

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Relay TG ad-hoc Group ‘Routing/Connection Mgmt’: Minutes for 3 Conference Calls	
Date Submitted	2007-5-2	
Source(s)	G.Q Wang (Chair)	guoqiang@nortel.com
	Nortel	Voice: 613-765-4195
Re:	IEEE 802.16j-07/011r3: “Session #48 802.16 Relay TG Session Summary/Closing Remarks (Rev.3)”	
Abstract	The meeting minutes of the 3 Relay TG ‘Routing/Connection Mgmt’ ad-hoc conference calls	
Purpose	Summarize 3 conference calls for Relay TG ‘Routing/Connection Mgmt’ ad-hoc group	
Notice	This document has been prepared to assist IEEE 802.16. 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 802.16.	
Patent Policy and Procedures	The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures < http://ieee802.org/16/ipr/patents/policy.htm >, including the statement "IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard." Early disclosure to the Working Group of patent information that might be relevant to the standard is essential to reduce the possibility for delays in the development process and increase the likelihood that the draft publication will be approved for publication. Please notify the Chair < mailto:chair@wirelessman.org > as early as possible, in written or electronic form, if patented technology (or technology under patent application) might be incorporated into a draft standard being developed within the IEEE 802.16 Working Group. The Chair will disclose this notification via the IEEE 802.16 web site < http://ieee802.org/16/ipr/patents/notices >.	

Relay TG ad-hoc Group ‘Routing/Connection Mgmt’: Minutes for 3 Conference Calls

Attendees:

Fujitsu: Yuefeng Zhou, Mike Hart

Samsung Thales: Kyu Ha Lee, Changkyoon Kim, Young-jae Kim

Nokia: Haihong Zheng, Yousuf Saifullah

Motorola: Shyamal Ramachandran

Ill: Ken Loa

Itri: Chie Ming Chou

Thomson: Hang Liu

Nortel: G.Q Wang

The 3rd "Routing/Connection Mgmt" ad-hoc conference call is summarized as follows:

Date: May 1, 2007.

Time: GMT 13:00

Ad Hoc group decisions for all discussed contributions:

1) Three contributions recommended to baseline document:

- a) 07/032r4 "topology discovery in multi-hop relay system"
- b) 07/190r2 "relay path mgmt during network entry"
- c) 07/272 "Connection mgmt for MBS"

2) Nine contributions recommended to RTG group discussion

a) 07/192 "relay path mgmt during service flow addition"

Comment: consider harmonization with 07/244 (and 07/230 ?)

Action: seek harmonization in session #49

b) 07/209r2: "Neighbor path metric in neighbor info"

Comment: make alignment with 07/311 by removing "vendor OUI"

Action: submit a revision. Shyamal would organize a discussion with 311 authors to seek the possibility to move "vendor OUI" into 311

c) 07/210r3 "Centralized tunnel mgmt"

Comment: different opinion on tunnel QoS processing

Action: leave it to RTG group discussion

d) 07/211r3 "Distributed tunnel mgmt"

Comment: different opinion on the need of distributed tunnel

Action: leave it to RTG group discussion

e) 07/230 "Service flow mgmt for RS"

Comment: suggested consider tunnel case. Security issue

Action: submit a revision. Seek harmonization with 244r3 (192?) in session #49

f) 07/244r3 "service mgmt with distributed RS scheduling"

Comment: SF CID semantic. SF parameter quantified for tunnel. Suggest remove embedded CID portion to make the consistency with baseline doc for path/CID binding

Action: submit a revision. Seek harmonization with 230 (192?) in session #49

g) 07/254r1 "Mgmt CID allocation"

Comment: part of ranging process is still HVAC/CAM protected. There is no security association between two adjacent RS. How to handle localized network entry is not clear described.

Action: leave it to RTG group discussion

h) 07/264r4 "Tunnel establishment"

Comment: centralized radio scheduling is only for per-flow-CID, not for tunnel.

group members have different view on this topic. Need more discussion on the relationship between connectivity (per-flow/tunnel) and radio allocation mode (centralized/distributed)

Action: Leave it to RTG group discussion.

i) 07/268r2 "The management operations for Multi-RSs when using Tunnel CID"

Comment: elaborate more details from introduction portion into suggested context (first section)
Moving second portion into MAC header section which is under discussion with 07/198.

Action: submit a revision, and align with MAC header discussion.

----- End of 3rd CC meeting minutes -----

Date: 24 April, 2007.

Time: GMT 13:00

The 2nd "Routing/Connection Mgmt" ad-hoc conference call is summarized as follows:

1. Further discussion items:

a) 07/211 "Distributed tunnel mgmt"

Comments: the usage model is still not clear enough. Need more details on network entry, tunnel CID assignment and scope; need check consistency/interpretation with baseline doc on (6.3.25.2.1 Path establishment) and (6.3.9.16.3.1 RS grouping)

Action: further email discussion with this topic

b) 07/209r2 "Neighbor path metric in neighbor info"

Comments: need more clarification on what exactly link info each RS needs to know and how RS uses these info. Overall system overhead is still an issue (system wide BS could send such info to every RS, and the link status info is proportional to the number of links)

Action: further email discussion with this topic

c) 07/264 "Tunnel establishment" (revision 264r4)

Comments: Need consider HMAC/CMAC for intermediate RS. Tunnel QoS needs to be aligned with baseline doc. Clarification on the rational why this approach is better.

Action: Revision

b) 07/190r2 "relay path mgmt during network entry"

Comments: trade off between light-weight entry processing and heavy-weight DSx signaling. Ken will check if 032 can cover this case, and seek potential harmonization.

Action: Further discussion next time

e) 07/192 "relay path mgmt during service flow addition"

Comments: suggested harmonization with 07/244

Action: III and Fijitsu will work on new harmonized version

f) 07/244 "service mgmt with distributed RS scheduling"

Comments: need some clarification on QoS parameters for tunnel case

Action: suggested harmonization with 07/192

g) 07/032r3 "topology discovery in multi-hop relay system"

Comments: no more comment. III will check if 032 could meet their requirement in entry process

h) 07/272 "Connection mgmt for MBS"

Comments: some minor clarification on MBS service.

Action: no more action

i) 07/268 "Multicast when using tunnel CID"

Comments: need revision to change the title and some of contents to reduce the confusion. This proposal is about a generic schema to support multi-RS mgmt operation, not a multicast for the data forwarding at the service layer. Need alignment with MAC PDU ad hoc group.

Action: revision and synch with MAC PDU group.

For all other contributions:

1. 07/210: suggested to incorporate the content into baseline doc
2. 07/254, 07/230, security model dependency (G.Q has sent the reports to Mike)
3. 07/173, 07/126r4 have been harmonized with baseline doc
4. 07/225r1 harmonized with 213 and moved to measurement ad hoc group

----- End of 2nd CC meeting minutes -----

Date: 06 April, 2007.

Time: GMT 13:00

The 1st "Routing/Connection Mgmt" ad-hoc conference call is summarized as follows:

1. 07/210 "Centralized tunnel mgmt"
 - Comments: move the content with baseline doc
 - Action: need revision aligned with baseline doc
2. 07/211 "Distributed tunnel mgmt"
 - Comments: need usage model why we need this
 - Action: further email discussion
3. 07/254 "Mgmt CID allocation"
 - Comments: mgmt CID is coupled with HMAC/CMAC
 - Action: need solution to solve RS security issue
4. 07/264 "Tunnel establishment"
 - Action: differ to next CC
5. 07/173 "relay path mgmt"
 - Comments: it has been harmonized with baseline doc
6. 07/190 "relay path mgmt during network entry"
 - Comments: revision
 - Action: differ to next CC
7. 07/192 "relay path mgmt during service flow addition"
 - Comments: revision
 - Action: differ to next CC
8. 07/126r4 "routing with CID encapsulation"
 - Comments: it has been harmonized with baseline doc

9. 07/209r2 " Neighbor path metric in neighbor info"

Comments: need usage model why we need this

Action: further email discussion

10. 07/225r1 "signaling for efficient MS routing"

Comments: harmonized with 213

Action: move it to measurement ad-hoc group

11. 07/230 "service flow mgmt for RS"

Comments: it has dependency on security model

Action: differ to next CC and need solution from security model

12. 07/244 "service mgmt with distributed RS scheduling"

Comments: revision

Action: differ it to next CC

13. 07/032r3 "topology discovery in multi-hop relay system"

Comments: what MAC PDU format to be used for non-tunnel mode and tunnel mode

Action: potential harmonization from III

----- End of 1st CC meeting minutes -----

Appendix:

Participant list of 'Routing/ Connection Mgmt' ad-hoc email discussion

Contact
youngjae2.kim@samsung.com
changkyoon.kim@samsung.com
kyuha.lee@samsung.com
yuefeng@uk.fujitsu.com
Mike.Hart@uk.fujitsu.com
john_lee@huawei.com
yikim@etri.re.kr
Djamal.meddour@orange-ftgroup.com
yyhsu@tarc-tw.research.telcordia.com
peter.wang@nokia.com
Steve.lee@samsung.com
saito@kddilabs.jp
chieming@itri.org.tw
DViorel@fmci.fujitsu.com
aoleszcz@fmci.fujitsu.com
Yousuf.Saifullah@nokia.com
Shyamal.Ramachandran@motorola.com
loa@nmi.iii.org.tw
lyd@nmi.iii.org.tw
stsheu@ce.ncu.edu.tw
haihong.l.zheng@nokia.com
hihsu@nmi.iii.org.tw
lucastsai@nmi.iii.org.tw
lyt@nmi.iii.org.tw
tmlin@itri.org.tw
torsten.fahldieck@alcatel.de
Shashikant.Maheshwari@nokia.com
dhahn@etri.re.kr
junhongh@gmail.com
chkoo@samsung.com
mchion@zteusa.com
jchow@zteusa.com
okuda@jp.fujitsu.com
Aik.Chindapol@siemens.com
Gang.A.Shen@alcatel-sbell.com.cn
kolszewski@zteusa.com
Hang.Liu@thomson.net
Mingquan.wu2@thomson.net
Peng.yan@huawei.com
ghzou@huawei.com
hazhang@nortel.com
gamini@nortel.com
guoqiang@nortel.com