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

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Appendix C

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)
PNMNI  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

**TITAAAN** 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