

5G radio access network: the way forward

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Acronyms

4G/5G	4th/5th generation mobile network	eMBB	enhanced mobile broadband	OBSAI	open base station architecture initiative
BER	bit error rate	eNodeB	evolved node B	OSA	optical spectrum analyzer
BBU	baseband unit	FTTA	fiber-to-the-antenna	OTA	over-the-air
CPRI	common public radio interface	FTTP	fiber to the premises	PDCP	packet data convergence protocol
C&M	control and management	HDLC	high-level data link control	PON	passive optical network
C-RAN	centralized radio access network	LTE	3GPP long-term evolution (4G)	RAN	radio access network
CU	central unit	LTE-A	LTE-advanced	RF	radio frequency
CWDM	coarse wavelength division multiplexing	MAC	media access control	RLC	radio link control
DAS	distributed antenna system	MIMO	multiple input multiple output	RRH	remote radio head
DU	distribution unit	mMTC	massive machine type communication	RU	remote unit
DWDM	dense wavelength division multiplexing	NFV	network function virtualization	URLLC	ultra-reliable low latency communication
EAD	Ethernet access device	NR	new radio	WDM	wavelength-division multiplexing
eCPRI	Enhanced Common Public Radio Interface	OADM	optical add-drop multiplexer		