

JS-8880-b Protocol Profile for interconnecting a connectionless mode LAN over leased lines

<Reference>

1. Relations with international standards

(1) Relations between this standard and international standards

The protocol stack specified in this standard is included in the protocol stack of ISO 8880 part 3.

ISO 8880 consists of three parts as follows. ISO 8880 part 1 specifies general principles. ISO 8880 parts 2 and 3 specify the protocol stack of layers 1 to 3 providing connection mode and connectionless mode network services.

ISO 8880 parts 2 and 3 apply to point-to-point subnetworks, including leased lines, LAN, PSDN, CSDN etc.

This standard also specifies protocol stacks on leased lines connecting LANs that provide connectionless mode network service in accordance with protocol stack specification for point-to-point subnetworks in ISO 8880 part 3.

In addition this standard also specifies the convergence rule between data link service provided by ISO 7776 (HDLC procedure) over leased lines and underlying service proposed by ISO 8473 for internetworking Unit (IWU) connecting leased lines and LAN. This standard also includes several specifications required for interconnection, such as for data link address.

Fig. 1 shows the relationship in scope between this standard and ISO 8880.

(2) Relationship between this standard and the existing TTC standard

The connectionless mode LAN in this standard prerequisites the connection less mode network service specified in TTC standard JS-8880-a.

(3) Characteristic features of this standards

High quality network service is provided to network layer users as a result of the application of ISO 7776 as a data link protocol over leased lines. ISO 7776 is capable of bit error detection and correction.

Protocol stack in this standard provides a high throughput data transfer feature between LANs over leased lines. This is done by means of minimization in the procedure of transmission error detection and correction and protocol processing.

2. Additional items specified

(1) Option item or Implementation matter item

- Option item
Congestion control method in IWU
- Implementation matter item Maximum user data length

(2) Items specified in addition to the above-mentioned standard

- Method to set data link address
- Convergence rule between data link service provided by ISO 7776 (HDLC procedure) over leased lines and underlying service specified by ISO 8473 for IWU connecting leased lines and LAN.

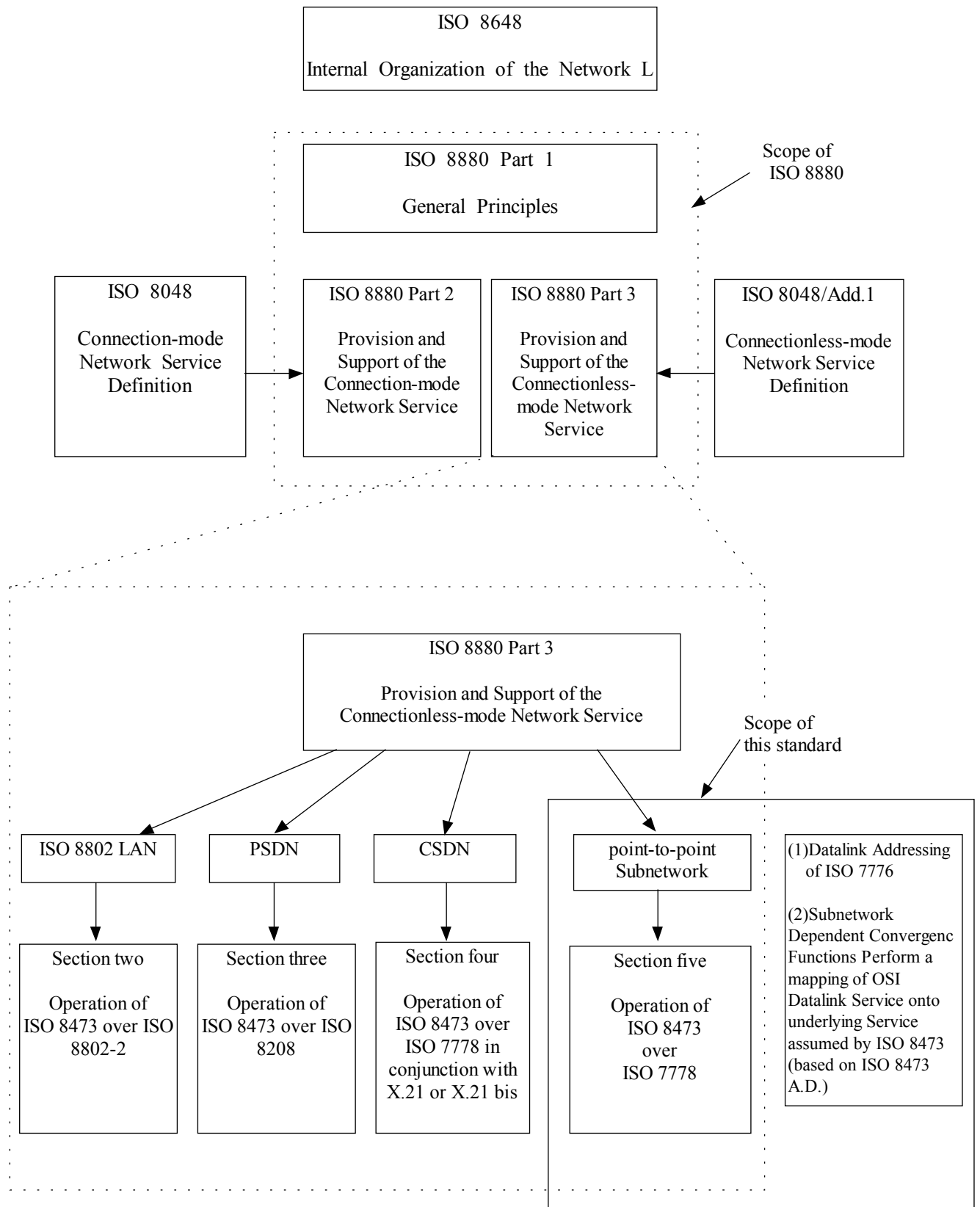


Fig.1 Scope of the Standard (JS-8880-b) and Relations of ISO 8880