Project	**IEEE 802.20 Working Group on Mobile Broadband Wireless Access** <**http://grouper.ieee.org/groups/802/20/**>
Title	**Systems Requirements Compliance Report**
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Re:	MBWA Call for Proposals
Abstract	This document contains Requirements Compliance Matrix of the proposal.
Purpose	This document addresses compliance status of the proposal.
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Patent Policy	The contributor is familiar with IEEE patent policy, as outlined in Section 6.3 of the IEEE-SA Standards Board Operations Manual <http://standards.ieee.org/guides/opman/sect6.html#6.3> and in *Understanding Patent Issues During IEEE Standards Development* <http://standards.ieee.org/board/pat/guide.html>.

System Requirements Document Compliance Table

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System Requirements Document Compliance Table

#	Requirement	SRD Section #	Requirement Type		Compliance Level	
			Shall	Should	Yes	Notes
1	PAR requirements	1.3	●			Evaluation not completed
2	VoIP Services	2.1	●		●	
3	Broadcast – Multicast services	2.2	●		●	
4	non-line of sight outdoor to indoor scenarios and indoor coverage	3.1	●		●	
5	layered architecture and separation of functionality between user, data and control	3.1	●		●	
6	Spectral efficiency – DL @ 3 km/hr: 2.0b/s/Hz/sector	4.1.1	●			Evaluation not completed
7	Spectral efficiency – DL @ 120km/hr: 1.5b/s/Hz/sector	4.1.1	●			Evaluation not completed
8	Spectral efficiency – UL @ 3km/hr: 1.0b/s/Hz/sector	4.1.1	●			Evaluation not completed
9	Spectral efficiency – UL @ 120km/hr: .75b/s/Hz/sector	4.1.1	●			Evaluation not completed
10	Block assignment support	4.1.2	●			5, 10, 15, 20MHz supported

#	Requirement	SRD Section #	Requirement Type		Compliance Level	
			Shall	Should	Yes	Notes
11	Duplexing Scheme	4.1.3	●			FDD
12	Support for Half Duplex FDD subscriber station.	4.1.3		○		No
13	Support for different mobility rates	4.1.4	●		●	3~250 km/h
14	Aggregated data rate consistent with item 6	4.1.5	●			Evaluation not completed
15	Aggregated data rate consistent with item 7	4.1.5	●			Evaluation not completed
16	Aggregated data rate consistent with item 8	4.1.5	●			Evaluation not completed
17	Aggregated data rate consistent with item 9	4.1.5	●			Evaluation not completed
18	Peak User Data Rate (DL) of 4.5 Mbps in 1.5 MHz	4.16	●			1.25MHz not supported
19	Peak User Data Rate (UL) of 2.25 Mbps in 1.25 MHz	4.16	●			1.25MHz not supported
20	Peak User Data Rate (DL) of 18 Mbps in 5.0 MHz	4.16	●		●	

#	Requirement	SRD Section #	Requirement Type		Compliance Level	
			Shall	Should	Yes	Notes
21	Peak User Data Rate (UL) of 9 Mbps in 5.0 MHz	4.16	●		●	
22	MAC layer to control >100 simultaneous active sessions per sector. (See section for conditions.)	4.1.7		○		MAC Spec. not included
23	QoS support per requirements in section 4.1.8	4.1.8	●			MAC Spec. not included
24	Support the configuration of a flexible set variety of traffic classes (see section 4.1.8.1)	4.1.8.1	●			MAC Spec. not included
25	MAC/PHY features to support multi-antenna capabilities at the BS	4.1.9	●			PHY features to support multi-antenna capabilities at the BS
26	Base station antenna diversity	4.1.10		○	●	
27	Support coverage enhancing technologies	4.1.11	●		●	
28	BS authentication	4.1.12	●			MAC Spec. not included
29	MT authentication	4.1.12	●			MAC Spec. not included

#	Requirement	SRD Section #	Requirement Type		Compliance Level	
			Shall	Should	Yes	Notes
30	Network and mobile terminal perform mutual entity authentication and session key agreement protocol.	4.1.12.1	●			MAC Spec. not included
31	Privacy and message integrity methods	4.1.12.2	●			MAC Spec. not included
32	Support for encryption across the air interface.	4.1.12.2	●			MAC Spec. not included
33	Protection from unauthorized disclosure of the device permanent identity to passive attackers.	4.1.12.3	●			MAC Spec. not included
34	Protection against Denial of Service (DOS) attacks	4.1.12.4	●			MAC Spec. not included
35	AES Support	4.1.12.5	●			MAC Spec. not included
36	automatic selection of optimized user data rates that are consistent with the RF environment constraints and application requirements	4.2.1	●			Control channel not defined explicitly
37	Graceful reduction or	4.2.1	●			Control channel not defined

#	Requirement	SRD Section #	Requirement Type		Compliance Level	
			Shall	Should	Yes	Notes
	increase of user data rates, on the downlink and uplink					explicitly
38	Link adaptation	4.2.1	●		●	
39	BS and MS transmit power control mechanisms and exchange control and monitoring information	4.2.1		○		Control channel not defined explicitly
40	Application in dense urban, urban, suburban, rural, outdoor-indoor, pedestrian, and vehicular environments and the relevant channel models.	4.2.2	●			Vehicular B channel not supported
41	Physical layer Measurements - BS	4.2.4	●			Not defined
42	Physical layer Measurements - MS	4.2.4	●			Not defined
43	Design extensible to wider channels.	4.3	●		●	
44	Mechanisms for quality of service (QOS) control and monitoring.	4.4.1	●			MAC Spec. not included

#	Requirement	SRD Section #	Requirement Type		Compliance Level	
			Shall	Should	Yes	Notes
45	Interfaces and procedures that facilitate the configuration, negotiation, and enforcement of QoS policies	4.4.1	●			MAC Spec. not included
46	Support both IPv4 and IPv6.	4.5	●			MAC Spec. not included
47	Handoff methods	4.5.1	●			MAC Spec. not included
48	Allow the use of either MobileIPv4, MobileIPv6 or of SimpleIP	4.5.1.1	●			MAC Spec. not included
49	Mechanism to enable the provisioning and collection of metrics.	4.5.2	●			MAC Spec. not included
50	Not preclude proprietary scheduling algorithms, so long as the standard control messages, data formats, and system constraints are observed.	4.6	●			MAC Spec. not included
51	Power conservation features to improve battery life for idle mobile terminals.	4.7	●			MAC Spec. not included

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