

ECMA-89, Local Area Networks – Token Ring Technique

SCOPE

For the purpose of compatible interconnection of data Processing equipment via a local area network using the token-passing ring access method, this Standard ECMA-89

-defines the frame format, including delimiters, addressing, and frame check sequence, and introduces timers, frame counts, and priority stacks (see Section 3);

-defines the medium access control protocol; the prose description of the algorithms is supplemented with finite-state machines and state tables (see Section 4);

-describes the services provided by the medium access control sublayer to the Network Management, Logical Link Control sublayer and to the Physical Layer; these services are defined in terms of service primitives and associated parameters (see Section 5);

-defines the physical control functions of symbol encoding and decoding, symbol timing and latency buffering (See Section 6);

-defines the shielded twisted pair attachment of the DTE to the medium including the definition of the medium interface connector (see Section 7 and Appendix A).

A particular emphasis of this Standard is to specify the homogeneous externally visible characteristics needed for interconnection compatibility, while avoiding unnecessary constraints upon and changes to internal design and implementation of the heterogeneous processing equipment to be interconnected.