Glossary

AFI Authority and format ID. In OSI NSAP address, specifies the format of the address and the authority that assigned that address. The AFI is 1 byte.

CLNP Connectionless Network Protocol. CLNP is the OSI equivalent of IP.

CLNS Connectionless Network Service. One of two types of OSI network layer services that are available to the OSI transport layer.

CMNS Connection-Mode Network Service. One of two types of OSI network layer services that are available to the OSI transport layer.

CONP Connection-Oriented Network Protocol.

CSNP Complete sequence number PDU. In IS-IS, used to distribute a router's complete link-state database. CSNPs are a list of the LSPs held by a router.

DDR Dial-on-demand routing.

DIS Designated intermediate system for IS-IS. The DIS is elected (by configurable priority and then by highest MAC address) to generate an LSP representing a virtual router connecting all attached routers to a star-shape topology.

DSP Domain-specific part of OSI NSAP address. The HODSP, system ID, and NSEL together make up the DSP of the NSAP address.

DTR Delay, throughput, and reliability bits in the IP ToS field.

ES End system.

ES-IS End System-to-Intermediate System.

ESH End system hello. Used in IS-IS. ESs send ESHs.

hello PDU   In IS-IS, one of ESH, ISH, or IS-IS hello. Used to establish and maintain adjacencies.

HODSP   High-order domain-specific part of OSI NSAP address. Used for subdividing the domain into areas. This can be considered loosely as the OSI equivalent of a subnet in IP.

IDI   Interdomain identifier. In OSI NSAP address, identifies this domain. The IDI can be up to 10 bytes.

IDP   Interdomain part of OSI NSAP address. The IDP is made up of the AFI and IDI together. This can loosely be equated to an IP classful major network.

IDRP   Interdomain Routing Protocol. A standard OSI routing protocol for pure CLNS environments. IDRP is not supported by the Cisco IOS.

IIH   IS-IS hello. Used between two ISs.

Integrated IS-IS   Routing protocol based on the OSI routing protocol IS-IS, but with support for IP and other protocols.

IS   Intermediate system.

IS-IS   Intermediate System-to-Intermediate System.

ISH   Intermediate system hello. Used in IS-IS. ESs discover the nearest IS by listening to ISHs.

ISO   International Organization for Standardization.

ISO-IGRP   A Cisco proprietary protocol used in a pure OSI (CLNS) environment.

ITU-T   International Telecommunication Union Telecommunication Standardization Sector.

Level 1 IS   In IS-IS, the equivalent of an OSPF internal nonbackbone router. These routers are responsible for routing to ESs inside an area.

Level 1–2 IS   In IS-IS, the equivalent of an Area Border Routers in OSPF. These routers route between areas and the backbone. They participate in the Level 1 intra-area routing and the Level 2 interarea routing.

Level 2 IS   In IS-IS, the equivalent of a backbone router in OSPF. These routers route only between areas.

NET   Network-entity titles.

NSAP   Network service access point.

NSEL   NSAP-selector part of OSI NSAP address.

OSI   Open System Interconnection.

PLP   Packet-Layer Protocol. For X.25.

PRC   Partial route calculation. Used in IS-IS to calculate ES reachability.

pseudonode   For IS-IS, a virtual router required by Dijkstra's algorithm for broadcast media to build a directed graph.

PSNP   Partial sequence number PDU. In IS-IS, used to acknowledge and request link-state information. PSNPs usually contain only one LSP descriptor block.

PVC   Permanent virtual circuit.

QoS   Quality of service.

SNP   Sequence number PDUs in IS-IS. SNPs ensure that LSPs are sent reliably. SNPs contain LSP descriptors—not the actual, detailed LSP information, but headers describing the LSPs.

SNPA   Subnetwork point of attachment for IS-IS. An SNPA is the point at which subnetwork services are provided. This is the equivalent of the Layer 2 address corresponding to the Layer 3 (NET or NSAP) address.

SPF   Shortest Path First algorithm. Used in IS-IS and OSPF.

TLV   Type Length Value. Variable-length field in an IS-IS LSP.

ToS   Type of service.

VC   Virtual circuit.