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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