

JS-8880-a Protocol Profile Providing OSI Network Services on Local Area Networks

1. Relations with international standards

This Standard specifies protocol profiles (functional standard) that provide ISO 8348 connection oriented and ISO 8348 AD1 connectionless network services at LAN stations that satisfy the ISO standard specification ISO 8802, or ISO 9314 Media Access Control (MAC), and ISO 8802-2 Logical Link Control (LLC) protocol. Protocol profiles are specified for such protocols as network layer protocols (connection oriented network protocol, JS-8208, connectionless network protocol, ISO 8473 and ES to IS routing exchange protocol, ISO 9542) and logical link control (LLC) sublayer protocol. Specified protocol profiles conform to the following ISO standards,

- (a) ISO 8880-1,2 and ISO 8881 with respect to the combination of protocols to provide connection oriented services.
- (b) ISO 8880-1,3 with respect to the combination of protocols to provide connectionless services.

In addition, this Standard specifies more details with respect to the selection of facilities and values of system parameters.

2. Summary of departures from international standards

The major additional items specified in these Standards are described in the following.

(1) Connection Oriented Protocols

Use of LLC type 2 subset for LLC protocols

Selected use of optional user facilities such as non-standard default packet size, window size and flow control parameter negotiation

Selected use of optional DTE facilities such as calling and called address extensions

Selected use of timer, retry counters, and flow control parameters and specification of their default values

Selected applicability of parameters in LLC service primitives (nonapplicability of priority)

(2) Connectionless Protocols

Use of service quality parameters in network service primitives

Use of fullset network protocol (i.e. no use of non-segmenting subset or inactive subset)

Selected use of optional functions (segmenting permission flag, and checksum)

Selected applicability of parameters in LLC service primitives (nonapplicability of priority)