A semantic model for complex computer networks: the network description language

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List of Abbreviations

ANSI  American National Standards Institute

ANSI/ETSI PDH  Plesiochronous Digital Hierarchy (There are two interoperable versions of PDH, ratified by ANSI and ETSI)

ASN.1  Abstract Syntax Notation One

ATM  Asynchronous Transfer Mode

BGP  Border Gateway Protocol

CIM  Common Information Model

CPU  Central Processing Unit

DAS-3  Distributed ASCI Supercomputer 3

DMTF  Distributed Management Task Force[38]

DRAGON  Dynamic Resource Allocation over GMPLS Optical Networks

ETSI  European Telecommunications Standard Institute

e-VLBI  Very Long Baseline Interferometry

GLIF  Global Lambda Integrated Facility[20]
GMPLS  Generalized Multi-Protocol Label Switching
GOLE  GLIF Open Lightpath Exchange
GPS  Global Positioning System
IEEE  Institute of Electrical and Electronics Engineers[104]
IETF  Internet Engineering Task Force[105]
IP  Internet Protocol
ITU-T  Telecommunication Standardization Sector (coordinates standards on behalf of the ITU)
ITU  International Telecommunication Union
LHC  Large Hadron Collider
LSA  Link State Announcement (Messages that are exchanged in OSPF)
MST  Minimum Spanning Tree
MTU  Maximum Transmission Unit (The largest data unit size that a data protocol (e.g. IP) can carry)
NDL  Network Description Language
NEC  network enabled capabilities
NM-WG  Network Measurements Working Group
NREN  national research and education network
OGF  Open Grid Forum[106]
OSPF  Open Shortest Path First
OSPF-TE  Open Shortest Path First - Traffic Engineering (An extension of OSPF)
PNNI  Private Network-to-Network Interface
pynt  Python NDL Toolkit
RDF  Resource Description Framework
RFC  Request For Comments (an IETF memorandum on Internet systems and standards)

RST  Random Spanning Tree

SDH  Synchronous Digital Hierarchy

SNMP  Simple Network Management Protocol

SONET  Synchronous Optical Networking

SPARQL  SPARQL Protocol and Query Language for RDF

SQL  Structured Query Language

STP  Spanning Tree protocol

STS  Synchronous Transport Signal (Part of the SONET standard)

TCP  Transmission Control Protocol

TDM  Time-Division Multiplexing

TITAAN  the Theatre Independent Tactical Army & Airforce Network

TL1  Transaction Language 1

UML  User-Mode Linux

UML  Unified Modeling Language

URI  Uniform Resource Identifier

URL  Uniform Resource Locator

UTF-8  Unicode Transformation Format 8-bit

VLAN  Virtual Local Area Network

VNE  Virtual Network Experiments

WDM  Wavelength-Division Multiplexing (A technology which multiplexes several wavelengths over the same optical fiber)

XML  Extensible Markup Language