

List of Categorized Session #46 Contributions

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Purpose:

This slide is to facilitate discussion and review process by 802.16j TG through the use a full list of Session #46 contributions as classified by the key technological category.

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Category	Doc. #	Company	Proposal Name
PDU, MAP, Preamble, Midamble Etc. (PHY)	C80216j-06_157	Motorola	MAP Construction and Transmission for a Relay Station
	C80216j-06_274	???	Proposal on addresses, identifiers and types of connections for 802.16j
	C80216j-06_281	KDDI R&D Labs., Samsung Electronics	Management CID allocation
	C80216j-06_239	Nortel	R-MAC PDU format
	C80216j-06_240	Nortel	RS DL Synchronization and Radio Environment Measurement – Introduction of RS-Preamble
	C80216j-06_144	Fujitsu	Relay Midamble
	C80216j-06_237	ZTE	A Proposal for Construction and Transmission of MAC PDU in 802.16j
	C80216j-06_241	Nortel	RS 802.16e Preamble Transmission
Frame Structure / MAP (PHY)	C80216j-06_249	Siemens	Frame Structure for Flexible Resource Allocation
	C80216j-06_258	Samsung Electronics, Samsung AIT	Frame structure for out-of-band relay
	C80216j-06_228	WiNetworks	Do We Need Another Frame Structure for Relaying?
	C80216j-06_259	???	R-TTG and R-RTG in 16j frame structure
	C80216j-06_250	???	Hybrid Relay Structure within a Single Frame
	C80216j-06_275	???	Multi-phase frame structure proposal
	C80216j-06_256	Samsung Electronics, Samsung AIT	Frame Structure for 2-hop relay
	C80216j-06_257	Samsung Electronics, Samsung AIT	Frame Structure for multi-hop relay
	C80216j-06_295	ETRI, Kwangwoon University, Samsung Thales	Multiple Frame Concept for MMR Operation
	C80216j-06_236	ZTE	A Flexible Multihop Relay Frame Structure for 802.16j
	C80216j-06_231	BRN Phoenix	Airlink Frame Structures for Multihop Relay System
	C80216j-06_277	Alcatel Research & Innovation	Multihop Relay frame structure
	C80216j-06_226	MERL, MEC	A Frame Structure Design for OFDMA-based Multihop Relay Networks
	C80216j-06_224	Toshiba Research Europe	Dynamic Frame Structure for IEEE802.16j Relaying Transmission to Support Efficient Scheduling
	C80216j-06_205	Nortel	Relay Station Modes – design objectives of relaying frame structure
	C80216j-06_211	I ² R	A MAC frame structure for IEEE 802.16j multihop relay networks
	C80216j-06_138	Fujitsu	Frame structure for multihop relaying support
	C80216j-06_155	Motorola	Proposal for Multihop Relay Frame Structure for 802.16j
	C80216j-06_163	Huawei Technologies	A Flexible Multi-hop Frame Structure for IEEE 802.16j
	C80216j-06_198	Nokia	A Frame Structure for Multihop Relays
	C80216j-06_175	SK Telecom, SK Telesys	A Frame structure for relay link load balancing
	C80216j-06_174	Access Network R&D, SK Telecom	A Usage Scenario and Frame Structure for Out-of-Band Relay in IEEE802.16j
	C80216j-06_165	ITRI/NCTU	Proposal for Relaying Frame Structure

Category	Doc. #	Company	Proposal Name
Scheduling (MAC)	C80216j-06_188, C80216j-06_189	Nokia	Relay Support for Scheduling, Bandwidth Request, and Allocation Mechanism + Resource Request for Bandwidth (Two proposals)
	C80216j-06_215	Hisilicon Techn.	Scheduling Service and Distributed Scheduling for 802.16j system
	C80216j-06_152	Fujitsu	Report message for centralized scheduler RS
	C80216j-06_151	Fujitsu	Registration messages for centralized scheduler RS
	C80216j-06_150	Fujitsu	MAP IE for centralized-scheduler RS
Neighbor Discovery (MAC)	C80216j-06_270	Samsung Electronics, Samsung AIT	Reduced Neighbor Information Generation and Customized Delivery
	C80216j-06_287	Alcatel Research & Innovation	Neighborhood Discovery and Topology Learning
	C80216j-06_181	ETRI	MS Channel Detection of RS in Relay System
	C80216j-06_170	ITRI/NCTU	Connection Identification and Transmission for Relay Support
Bandwidth Request (MAC)	C80216j-06_161	Motorola	Relay Station Neighbor Discovery
	C80216j-06_137	Fujitsu	Bandwidth request combination in the RS
	C80216j-06_125	Fujitsu	Fast Bandwidth request scheme for Relay Station
	C80216j-06_147	Fujitsu	Rate based bandwidth request mechanism
Ranging (MAC)	C80216j-06_146	Fujitsu	Bandwidth request normalization mechanism over relay links
	C80216j-06_232	Samsung Thales, ETRI	Ranging in MMR System
	C80216j-06_206	Institute for Information Industry	Distinct OFDMA-based Ranging Code Sets for Relay Station and Mobile Station
	C80216j-06_180	ETRI	R-UL Ranging Control of RS within Cell Coverage
	C80216j-06_172	ITRI/NCTU	Ranging Process for IEEE 802.16j
Network Entry (MAC)	C80216j-06_193	Nokia	Ranging in 802.16j (MMR) System
	C80216j-06_286	Alcatel Research & Innovation	MS/RS Network Entry and Initialization
	C80216j-06_261	Siemens	Relay-Assisted MS Network Entry
	C80216j-06_133	Fujitsu	MS network entry procedure for non-transparent Relay Station
	C80216j-06_167, C80216j-06_166	ITRI/NCTU	RS Network Entry, Topology establishment, and Initialization for IEEE 802.16j + Network Topology Advertisement for IEEE 802.16j (2 proposals)
	C80216j-06_154	Motorola	Network Entry Procedure for MS in 802.16j
	C80216j-06_124	Fujitsu	MS network entry for transparent Relay Station
	C80216j-06_207	Institute for Information Industry	MS Network Entry with RS
	C80216j-06_208	Institute for Information Industry	RS Network Entry
C80216j-06_143	Fujitsu	MS Network Entry (profile B)	
	C80216j-06_142	Fujitsu	RS network entry (profile A)

Category	Doc. #	Company	Proposal Name
ARQ / HARQ (MAC)	C80216j-06_292	Alcatel Research & innovation	HARQ Mechanisms in Multi-hop Relay
	C80216j-06_229	DoCoMo Beijing Labs	Relay Combining Hybrid ARQ for 802.16j
	C80216j-06_266	Siemens	Relay-Assisted HARQ
	C80216j-06_213	l²R	An ARQ scheme for IEEE 802.16j multihop relay networks
	C80216j-06_197	Nokia	HARQ with Relays
	C80216j-06_176(177,186)	MERL, MEC	An Advanced ARQ Scheme on Relay Link for 802.16j (three versions of this document including commentary)
	C80216j-06_183(184,185)	MERL, MEC	Rate Compatibility and Incremental Redundancy HARQ for 802.16 LDPC (three versions of this document including commentary)
	C80216j-06_126	Fujitsu	DL HARQ method for user-transparent relaying
Frequency / Spatial Reuse (MAC)	C80216j-06_230	DoCoMo Beijing Labs	Efficient Resource Utilization Scheme on the basis of Precoding and Cooperative Transmission in Downlink
	C80216j-06_225	Toshiba Research Europe	Directional Distributed Relay with Interference Control and Management
	C80216j-06_223	Toshiba Research Europe	Fractional Frequency Reuse for IEEE802.16j Relaying Mode
	C80216j-06_169	NCTU/ITRI	Reusing the Radio Resources in IEEE 802.16j Multi-hop Relay System (name change with same Doc. Number)
	C80216j-06_169	NCTU/ITRI	Sub-channel Reuse in IEEE 802.16j Multi-Hop Relay System
	C80216j-06_149	Fujitsu	Resource reuse and interference management mechanism
	C80216j-06_148	Fujitsu	Estimation of the initial interference matrix
	C80216j-06_145	Fujitsu	Measurement method of the network congestion used for adjusting the radio resources in a MMR cell
Sleep / Idle Mode (MAC)			
	C80216j-06_173	NCTU/ITRI	Sleep mode and Idle Mode Operations for IEEE 802.16j
	C80216j-06_209	Nokia	RS Sleep Mode
	C80216j-06_191	Nokia	Sleep Mode with RS
	C80216j-06_136	Fujitsu	Obtaining sleeping mode information in the RS
	C80216j-06_135	Fujitsu	Obtaining idle mode in the RS
	C80216j-06_128	Fujitsu	A proposal for timing compensation of idle and sleep mode in MMR
RS Clustering/Grouping and Multicast (MAC)	C80216j-06_289	Fujitsu	RS Multicast CID for 802.16j
	C80216j-06_194	Nokia	MRS Paging Group Update
	C80216j-06_168	ITRI/NCTU	A RS Clustering Scheme for IEEE 802.16j
	C80216j-06_196	Nokia	Transmission Scheme of MAC Management Message Towards a RS Group in Multi-Hop Relay System
Cooperative Relaying (MAC)	C80216j-06_294	DoCoMo Beijing Labs	Cooperative RS Transmission Scheme on IEEE802.16j
	C80216j-06_264	Siemens	Cooperative Relaying Scheme for IEEE 802.16
	C80216j-06_273	ETRI, Samsung Thales	Cooperative diversity in relay downlink
	C80216j-06_200	MITRE	Cooperative Relay Protocol
	C80216j-06_178(179,187)	MERL, MEC	Aggregation in 802.16j – Enhanced Concatenation and packing (three versions of this document including commentary)

Category	Doc. #	Company	Proposal Name
Power Control (MAC)	C80216j-06_216	Intel	Relay-Station Power Control and Channel Reuse
	C80216j-06_140	Fujitsu	Closed loop power control
	C80216j-06_244	ETRI, Samsung Thales	Access-Uplink closed loop power control by MMR-BS or RS in MMR system
Handover (MAC)	C80216j-06_245	Nortel	MS Intra-Cell FBSS
	C80216j-06_265	Samsung Electronics, Samsung AIT	MS-handover support directed by MMR-BS
	C80216j-06_280	Alcatel Research & Innovation	MS Handover Support in Relay Mode
	C80216j-06_276	KDDI R&D Labs	Path selection for handover through RS
	C80216j-06_268	Samsung Electronics, Samsung AIT	HO complete indication
	C80216j-06_267	Samsung Electronics, Samsung AIT	MS handover support by RS
	C80216j-06_227	ETRI	Group Handover on the Mobile RS
	C80216j-06_221	Intel, Ewha Womans University	MS MAC Handover Procedure in an MR Network-Termination
	C80216j-06_220	Intel, Ewha Womans University	MS MAC Handover Procedure in an MR Network – Handover Execution
	C80216j-06_219	Intel, Ewha Womans University	MS MAC Handover Procedure in an MR Network – Handover Decision and Initiation
	C80216j-06_218	Intel, Ewha Womans University	MS MAC Handover Procedure in an MR Network – Network Topology Acquisition and MS Scanning
	C80216j-06_217	Intel, Ewha Womans University	Overview of the proposal for MS MAC handover procedure in an MR Network
	C80216j-06_190	Nokia	Relay Handover
	QoS (MAC)	C80216j-06_192	Nokia
C80216j-06_202		Intel	End to End Throughtput Metrics for QoS Management in 802.16j MR Systems
Routing / Path Management (MAC)	C80216j-06_296	Kwangwoon University, ETRI	Link Adaptive Multi-hop Path Management for IEEE 802.16j
	C80216j-06_278	KDDI R&D Labs	Path selection for RS initial network entry
	C80216j-06_246	Nortel	MMR Cell Path Discovery, Link Maintenance and Data Forwarding
	C80216j-06_254	Siemens	Fast Data Routing and Handover via Relays
	C80216j-06_247	Nortel	Routing path list TLV for MMR cell topology discovery
	C80216j-06_253	Siemens	Route Update with Efficient CID Management
	C80216j-06_293	Alcatel Research & innovation	Multi-hop Path Management
	C80216j-06_222	Toshiba Research Europe	Relay Path Management and Routing for 802.16j
	C80216j-06_164	Huawei Technologies	An Efficient Relay Path Management Scheme for IEEE 802.16j
	C80216j-06_195	Nokia	Topology Discovery and Path Management in Multi-Hop relay Systems
	C80216j-06_212	IPR	Data Forwarding and Routing Path Setup for 802.16j multi-hop relay networks
	C80216j-06_156	Motorola	Connections in a Multi-hop Relay Network
	C80216j-06_159	Motorola	Signaling for Efficient Routing
C80216j-06_158	Motorola	Routing Announcements for Network Entry Support	

Category	Doc. #	Company	Proposal Name
RS Models / Properties	C80216j-06_214	ETRI	Dedicated Interface Between MMR-BS and RS
	C80216j-06_251	???	Demodulation and Forwarding Method in Relay Station
	C80216j-06_255	ETRI, Samsung Thales	The 2nd fast feedback channel region to reduce transfer delay of fast feedback data for 2-hop MMR system
	C80216j-06_260	Samsung Electronics, Samsung AIT	Initial Relay region indicator
	C80216j-06_242	Nortel	RS Configuration Description Broadcast
	C80216j-06_243	Nortel	RS Configuration Signaling
	C80216j-06_182	ETRI	Data Relay of RS in Relay System
	C80216j-06_160	Motorola	Support for a Simplified Uplink-Only Relaying Mode
	C80216j-06_131	Fujitsu	Proposal for an additional parameter of RS basic capability
	C80216j-06_127	Fujitsu	A proposal for combined A&F and D&F relaying
	C80216j-06_130	Fujitsu	Proposal for introducing shared RS model in MMR
Other	C80216j-06_291	University of Waterloo, Nortel	Effective Node Assignment in 2-Hop Fixed Relay Networks
	C80216j-06_248	Nortel	R-link TLV for MMR relay link monitoring and reporting procedure
	C80216j-06_263	Samsung Electronics, Samsung AIT	Indication of changes in the offset of relay region
	C80216j-06_269	Samsung Electronics, Samsung AIT	MS scanning support by RS
	C80216j-06_272	Samsung Thales, ETRI	Transmission timing requirement of RS
	C80216j-06_235	Nortel	Moving RS Operation
	C80216j-06_282	KDDI R&D Labs	Service flow management for RS
	C80216j-06_238	Nortel	MMR Protocol Stack
	C80216j-06_171	Telcordia Applied Research Center Taiwan Co, ITRI/NCTU	Systematic Relay Station Identification Allocation and Relay Path Configuration Mechanism for IEEE 802.16j
	C80216j-06_201	AT&T Labs, BAE Systems etc.	SMART Relay Alliance Proposal
	C80216j-06_132	Fujitsu	Relaying methods proposal for 802.16j
	C80216j-06_199	Nokia	Relay-Station Preamble Segment Assignment/Re-Assignment Scheme
	C80216j-06_150	Fujitsu	Managing the PN sequence for RS access
	C80216j-06_139	Fujitsu	MAC version support TLV
	C80216j-06_129	Fujitsu	A proposal for synchronous MBS transmission in MMR
	C80216j-06_134	Fujitsu	MAC PDU concatenation in the RS
	C80216j-06_141	Fujitsu	CQI reporting
	C80216j-06_203	BRN Phoenix, DIRECTV Group	AAS Signaling Methodologies to Support High Capacity MMR-BS to RS
C80216j-06_204	Nokia	Signature Identification for Multi Hop Relay	