



Software Product Description

PRODUCT NAME: CompaqSNA Peer Server, Version 1.6
51.08.08

SPD

DESCRIPTION

The *Compaq SNA Peer Server* is a member of Compaq Computer Corporation's family of SNA transport products. This family consists of hardware and software products that connect suitably configured Compaq networked systems and IBM systems in a Systems Network Architecture (SNA) environment.

The *Compaq SNA Peer Server* is a layered software product that offers peer connectivity between IBM systems and applications and Compaq systems and applications through its support for SNA Node Type 2.1 (LEN Node) protocols. The Peer Server is supported on Alpha workstations or servers running the *Tru64 UNIX* operating system. Refer to the *Tru64 UNIX* Software Product Description (SPD 70.70.xx) for supported processors.

The *Compaq SNA Peer Server* connects to the IBM SNA environment via SDLC, LLC2, or QLLC data link protocols supporting wide area network (WAN) and local area network (LAN) access. Non-SNA network access is via TCP/IP and/or DECnet-Plus (DECnet/OSI); consult the latest *Tru64 UNIX* and DECnet-Plus SPDs for comprehensive media/device support lists.

The *Compaq SNA Peer Server* allows OpenVMS, ULTRIX, Tru64 UNIX, MS-DOS, Microsoft Windows, IBM OS/2, and Macintosh based applications to communicate with applications running on systems in both Sub-area and APPN (Advanced Peer-to-Peer Networking) SNA networks. A built-in TN3270E Server capability provides remote TN3270 clients with interactive Telnet access to the host system and printing support without requiring the installation of TCP/IP on the mainframe.

SNA WAN Access

WAN access is provided via SDLC leased or switched lines or X.25 packet switched links.

SDLC is supported on Compaq EISA-based systems (AlphaServer 2100) Server family through one or more Compaq EISA Synchronous Communications Controllers (DNSES).

SDLC is supported on Compaq ISA-based systems (AlphaServer 200 systems) through one or more Compaq ISA/Synchronous Communications Controllers (PBXDI**).

SDLC is supported on Compaq PCI-based systems through one or more DIGITAL PCI/Synchronous Communications Controllers (PBXDP**¹ or PBXDD**).

X.25 access is supported via local synchronous or X.25 gateway LAN access (X.25 Relay) using the *Compaq Wide Area Networking for Tru64 UNIX* product. (See the OPTIONAL SOFTWARE section of this SPD.)

SNA LAN Access

LLC2 LAN support is provided for Token Ring, CSMA-CD, and FDDI access. Token Ring is supported through one or more PCI Token Ring adapters (PBXNP**) on Compaq PCI-based systems, Compaq TRNcontroller 700 TURBOchannel Token Ring Interface devices on TURBOchannel based Alpha systems, by the DW300/DT424 Token Ring Communications Controller on EISA-based Alpha systems. All Alpha systems support Ethernet/CSMA-CD interfaces (check the Compaq Systems and Options Catalog for Ethernet interface type(s) supported on specific processors).

¹ Retired in December 2000

This product supports Compaq's ISO 9341 (FDDI) devices for use with the LLC2 protocol. Refer to the *Tru64 UNIX* operating system SPD 70.70.xx for the various FDDI devices supported.

Note: SNA network connections via CSMA-CD support standard Ethernet 802.3 only (not Ethernet V2).

Features

Features of the *Compaq SNA Peer Server* include:

- SNA wide area (WAN) connectivity to the SNA environment via SDLC links or packet switched (X.25) networks.
- SNA LAN connectivity to the SNA environment via Token Ring, Ethernet, or FDDI.
- Node Type 2.1 (APPN LEN node) support.
- Local and remote client connectivity between TCP/IP and DECnet-Plus environments to IBM mainframe, AS/400, PS/2 systems.
- Supports up to 10,000 concurrent LU sessions. The maximum concurrent session count is limited by the specific software license purchased (LMF PAK).
- Layered software product on Alpha systems running the *Tru64 UNIX* operating system.
- Compatible with most Compaq supplied client software. Refer to the SOFTWARE REQUIREMENTS section for availability and required versions of optional software.
- On-demand non-SNA network client application startup. (Supports SNA session startup when initiated from the adjacent SNA node.)
- Supports the synchronous communication speeds (SDLC) listed in the following table:

Device	Maximum Sync Speed	Bus
SCC	19.2 Kb/s	TURBOchannel
DSYT1	E1T1	TURBOchannel
DNSES	E1T1	EISA
PBXDI	E1T1	ISA
PBXDP ²	E1T1	PCI
PBXDD	E1T1	PCI

²Retired in December 2000

- Managed from the DIGITAL management director (DIGITAL CMIP).
- TN3270E Server capability includes support for RFC 1647, which provides the ability to print files to locally attached printers.
- SDLC multiple secondary station support.

- Supports Primary Dependent LU sessions in cooperation with *Compaq SNA 3270 Application Services*.

Components

The *Compaq SNA Peer Server* consists of the Peer Server software, a Configuration Utility, Peer Server management software, and device drivers. The Peer Server software installs on a *Tru64 UNIX* system. Various parameters are configured upon startup using information generated from the Configuration Utility.

The Peer Server can be managed and monitored either locally or remotely using NCL or CMIP and the Common Trace Facility (CTF).

Configuration Utility

After the Peer Server installation is complete, it is configured using the supplied Configuration Utility. The Peer Server Configuration Utility creates a startup script that the Peer Server in turn reads when it starts. The script file contains the commands necessary to create the various Peer Server management entities (such as DLC links and stations, logical units, and access names).

The Configuration Utility allows Peer Server managers to save answers and to modify discrete parts of the configuration.

Server Management

The Peer Server is managed with a DIGITAL CMIP director (such as the DIGITAL Network Control Language (NCL) utility). The management software components can be installed either on the same system as the Peer Server or optionally installed and run on a separate UNIX system.

The Common Trace Facility (CTF) can be used to trace data exchanges at the TG level, LU/Session level, or DLC link level. Data can be analyzed live or saved to a file for later analysis.

Client Software

When used with appropriate client software, users can access applications and data, transfer files, exchange information, and transfer print jobs between the two environments.

Refer to the OPTIONAL SOFTWARE section for availability and required versions of optional software.

INSTALLATION

A specialized Installation and Orientation Service for the Peer Server is available through Compaq and is highly recommended for customers' initial and subsequent installations of this product.

Prior to the purchase of support services for this product, the installation must be verified by Compaq.

Customer Responsibilities

Before installation of the software, the customer must do the following:

- Install all hardware, including terminals.
- Obtain, install, and show as operational any equipment and facilities necessary to interface to Compaq's communications equipment.
- For SDLC (synchronous connection to SNA environment), demonstrate the equivalence of operation for modems other than Bell System 201C, 208A, or 209A; IBM 5866 Model 1; AT&T 2596 or 2556; or Data Phone II (AT&T 2096A, DIGITAL 2500/2600, or equivalent) type modems or, in Europe, PTT approved modems.
- Install and configure any necessary IBM host software that communicates with the Peer Server.
- Complete Orientation and Installation Service requirements.
- Make available for a reasonable period of time, as mutually agreed by Compaq and the customer, all hardware, communications facilities, and terminals that are to be used during installation.
- Be prepared to work with both Compaq and IBM systems personnel to coordinate the preinstallation activities.
- Be prepared to modify IBM component generation parameters to support the Peer Server.

Delays caused by any failure to meet these responsibilities will be charged at Compaq's then-prevailing rate for time and materials.

Communications Devices Supported

DIGITAL WANcontroller 720 - DSYT1-BA: On Compaq TURBOchannel Alpha systems (DEC 3000 family), SDLC support is provided with either one or more TURBOchannel synchronous communications devices (DIGITAL WANcontroller 720) or, optionally, the built-in synchronous communications port (SCC) on the Alpha system.

DIGITAL TRNcontroller 700 - DETRA-AA: On Compaq TURBOchannel Alpha systems (DEC 3000 family), Token Ring support is provided with either one or more TURBOchannel Token Ring adapters (DIGITAL TRNcontroller 700).

DIGITAL EISA Synchronous Communications Controller - DNSES-AA: On Compaq EISA-based Alpha systems (DEC 2000 and AlphaServer 2100 family), SDLC support is provided with one or more EISA synchronous communication devices (DNSES).

ISA/Synchronous Communications Controller - PBXDI: On supported Compaq ISA-based Alpha systems (AlphaServer 200 family), SDLC support is provided with one or more ISA/Synchronous Controllers.

EISA Token Ring Communications Controller - DW300/DT424: On supported Compaq EISA-based Alpha systems (AlphaServer 2100 family), Token Ring support is provided with one or more EISA Token Ring adapters.

PCI Token Ring Communications Controller - PBXNP: On supported Compaq PCI-based Alpha systems, Token Ring support is provided with one or more PCI Token Ring adapters.

Device	Maximum Line Speed
Built-in sync (SCC)	1 line @19.2 Kb/s (V.24 only)
DIGITAL WANcontroller (DSYT1-BA)	1 line up to T1/E1 (2.048 Mb/s); 2 lines each up to 64 Kb/s
DIGITAL EISA Sync Controller (DNSES-AA)	1 line up to T1/E1 (2.048 Mb/s); 2 lines each up to 64 Kb/s
Compaq ISA/Sync Controller (PBXDI-**))	Each line up to 5 Mb/s

Disk Space Required for Installation and Use

Root file system:	'/'	4.5 MB
Other file systems:	'/usr'	12 MB
	'/var'	8 MB

These sizes are approximate; actual sizes may vary depending on the user's system environment, configuration, and software options.

HARDWARE REQUIREMENTS

The Peer Server can be installed on Alpha workstations or servers running the *Tru64 UNIX* operating system.

Processors Supported

For information about supported processors, refer to the Software Product Description for the *Tru64 UNIX* operating system (SPD 70.70.xx).

SOFTWARE REQUIREMENTS

- *Tru64 UNIX* operating system, Version 5.1 or 5.1A.

OPTIONAL SOFTWARE

For DECnet connectivity:

- *DECnet-Plus for Tru64 UNIX*, Version 5.0B (SPD 41.92.xx)
- *Wide Area Networking Version 3.3 for Tru64 UNIX* (SPD 42.47.xx)

The following table is a cross-reference to optional Compaq SNA access routines that are available for use with the Peer Server. Please consult the respective Software Product Descriptions for additional information.

Terminal Emulators	SPD
Compaq SNA 3270 Terminal Emulator for OpenVMS	26.84.xx
Compaq DECwindows DECnet SNA 3270 Terminal Emulator for OpenVMS	31.58.xx
Compaq SNA 3270 Application Services	38.70.xx

Remote Job Entry	SPD
Compaq SNA Remote Job Entry for OpenVMS	26.85.xx

Printer Services	SPD
Compaq SNA Printer Emulator for OpenVMS	26.70.xx

File Transfer and Database Access	SPD
Compaq SNA Data Transfer Facility for DIGITAL UNIX	60.54.xx
Compaq SNA Data Transfer Facility for OpenVMS	27.85.xx

Programming Interfaces	SPD
Compaq SNA APPC/LU6.2 Programming Interface for DIGITAL UNIX	56.11.xx
Compaq SNA 3270 Data Stream Programming Interface for OpenVMS	26.87.xx
Compaq SNA APPC/LU6.2 Programming Interface for OpenVMS	26.88.xx
Compaq SNA Application Programming Interface for OpenVMS	26.86.xx
Compaq SNA LUA Programming Interface for DIGITAL UNIX	70.69.xx

IBM Supported Configurations

The *Compaq SNA Peer Server* has been tested and warranted with the following IBM software configurations.

Software Product	Version	Release
IBM MVS Environment		
ACF/NCP	7	6.0
OS/390	2	8.0
IBM VM Environment		
VM/ESA	2	3.0
ACF/VTAM	4	2.0

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the requirements for the current version.

DISTRIBUTION MEDIA

This product is distributed only on the Compaq CD-ROM Software Library for *Tru64 UNIX* (QA-054AA-H8).

Description	Order Number
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ORDERING INFORMATION

Description	Order Number
Software Licenses:	
32-session license	QL-2D7AM-3C
128-session license	QL-2D7AM-3D
256-session license	QL-2D7AM-3E
1,024-session license	QL-2D7AM-3F
3,000-session license	QL-2D7AM-3G
5,000-session license	QL-2D7AM-3H
10,000-session license	QL-2D7AM-3J
Software Media	QA-054AA-H8
Software Documentation	QA-2D7A*-GZ
Software Product Services	QT-2D7*-**

* Denotes variant fields. For additional information on available licenses, services, and media, refer to the appropriate price book.

SOFTWARE LICENSING

This software is only furnished under a license. For more information about Compaq's licensing terms and policies, contact your local Compaq office.

License Management Facility Support

This layered product supports the Tru64 UNIX License Management Facility.

License units for this product are allocated on a Concurrent Use basis.

SOFTWARE PRODUCT SERVICES

The following Installation and Orientation Services are available:

Service	Order Number
On-site Installation and Orientation Service	QT-2D7A9-I9
Remote Installation (includes telephone-only installation support)	QR-SM2D7-BN
SNA Additional Technical Services	QR-SMSNA-BA

A variety of service options are available from Compaq. For more information, contact your local Compaq office.

SOFTWARE WARRANTY

This software is provided by Compaq with a 90 day conformance warranty in accordance with the Compaq warranty terms applicable to the license purchase.

The above information is valid at time of release. Please contact your local Compaq office for the most up-to-date information.

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