text Changes

Remedy 1:

System parameter information elements shall be defined for information services.

[In 6.4.3 Information service elements, page 50, line 16, table 7 modified]:

Table 7 – Information elements

PoA Specific Information Elements			
No	Name of information elements	Description	Reference
3.5	Type_IE_POA_SystemParameters	System parameters supported by the link layer of a given PoA	6.4.5.3.x System Parameters

[In 6.4.5.3.x System Parameters, page 61, line 64 Inserted]:

[6.4.5.3.x System Parameters](#)

Type= Type_IE_SystemParameters	Length = Variable
SystemParameter Value [Variable] –See Table xx	

[Table xx](#)

Syntax	Length(Octet)	Notes
------------------------	-------------------------------	-----------------------

<u>SystemParameter Value</u>	<u>Variable</u>	<u>This value includes system parameters supported by a given PoA, this is independent on the network type.</u> <u>Network type : IEEE 802.16, 3gpp and 3gpp2 etc</u> <u>IEEE 802.16 – UCD, DCD, UIUC, DIUC</u> <u>3GPP – Master Information Block, System Information Block Types</u> <u>3GPP2 – (Extended) System Parameters</u>

4. References

- [1] 21-06-0524-01-0000-802_16_Parameter_Effects_on_Handover_Performance
- [2] R2-071124 E-UTRAN Stage 2 TS 36300 v090
- [3] 3GPP2 C.S0005-D Version 1.0