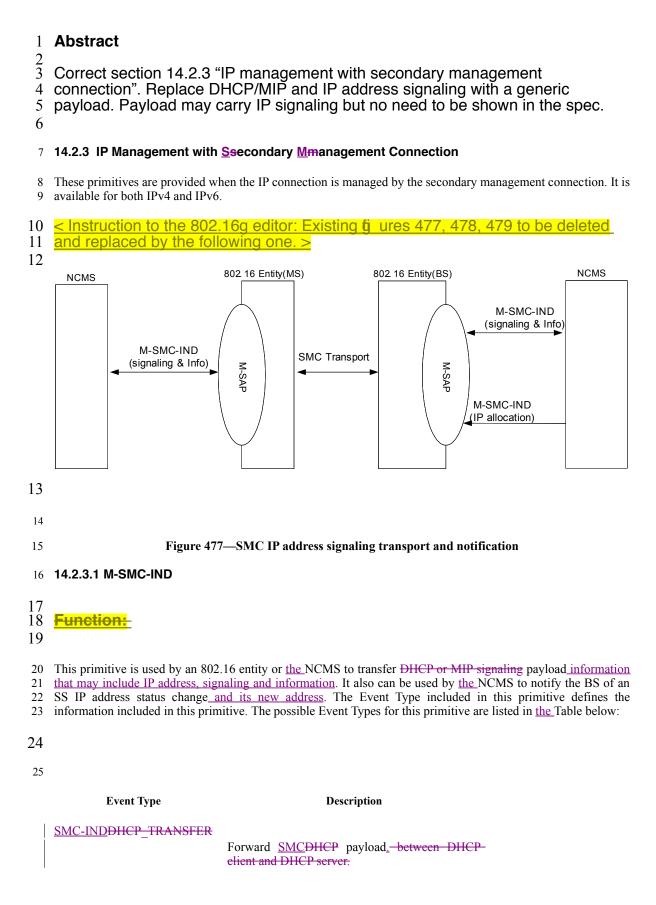
Project	IEEE 802.16 Broadband Wireless Access Working Group < <u>http://ieee802.org/16</u> >
Title	Secondary Management Connection Transport
Date Submitted	2007-01-18
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Re:	
Abstract	Fixes to section 14.2.3
Purpose	Adoption, Replacing IP signaling with simple payload
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3	Changes to Section 14. 2. 3
4 5 6 7	Peretz Feder - Alcatel Lucent Phil Barber - Huawei



MIP_TRANSFER	Forward MIP payload between MIP elient and- MIP agent
IP_ALLOCATION	NCMS notify the BS of a SS/MS' IP address status change

26

## 27 14.2.3.1.1 M-SMC-IND (Event\_Type==DHCP\_TRANSFERSMC-IND)

#### 28 **Function:**

- 29 DHCP payloads are exchanged between an DHCP Client and a DHCP Server entity. The DHCP payloads are
- 30 encapsulated in the DHCP Transfer primitive because it is not interpreted in the 802.16 entity.
- 31 SMC payload is sent from NCMS (BS) to 802.16 Entity (BS).

## 32 Semantics of the service primitives:

33 The parameters of the primitives are as follows:

34	M-SMC-IND
35	
36	Event_Type( <u>SMC-IND</u> ) <del>DHCP_TRANSFER</del> ),
37	Destination(SS, <del>or</del> BS, or NCMS),
38	Attribute list:
39	SS MAC Address
40	<u>SMCDHCP</u> Payload
41	)
42	
43	SS MAC Address
44	48-bit unique identifier used for the 802.16 entityuser identification, between BS and
45	NCMS
46	SMCDHCP Payload
47	Contains the DHCP SMC payload

## 48 When generated:

49	•802.16 entity to NCMS:
50	This primitive is generated when the 802.16 entity sends receives DHCP to the NCMS traffic
51	received over the secondary management connection.
52	•NCMS to 802.16 entity:
53	This primitive is used when the <u>NCMS DHCP entity in NCMS sends DHCP wants to send SMC</u>
54	traffic- <u>over the airto an 802.16 entity</u> .

# 55 Effect of receipt:

56	•802.16 entity to NCMS:
57	On receipt of this primitive from the M-SAP, the NCMS examines the payload. If it contains IP
58	address signaling, the NCMS will engage the proper signaling agent (DHCP or MIP) The DHCP entity
59	(server or relay) in NCMS processes the DHCP signaling.
60	•NCMS to 802.16 entity:

61 On receipt of this primitive tFhe 802.16 entity transfers the SMC payload over the air. transmits
62 DHCP payload from the primitive over secondary management connection.

#### 63 14.2.3.1.2 M-SMC-IND (Event\_Type=MIP\_TRANSFER)

# 64 Function:

- 1 MIP payloads are exchanged between a mobility entity in the NCMS. The MIP payloads are encapsulated in the
- 2 MIP Transfer primitive because it is not interpreted in the 802.16 entity.

## **3** Semantics of the service primitives:

4 The parameters of the primitives are as follows:

5	M-SMC-IND
6	$\mathbf{t}$
7	Event Type(MIP TRANSFER),
8	Destination(MS, or BS, or NCMS),
9	Attribute list:
10	- MS MAC Address
11	MIP Payload
12	+
13	
14	MS MAC Address
15	48-bit unique identifier used for user identification between BS and NCMS
16	MIP Payload
17	Contains the MIP payload
18	

## 19 When generated:

20	+802.16 entity to NCMS:
21	This M-SMC-IND (MIP TRANSFER) primitive is generated when the 802.16 entity receives
22	MIP signaling traffic over secondary management connection.
23	•NCMS to 802.16 entity:
24	This primitive is used when the MIP agent in NCMS sends MIP signaling traffic to an 802.16
25	entity.

# 26 Effect of receipt:

- •802.16 entity to NCMS:
- 28 The MIP entity in NCMS processes the MIP signaling. .
- 29 •NCMS to 802.16 entity:
- 30 The 802.16 entity transmits MIP payload from the primitive over secondary management-
- 31 connection.

#### 32 14.2.3.1.3-2 M-SMC-IND\_(Event\_Type==IP\_ALLOCATION)

## 33 Function:

- 34 When the After MIP or DHCP exchanges are completed, the status of IP address for a SS/MS ismay be changed ...
- 35 the For the BS, NCMS in the BS\_may notify the BS BS of the new status of the IP SS/MS address of the SS/MS.
- 36 If the status value is NEW, the NCMS sends thea new allocated IP address-\_for the SS/MS in this primitive. This

37 primitive is only <u>sent from the NCMS to the BS</u>.

#### 38 Semantics of the service primitives:

39 The parameters of the primitives are as follows:

40	M-SMC-IND
41	(
42	Event_Type_(IP_ALLOCATION),
43	Destination_(BS),
44	Attribute _list:
45	SS MAC Address
46	Status
47	IP Address

1	)
2	
3	SS MAC Address
4	48-bit unique identifier used for user identification between BS and NCMS
5	Status
6	The status of the IP address of a SS/MS. The value may be NEW, REMAIN,
7	RELEASE
8	IP Address
9	If the Status value is NEW, this parameters should be thea new allocated address
10	allocated of to the SS/MS using DHCP or MIP.
11	

# 12 When generated:

13 This primitive is issued by thea NCMS (a DHCP client or a Mobility Agent) when the IP address of the SS has

14 <u>changed</u>exchange procedure are successfully completed.

# 15 Effect of receipt:

16 The BS learns knows about the status and the new IP address and its status of the SS.

17