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NGN ARCHITECTURES, PROTOCOLS AND SERVICES

WILEY

Ngn Architectures Protocols And Services

David Taniar



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NGN Architectures, Protocols and Services Toni Janevski, 2014-03-06 Comprehensive coverage explaining the correlation and synergy between Next Generation Networks and the existing standardized technologies This book focuses on Next Generation Networks NGN in particular on NGN architectures protocols and services including technologies regulation and business aspects NGN provides convergence between the traditional telecommunications and the Internet and it is globally standardized by the ITU International Telecommunication Union where ITU is the United Nations specialized agency for Information and Communication Technologies ICTs The convergence towards the NGN is based on the Internet technologies and the introductory chapters cover the Internet fundamentals of today including architectures protocols IPv4 IPv6 TCP DNS etc Internet services WWW e mail BitTorrent Skype and more as well as Internet governance Further the prerequisite for convergence of all ICT services over single network architectures is broadband access to the Internet Hence the book includes architectures of fixed broadband Internet access networks such as DSL Digital Subscriber Line networks cable networks FTTH Fiber To The Home next generation passive and active optical networks and metro Ethernet It also covers network architectures for next generation 4G mobile and wireless networks LTE LTE Advanced and Mobile WiMAX 2 0 then Fixed Mobile Convergence FMC next generation mobile services as well as business and regulatory aspects for next generation mobile networks and services Comprehensive coverage explaining the correlation and synergy between Next Generation Networks and the existing standardized technologies Focuses on Next Generation Networks NGN as defined by the ITU including performance service architectures and mechanisms common IMS IP Multimedia Subsystem control and signalling protocols used in NGN security approaches identity management NGN Service Overlay Networks and NGN business models Examines the most important NGN services including QoS enabled VoIP IPTV over NGN web services in NGN peer to peer services Ubiquitous Sensor Network USN services VPN services in NGN Internet of things and web of things Includes the transition towards NGN from the PSTN Public Switched Telephone Networks and from the best effort Internet via the same Internet access Explores advanced topics such as IPv6 based NGN network virtualization and future packet based networks as well as business challenges and opportunities for the NGN evolved networks and services Essential reading for engineers and employees from regulatory bodies government organisations telecommunication companies ICT companies Conference Proceedings ,2004 **NTT Technical Review** ,2006 Communications & Strategies ,2003

The Handbook of Computer Networks, Distributed Networks, Network Planning, Control, Management, and New Trends and Applications Hossein Bidgoli, 2008 The Handbook of Computer Networks is the third set of reference books from leading author and Professor of Management Information Systems at California State University Bakersfield Hossein Bidgoli The Handbook of Computer Networks is designed to arm researchers practitioners students and managers with in depth understanding of this important and fast growing field in its broadest scope and in an applied and functional framework Each

volume incorporates state of the art core information and networking topics practical applications and coverage of the emerging issues in the computer networking and data communications fields **Multimedia Technologies** Mahbubur Rahman Syed,2008-01-01 This book offers an in depth explanation of multimedia technologies within their many specific application areas as well as presenting developing trends for the future Provided by publisher **Encyclopedia of Internet Technologies and Applications** Mário Marques Freire,Manuela Periera,2008 This book is the single source for information on the world s greatest network and provides a wealth of information for the average Internet consumer as well as for experts in the field of networking and Internet technologies It provides the most thorough examination of Internet technologies and applications for researchers in a variety of related fields Provided by publisher Telecommunications ,2005 **Network Convergence** Hu Hanrahan,2007-04-02 The present information age is enabled by telecommunications and information technology and the continued convergence of their services technologies and business models Within telecommunications the historic separations between fixed networks mobile telephone networks and data communications are diminishing Similarly information technology and enterprise communications show convergence with telecommunications These synergies are captured in the concept of Next Generation Networks that result from evolution to new technologies enabling new services and applications Network Convergence creates a framework to aid the understanding of Next Generation Networks their potential for supporting new and enhanced applications and their relationships with legacy networks The book identifies and explains the concepts and principles underlying standards for networks services and applications Network Convergence Gives comprehensive coverage of packet multimedia enterprise networks third generation mobile communications OSA Parlay and developments in fixed networks Gives an integrated view of diverse information and communications systems and technology through a common NGN Framework Delves into protocols APIs and software processes for supporting services and applications in advanced networks Discusses a variety of applications of telecommunications supporting IT and IT enhanced by communications Follows developments in operations support systems standards and links these to next generation networks Includes a wealth of examples use cases tables and illustrations that help reinforce the material for students and practitioners Features an accompanying website with PowerPoint presentations glossary web references tutorial problems and learn more pages This essential reference guide will prove invaluable to advanced undergraduate and graduate students academics and researchers It will also be of interest to professionals working for telecommunications network operators equipment vendors telecoms regulators and engineers who wish to further their knowledge of next generation networks Mobile Computing David Taniar,2009 This multiple volume publication advances the emergent field of mobile computing offering research on approaches observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers Provided by publisher Proceedings ,2003 The 3G IP Multimedia Subsystem (IMS) Gonzalo Camarillo,Miguel-Angel

García-Martín,2006-02-10 This work provides users with a thorough knowledge of IMS to help them fully understand the need for 3G and how it will provide enriched end user services **Parallel and Distributed Processing and Applications**,2005 **Information Societies in Latin America and the Caribbean** Wilson Peres,Martin R. Hilbert,2010 This book analyses the development of information societies in the countries of Latin America and the Caribbean and provides input for public policy on information and communications technologies ICT issues Provided by publisher **Encyclopedia of Multimedia Technology and Networking** Margherita Pagani,2008-08-15 This publication offers a research compendium of human knowledge related to the emerging multimedia digital metamarket Provided by publisher *IEEE Open Architectures and Network Programming Proceedings* ,2003 **Northern African Wireless Communications** ,2005 **Voice Over IP (VoIP) Technology** Petros Mouchtaris,2001 *Annual Review of Communications: Volume 59* International Engineering Consortium,2007 An indispensable reference publication for telecommunication and information industry professionals Each year the IEC brings together into one unique resource the most current thinking and practical experience of industry leaders around the world on a variety of topics facing their areas of specialization This 700 page reference tool is a must for executives managers engineers analysts and educators in all sectors of today s changing information industry *The Open Mobile Alliance* Michael Brenner,Musa Unmehopa,2008-03-17 A practical overview of OMA specifications and how they enable mobile multimedia services much more The Open Mobile Alliance OMA is an industry forum which develops open specifications to help in the creation of applications and services to be deployed over converged networks The alliance is the leading industry forum for generating market driven specifications for interoperable mobile service enablers that facilitate global user adoptions of mobile multimedia services Members include traditional wireless industry segments such as mobile operators mobile operators e g AT T China Mobile Orange Sprint Nextel T Mobile Telefonica Vodafone equipment and mobile systems manufacturers e g Alcatel Lucent Ericsson Motorola Nokia Philips Samsung Siemens Sony Ericsson and Information Technology vendors e g BEA Systems IBM Microsoft Oracle Corporation Sun Microsystems and NEC Since its formation in 2002 the OMA has made significant progress in areas such as push to talk over cellular device management presence and group management and messaging The Open Mobile Alliance Provides a comprehensive overview of the service enablers published by the OMA tying together all the different piece parts developed by the individual working groups Offers a thorough introduction to the OMA Service Environments OSE and the specification process for enabling technologies Discusses enablers for services such as gaming IMS Parlay mobile broadcast and web services Contains contributions from all stakeholders in the mobile application value chain The Open Mobile Alliance Alliance is an invaluable resource for OMA members product managers network architects and planners standards managers standards engineers and IT professionals Advanced Students and lecturers on mobile application development and standardization courses will also find this book of interest The success of OMA is due to its individual members contributions

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