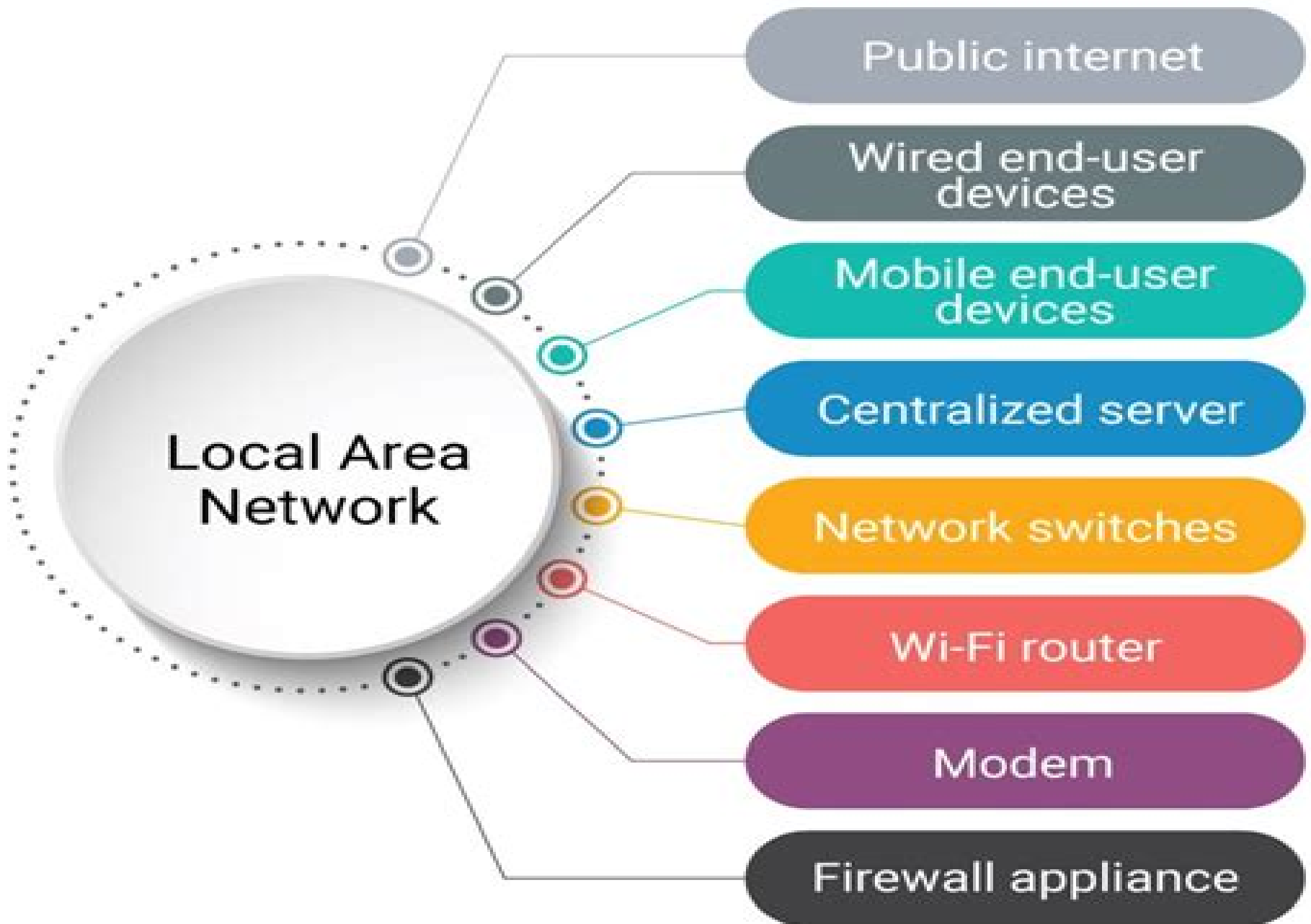


# KEY COMPONENTS OF LAN ARCHITECTURE



# Local Network Technology

**Jianjun Gao**



## **Local Network Technology:**

**Local Area Networks** John E. McNamara, John Romkey, 1996 Local Area Networks An Introduction to the Technology Second Edition is intended for those who want to become more familiar with local area networks LANs without facing the challenge of a 400 page text The goals of the book are to give prospective LAN users or purchasers familiarity with the concepts involved and to provide a head start for reading more detailed texts Since LAN product offerings are constantly changing a deliberate attempt has been made to emphasize the general principles operating characteristics and problem areas of LANs rather than cite specific product examples

**Local Area Networks** John McNamara, 2014-06-28 This concise book provides an objective introduction to local area networks how they work what they do and how you can benefit from them It outlines the pros and cons of the most common configurations so you can evaluate them in light of your own needs You ll also learn about network software with special emphasis on the ISO layered model of communications protocols

**Understanding Local Area Networks** Neil Jenkins, Stanley Schatt, 1995 The local area network LAN has become a technology that everyone uses but few understand If you re faced with using or managing a network make sure you ve got Understanding Local Area Networks Fifth Edition This Sams favorite completely revised for its fifth edition provides a complete understanding of the theory behind the many network forms to data transmission methods Learn operating principles hardware configurations software options and management issues This book also helps you gain an understanding of how to connect LANs to each other and to larger computers Get expert advice on how to choose and support a LAN and discover why client server computing changes the way you use LANs And if you re a network administrator this book dispenses the knowledge you need to decide if a LAN is right for your office Quick quizzes and a complete glossary keep you on track as you come up to network speed

*Designing and Implementing Local Area Networks* Dimitris N. Chorafas, 1984

**High-Performance Backbone Network Technology** Naoaki Yamanaka, 2020-04-01 Compiling the most influential papers from the IEICE Transactions in Communications High Performance Backbone Network Technology examines critical breakthroughs in the design and provision of effective public service networks in areas including traffic control telephone service real time video transfer voice and image transmission for a content delivery network CDN and Internet access The contributors explore system structures experimental prototypes and field trials that herald the development of new IP networks that offer quality of service QoS as well as enhanced security reliability and function Offers many hints and guidelines for future research in IP and photonic backbone network technologies

*Tutorial Local Network Technology* William Stallings, 1985

*Advanced Network Technology* , 1993 This background paper analyzes technologies for tomorrow s information superhighways Advanced networks will first be used to support scientists in their work but will soon be deployed more widely in business entertainment health care and education Significant progress has been made toward the development of gigabit network technology since the basic characteristics of the design of broadband networks began to

emerge in the mid 1980s No insurmountable technological barriers to the gigabit National Research and Education Network NREN appear to exist as work in the testbeds i e initial testing programs is demonstrating Testbed networks model the configuration in which the technology is expected to be deployed in that test sites are separated by realistic distances and realistic technological applications will be used Testbed applications research helps researchers understand how the NREN can be used to achieve science goals and as a testbed in itself demonstrating technology that can be deployed more widely The following topics are reviewed 1 the Internet 2 broadband network technology 3 gigabit research and 4 application of testbed research One table and 17 figures illustrate the discussion Highlighted points are summarized in 10 boxes SLD

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the dividing line between traditional computing science and telecommunications quickly becomes blurred or disappears in today s rapidly changing environment there is an increasing need for computer professionals to possess knowledge of telecommunications principles Telecommunications and Networking presents a comprehensive overview of the interaction and relationship between telecommunications and data processing The book s early chapters cover basic telecommunications vocabulary common nomenclature telecommunications fundamentals as well as the important relationships among coding

error detection and correction and noise Later chapters discuss such topics as switching timing topological structures routing algorithms and teleprocessing Other topics covered in detail include specific concerns inherent to computer communications such as protocols error detection and correction network monitoring and security and system validation System designers and programmers can no longer be effective simply by understanding the tradeoffs between hardware and software Telecommunications and Networking provides both computing professionals and students the fundamental computer communications concepts necessary to function in today s computer industry      **Network World** ,1987-05-04 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce      **Network World** ,1987-04-06 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce

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