Session #48 802.16 relay TG Session Summary/Closing Remarks

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IEEE 802.16 Session #48, Orlando, FL, USA

Base Document:

None

Purpose:

TG Meeting organization

Session #48 802.16 Relay TG
Session Summary

6th Task Group Meeting on Multi-hop Relay in IEEE 802.16

Relay TG Chair Mitsuo Nohara

Vice Chair Peiying Zhu

Technical Editor/Secretary Jung Je Son

Technical Editor Mike Hart

IEEE802.16 Relay TG Meeting

12-15 Mar., 2007, Orlando, FL, USA

Objective of this 6th TG Meeting

- To advance the development of the P802.16j Baseline Document (IEEE802.16j-06/026r2)
  - Through the Comments and Contributions presentation, discussion and resolution.
  - Considering the five Guideline Documents of:
    - Usage Models (IEEE802.16j-06/015),
    - Definitions and Terminology (IEEE802.16j-06/014r1),
    - Evaluation Methodology (IEEE802.16j-06/013r3),
    - Technical Requirements (IEEE802.16j-06/016r1) and
    - Table of Contents (IEEE802.16j-06/017r2).

Agenda

- Session #47 802.16 Relay TG Minutes Review (IEEE 802.16-07/006)
- Comments and Contributions Presentation and Resolution
  * in reply to the call for Comments and Contributions (IEEE 802.16-07/007r2) on:
    - P802.16j Baseline Document (IEEE802.16j-06/026r2)
  * considering the five guideline documents of:
    - Usage Models (IEEE802.16j-06/015),
    - Definitions and Terminology (IEEE802.16j-06/014r1),
    - Evaluation Methodology (IEEE802.16j-06/013r3),
    - Technical Requirements (IEEE802.16j-06/016r1) and
    - Table of Contents (IEEE802.16j-06/017r2).

  with the categorization order as attached.
- Text Proposals for the Baseline Document
- Schedule towards the initial draft and WG letter ballot
- AOB

Motions

- To approve the Agenda 1st: I Kang Fu, 2nd: Wen Tong, Time: 16:40, result: passed with no objection
- To approve the minutes IEEE 802.16-07/006 1st: Mike Hart, 2nd; Wen Tong, Time: 16:44, result: passed with no objection

Technical Comments and Contributions

(Call for Technical Comments and Contributions by 5 Mar., 2007)

- 118 Comments and 146* Contributions submitted,

  * 97 new, 49 revised,
  * 23 revisions not double-counted (169 in total).
  - The numbering scheme for new ones worked perfect. Thank you!

- Comment-oriented handling intended, but...
  as for the 146 contributions,
  - 41 contributions with no comment
  - 2 authors noted their on-time contribution submission (7 docs.) with delayed comments.
  - How about the rest?

  meantime, as for the 118 comments,
  - 18 comments with no sub-clause reference,
  - (4 comments with multiple sub-clause reference)

Technical Comments and Contributions

- Contributions with no comments:

<- Such contribution authors are requested to submit "late" comment per each contribution, so that we can handle it in the uniformed manner.
Deadline: 7pm, Monday 12 Mar. 2007

- Comments with no sub-clause reference:

<- Relay TG Technical Editors to fill in and complete.

- Revised commentary database will be prepared by the Relay TG Editors and becomes available later tonight, say, by 9pm for your review.

* Those explained in detail during the 1st Relay TG Session, 16:00-18:00 Monday 12 Mar. 2007.

Topics and Categories*

1. Frame Structure
2. Network Entry
3. Security
4. BW request
5. Mobility Management
6. Routing, Path, Connection and Service Flow Managements
7. Construction & transmission of MAC PDUs
8. HARQ
9. Measurement & reporting
10. RRM, Scheduling & Interference control
11. PHY
12. Other MAC

* Comments to be reviewed along with this order.

1. Frame Structure

Number	Comment	Title	Category	Sub Category	Status
7176	80	Format of R-FCH within RS-Zone	Frame structure	Signaling	S
7177	81	In-band Non-transparent Relay Frame Structure	Frame structure	Frame structure	AM
7178	82	In-band Transparent and Non-transparent Relay Coexistence Frame Structure	Frame structure	Frame structure	R
7179	83	In-band Transparent Relay Frame Structure	Frame structure	Frame structure	Defer
7193	41	Frame structure configuration signaling	Frame structure	Signaling	AM
7215	6	Signaling Support for R-amble Configuration	Frame structure	Signaling	Defer
7222	48	RS amble repetition rate	Frame structure	RS amble	AM
7223	49	Relay amble modulation series	Frame structure	RS amble	AM
7224	56	RS amble amplitude	Frame structure	RS amble	AM
7235	55	Relay zone indicator	Frame structure	Signaling	Defer
7236	52	MAC message for configuring the multi-hop relay frame structure	Frame structure	Signaling	AM
7237	53	On the use of amble for the relay link	Frame structure	RS amble	AM
7255	92	Format of R-MAP in Transparent RS System	Frame structure	Signaling	Defer
7265	L134	Preamble, FCH and MAPs Transmission in Transparent Relay Station	Frame structure	Signaling	Defer
7266	61	On the issue of frame alignment and gaps	Frame structure	Alignment & gaps	AM
6163r3	L121	A Flexible Multi-hop Frame Structure for IEEE 802.16j	Frame structure	Frame structure	R
7013r1	46	Signaling support for two-hop and multihop frame structure	Frame structure	Signaling	Defer
7038r1	51	RS-amble position for Multihop Relays	Frame structure	RS amble	S
7073r1	79	RS Autonomous Synchronization	Frame structure	Alignment & gaps	AM
7090r2	15	Format of R-MAP within RS-Zone	Frame structure	Signaling	Defer
7102r3	43, 61	Frame Alignment Requirement in Relays	Frame structure	Alignment & gaps	S
7156r2	54	RS preamble transmission for continuous synchronization and neighborhood scanning	Frame structure	RS amble	AM
7162r1	RL153	Multiple Frame and Relay Operation for 802.16 MMR Networks|	Frame structure	Frame structure	Defer
7216r1	50	R-amble Modulation Series for FFT modes 2K, 1K and 512	Frame structure	RS amble	S
7228r1	45	Sharing relay zone with access link	Frame structure	Frame structure	R

2. Network Entry

Number	Comment	Title	Category	Sub Category	Status
~~7249~~		~~RS Network Entry and Relay Function Activation~~	~~Network entry~~	~~RS~~	Duplicate
7260	23	Relaying RNG-REQ/RSP for MS Network Entry|	Network entry	MS	A
7263	L120	RS Network Entry and Relay Function Activation	Network entry	RS	R
6158r2	99	Routing Announcements for Network Entry Support	Network entry	RS	R
7008r3	22	MS network entry for non-transparent Relay Station with Centralized Scheduling	Network entry	MS	A
7025r1	8	RS network entry procedure	Network entry	RS	R
7028r2	4	Message definition to support MS network entry in centralized allocation model	Network entry	MS	AM
7040r5	12	Fixed and Nomadic Relay Station Preamble Segment Assignment Scheme	Network entry	RS	AM
7088r1	11	Moving Relay Station Preamble/Segment Selection	Network entry	RS	R
7097r4	24	RS Initial Network Entry and Re-entry	Network entry	RS	R
7144r2	7	Relay Grouping and PUSC Segment Selection for FCH/MAP Transmission	Network entry	RS	AM

3. Security

Number	Comment	Title	Category	Sub Category	Status
7188	L124	Shared Management Message in MR system: Format, Transfer and Security	Security		Defer
7189	L125	Construction of MAC PDU with Shared Management Message	Security		Defer
7201	42	Centralized Security in Multi-hop Relay System	Security		Defer
7098r2	105	Hybrid authentication hierarchy in MMR Control Plane for the relay network	Security		Defer
7134r2	104	Security Zone Key generation and management for multi-hop relay system	Security		Defer
7149r1	97	TEK Transfer in Relay Systems	Security		Defer

4. BW Request

Number	Comment	Title	Category	Sub Category	Status
7175	L138	Dedicated Ranging Opportunity for RS	Bandwidth request		R
7180	84	MS CDMA-based BR in Non-transparent RS System under Distributed Scheduling	Bandwidth request		W
7187	L123	Optimized Distributed Bandwidth Request and Allocation in 802.16j system	Bandwidth request		R
7034r2	20	Relay Support for Distributed Scheduling and its Bandwidth Request/Allocation Mechanism	Bandwidth request		W
7057r2	69	MS CDMA-based BR in Transparent RS System	Bandwidth request		W
7058r2	70	MS CDMA-based BR in Non-transparent RS System under Centralized Scheduling	Bandwidth request		AM
7101r2	21	Dedicated Resource Assignment for RS	Bandwidth request		AM
7148r2	96	Bandwidth Request for Distributed Systems	Bandwidth request		Defer
None	19	N/A	Bandwidth request		AM
None	44	N/A	Bandwidth request		AM

5. Mobility Management

Number	Comment	Title	Category	Sub Category	Status
7174	L129	Procedures supporting MS movement among access stations with same preamble/FCH/MAP	Mobility management	MS HO	AM
7181	85	MS Periodic Ranging in Non-transparent RS System under Distributed Scheduling|	Mobility management	Ranging	A
7182	86	OFDMA-based Ranging within Relay Zone	Mobility management	Ranging	Defer
7184	88	Unsolicited RNG-RSP in Non-transparent RS System under Distributed Scheduling	Mobility management	Ranging	A
7186	L122	Association Procedure in a centralized MR system with Distributed Scheduling	Mobility management	MS HO	AM
7191	L146	RS-Triggered Handover Procedure|	Mobility management	MS HO	R
7202	10	MR_NBR_INFO message enhancement	Mobility management	RS HO	AM
7205	LL149	Sleep Mode Operations for distributed scheduling in MR Network	Mobility management	Sleep/idle mode	Defer
7220	5	MS Intra-Cell FBSS	Mobility management	MS HO	R
7234	14	Request/Response Messages for providing Location Information in 802.16j	Mobility management	MS HO	AM
7238	32	MS scanning in MR network	Mobility management	MS HO	AM
7239	37	MS context release indication	Mobility management	MS HO	AM
7240	9	Frame number synchronization between MR-BS and RS	Mobility management	Sleep/idle mode	AM
7245	118	Obtaining Sleep Mode Information in RS with distributed scheduling	Mobility management	Sleep/idle mode	Defer
7246	RL155	MS handover with transparent RS in centralized multi-hop relay network	Mobility management	MS HO	Defer
7247	RL154	MS handover in transparent RS and non-transparent RS coexisting multi-hop relay network	Mobility management	MS HO	Defer
7248	L147	RS Service End Procedure	Mobility management	MS HO	AM
7261	L136	MRS Paging Group Update Remedy	Mobility management	Sleep/idle mode	AM
7262	L119	MS Idle Mode in Relay System	Mobility management	Sleep/idle mode	Defer
7004r2	36	A proposal for timing compensation of idle mode in MR	Mobility management	Sleep/idle mode	AM
7007r3	30	A proposal for timing compensation of sleep mode in MR	Mobility management	Sleep/idle mode	AM
7010r3	116	Sleep Mode in MR network	Mobility management	Sleep/idle mode	Defer
7035r2	31	MS Sleep Mode in MR network	Mobility management	Sleep/idle mode	Defer
7037r2	34	MRS Handover	Mobility management	RS HO	AM
7041r4	13	Mobile Relay Station Preamble Segment Re-Assignment Scheme	Mobility management		Defer
7059r2	71	MS Periodic Ranging in Non-transparent RS System under Centralized Scheduling	Mobility management	Ranging	A
7060r2	72	MS Periodic Ranging in Transparent RS System	Mobility management	Ranging	A
7061r2	73	Unsolicited RNG-RSP in Transparent-RS System	Mobility management	Ranging	A
7062r2	74	Unsolicited RNG-RSP in Non-transparent RS System under Centralized Scheduling	Mobility management	Ranging	A
7063r2	75	MS Handover Ranging with RS	Mobility management	MS HO	A
7066r2	76	RS Sleep Mode	Mobility management	Sleep/idle mode	Defer
7071r1	77	MS Handover to target MR-BS with Transparent RS	Mobility management	MS HO	Defer
7072r1	78	MS Handover with Non-transparent RS	Mobility management	MS HO	Defer
7087r2	35	Mobile Relay Station Operation	Mobility management	RS HO	AM
7122r3	L139, L148	Mobile RS Handover	Mobility management	RS HO	AM
7147r1	L142	Handover of Mobile Relay Station	Mobility management	RS HO	AM
7199r2	66	MDHO and FASS for MMR Networks ・Topology Acquisition	Mobility management	MS HO	S
7200r1	67	MDHO and FASS for MMR Networks ・Initiation to Termination	Mobility management	MS HO	S
7219r1	33	Relay Station Handover Procedure|	Mobility management	RS HO	AM

6. Routing, Path, Connection and Service Flow Managements

Number	Comment	Title	Category	Sub Category	Status
7173	L128	Relay Path management for IEEE 802.16j Multi-hop Relay Network	Routing, path, connection & service flow management	Routing & path management	Defer
7190	90	Relay path management during network entry	Routing, path, connection & service flow management	Routing & path management	Defer
7192	91	Relay Path Management during Service Flow Addition	Routing, path, connection & service flow management	Routing & path management	Defer
7210	111	MMR Network centralized tunnel connection management	Routing, path, connection & service flow management	Connection management	Defer
7211	107	MMR Network distributed tunnel connection management	Routing, path, connection & service flow management	Connection management	Defer
7212	108	MMR network data forwarding and QoS schema	Routing, path, connection & service flow management		Defer
7214	110	Incremental Approach for MMR Network Topology Discovery	Routing, path, connection & service flow management	Routing & path management	Defer
7230	L131	Service flow management for RS	Routing, path, connection & service flow management	Service flow management	Defer
7241	2, 58	Systematic CID Allocation and Relay Path Configuration	Routing, path, connection & service flow management	Routing & path management	AM
7244	117	Service Management in MR network with Distributed Scheduling RS	Routing, path, connection & service flow management	Service flow management	Defer
7254	L132	Management CID allocation	Routing, path, connection & service flow management	Connection management	Defer
7264	L133	Tunnel Establishment	Routing, path, connection & service flow management	Connection management	Defer
7031r2	39	Path and connection Management in multi-hop relay System	Routing, path, connection & service flow management	Routing & path management	S
7032r2	40	Topology Discovery in Multi-hop Relay System	Routing, path, connection & service flow management	Routing & path management	Defer
7093r1	106	DSx message extension for Constraint-Based routing and CID/path binding	Routing, path, connection & service flow management	Service flow management	Defer
7126r4	59	Routing with CID Encapsulation	Routing, path, connection & service flow management	Routing & path management	S
7209r2	98	Neighbor Path Metric in Neighbor Information	Routing, path, connection & service flow management	Routing & path management	Defer
7225r1	101	Signaling for Efficient MS Routing	Routing, path, connection & service flow management	Routing & path management	Defer
None	17	N/A	Routing, path, connection & service flow management	Connection management	Defer

7. Construction & Transmission of MAC PDUs

Number	Comment	Title	Category	Sub Category	Status
7195	L141	Transmission using station CID without tunnels	Construction & transmission of MAC PDUs		Defer
7256	93	Enhanced Remedy for relaying DCD and UCD messages in the in-band non-transparent scenario	Construction & transmission of MAC PDUs		Defer
7257	94	Remedy for relaying DCD, UCD, DL-MAP and UL-MAP messages in the in-band non-transparent scenario	Construction & transmission of MAC PDUs		Defer
7267	LL152	A Proposal for Relay MAC PDU Format in 16j network	Construction & transmission of MAC PDUs		Defer
7198r2	65	Proposal for Relay MAC PDU Format	Construction & transmission of MAC PDUs		Defer
7217r1	16	RS Configuration Description Broadcast	Construction & transmission of MAC PDUs		Defer
7221r1	3	Access RS basic CID based routing and source QoS Control Scheme for data forwarding in 802.16j	Construction & transmission of MAC PDUs		Defer

8. HARQ

Number	Comment	Title	Category	Sub Category	Status
7185	89	Pipeline HARQ in Multi-hop Relay System	HARQ		Defer
7203	29	DL HARQ for non-transparent Relays	HARQ		Defer
7204	28	UL HARQ for non-transparent Relays	HARQ		Defer
7232	26	Downlink HARQ for transparent RS	HARQ		Defer
7233	27	UL HARQ for transparent RS	HARQ		Defer
7252	L143	The Passive Multi-hop Relaying HARQ Mechanism	HARQ		Defer
7253	L144	The Active Multi-hop Relaying HARQ Mechanism	HARQ		Defer
7196r2	63	Rate Compatibility and Incremental Redundancy HARQ for 802.16j LDPC	HARQ		Defer
7197r2	64	Enabling MAC tunneling over HARQ in 802.16j	HARQ		Defer
7226r1	102	Proposal for Centralized HARQ Retransmission Scheduling	HARQ		Defer

9. Measurement & Reporting

Number	Comment	Title	Category	Sub Category	Status
7171	L126	Neighborhood Discovery and Measurement for Fixed/Nomadic RS in IEEE 802.16j Multi-hop Relay Network	Measurement & reporting		AM
7183	87	Relay Neighborhood Channel Measurement Report	Measurement & reporting		Defer
7229	115	Interference Detection and Measurement in OFDMA Relay Networks	Measurement & reporting		Defer
7231	25	Efficient channel measurement report request and response mechanism for MMR network	Measurement & reporting		Defer
7129r3	38	RS Measurements and Channel Estimation between transparent RS and MS	Measurement & reporting		Defer
7213r1	109	MMR Relay Link (R-link) monitoring and reporting procedure for Multi-hop path selection	Measurement & reporting		Defer

10. RRM, Scheduling & Interference Control

Number	Comment	Title	Category	Sub Category	Status
7172	L127	Interference and SINR prediction for IEEE 802.16j Multi-hop Relay network	RRM, Scheduling & Interference control		Defer
7194	L140	Supporting End-to-End QoS within Tunnel Service Flows	RRM, Scheduling & Interference control		Defer
7207	LL150	Signaling Scheme for Bandwidth Allocation in MR Network with Distributed Scheduling	RRM, Scheduling & Interference control		Defer
7026r1	47	RS access link safety region|	RRM, Scheduling & Interference control		Defer

11. PHY

Number	Comment	Title	Category	Sub Category	Status
7251	112, 113	AAS signaling to support high capacity MR-BS to RS links	PHY	AAS	Defer
7258	L145	Cooperative Relay Approaches in IEEE 802.16j	PHY	Cooperative relaying	Defer
7259	L135	The 2nd fast feedback channel region to reduce transfer delay of fast feedback data for 2-hop MR system	PHY		Defer
7052r3	L137	Demodulation and Forwarding method in Relay Station	PHY	Others	Defer
7242r1	60	Clarifications on Cooperative Relaying	PHY	Cooperative relaying	Defer

12. Other MAC

Number	Comment	Title	Category	Sub Category	Status
7206	LL151	Synchronous MBS Transmission for Macro Diversity in MR Networks	Other MAC	MBS	Defer
7227	L130	Reliable Multicasting with Selective Acknowledgement for IEEE802.16j	Other MAC	MBS	Defer
7096r3	1	MMR Protocol Stack and Definition of RS Types	Other MAC		Defer
7250r1	18, 62	An ARQ with Cooperative Relays in IEEE 802.16j	Other MAC	ARQ	Defer

Comments and Contributions Summary

- Comments and Contributions

	Comments	Contributions
• Accepted	9	9
• Accept-Modified	34	34
• Rejected	13	12
• Superceded	10	8
• Withdrawn	3	8
• Blank	7	-
• Deferred*	79	78
Total	155	146

* Incl. comments not covered during this session

Way Forward towards WG Letter Ballot in May
Thu. 15 March, 2007

- Today: Finish Commentary databese quickly. Identify the ones needed for the harmonization beyond this session, defer them to ad-hoc group. Otherwise deal with them till 3:00 pm.
- Form official ad-hoc groups. Identify leaders and set up deadline. No new contribution on the topic for next meeting, only the ones from the ad-hoc.
- Set up TG schedule towards Letter ballot in May.
- Call for contributions on specific remaining topics only.

Ad-hoc Groups

- Frame Structure
- Security
- Mobility Management Sleep/Idle Mode
- HARQ
- Routing and Path Management
- MAC PDU Construction
- Measurement & Reporting
- Other MAC/Other PHY

Schedule towards May session

- Baseline available: March 26, issue call for comment
- April 6: Deadline for new contributions for ad-hoc meeting
- April 23: Call for comment deadline
- April 30: Reply comment
- May 7-10 Session #49

Ad-hoc1 Frame structure

- 721, 7235, 7255, 765, 7013r1, 7090r2, 162r2
- Mike Hart/Dorin Viorel

Ad-hoc2 Security

- 7188, 7189, 7201,7098r2, 7134r2, 7149r1
- Robert Sun

Ad-hoc3 Mobility Management
Sleep/Idle Mode

- 7205, 7245, 7262, 7010r3, 7035r2, 7066r2
- David Comstock/Yuefeng Zhou

Ad-hoc4 HARQ

- 7185, 7203, 7204, 7232, 7233, 7252, 7253, 7196r2, 7197, 7226r1
- Wen Tong/Young Bin

Ad-hoc5 Routing/Path management

- 7173, 7190, 7192, 7210, 7211, 7212, 7214, 7230, 7244, 7254, 7264, 732, 793, 7209, 7225r1
- Comment 17
- G-Q Wang

Ad-hoc6 MAC PDU construction

- 7195, 7256, 7257, 7267, 7198r2, 7217r1, 7221r1
- Jeffrey Tao

Ad-hoc7 Measurement & reporting

- 7183, 7229, 7231, 7129, 7213r1
- I-Kang Fu/Dorin Viorel

Ad-hoc8 Other MAC/Other PHY

- 7251, 7258, 7259, 7052r3, 7242r1
- 7172, 7194, 7207, 7026r1
- 7206, 7227, 7096, 7250
- Peiying Zhu

Tentative Schedule (as of 15 Mar., 2007)

Year	Month	802.16 session	Actions
Target: WG Motion/Approval in May session to proceed to WG Letter Ballot on Initial Draft, to be formed as revised baseline document with comment resolutions.			
2006/2007	**Mar. 2007**	**#48 Interim**	**6th TG meeting**
	Call for Comments		
	May 2007	**#49 Interim**	**7th TG meeting, Comment resolutions** **Preparation for the 1st WG Letter Ballot**
	Drafting standard, 1st WG Letter Ballot		
	Jul. 2007	**#50 Plenary**	**2nd WG letter ballot**
2007/2008	**Sept. 2007**	**#51 Interim**	**1st sponsor ballot**
	Nov. 2007	**#52 Plenary**	**Sponsor Recirculation**
	Jan. 2008	**#53 Interim**	**Submission to Rev. Com**
	Mar. 2008	**#54 Plenary**	**SA Approval**

Original Schedule (from Tutorial, Mar. 2006)

Year	Month	802.16 session	Actions
2006	Jan.	#41 Interim	SG: the 3rd meeting – PAR Completion
	Mar.	#42 Plenary	Tutorial Session on 802.16 MMR 802 EC to approve 802.16j PAR
	May	#43 Interim	1st TG meeting
	July	#44 Plenary	2nd TG meeting Require Document & Procedure for proposal Selection & merging
	Call for Contribution		
	Sept.	#45 Interim	3rd TG meeting Presentation & Selection
	Drafting standard		
	Nov.	#46 Plenary	1st WG letter ballot
2007	Jan.	#47 Interim	2nd WG letter ballot
	Mar.	**#48 Plenary**	1st sponsor ballot
	May.	#49 Interim	Sponsor Recirculation
	July.	#50 Plenary	Submission to Rev. Com
	Sep.	#51 Interim	SA Approval

Motions conducted at Relay TG Closing

- To authorize the Technical Editors to revise the baseline document (802.16j-06/026r2) to accommodate the comments accepted.

  1st: Jeffery Tao, 2nd: I-Kang Fu, Time: 18:30

  Motion Passed with no objection

2. To authorize the Task Group Chair to issue a call for comments on the baseline document to be revised as (802.16j-06/026r3).

   1st: I-Kang Fu, 2nd: Koon Hoo Teo, Time: 18:32

   Motion Passed with no objection

3. To authorise the Task Group Chair to form the ad-hoc groups on the topics identified necessary to harmonize on the comments deferred.

   1st: I-Kang Fu, 2nd: Jeffrey Tao, Time: 18:34

   Motion Passed with no objection

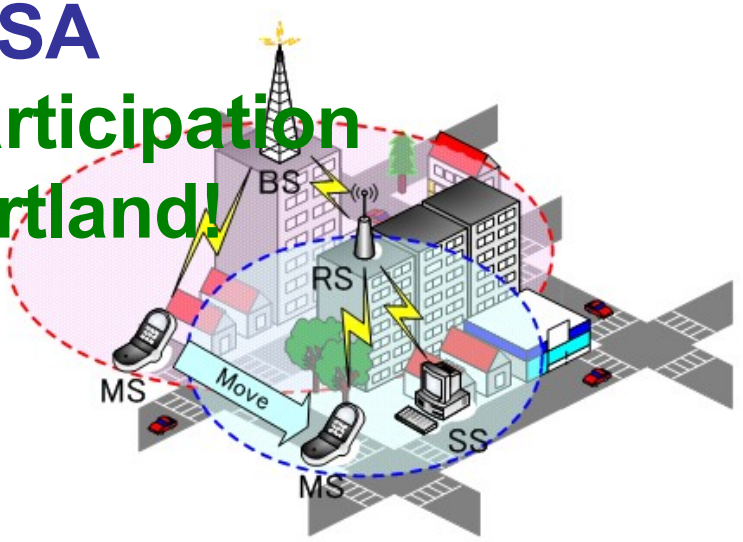
Relay-TG Meeting Calendar This Week

16:00 - 18:00, Mon. 12 Mar.
@ Grand Sierra E/Carribean I
08:00 - 18:00, Tue. 13 Mar. @ Carribean I
08:00 - 18:00, Wed. 14 Mar. @ Carribean I
08:00 - 18:00, Thu. 15 Mar. @ Carribean I

*** Each with 100 participants**

Caribe Royale Resort
Orlando, FL, USA

Thank you for your participation and see you in Portland!



*Reference: C802.16-005/013