1. Record Nr. UNINA9910806894703321 Autore Chandra Praphul Titolo Wi-Fi telephony: challenges and solutions for voice over WLANs / / by Praphul Chandra and David Lide Amsterdam;; Boston,: Elsevier/Newnes, c2007 Pubbl/distr/stampa **ISBN** 1-281-02248-9 9786611022488 0-08-052169-X Edizione [1st edition] Descrizione fisica 1 online resource (289 p.) Communications engineering series Collana Altri autori (Persone) LideDavid R. <1928-> Disciplina 004.69 Soggetti Internet telephony Wireless LANs Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Front Cover: Wi-Fi Telephony: Challenges and Solutions for Voice over WLANs; Copyright Page; Contents; Acknowledgments; Acronyms; About the Authors; Chapter 1. The Telephony World; 1.1 The Basics; 1.2 Digitizing Speech; 1.3 PSTN Architecture; 1.4 Signaling; 1.5 Voice and Wireless Networks; 1.6 Summary; Chapter 2. The Data World; 2.1 Introduction: 2.2 Brief History: 2.3 The OSI Seven-Layer Model: 2.4 The IP Protocol; 2.5 The TCP/IP Transport Layer; 2.6 Other TCP/IP-Based Protocols; 2.7 Conclusion; References; Chapter 3. Voice over IP; 3.1 Introduction: 3.2 Putting Voice Over Internet 3.3 VoIP Architectures 3.4 Signaling Protocols; 3.5 Voice-over-IP Media; 3.6 The Overall Picture; References; Chapter 4. Wireless Local Area Networks; 4.1 Introduction; 4.2 The Alphabet Soup; 4.3 Network Architecture; 4.4 802.11 Framing; 4.5 Accessing the Medium: 4.6 802.11 PHY; 4.7 Power Save in 802.11; 4.8 Conclusion; Chapter 5. VoWLAN Challenges; 5.1 Introduction; 5.2 VoWLAN; 5.3 System Capacity and QoS; 5.4 PCF; 5.5 Admission Control; 5.6 Security; 5.7 Power Save; 5.8 Roaming/Handoffs in 802.11; 5.9 Summary; Chapter 6. QoS and System Capacity; 6.1 Introduction 6.2 802.11e, WME and "Vanilla" WLANs6.3 Traffic Categories; 6.4

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## Sommario/riassunto

Wi-Fi telephony is the latest, most cost effective, and clearest way of carrying voice data wirelessly. The great news is that it can be integrated seamlessly into the same infrastructures as currently used for computer and telephone data. The digital quality is far above current cellular technologies. This book will be among the first to discuss Session Initiation Protocol (SIP), Quality of Service (QoS), and interoperability in connection with Wi-Fi telephony. Security challenges are also presented and solved along these malleable wireless boundaries. In short, this book provides all t