

Metropolitan Area Networks: Standards, Services and Performance^(*)

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Abstract. The paper, after a general survey of Metropolitan Area Network (MAN) issues, in which the market demand and recent trends in MAN concepts (e.g., relationship with Broadband Integrated Service Digital Network, B-ISDN) are considered, examines the ongoing MAN related activities inside standard-setting bodies such as IEEE (Institute of Electrical and Electronic Engineers) and ETSI (European Telecommunications Standards Institute). Emerging trends in architecture, protocols and services are reviewed.

A more detailed characterization of the bearer services MANs are required to provide (i.e., connectionless, non hierarchical connection oriented and hierarchical) is then given, emphasizing their broadbased nature and the related applications; the functions providing these services within the Distributed Queue Dual Bus (DQDB) framework are briefly described.

The last section is devoted to a discussion of MAN performance, specifically in terms of fairness, 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" telecommunication 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 PC's, host com-

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 Telecommunication 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.

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

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Metropolitan Area Networks Concepts Standards And Services

**Jay Ranade, Jay Renade, George C.
Sackett**



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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

Local and Metropolitan Area Networks William Stallings, 1997 Like its predecessors this fully updated Fifth Edition of Local and Metropolitan Area Networks provides a clear comprehensive presentation of LAN MAN technology and the many emerging approaches to high speed local networking It meets the needs of today s students by emphasizing both the fundamental principles as well as the critical role of performance in driving LAN MAN design

A Field Guide to Wireless LANs Thomas Maufer, 2004 Finally an 802.11 deployment guide for business and home use that demystifies the alphabet soup of IEEE standards and explains the features and benefits of each with regards to speeds and feeds

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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

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Fundamentals of Optical Networks and Components Partha Pratim Sahu, 2020-07-09

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