Implementing Advanced Telepresence Video Solutions Part 1

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Deploying QoS for Cisco IP and Next Generation Networks Friends Publications (India)

This volume presents state-of-the-art research from a wide area of subjects brought about by the digital convergence of computing, television, telecommunications and the World-Wide Web. It represents a unique snapshot of trends across a wide range of subjects including virtual environments; virtual reality; telepresence; human-computer interface design; interactivity; avatars; and the Internet. Both researchers and practitioners will find it an invaluable source of reference.

Edu IOS Press

NATO operations have expanded in recent years, and the old Cold War concept of “every nation provides its own medical support” is no longer tenable, nor is it NATO policy. In the future, NATO medical care will often be provided on a multinational basis, especially in case of emergencies such as NATO response to natural or man-made disasters or to terrorist actions. Even though deployed military personnel are usually young and relatively healthy, this is not the case for all those who may be provided care by NATO medical personnel. The pressures to “shorten the logistics tail”, coupled with the shortage of trained cardiologists in most of our nations, has and will

continue to preclude the routine deployment of Cardiologists to all NATO operational missions. However, the need to provide services during these missions remains very real. Even following a natural disaster or exposure to toxic agents, the ability to distinguish a cardiac event from other causes of chest pain can be life-saving, and appropriate diagnosis will lead to improved survival, reduced inappropriate use of medical capabilities, and decreased inappropriate evacuation of patients. This book summarizes the current state of Telecardiology as presented by the member participants totalling nearly 60 individuals and representing over 16 NATO and Partner for Peace nations.

Research and Development Annual Report, 1992 Routledge

In Beyond E-Business: Towards Networked Structures Paul Grefen returns with his tried and tested BOAT framework for e-business, now fully expanded and updated with the very latest overview of digitally connected business; from business models, organization structures and architecture, to information technology. What used to be termed "e-business" is now simply business as usual. Today's successful organizations are complex; they are part of dynamic business networks built on digital channels, going far beyond traditional e-business. This text provides invaluable insights of modern e-business integrated with networked business, going much further than the usual analysis of traditional e-business texts. Included is coverage of the Big Five—social media, mobile computing, big data, cloud computing, and the internet of things --as well as service-oriented business and technology. This essential text provides a compact roadmap to networked e-business for engineering, information systems or business students as well as professionals in the field.

Using Technology to Combat Diseases and Help People With Disabilities Springer Science & Business Media

"This book presents state-of-the-art research, developments, and integration activities in combined platforms of heterogeneous wireless networks"--Provided by publisher.

IEICE Transactions on Communications, Electronics, Information, and Systems Information Gatekeepers Inc

This book constitutes the refereed proceedings of the 6th International Conference on Entertainment Computing, ICEC 2007. The papers are organized in topical sections on augmented, virtual and mixed reality, computer games, image processing, mesh and modeling, digital storytelling and interactive systems, sound, music and creative environments, video processing, rendering, computer animation and networks, game based interfaces, as well as robots and cyber pets.

The 1st International Conference on Advanced Intelligent System and Informatics (AISI2015), November 28-30, 2015, Beni Suef, Egypt Cisco Press

The Internet has transformed higher education by changing the way universities and colleges teach students. As a result, many institutions are struggling to understand how the next generation of Internet

technologies, including Web 2.0, multimedia, virtual presence, gaming, and the proliferation of mobile devices, will impact their students and infrastructures. .edu: Technology and Learning Environments in Higher Education discusses how higher education institutions can use these technologies to enable learning environments. In the future, students will have complete access to any higher education resource, including expert scholars, lectures, content, courseware, collaborative dialogues, information exchanges, hands-on learning, and research - no matter where they are located. If fully enabled, this new learning environment will blur the lines between on- and off-campus experiences and remove barriers to learning and research - greatly improving the quality of education for students globally.

Virtual Environments and Advanced Interface Design IGI Global

The first complete guide to planning, evaluating, and implementing high-value SIP trunking solutions Most large enterprises have switched to IP telephony, and service provider backbone networks have largely converted to VoIP transport. But there's a key missing link: most businesses still connect to their service providers via old-fashioned, inflexible TDM trunks. Now, three Cisco® experts show how to use Session Initiation Protocol (SIP) trunking to eliminate legacy interconnects and gain the full benefits of end-to-end VoIP. Written for enterprise decision-makers, network architects, consultants, and service providers, this book demystifies SIP trunking technology and trends and brings unprecedented clarity to the transition from TDM to SIP interconnects. The authors separate the true benefits of SIP trunking from the myths and help you systematically evaluate and compare service provider offerings. You will find detailed cost analyses, including guidance on identifying realistic, achievable savings. SIP Trunking also introduces essential techniques for optimizing network design and security, introduces proven best practices for implementation, and shows how to apply them through a start-to-finish case study. Discover the advanced Unified Communications solutions that SIP trunking facilitates Systematically plan and prepare your network for SIP trunking Generate effective RFPs for SIP trunking Ask service providers the right questions—and make sense of their answers Compare SIP deployment models and assess their tradeoffs Address key network design issues, including security, call admission control, and call flows Manage SIP/TDM interworking throughout the transition This IP communications book is part of the Cisco Press® Networking Technology Series. IP communications titles from Cisco Press help networking professionals understand voice and IP telephony technologies, plan and design converged networks, and implement network solutions for increased productivity.

Advanced Infrastructures for Future Healthcare Elsevier

Deploying QoS for IP Next Generation

Networks: The Definitive Guide provides network architects and planners with insight into the various aspects that drive QoS deployment for the various network types. It serves as a single source of reference for businesses that plan to deploy a QoS framework for voice, video, mobility and data applications creating a converged infrastructure. It further provides detailed design and implementation details for various service deployments across the various Cisco platforms such as the CRS-1, 12000, 7600 & 7200 series routers that are widely deployed in most Carrier Networks. The book covers architectural and implementation specific information plus recommendations for almost all the popular line cards across the various hardware platforms widely used in the market. It also addresses QoS architecture and deployment on the Cisco CRS-1 platform and is considered as a unique selling point of this book. In short the books serve as an "On the Job Manual" which can also be used as a study guide for Cisco specialist certification programs (CCNA, CCIP, CCIE) This book will includes detailed illustration and configurations. In addition, it provides detailed case studies along with platform specific tests and measurement results. A link to a detailed tutorial on QoS metrics and associated test results will be available at the book's companion website in order to ensure that the reader is able to understand QoS functionality from a deployment standpoint. Covers the requirements and solutions in deploying QoS for voice, video, IPTV, mobility and data traffic classes (Quad-play networks), saving the reader time in searching for hardware specific QoS information, given the abundance of Cisco platforms and line cards. Presents real-life deployments by means of detailed case studies, allowing the reader to apply the same solutions to situations in the work place. Provides QoS architecture and implementation details on Cisco CRS-1, 12000, 7600, and 7200 routing platforms using Cisco IOS/IOS-XR software, aiding the reader in using these devices and preparing for Cisco specialist certification.

Digital Media: The Future Artech House Telepresence is enabling human interaction at a distance, creating a sense of being present at a remote location. In the next millennium we are certain to be increasingly `telepresent' both at work and at play, with an expanding market for telepresence services. As we move from a physical to an information economy, demand will grow for services which transport bits not atoms and which support the output of the human mind. Moreover, technology continues to advance at an unprecedented rate, and it could be suggested that we are reaching key breakpoints in client processing power and global network interconnectivity. In practice, telepresence systems utilise a very wide range of technologies. In compiling this book the editors have included chapters from across these technologies which they have broadly classified as audio, data, video and virtual environments. Telepresence gives a flavour of the exciting developments in telepresence and teleconferencing technologies being researched and developed within BT. Just as the telephone began changing the world a century ago, so will telepresence one day alter the way we live, think, do business and react to the world around us. The potential for these

technologies is staggering, the implications mind-boggling. Building on a strong base of established audiovisual conferencing and interactive multimedia services, BT and MCI are leading the way in defining the commercial applications of telepresence that will shape the future of global telecommunication. Telepresence is a snapshot of these groundbreaking activities and conveys the complexity, uncertainty and enthusiasm involved in this challenging and exciting work. It is essential reading for all researchers, engineers and managers working in this stimulating field.

Towards Smart World Elsevier

Towards Smart World: Homes to Cities Using Internet of Things provides an overview of basic concepts from the rising of machines and communication to IoT for making cities smart, real-time applications domains, related technologies, and their possible solutions for handling relevant challenges. This book highlights the utilization of IoT for making cities smart and its underlying technologies in real-time application areas such as emergency departments, intelligent traffic systems, indoor and outdoor securities, automotive industries, environmental monitoring, business entrepreneurship, facial recognition, and motion-based object detection. Features The book covers the challenging issues related to sensors, detection, and tracking of moving objects, and solutions to handle relevant challenges. It contains the most recent research analysis in the domain of communications, signal processing, and computing sciences for facilitating smart homes, buildings, environmental conditions, and cities. It presents the readers with practical approaches and future direction for using IoT in smart cities and discusses how it deals with human dynamics, the ecosystem, and social objects and their relation. It describes the latest technological advances in IoT and visual surveillance with their implementations. This book is an ideal resource for IT professionals, researchers, undergraduate or postgraduate students, practitioners, and technology developers who are interested in gaining deeper knowledge and implementing IoT for smart cities, real-time applications areas, and technologies, and a possible set of solutions to handle relevant challenges. Dr. Lavanya Sharma is an Assistant Professor in the Amity Institute of Information Technology at Amity University UP, Noida, India. She has been a recipient of several prestigious awards during her academic career. She is an active nationally recognized researcher who has published numerous papers in her field.

Implementing Cisco Collaboration Applications (CAPPS) Foundation Learning Guide (CCNP Collaboration Exam 300-085 CAPPS) Peter Lang

This book constitutes the proceedings of the 14th International Conference on Smart Homes and Health Telematics, ICOST 2016, held in Wuhan, China, in May 2016. The 39 regular papers, 5 short papers and 1 poster paper included in this volume were carefully reviewed and selected from 83 submissions. They were organized in topical sections named: smart homes, smart urban spaces and new assistive living space concepts in the smart city; e-health for future smart cities; context awareness and autonomous computing; home networks and residential gateways; middleware support for smart homes and health telematic services; e-health and chronic disease management; e-health technology assessment and impact analysis; tele-assistance and tele-rehabilitation; modeling of physical and conceptual information in intelligent environments; medical big data collection, processing and analysis; human machine interfaces; wearable sensors and continuous health monitoring; social, privacy and security issues; mobile health services; and smart rehabilitation technologies.

Beyond E-Business Frontiers Media SA

Perceptual processes in humans and machines, investigated and simulated by

means of the computational approach, are the subject matter of this volume. Researchers in artificial intelligence, pattern recognition, and psychology discuss aspects of vision, speech understanding, sensory-motor coordination, and their interplay with cognitive and behavioral functionalities. The papers adopt the computational approach as the basic research paradigm. Connectionist models, numerical and statistical techniques, symbolic (logic-based) formalisms, and hybrid representations provide the formal background to the research. Some of the papers were prepared for a workshop held in Trieste, Italy, in October 1992.

Advanced Control Strategies for Social and Economic Systems (ACS'04) Artech House

This sweeping introduction to the science of virtual environment technology masterfully integrates research and practical applications culled from a range of disciplines, including psychology, engineering, and computer science. With contributions from the field's foremost researchers and theorists, the book focuses in particular on how virtual technology and interface design can better accommodate human cognitive, motor, and perceptual capabilities. Throughout, it brings the reader up-to-date with the latest design strategies and cutting-edge virtual environments, and points to promising avenues for future development. The book is divided into three parts. The first part introduces the reader to the subject by defining basic terms, identifying key components of the virtual environment, and reviewing the origins and elements of virtual environments. The second part focuses of current technologies used to present visual, auditory, tactile, and kinesthetic information. The book concludes with an in-depth analysis of how environments and human perception are integrated to create effective virtual systems. Comprehensive and splendidly written, Virtual Environments and Advanced Interface Design will be the "bible" on the subject for years to come. Students and researchers in computer science, psychology, and cognitive science will all want to have a copy on their shelves.

Federal Register Oxford University Press

New digital image processing and recognition methods, implementation techniques and advanced applications (television, remote sensing, biomedicine, traffic, inspection, robotics, etc.) are presented in this volume. Novel approaches (i.e. digital filters, source coding, neural networks etc.) for solving 2-D and 3-D problems are described. Many papers focus on the motion estimation and tracking recognition of moving objects. The increasingly important field of Cultural Heritage is also covered. Some papers are more theoretical or of review nature, while others contain new implementations and applications. Generally the book presents - for the above outlined area - the state of the art (theory, implementation, applications) with future trends. This book will be of interest not only to researchers, professors and students in university departments of engineering, communications, computers and automatic control, but also to engineers and managers of industries concerned with computer vision, manufacturing, automation, robotics and quality control.

Implementing Cisco IP Telephony and Video, Part 2 (CIPTV2) Foundation Learning Guide (CCNP Collaboration Exam 300-075 CIPTV2) Springer Science & Business Media

This two-volume proceedings constitutes the refereed papers of the 17th International Multimedia Modeling Conference, MMM 2011, held in Taipei, Taiwan, in January 2011. The 51 revised regular papers, 25 special session papers, 21 poster session papers, and 3 demo

session papers, were carefully reviewed and selected from 450 submissions. The papers are organized in topical sections on audio, image video processing, coding and compression; media content browsing and retrieval; multi-camera, multi-view, and 3D systems; multimedia indexing and mining; multimedia content analysis; multimedia signal processing and communications; and multimedia applications. The special session papers deal with content analysis for human-centered multimedia applications; large scale rich media data management; multimedia understanding for consumer electronics; image object recognition and compression; and interactive image and video search.

Implementing Cisco Collaboration Applications (CAPPS) Foundation Learning Guide Springer Science & Business Media

Contemporary man-machine interfaces are increasingly characterized by multimodality, nonintrusiveness, context-sensitivity, adaptivity, and teleoperability. The implementation of such properties relies on novel techniques in felds such as, e.g., computer vision, speech technology, trainable classifiers, robotics, and virtual reality. This book puts special emphasis on technological aspects of advanced interface implementation. Furthermore it focuses on interface design and usability. For readers with a background in engineering and computer science, most chapters offer design guidelines and case studies, as well as a description of the functioning and limitations of the algorithms required for implementation. In addition, complementary code examples in C++ are given where appropriate. As a special feature the book is accompanied by two easy-to-handle software development environments, which offer access to extensive public domain software for computer vision, classification, and virtual reality. These environments also provide real-time access to peripheral components like, e.g., webcams or microphones, enabling hands-on experimentation and testing.

Conference Record Cisco TelePresence Fundamentals

Advanced robotics' describes the use of sensor-based robotic devices which exploit powerful computers to achieve the high levels of functionality that begin to mimic intelligent human behaviour. The object of this book is to summarise developments in the base technologies, survey recent applications and highlight new advanced concepts which will influence future progress. I. Technologies (Recent developments in advanced robotics and intelligent systems; Machine intelligence - architectures, controllers and applications; Advanced control systems for robotic arms; Intelligent gripping systems; Force feedback control in robots applied to decommissioning; Tele-presence control of robots; Sensing and sensor management for planning); II Applications (Robotics in the nuclear industry; Robots in surgery; Intelligent autonomous systems for cars; Walking machine technology; Handling of flexible materials in automation; Robotics in food manufacturing; Robotic milking; Error-free semiconductor wafer handling); III Advanced concepts and procedures

(The concept of robot society and its utilisation; Miniature and microrobotics; Characteristics of robot behavior; A behaviour synthesis architecture for co-operant mobile robots; Co-operant behaviour in multiple manipulators; Neural networks in automation procedures; Parallel processing, neural networks and genetic algorithms for real-time robot control); Index.

SIP Trunking Cisco Press

Now fully updated for Cisco's new CIPTV2 300-075 exam, Implementing Cisco IP Telephony and Video, Part 2 (CIPTV2) Foundation Learning Guide is your Cisco® authorized learning tool for CCNP® Collaboration preparation. Part of the Cisco Press Foundation Learning Series, it teaches advanced skills for implementing a Cisco Unified Collaboration solution in a multisite environment. The authors show how to implement Uniform Resource Identifier (URI) dialing, globalized call routing, Intercluster Lookup Service and Global Dial Plan Replication, Cisco Service Advertisement Framework and Call Control Discovery, tail-end hop-off, Cisco Unified Survivable Remote Site Telephony, Enhanced Location Call Admission Control (CAC) and Automated Alternate Routing (AAR), and important mobility features. They introduce each key challenge associated with Cisco Unified Communications (UC) multisite deployments, and present solutions-focused coverage of Cisco Video Communication Server (VCS) Control, the Cisco Expressway Series, and their interactions with Cisco Unified Communications Manager. Each chapter opens with a topic list that clearly identifies its focus, ends with a quick-study summary of key concepts, and presents review questions to assess and reinforce your understanding. The authors present best practices based on Cisco Solutions Reference Network Designs and Cisco Validated Designs, and illustrate operation and troubleshooting via configuration examples and sample verification outputs. This guide is ideal for all certification candidates who want to master all the topics covered on the CIPTV2 300-075 exam. Shows how to craft a multisite dial plan that scales, allocates bandwidth appropriately, and supports QoS Identifies common problems and proven solutions in multisite UC deployments Introduces best practice media architectures, including remote conferencing and centralized transcoding Thoroughly reviews PSTN and intersite connectivity options Shows how to provide remote site telephony and branch redundancy Covers bandwidth reservation at UC application level with CAC Explains how to plan and deploy Cisco Device Mobility, Extension Mobility, and Unified Mobility Walks through deployment of Cisco Video Communication Server and Expressway series, including user and endpoint provisioning Covers Cisco UCM and Cisco VCS interconnections Shows how to use Cisco UC Mobile and Remote Access Covers fallback methods for overcoming IP WAN failure Demonstrates NAT traversal for video and IM devices via VCS Expressway Introduces dynamic dial plan learning via GDPR, SAD, or CCD

Implementing Cisco IP Switched Networks (SWITCH) Foundation Learning Guide Springer

mHealth: From Smartphone to Smart Systems provides a high level and comprehensive survey of the emergence of mobile technology healthcare. This book looks beyond the already-popular devices and apps

associated with mHealth, exploring the major role this technology could play as healthcare steers inexorably toward an architecture

Towards a Global 3G System Cisco Press

Cisco TelePresence FundamentalsCisco Press