
Abbreviations/Acronyms

2D	two-dimensional	CRADA	Cooperative Research and Development Agreement
3D	three-dimensional	CRPL	Central Radio Propagation Laboratory
3G	third generation	CSIRO	Commonwealth Scientific and Industrial Research Organisation (Australia)
4G	fourth generation	CSPM	Communication System Performance Model
A			
AAR	Association of American Railroads	CSPT	Communication System Planning Tool
AC	alternating current	CSSI	Console Subsystem Interface
ACR-HR	Absolute Category Rating - Hidden Reference	CU	University of Colorado
AM	amplitude modulation	CVQM	Command Line VQM
ANS	American National Standard	D	
ANSI	American National Standards Institute	DAT	digital audio tape
APCO	Association of Public-Safety Communications Officials	dB	decibel
APD	amplitude probability distribution	DFS	Dynamic Frequency Selection
APIC	APCO Project 25 Interface Committee	DGPS	differential GPS
ATC	air traffic control	DHS	Department of Homeland Security
ATCBI	air traffic control beacon interrogator	DNR	Draft New Recommendation
ATIS	Alliance for Telecommunications Industry Solutions	DOC	Department of Commerce
AUGNet	Ad hoc UAV Ground Network	DOD	Department of Defense
AUT	antenna under test	DOI	Department of Interior
B			
BER	bit error rate	DRM	Digital Radio Mondiale
BPSK	binary phase shift keying	DSCP	Digital Sampling Channel Probe
BVQM	Batch VQM	DSES	Deep Space Exploration Society
C			
CAI	Common Air Interface	DSR	Documentation Suite Reference
CAP	Compliance Assessment Program	DTV	digital television
CAPPTG	Compliance Assessment Process and Procedures Task Group (a subcommittee under APIC)	E	
CCV	Coordination Committee for Vocabulary	EFI	error free interval
CD	compact disk	EIA	Electronic Industries Alliance
CDA	Code Domain Analyzer	EMC	electromagnetic compatibility
CDMA	Code Division Multiple Access	EMI	electromagnetic interference
CEA	Consumer Electronics Association	ESSA	Environmental Science Services Administration
CG	correspondence group	ETS	Emergency Telecommunications Service
CIF	common intermediate format	F	
CIP	Critical Infrastructure Protection	FAA	Federal Aviation Administration
CMRS	Commercial Mobile Radio Services	FCC	Federal Communications Commission
CONUS	Continental U.S.	FEC	forward error correction
COTS	commercial off-the-shelf	FLC	Federal Laboratory Consortium for Technology Transfer
		FM	frequency modulation
		foF2	F2-peak plasma frequency
		FPGA	Field Programmable Gate Array

FPIC	Federal Partnership for Interoperability Communications	ITSA	Institute for Telecommunication Sciences and Aeronomy
FR	full reference	ITT	ISSI Test Tool
FRA	Federal Railroad Administration	ITU	International Telecommunication Union
FSI	Fixed Station Interface	ITU-R	ITU — Radiocommunication Sector
FTP	File Transfer Protocol	ITU-T	ITU — Telecommunication Standardization Sector
FTTA	Federal Technology Transfer Act 1986	IVQM	In-Service VQM
FY	Fiscal Year		
G			
GETS	Government Emergency Telecommunications Service	J	
GHz	gigahertz	JRG	Joint Rapporteur(s) Group
GIF	Graphics Interchange Format	JRG-MMQA	Joint Rapporteur Group on Multimedia Quality Assessment
GIS	Geographic Information System	K	
GLOBE	Global Land One-km Base Elevation	kHz	kilohertz
GPS	Global Positioning System	km	kilometer
GSM	Global System for Mobile	kbps	kilobytes per second
GUI	Graphical User Interface	kW	kilowatt
H			
HATS	head and torso simulator	L	
HD	high definition	LAN	Local Area Network
HDTV	High Definition Television	L-Band	1215-1400 MHz band
HF	high frequency	LF	low frequency
HP	Hewlett-Packard Company	LFMF	low frequency/medium frequency
I			
I/Q	in-phase/quadrature	LMCT	Lockheed Martin/Coherent Technologies
IAA	interagency agreement	LMDS	Local Multipoint Distribution Service
IAFC	International Association of Fire Chiefs	LMR	Land Mobile Radio
IBOC	in-band on-channel	LNA	low noise amplifier
ICEPAC	Ionospheric Communications Enhanced Profile Analysis and Circuit Prediction Program	LO	local oscillator
IEEE	Institute of Electrical and Electronics Engineers	LOS	line of sight
IETF	Internet Engineering Task Force	LTE	long term evolution
IF	intermediate frequency	M	
ILG	Independent Lab Group	m	meter
IM	intermodulation	Mbps	megabits per second
IMT	International Mobile Communications	MD	multimedia definition
IP	Internet Protocol	MF	medium frequency
IPTV	Internet Protocol Television	MHz	megahertz
ISART	International Symposium on Advanced Radio Technologies	MIMO	Multiple Input Multiple Output
ISSI	Inter-RF Subsystem Interface	MRT	Modified Rhyme Test
IT	information technology	MPSK	multiple phase-shift keying
ITM	Irregular Terrain Model	ms	millisecond
ITS	Institute for Telecommunication Sciences	MSC	message sequence chart
		MSTV	Association for Maximum Service Television
		MTOM	mobile-to-mobile

N		PLMR	private land mobile radio
NARA	National Archives and Records Administration	PMW	Propagation Modeling Website
NB	narrowband	PRQC	Network Performance, Reliability and Quality of Service Committee
NCS	National Communications System	PS	public safety
NDGPS	Nationwide Differential Global Positioning System	PSAF	Public Safety Architecture Framework
NGN	Next Generation Network	PSAL	Public Safety Audio Laboratory
NGN-GSI	Next Generation Network Global Standards Initiative	PSAWG	P25 Systems Architecture Working Group
NIST	National Institute of Standards and Technology	PSNR	peak signal to noise ratio
NOAA	National Oceanic and Atmospheric Administration	PSRF lab	Public Safety RF laboratory
NR	no reference	PS-SoR	Public Safety Statement of Requirements
NS/EP	National Security and Emergency Preparedness	PSTN	Public Switched Telephone Network
NTIA	National Telecommunications and Information Administration	PSVL	Public Safety Video Laboratory
NWR	National Weather Radio	PSVQ	Public Safety Video Quality
O		PTT	Push-to-Talk
OA	outside/other agency	Q	
OAM	Operation, Administration and Maintenance	QoS	Quality of Service
OCIO	Office of the Chief Information Officer	QPSK	Quadrature Phase-Shift Keying
OIC	Office of Interoperability and Compatibility (of DHS)	R	
OLES	Office of Law Enforcement Standards	R&D	research and development
OMB	Office of Management and Budget	RAID	redundant array of independent disks
OQPSK	Offset Quadrature Phase-Shift Keying	RC	radio-controlled
OSM	Office of Spectrum Management	RCG	Radar Correspondence Group
OT	Office of Telecommunications	RF	radio frequency
OTP	Office of Telecommunications Policy	RFSS	Radio Frequency Subsystem
P		RLC	radio link core
P25	Project 25	RMSE	root mean squared error
PASS	personal alert safety system	RNSS	Radionavigation Satellite Service
PBS	Public Broadcasting System	RR	reduced reference
PC	personal computer	RR-NR	Reduced Reference – No Reference
PCAP	packet capture	RSEC	Radar Spectrum Engineering Criteria
PCP-TDR	Telecommunications for Disaster Relief and Mitigation — Partnership Co-ordination Panel	RSMS	Radio Spectrum Measurement Science
PCS	Personal Communications Services	RSMS-4G	4th Generation RSMS
PDA	personal digital assistant	RTP	Real-time Transport Protocol
PDD-63	Presidential Decision Directive No. 63 (on critical infrastructure protection)	S	
PDNR	Preliminary Draft New Recommendation	S&E	salaries and expenses
PESQ	Perceptual Evaluation of Speech Quality	SCBA	self-contained breathing apparatus
PIN	personal identification number	SCTE	Society of Cable Telecommunications Engineers
		SD	Standard Definition
		SDMA	Space Division Multiple Access
		SDO	Standards Development Organization
		SDR	software defined radio
		SDTS	Spatial Data Transfer Standard
		SG	Study Group
		SID	speaker identification

SIP	Session Initiation Protocol		
SIPRNET	Secret Internet Protocol Routable Network	V	
SoR	Statement of Requirements	VHF	very high frequency
SV	Systems View	VNB	very narrowband
		VoIP	Voice over Internet Protocol
		VPN	Virtual Private Network
T		VQEG	Video Quality Experts Group
TA Services	Telecommunications Analysis Services	VQM	Video Quality Metric
TDMA	time division multiple access	VSA	vector signal analyzer
TG	Task Group	VSG	vector signal generator
TIA	Telecommunications Industry Association	VQiPS	Video Quality in Public Safety (conference)
TIREM	Terrain Integrated Rough Earth Model		
TM	Technical Memorandum	W	
TMFCW	Table Mountain Frequency Coordination Website	WB	wideband
TR	Technical Report	WCC	Wireless Communications Committee
TR-8	Personal and Private Land Mobile Radio (a TIA standards development committee)	W-CDMA	Wideband CDMA
		Wi-Fi	Wireless Fidelity
TSB	Telecommunications Systems Bulletin	WiMax	Worldwide Interoperability for Microwave Access
	Technical Service Bulletin	WLAN	Wireless Local Area Network
TV	television	WLG-E	Working Level Group E
		WNRC	Wireless Networks Research Center
U		WP	Working Party
UAV	unmanned aerial vehicle	WTSC-RAN	Wireless Technologies and Systems Committee - Radio Access Networks
UHF	ultra high frequency		
UK	United Kingdom	Y	
U-NII	Unlicensed National Information Infrastructure	YIG	yttrium-iron-garnet
UNR	undesired signal to noise ratio		
UNS	User Needs Subcommittee		
U.S.	United States		
USDA	U.S. Department of Agriculture		
USGS	U.S. Geological Survey		
