

Software Product Description

PRODUCT NAME: DEC SNA High Level Language API Tool Kit,
Version 1.0

SPD 62.70.00

DESCRIPTION

DEC SNA High Level Language API is one of a family of products including:

- DEC SNA 3270 Terminal/Print Services for OSF/1® (SPD 62.71.xx)
- DEC SNA Remote Job Entry for OSF/1 (SPD 62.72.xx)
- DEC SNA APPC/LU6.2 Tool Kit for OSF/1 (SPD 62.67.xx)

DEC SNA High Level Language API for OSF/1 provides a 3270 Data Stream Programming Interface (LU2) between applications running on an OSF/1 system and applications running on IBM® mainframe(s), via either the DEC SNA Peer Server or other DEC SNA Gateway(s) using TCP/IP or DECnet. The High Level Language API for OSF/1 product is a library of routines which are linked into OSF/1 applications. Run-time support for High Level Language API programs is bundled with the DEC SNA 3270 Terminal/Print Services for OSF/1.

Features

DEC SNA High Level Language API provides compatibility with IBM's High Level Language API (High Level Language Application Program Interface). This product supports 38 of 44 standard High Level Language API functions, plus 11 new functions providing extended capabilities. These functions comprise a powerful library with all the capabilities to support complex applications, structured as concurrent processes, simultaneously interacting with multiple host sessions. The functions provide the following major classes of services to the High Level Language API User Program (HUP):

- Session Selection and Operator Terminal Coordination
- Presentation Space Data Access
- Host Session Status and Control
- Keystroke Intercept
- File Transfer
- Local Session Operations

- Direct Session Data Access

The user's C language program is linked against the High Level Language API interface library. The user program is the main program in this High Level Language API User Program (HUP). This user process communicates with 3270 Session Manager (SM) process which contains the basic 3270 emulation modules. The SM maintains the host sessions and presentation spaces, and controls the operator terminal when it is connected to the 3270 display emulation.

Representative applications include:

- Automatic Data Entry
- File Distribution/Collection
- User-Friendly Interface/Assistant Operator
- Host/Local Distributed Applications

Specifications

Standard High Level Language API Functions

- Connect to Presentation Space
- Convert Position or Row/Column
- Copy Field to String
- Copy OIA
- Copy Presentation Space
- Copy Presentation Space to String
- Copy String to Field
- Copy String to Presentation Space
- Disconnect from Presentation Space
- Find Field Position
- Get Key
- Invoke OS Program
- OS Redirect
- Pause
- Post Intercept Status
- Query Cursor Location
- Query Field Attributes
- Query Host Update
- Query Session Status
- Query Sessions
- Query System
- Receive File
- Release
- Reset System

Reserve
 Search Field
 Search Presentation Space
 Send File
 Send Key
 Set Session Parameters
 Set Host Notification
 Start Keystroke Intercept
 Stop Host Notification
 Stop Keystroke Intercept
 Storage Manager
 Wait
 Workstation Control
 Write Session Data

HARDWARE REQUIREMENTS

Alpha AXP: DEC 2000 Model 300 AXP
 DEC 2000 Model 500 AXP
 Digital 2100 Server A500MP¹
 DEC 3000 Model 300X/LX AXP,
 DEC 3000 Model 400 AXP,
 DEC 3000 Model 400S AXP,
 DEC 3000 Model 500 AXP,
 DEC 3000 Model 500S AXP,
 DEC 3000 Model 500X AXP,
 DEC 3000 Model 600 AXP,
 DEC 3000 Model 600S AXP,
 DEC 3000 Model 800 AXP,
 DEC 3000 Model 800S AXP
 DEC 4000 Model 600 AXP Series,
 DEC 4000 Model 700 AXP Series

Extended High Level Language API Functions

Deactivate Session
 Post Program Name
 Post Program Status
 Prepare to Send Data
 Query Extended Sessions Status
 Read Session Data
 Send Acknowledgement
 Set Device Status
 Set Session Mode
 Write Session Data

DEC 7000 Model 600 AXP Series
 DEC 10000 Model 600 AXP Series

¹ Requires OSF/1 V2.0B (uniprocessor support).

Max Sessions per Session Manager: 62 simultaneous sessions (single character short name).

INSTALLATION

A specialized Installation and Orientation Service for this product is available through Digital and is highly recommended for a customer's initial and subsequent installation of this product.

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

Disk Space Requirements

For OSF/1 Systems:

Disk space required for installation:

Root file system:	0 KB
Other file systems:	usr 9,410 KB
	var 0 KB

Disk space required for use (permanent):

Root file system:	0 KB
Other file systems:	usr 9,410 KB
	var 0 KB

These counts refer to the disk space required on the system disk. The sizes are approximate; actual sizes may vary depending on the user's system environment, configuration, and software options.

SOFTWARE REQUIREMENTS

The DEC SNA High Level Language API for OSF/1 requires one of the following products:

- DEC SNA Peer Server, V1.0 or later (TCP/IP and DECnet)
- DEC SNA Gateway Domain Gateway, V1.0 or later (DECnet)
- DEC SNA Gateway for Channel Transport V2.1 or later (DECnet)
- DEC SNA Gateway for Synchronous Transport V1.2 or later (DECnet)

DEC OSF/1 Operating System, V1.3 or higher

ORDERING INFORMATION

OSF/1-Based Systems:

Software Licenses: QL-30FA*-**

Software Documentation: QA-30FAA-GZ

Software Product Services: QT-30FA*-**

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

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

Software Media: QA-054-AA-H8

Note: This product is distributed only on the Digital CD-ROM Software Library for DEC OSF/1 (QA-054-AA-H8)

SOFTWARE LICENSING

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

License Management Facility Support:

This layered product supports the OSF/1 License Management Facility.

License units for this product are allocated on an Unlimited System Use basis.

For more information on the License Management Facility, refer to the OSF/1 Operating System Software Product Description (SPD 26.40.xx) or the *Guide to Software Licensing* in the OSF/1 Operating System documentation set.

SOFTWARE PRODUCT SERVICES

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

SOFTWARE WARRANTY

Warranty for this software product is provided by Digital with the purchase of a license for the product as defined in the Software Warranty Addendum of this SPD.

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