
**Information technology —
Telecommunications and information
exchange between systems — Local and
metropolitan area networks — Specific
requirements —**

Part 12:

**Demand-Priority access method, physical layer
and repeater specifications**

*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — Réseaux locaux et métropolitains —
Exigences spécifiques —*

*Partie 12: Méthode d'accès par priorité de la demande, et spécifications
pour la couche physique et le répéteur*

Abstract: The media access control characteristics for the demand-priority access method are specified. The layer management, physical layers, and media that support this access method are also specified. Layer and sublayer interface specifications are aligned to the ISO Open Systems Interconnection Basic Reference Model and ISO/IEC 8802 models. Specifications for 100 Mb/s operation over 100 Ω balanced cable (twisted-pair) Categories 3 through 5, 150 Ω shielded balanced cable, and fibre-optic media are included. Optional implementation of redundant links to facilitate automatic recovery of network connectivity in case of link or repeater failure anywhere in the network path is specified. Rules for connecting redundant links within a network are defined.

Keywords: balanced cable, data processing, demand-priority access method, fault tolerance, fibre optic, information interchange, local area network, media access control, models, mode of data transmission, network interconnection, redundant link, repeater, star-topology local area network, twisted pair, network interconnection

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