



Software Product Description

PRODUCT NAME: Compaq SNA LUA Programming Interface
for Tru64 UNIX, Version 1.0

SPD 70.69.01

This SPD describes the *Compaq SNA LUA Programming Interface for Tru64 UNIX* product.

DESCRIPTION

Compaq SNA LUA Programming Interface for Tru64 UNIX (LUA) is a layered software product that allows user-written applications running on suitably configured Tru64 UNIX systems, either within a TCP/IP or DECnet network environment, to exchange messages with cooperating applications on an IBM host. Access between the cooperating Compaq and IBM applications is via one of the following products:

TCP/IP or DECnet Connections

- *Compaq SNA Peer Server*
- *Compaq SNA Domain Gateway*
- *Compaq SNA Server for OpenVMS Alpha*

DECnet Only Connections

- *Compaq DECnet Gateway for Channel Transport*
- *Compaq DECnet SNA Gateway for Synchronous Transport*
- *Compaq SNA Server for OpenVMS VAX*

The LUA product provides secondary Logical Unit (LU) support for LU types 0, 1, 2 and 3, using FM profiles 2, 3, 4, 7, and 18 and TS profiles 2, 3, 4, and 7. The product provides the following programming interfaces:

- Request-Unit Interface (RUI), which is a basic interface
- Session-Level Interface (SLI), which is a higher-level interface

The LUA product is an implementation of the LUA interface described in the IBM document *IBM Communications Server for OS/2® Warp—32-Bit Conventional LUA Programming Reference*. Differences are noted in the product documentation. You can develop a variety of LUA application programs using the interface. Because the interface sends and receives low-level SNA protocol messages on behalf of the LUA application program, you need to understand SNA message formats and protocols.

Features

The interface provides services for the transmission and reception of data, SNA commands, and SNA responses. In general, it does not offer any services that interpret the messages exchanged.

The LUA interface provides two separate interfaces: the Request-Unit Interface (RUI) and the Session-Level Interface (SLI). Each interface uses a single procedure call. To support the many functions supported by each interface, the LUA application program supplies a specially encoded verb control block. The verb control block contains the operation code and the parameters that accompany the operation request.

Verbs in each of the interfaces allow you to do the following:

- Allocate a local LU.
- Establish an LU-LU session with the remote host application.
- Receive notification of pending application data, SNA commands, and SNA responses.
- Receive application data, SNA commands, and SNA responses

- Send application data, SNA commands, and SNA responses.
- Terminate the LU-LU session.
- Deallocate a local LU.

Both the RUI and SLI interfaces support blocking and nonblocking operation and thread reentrant usage.

User Interface

Users of the LUA product should be experienced Tru64 UNIX application programmers who are familiar with the C programming language to write an LUA application to communicate with programs on the IBM system. The user documentation provides example programs written in the C language.

The LUA interfaces can be called from a program written in any language supported on Tru64 UNIX. Header files are supplied only for the C and C++ programming languages. Users of other programming languages must build their own header files from the supplied C language header file.

INSTALLATION

Installation services from Compaq are recommended for a customer's first purchase of this software product. These services provide for installation of the software product by an experienced software specialist.

HARDWARE REQUIREMENTS

Processors Supported

Refer to the Tru64 UNIX Operating System Software Product Description (SPD 41.61.xx for V4.x, SPD 70.70.xx for V5.x) for valid configurations and supported processors.

Disk Space Requirements

Two MB of disk space is required in the */usr* partition.

This count refers to the disk space required on the system disk. The size is approximate; actual size may vary depending on the user's system environment, configuration, and software options.

SOFTWARE REQUIREMENTS

The *Compaq SNA LUA Programming Interface for Tru64 UNIX* requires the following software configurations:

- Tru64 UNIX Operating System Version 4.0D or higher (SPD 41.61.xx for V4.x, SPD 70.70.xx for V5.x)
- One of the following SNA gateways:
 - *Compaq SNA Peer Server* (SPD 51.08.xx)
 - *Compaq SNA Domain Gateway* (SPD 38.69.xx)
 - *Compaq DECnet Gateway for Channel Transport* (SPD 29.76.xx)
 - *Compaq DECnet SNA Gateway for Synchronous Transport* (SPD 25.C6.xx)
 - *Compaq SNA Server for OpenVMS VAX* (SPD 27.01.xx)
 - *Compaq SNA Server for OpenVMS Alpha* (SPD 70.89.xx)

Optional Software

- *Compaq DECnet-Plus for Tru64 UNIX* (SPD 41.92.xx)

SOFTWARE LICENSING

This software is furnished only 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 CPU-capacity basis.

For more information on the License Management Facility, refer to the Tru64 UNIX Operating System Software Product Description (SPD 45.61.xx for V4.x, SPD 70.70.xx for V5.x) or the License Management Facility manual of the Tru64 UNIX Operating System documentation set.

For more information about Compaq's licensing terms and policies, contact your local Compaq office.

GROWTH CONSIDERATIONS

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

DISTRIBUTION MEDIA

This product is available as part of the Tru64 UNIX Software Product Library on CD-ROM.

The software documentation for this product is available as part of the Tru64 UNIX Online Documentation Library on CD-ROM. Documentation in hardcopy format can be ordered separately.

SOFTWARE WARRANTY

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

WARRANTY LIMITATIONS

IBM Supported Configurations

This product is warranted with the IBM software configurations listed in the following table.

Table 1
IBM Software Configurations

Software Product	Version	Release
ACF/VTAM	4	3.0, 4.0
MVS/ESA SP	4	2.0, 3.0
OS/390	2	7.0, 8.0, 9.0, 10.0
OS/400	3	6.0, 7.0
	4	4.1, 4.2
VM/ESA	2	3.0, 4.0
z/OS	1	1.0

Refer to SNA server or gateway Software Product Descriptions for additional information on supported IBM operating systems, access methods, and communications front-end software.

Note: Compaq will support IBM software configurations, version and release numbers, as long as support for such configurations is generally available from IBM. Other configurations may have been tested since this SPD was published. Please contact your local Compaq office for up-to-date information regarding listed configurations.

ORDERING INFORMATION

Compaq SNA LUA Programming Interface for Tru64 UNIX

Software Licenses:

QL-6A2A*-AA (traditional)

QL-6A2AM-*B (concurrent user)

Software Documentation: QA-6A2A*-GZ

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

Media and documentation for this product are available on the Tru64 UNIX Software Product Library on CD-ROM and the Tru64 UNIX Online Documentation Library on CD-ROM. Documentation in hardcopy format can be ordered separately.

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

SOFTWARE PRODUCT SERVICES

Installation

Installation provides comprehensive installation and of Compaq and non-Compaq hardware, software, and networks products. These products include systems, servers, upgrades, workstations, terminals, PCs, peripherals, network equipment, operating systems, and layered products. Optional pieces of the Installation offer include site planning and preparation, orientation, and other projects which are based on the installation of computer equipment (e.g. relocation services).

License Subscription

License Subscription provides the license rights to use all new versions of those products, which are released during the contract period. Also included are the rights to use certain server-resident products whose license is included in a corresponding client license.

Telephone Software Support

Software Support provides software problem identification and resolution and operational support for system managers, technical support/helpdesk personnel who manage Compaq and popular multivendor server software in either a standalone or networked environment. This service provides access both to technical resources to assist in problem diagnosis and resolution and to Compaq's information database. This combination of support resources will address system management questions and inquiries on a wide variety of topics including information on the latest product features, known problems and available solutions, and operational advice and assistance to help the system manager, system administrator better manage its information technology environment.

Please contact your local Compaq office for additional information on specific services in your area.

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