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)

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