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]
**APPENDIX C. LIST OF ABBREVIATIONS**

**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 Hiarchy

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