

1. Record Nr.	UNINA9910829987903321
Autore	Ferrus Ramon <1971->
Titolo	Mobile broadband communications for public safety : the road ahead through LTE technology // Ramon Ferraus and Oriol Sallent, Universitat Politècnica de Catalunya (UPC), Spain
Pubbl/distr/stampa	Chichester, West Sussex, United Kingdom : , : Wiley, , 2015 [Piscataway, New Jersey] : , : IEEE Xplore, , [2015]
ISBN	1-118-83122-5 1-118-83123-3 1-118-83124-1
Edizione	[1st edition]
Descrizione fisica	1 online resource (359 p.)
Classificazione	TEC061000
Altri autori (Persone)	SallentOriol <1969->
Disciplina	363.10028/4
Soggetti	Long-Term Evolution (Telecommunications) Emergency communication systems Telephone - Emergency reporting systems Public safety radio service
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	-- Preface ix -- List of Abbreviations xiii -- 1 Public Protection and Disaster Relief Communications 1 -- 1.1 Background and Terminology 1 -- 1.2 PPDR Functions and Organizations 3 -- 1.3 Operational Framework and Communications Needs for PPDR 6 -- 1.3.1 Operational Scenarios 7 -- 1.3.2 Framework for PPDR Operations 9 -- 1.3.3 Communications' Reference Points in PPDR Operations 12 -- 1.3.4 Communications Services Needed for PPDR Operations 16 -- 1.4 Communications Systems for PPDR 19 -- 1.4.1 General PPDR Requirements on Communications Systems 19 -- 1.4.2 Technologies in Use for PPDR Communications 22 -- 1.4.3 Current NB PMR Standards Used in PPDR 23 -- 1.4.4 Main Limitations with Today's PPDR Communications Systems 32 -- 1.5 Regulatory and Standardization Framework 39 -- 1.5.1 ITU Work on Emergency Communications 40 -- 1.5.2 North and Latin America Regions 43 -- 1.5.3 Asia and Pacific Region 44 -- 1.5.4 Europe Region 45 -- References 47 -- 2 Mobile Broadband Data Applications and Capacity Needs 49 -- 2.1

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Sommario/riassunto

"This book provides a timely and comprehensive overview of the
 introduction of LTE technology for PPDR communications. It describes
 the operational scenarios and emerging multimedia and data-centric
 applications in demand and discusses the main techno-economic
 drivers that are believed to be pivotal for an efficient and cost-effective
 delivery of mobile broadband PPDR communications. The capabilities
 and features of the LTE standard for improved support of mission-
 critical communications (e.g., proximity services, group
 communications) are covered in detail. Also, different network
 implementation options to deliver mobile broadband PPDR
 communications services over dedicated or commercial LTE-based
 networks are discussed, including the applicability of the Mobile Virtual
 Network Operator (MVNO) model and other hybrid models. Radio
 spectrum matters are also discussed in depth, outlining spectrum
 needs and providing an outlook into allocated and candidate spectrum
 bands for PPDR communications and suitable dynamic spectrum
 sharing solutions in PPDR communications. Explanations are
 accompanied by a vast collection of references that allow the more
 intrigued reader to gain further insight into the addressed topics"--

2. Record Nr.	UNICAMPANIAVAN00005965
Autore	Mantovani, Ferrando
Titolo	Diritto penale : parte generale / Ferrando Mantovani
Pubbl/distr/stampa	Padova, : CEDAM, 2001
ISBN	88-13-22304-8
Edizione	[4. ed]
Descrizione fisica	LIX, 1027 p. ; 24 cm.
Disciplina	345.45
Soggetti	Diritto penale
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia