



Technical Specification for VoIP Telecom Terminal Equipment (VoIP TE)

Manufacturer: _____

Product Name/Brand: _____

Product Description: _____

Model No: _____

<i>Clause</i>	<i>Descriptions</i>	<i>Requirements</i>	<i>Comply YES/NO/NA</i>
1	General		
1.1		The VoIP terminal equipment shall have an audio codec capable of encoding and decoding speech according to ITU-T Rec. G.711 and capable of transmitting and receiving A-law and μ -law. It may support other codecs (ITU-T Rec. G.723.1 and G.729).	
1.2		The VoIP terminal equipment shall support Dynamic Host Configuration Protocol (DHCP) and Real-Time Protocol (RTP).	
2	VoIP Terminal Equipment using ITU-T Rec. H.323		
2.1		If the video codec is provided, it shall comply with requirements given in ITU-T Rec. H.323.	
2.2		Data channels are optional. However, ITU-T Rec. T.120 is the default basis for data interoperability between the H.323-based terminal and other H.323, H.324, H.320 or H.310 terminals.	
2.3		The equipment shall have the H.245 control channel to carry end-to-end control messages for the proper operation of the H.323-based terminals.	
2.4		The equipment shall have the RAS channel (Registration, Admission and Status), that uses H.225.0 messages to perform registration, admission, change to bandwidth, status and disengage Procedures.	
2.5		The equipment shall have the call signaling channel that uses H.225.0 call signaling to establish connection between two H.323-based terminals.	
2.6		The equipment shall support logical channels according to format defined in ITU-T Rec.H.225.0, these logical channels shall be established according to the procedures of ITU-T Rec.H.245.	



<i>Clause</i>	<i>Descriptions</i>	<i>Requirements</i>	<i>Comply YES/NO/NA</i>
3	VoIP Terminal Equipment using MEGACO/H.248		
		If the VoIP terminal equipment is an MEGACO/H.248 based terminal it shall also support IETF MEGACO IP Phone Media Gateway standard.	
4	VoIP Terminal Equipment using SIP		
		The equipment shall support the standards defined by IETF Session Initiation Protocol (RFC3261, RFC3262, RFC3263, RFC3264, RFC3265).	
5	If the VoIP terminals will be connected directly to the PSTN C.O line	The equipment shall be compatible with the European Telecommunications Standards Institute (ETSI) recommendations.	
<p>* Note: These standards are subject to timely manner revision according to international standards body's updates (e.g. IETF, ITU, ..)</p> <p>ITU-T Rec. G.711: Pulse code modulation (PCM) of voice frequencies ITU-T Rec. H.323: Packet-based Multimedia Communications Systems ITU-T Rec. T.120: Data protocols for multimedia conferencing ITU-T Rec. H.245: Control protocol for multimedia communication ITU-T Rec.H.225.0: Call signaling protocols and media stream packetization for packet- based multimedia communications systems ITU-T Rec. H.248 (06/2000): Gateway control protocol ITU-T Rec. H.310: Broadband audiovisual communication systems and terminals ITU-T Rec. H.320: Narrow-band visual telephone systems and terminal equipment ITU-T Rec. H.324: Terminal for low bit-rate multimedia communication</p>			
Manufacturer's stamp:		Signature:	
		Name:	
		Position:	
		Date:	