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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 Hiearachy

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