

Metropolitan Area Networks: Standards, Services and Performance⁽¹⁾

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Abstract. This paper, after a general survey of Metropolitan Area Network (MAN) issues, in which the market, standard and service trends in MANs are discussed (e.g., relationship with Broadband Integrated Services Digital Network, B-ISDN) are considered, examines the ongoing MAN related activities inside standard-making bodies such as IEEE (Institute of Electrical and Electronic Engineers) and ITU-T (International Telecommunications Standards Bureau). Emerging trends in architecture, protocols and services are reviewed.

A more detailed characterization of the basic services MANs are required to provide (i.e., connectionless, non-interfering connection-oriented and broadcast) is also given, emphasizing their broadband nature and the related applications; the protocols providing these services within the Ethernetized Generic Dual Bus (DQDB) framework are briefly described.

The last section is devoted to a discussion of MAN performance, specifically in terms of latency, focusing again on the DQDB protocol, which appears to be the most promising solution for MANs, and on possible improvements of its characteristics.

1. INTRODUCTION

Metropolitan Area Networks (MANs) are a new and already "hot" telecommunications sector with several open issues now clearly emerging and influencing both the international marketing policy and standardization activities.

The demand for services which a MAN is typically required to provide is already well identified within the market. A growing community of business users, equipped with a plethora of PCs, has com-

(1) Presented at the CNT Seminar «Broadband Communications Networks and Services» (Roma, October 28-31, 1993). By courtesy of CNT, Telecommunications Project.

The work was carried out with the partial financial support of the National Research Council (CNR) of Italy to the frame of the Telecommunications Project.

puters, workstations, Local Area Networks (LANs) for use within a single site, are looking forward to extending their communication capability towards the outside world; metropolitan area coverage can be the first short-term feasible step.

Manufacturers, system integrators and Public Telecommunications Operators (PTOs) have recognized that this sector will offer major opportunities in the coming years. Finding proper solutions, however, is not straightforward, as this sector is on the boundary between the private and public domains. A way to tackle the problem is first of all the promotion and early implementation of suitable standard solutions, in order to ensure the compatibility needed for interworking between different environments.

Overhead industries and operators have first identified the market opportunities for MANs and are now

Metropolitan Area Networks Concepts Standards And Services

**Kostas Pentikousis, Oliver
Blume, Ramon Agüero, Symeon
Papavassiliou**

Metropolitan Area Networks Concepts Standards And Services:

Metropolitan Area Networks Gary C. Kessler,David A. Train,1992 This book provides an exhaustive look at current MAN standards and products and how they fit in with other communications services and standards It covers the definition of MANs and the two main strategies today ANSI's Fiber Distributed Data Interface FDDI and the IEEE's Distributed Queue Dual Bus DQDB *The McGraw-Hill Internetworking Command Reference* Ed Taylor,1995 A companion reference to the author's Internetworking Handbook that provides network managers a single source for all the major multivendor software commands File structures of UNIX MVS DEC OS 40 etc and all the most frequently used commands included in this one stop indispensable reference *Digital Broadband Networks & Services* Bertil C. Lindberg,1995 This unique reference provides a complete overview of the technology implementation issues and markets for digital broadband technology the next level of networking designed to support the current explosion in imaging applications interconnected LANs ISDN and optical fiber technologies An all in one information packed source useful for all IS professionals considering implementing broadband technology *Handbook of Networking & Connectivity* Gary R. McClain,2014-05-10 Handbook of Networking Connectivity focuses on connectivity standards in use including hardware and software options The book serves as a guide for solving specific problems that arise in designing and maintaining organizational networks The selection first tackles open systems interconnection guide to digital communications and implementing TCP IP in an SNA environment Discussions focus on elimination of the SNA backbone routing SNA over internets connectionless versus connection oriented networks internet concepts application program interfaces basic principles of layering protocols and services application layer and conformance testing The book then takes a look at integrated services digital network an overview of the synchronous optical network and X 25 and worldwide networking The publication ponders on Metropolitan Area Networks MAN an overview of the switched multimegabit data service and Ethernet 802 3 and Token Ring 802 5 Topics include Ethernet versus token ring Ethernet 802 3 customer network management MAN conception and technology and SMDS specifications and sources and interface protocol The selection is a vital source of data for systems professionals and researchers interested in networking and connectivity

Handbook of Information Security, Key Concepts, Infrastructure, Standards, and Protocols Hossein Bidgoli,2006-03-20 The Handbook of Information Security is a definitive 3 volume handbook that offers coverage of both established and cutting edge theories and developments on information and computer security The text contains 180 articles from over 200 leading experts providing the benchmark resource for information security network security

information privacy and information warfare **IEEE 802 Wireless Systems** Bernhard H. Walke,Stefan Mangold,Lars Berlemann,2007-01-11 Throughout the next decade 802 wireless systems will become an integral part of fourth generation 4G cellular communication systems where the convergence of wireless and cellular networks will materialize through support of interworking and seamless roaming across dissimilar wireless and cellular radio access technologies IEEE 802

Wireless Systems clearly describes the leading systems covering IEEE 802 11 WLAN IEEE 802 15 WPAN IEEE 802 16 WMAN systems architecture standards and protocols including mesh with an instructive approach allowing individuals unfamiliar with wireless systems to follow and understand these technologies Ranging from digital radio transmission fundamentals duplex multiplexing and switching to medium access control radio spectrum regulation coexistence and spectrum sharing this book also offers new solutions to broadband multi hop networking for cellular and ad hoc operation The book Gives a comprehensive overview and performance evaluation of IEEE 802 11 802 15 and 802 16 Includes a tutorial like introduction to the basics of wireless communication Discusses challenges in mesh multi hop relaying networks and provides profound solutions for their realization with 802 Wireless Systems Covers spectrum sharing on different levels and provides solutions for coexistence cooperation and interworking of 802 Wireless Systems that are following the same or different standards but share the same spectrum Includes a detailed overview and introduction on cognitive radio and dynamic spectrum access Accompanying website contains simulation software and provides slides of the figures and tables from the book ready for course presentation This book is an essential text for advanced undergraduate students with a basic working knowledge of wireless communication graduate students and engineers working in the field of wireless communications

Local and Metropolitan Area Networks Pierpaolo Ghiggino,Charles A. Eldering,1993 *Mobile Networks and Management* Kostas Pentikousis,Oliver Blume,Ramon Agüero,Symeon Papavassiliou,2010-05-10 The First International ICST Conference on Mobile Networks and Management MONAMI was held in Athens Greece during October 13 14 2009 hosted by the National Technical University of Athens Through what we hope will be a long lasting series of events this new international conference aims at bringing together top researchers academics and practitioners specializing in the area of mobile network management Multiaccess and resource management mobility management and n work management have emerged as core topics in the design deployment and ope tion of current and future networks Yet they are treated as separate isolated domains with very little interaction between the experts in these fields and lack cro pollination MONAMI 2009 offered the opportunity to leading researchers industry professionals and academics to meet and discuss the latest advances in these areas and present results related to technologies for true plug and play networking efficient use of all infrastructure investments and access competition MONAMI 2009 featured eight full papers and five short papers which were lected after a thorough peer review process based on their relevance to the scope of the conference and their technical merit The overall acceptance rate was 50% The contributing authors covered a range of topics in mobile networks and their mana ment that are currently of high interest in the wireless research area *Introduction to SNA Networking* Jay Ranade,Jay Renade,George C. Sackett,1995 Don t miss this opportunity to improve your SNA networking potential The new edition of this best selling guide will show you how to make the move to the new SNA IBM s Advanced Peer to Peer Networking APPN which is now implemented on every major platform used in enterprise computing With the help of this

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Law & the Information Superhighway Henry H. Perritt,2004-10 *Network Management Systems Essentials* Divakara K. Udupa,1996 The volume presents extensive coverage of network management concepts standards and architectures for commercial technology plus numerous exercises references and illustrations to enhance your understanding of the material Ideal for computer and network professionals as well as network end users this book will serve as both an on the job reference and an easy to use tutorial on network management fundamentals *TCP/IP and Related Protocols* Uyless D. Black,1995 This new edition clearly explains all facets of TCP IP and the many protocols that operate within these two standards It's written for anyone either using or managing data communications systems and networks Updated coverage includes resource records RR for DNS discovery services messaging in the Internet and more

Data Communications Using Object-oriented Design and C++ Anil Ananthaswamy,1995 This example laden book disk combination is a practical resource for communications professionals who are interested in the nuts and bolts of implementing data communications systems using object oriented design in C The author illustrates such fundamental data communications concepts as layering flow control sliding window protocols and error detection and recovery *TCP/IP Networking* David M. Peterson,1995 This book provides complete coverage of TCP IP networking architecture as it applies to IBM's five major operating systems MVS VM AS 400 RS 6000 and OS 2 Moving from theoretical to very practical issues the guide covers the full spectrum of TCP IP support relevant to IBM's distributed processing strategy

Introduction to ATM Networking Walter Goralski,1995 Here's an in depth technical look at the architecture and advantages of the hottest communications technology available Asynchronous Transfer Mode ATM Focusing on design and implementation the book provides insights into ATM forum recommendations as it covers the capabilities of ATM and much more It also includes coverage of IBM's Packet Transfer Mode PTM

Multimedia Network Integration and Management Larry Lennox Ball,1996 A guide for software engineers and developers and network managers to creating a multimedia network reliable enough for business applications Provides information on architectures controls signaling and modality and on crucial factors that distinguish multimedia from other networks and business from other applications Includes many scenarios ranging from automated bank teller machines to

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