Project	IEEE 802.16 Broadband Wireless Access Working Group <http: 16="" ieee802.org=""></http:>			
Title	802.16j Relay Mobility Management-Idle/Sleep Adhoc Conference Call #1 Minutes			
Date Submitted	2007-05-2			
Source(s)	David Comstock dcomstock@huawei.com Voice: +1 858 735 9382			
Re:	IEEE 802.16j-07/007r2: "Call for Technical Comments and Contributions regarding IEEE Project 802.16j"			
Abstract	802.16j Relay Mobility Management-Idle/Sleep Adhoc Conference Call #1 Minutes			
Purpose	This contribution is submitted for discussion and adoption in 802.16j.			
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802.16j Relay Mobility Management-Idle/Sleep Adhoc Conference Call #1 Minutes

Chair: David Comstock Vice Chair: Yuefeng Zhou

Details of the call:

Date/time: Monday, April 2: GMT 23:00-25:00 (2 hours)

Monday, April 2 NA PDT 16:00 NA CDT 18:00 NA EDT 19:00 Tuesday, April 3 China 07:00 Japan/Korea 08:00

Agenda:

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1. Roll Call
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Last Name:	First Name:	Email:
Chen	David	David.T.Chen@motorola.com
Chion	Mary	mchion@zteusa.com
Comstock	David	dcomstock@huawei.com
Fong	Mo-Han	mhfong@nortel.com
Hui	Junhong	junhonghui@etri.re.kr
Lee	Yung-Ting	lyd@nmi.iii.org.tw
Lee	Youn-Tai	lyt@nmi.iii.org.tw
Loa	Kanchei (Ken)	loa@nmi.iii.org.tw
Okuda	Masato	okuda@jp.fujitsu.com
Ramachandran	Shyamal	Shyamal.Ramachandran@motorola.com
Ren	Fang-Ching (Frank)	frank_ren@ITRI.ORG.TW
Saifullah	Yousuf	Yousuf.Saifullah@nokia.com
Shen	Gang A	Gang.A.Shen@alcatel-sbell.com.cn
Sheu	Shiann-Tsong	stsheu@ce.ncu.edu.tw
Shvodian	Bill	bill.shvodian@ieee.org
Yin	Hua-Chiang	hcyin@nmi.iii.org.tw
Zhang	Kaibin	kaibin.zhang@alcatel-sbell.com.cn
Zhou	Yuefeng	Yuefeng.Zhou@uk.fujitsu.com

2. Review of the deferred comments/contributions identified in 80216j-07_011r3:

Number:	Com	ment:	Title:	Category:	Sub Category:	Status:
7_205r1	LL149		Sleep Mode Operations for distributed scheduling in MR Network	Mobility management	Sleep/idle mode	Deferred
Area:		• RS s	support for MS sleep			
Summary	:	 A ne ackr intro 	ew MAC header is introduced whi nowledge receipt of MS information not be context of MS sleep	ch an RS sends to a on from a message o mode but is able t	a superordinate node (sent to an MS. The he o be used for any MAC	MR-BS/RS) to ader is Cmessage.
Depender	icies:	 For sleep mode, this contribution is dependent on 7_245 which proposes that a MOB_SLP_RSP messages from the MR-BS to get sleep information for an MS. T contribution provides acknowledgement. Both 7_205r1 and 7_245 are dependent on the security policy determined for r networks. MS messages are protected by the HMAC/CMAC keys, which are curr known by the MS and the MR-BS. 				an RS snoops This relay irrently only
Questions Issues:	:/	 Why is the acknowledgement from the RS r In 802.16e there is no MAC message fro Since there may be multiple RS links, the performance of 802.16e. The MR-BS should not consider the MS from RS. It was requested to see sequence diagr 		ne RS needed? sage from the MS a inks, the acknowled he MS in sleep unle e diagrams for the s	cknowledging MOB_SL dgement is needed to r ess the acknowledgeme sleep scenarios.	P_RSP. match the ent is received
Action ite	ms:	 Prop case Prop Adhe 	onent of 7_205 to provide motive on the [MOB Adhoc] email list. onent of 7_205 to provide seque oc] email list.	ation for the ackno	wledgement for the Moneton the Moneton the Moneton the Moneton term and term an	DB_SLP_RSP

Number:	Com	ment:	Title:	Category:	Sub Category:	Status:	
7_245	118		Obtaining Sleep Mode Information in RS with distributed scheduling	Mobility management	Sleep/idle mode	Deferred	
Area:	Area: • RS s		S support for MS sleep				
Summary: • Propinfor		 Prop infor 	oses that an RS snoops MOI mation for an MS.	B_SLP_RSP messa	ages from the MR-B	S.to get sleep	
Dependencies: • See		• See	e notes for 7_205 above.				
Questions/ • See		• See	notes for 7_205 above.				

Number:	Com	ment:	Title:	Category:	Sub Category:	Status:
7_010r6	116		Sleep Mode in MR network	Mobility management	Sleep/idle mode	Deferred
Area:		• RS	support for MS sleep			
Summary:		 Nev solu 	v MAC messages are introduction has the same purpose	duced to provide an e as 7_245/205 but	RS with sleep information does not have an issue w	n of MS. This vith security.
Dependen	cies:	• The	re is a possible dependend	cy on whether RS ca	n snoop messages sent t	o MS. If so,

	some (but not all) in the MOB Adhoc believe this solution is not necessary, rather 7_245 is sufficient.
Questions/ Issues:	 The main issue is whether this solution is needed if RS can snoop messages sent to MS. would 7_245 be sufficient in this case? Some in the group think that this solution is sufficient and does not require snooping into MS messages to find the MOB_SLP_RSP message. Others believe that the additional signaling required by this solution is not efficient and results in latency.
Action Items:	• All to discuss on the [MOB Adhoc] email list their views on whether this solution is needed if RS can snoop MS messages.

Number:	Com	ment:	Title:	Category:	Sub Category:	Status:
7_035r2	31		MS Sleep Mode in MR network	Mobility management	Sleep/idle mode	Deferred
Area: • RS support for MS sleep						
Summary: • New MAC messages are introduced to provide an RS with sleep inform			n RS with sleep informa	ation of MS.		
Dependencies: • This proposal has been		s proposal has been harm	onized with 7_010r	6.		
Questions/ • See notes for 7_010r6 above. Issues:		9.				

Number:	Comment:		Title:	Category:	Sub Category:	Status:
7_066r2	76		RS Sleep Mode	Mobility management	Sleep/idle mode	Deferred
Area:		• RS sle	eep			
Summary:		 Sleep 	for RS is proposed for	power savings and	interference reduction.	
Dependen	cies:	• RS sle	eep window dependent	of sleep windows o	f MSs being served.	
Questions Issues:	 In RS partial sleep mode will RS still try to recieve MAP? RS will still send out control information. How is sleep window determined? It is controlled by BS and is dependent on the sleep windows serving. In 802.16e, an MS can always transmit when it wants to come o asleep, the MS may transmit outside of RS listening window. How synchronized? Is there a better solution for RS power saving and interference retter sleep mode as defined in 802.16e? 		eve MAP? he sleep windows of the wants to come out of sle ning window. How can R nd interference reduction	MSs that an RS is eep. If the RS is S and MS sleep be n besides reusing		
Action Iter	ms:	• Proponent of 7_066r2 to respond to the question regarding coordination of RS and MS sle on the [MOB Adhoc] email list.				of RS and MS sleep

Number:	Comment:		Title:	Category:	Sub Category:	Status:
7_262r1	L119		MS Idle Mode in Relay System	Mobility management	Sleep/idle mode	Deferred
Area:		RS support for Idle mode				
Summary: • RS rela		• RS r	elays DREG-REQ/CMD messa	ages between MS a	and MR-BS for MS Idle	Mode Initiation

	and relays RNG-REQ/RSP messages between MS and MR-BS for MS Network Re-entry from Idle Mode and for MS Location Update. For paging MR-BS shall provide MS paging information to RS.
Dependencies:	Possibly 7_004.
Questions/ Issues:	 Proponent should look at 7_004 (accepted in session #48) to see if there are dependencies with this contribution. More details are needed about the new TLV required for the MR-BS to provide MS paging information to RS.
Action Items:	 Proponent to look at 7_004 to see if there are dependencies with this contribution. Proponent to upload revision with details about the new TLV required for the MR-BS to provide MS paging information to RS.

- 3. Review of the status of the open topics to be considered by the ad-hoc and determination of the next steps.
 - See Action Item review below.
- 4. Identification/discussion of any new topics to be considered by the ad-hoc to complete the baseline.
 - It was strongly stated by one participant that the mobility management adhoc should also treat other contributions in the Mobility Management area that were deferred in session #48.
 - Action Item: To address this, the adhoc chair and vice chair will consult with the 802.16j leadership, consider the opinions of the other group members, and consider the amount of time available after the initial contributions are addressed.

Subject:	Action Item
7_205	 Proponent of 7_205 to provide motivation for the acknowledgement for the MOB_SLP_RSP case on the [MOB Adhoc] email list. Proponent of 7_205 to provide sequence diagrams for the sleep scenarios on the [MOB Adhoc] email list.
7_010r6	 All to discuss on the [MOB Adhoc] email list their views on whether this solution is needed if RS can snoop MS messages.
7_066r2	 Proponent of 7_066r2 to respond to the question regarding coordination of RS and MS sleep on the [MOB Adhoc] email list.
7_262r1	 Proponent to look at 7_004 to see if there are dependencies with this contribution. Proponent to upload revision with details about the new TLV required for the MR-BS to provide MS paging information to RS.
Consideration of other contributions	• The adhoc chair and vice chair will consult with the 802.16j leadership, consider the opinions of the other group members, and consider the amount of time available after the initial contributions are addressed.

5. Review of action items

- 6. Plan for the next ad-hoc meeting
 - The next meeting will be planned after April 6.