802.16j Relay Mobility Management-Idle/Sleep Adhoc **Conference Call #1 Minutes**

David Comstock Chair: 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:

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

Number:	Comment:	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	support for MS sleep				
Summary	 A new MAC header is introduced which an RS sends to a superordinat (MR-BS/RS) to acknowledge receipt of MS information from a messag an MS. The header is introduced in the context of MS sleep mode but be used for any MAC message. 					
Depender	RS for • Bot rela	 For sleep mode, this contribution is dependent on 7_245 which proposes the RS snoops MOB_SLP_RSP messages from the MR-BS to get sleep informat for an MS. This contribution provides acknowledgement. Both 7_205r1 and 7_245 are dependent on the security policy determined relay networks. MS messages are protected by the HMAC/CMAC keys, whila are currently only known by the MS and the MR-BS. 				
Questions Issues:	 Why is the acknowledgement from the RS needed? In 802.16e there is no MAC message from the MS acknowledging MOB_SLP_RSP. Since there may be multiple RS links, the acknowledgement is needematch the performance of 802.16e. The MR-BS should not consider the MS in sleep unless the acknowledgement is received from RS. It was requested to see sequence diagrams for the sleep scenarios. 				eeded to	
 Action items: Proponent of 7_205 to provide motivation for the acknowledgement MOB_SLP_RSP case on the [MOB Adhoc] email list. Proponent of 7_205 to provide sequence diagrams for the sleep scenthe [MOB Adhoc] email list. 						

Number:	Comr	nent:	Title:	Category:	Sub Category:	Status:
7_245	118		Obtaining Sleep Mode Information in RS with distributed scheduling	Mobility management	Sleep/idle mode	Deferred
Area: • RS support for MS sleep						
Summary: • Proposes that an RS snoops MOB_SLP_RSP messages from the MR-BS. sleep information for an MS.			ne MR-BS.to get			
Dependencies: • See notes for 7_205 above.						
Questions/ • See Issues:		• See	e notes for 7_205 above.			

Number:	Comment:	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	MS	 New MAC messages are introduced to provide an RS with sleep informatio MS. This solution has the same purpose as 7_245/205 but does not have issue with security. 			
lfs		ere is a possible depend so, some (but not all) in her 7_245 is sufficient.	5		,

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:	Comment:		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 MS.		information of				
Depende	Dependencies: • This proposal has been harmonized with 7_010r6.					
Question: Issues:	• 50		e notes for 7_010r6 ab	ove.		

Number:	Comment:	Title:	Category:	Sub Category:	Status:
7_066r2	76	RS Sleep Mode	Mobility management	Sleep/idle mode	Deferred
Area:	• RS s	leep			
Summary	Slee	p for RS is propose	d for power savin	gs and interference re	eduction.
Dependen	cies: • RS s	leep window depen	dent of sleep win	dows of MSs being se	erved.
Questions Issues:	 In R How How In 8ⁱ In 8ⁱ In 8ⁱ Is the last of the last of	How is sleep window determined?			
Action Ite	Items: • Proponent of 7_066r2 to respond to the question regarding coordination of R and MS sleep on the [MOB Adhoc] email list.			oordination of RS	

Number:	er: 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	r:	 RS relays DREG-REQ/CMD messages between MS and MR-BS for MS Idle M Initiation and relays RNG-REQ/RSP messages between MS and MR-BS for M Network Re-entry from Idle Mode and for MS Location Update. For paging M BS shall provide MS paging information to RS. 				MR-BS for MS
Depende	ncies:	Possibly 7_004.				
Questions/ Issues:Proponent should look at 7_004 (accepted in session #4 dependencies with this contribution.• More details are needed about the new TLV required for						

MS paging information to RS.
 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.