

Software Product Description

PRODUCT NAME: DEC SNA APPC/LU6.2 Tool Kit for OSF/1,
Version 1.0

SPD 62.67.00

DESCRIPTION

DEC SNA APPC/LU6.2 Tool Kit for OSF/1® 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 High Level Language API for OSF/1 (SPD 62.70.xx)

DEC SNA APPC/LU6.2 Tool Kit for OSF/1 provides an Application Programming Interface that supports communications between an application on an OSF/1 system and a cooperating application on an IBM® mainframe (via either the DEC SNA Peer Server product or other DEC SNA Gateway(s) using IBM's LU6.2 verbs. The DEC SNA APPC/LU6.2 for OSF/1 product is a library of routines which are linked into OSF/1 applications. When used with DEC SNA Peer Server or another DEC SNA Gateway, this software resides on an OSF/1 system and communicates with the Gateway using TCP/IP or DECnet protocols.

The Advanced Program to Program Communication (APPC) product is a library of routines which are linked into programs which act as Logical Unit 6.2 (LU6.2) transaction application programs. These allow an OSF/1 transaction application to:

- Allocate and deallocate LU6.2 basic and mapped conversations
- Send and receive data
- Request confirmation and confirm transactions
- Send error information
- Supply program initialization parameters
- Allow outbound conversation allocation

This product consists of two components:

- DEC SNA APPC/LU6.2 Tool Kit, which is required for development systems.
- DEC SNA APPC/LU6.2 Runtime, which is required for all systems on which the user-developed application will run.

Features

- Provides support for systems to share realtime data and applications.
- Allows automatic communication between interactive applications and remote systems using LU6.2.
- Easy operation, which includes a menu-driven operator interface, with logging and tracing abilities.
- Parallel Sessions — Allows multiple LU6.2 sessions to use the same pair of logical units (when communicating via the DEC SNA Peer Server or the DEC SNA Gateway Domain Gateway).

Specifications

Basic Conversation Verbs

- Allocate
- Confirm
- Confirmed
- Deallocate
- Flush
- Request_to_send
- Send_data
- Send_error
- Test

Mapped Conversation Verbs

- MC_Allocate
- MC_Confirm
- MC_Confirmed
- MC_Deallocate

- MC_Flush
- MC_Get_attributes
- MC_Post_on_receipt
- MC_Prepare_to_receive
- MC_Receive_and_wait
- MC_Receive_immediate
- MC_Request_to_send
- MC_Send_data
- MC_Send_error
- MC_Test

Type-independent Conversation Verbs

- Get_type
- Wait

Special Verbs

- Attach
- Detail
- Accept

The following verbs are not supported:

- Backout
- Syncpt
- MC_Prepare_for_syncpt
- set_syncpt_options
- set_tp_properties

SNA Equivalence

- Configurable PU-type support (as provided by the DEC SNA Peer Server product)
 - PU2.0 Boundary Function connection
 - PU2.1 Peer-to-Peer connection
- Function Management (FM), Transmission Services (TS) profile support
 - TS profile 1, 7
 - FM profile 0, 6, 19
- FM Headers FMH5, FMH7, FMH12

Conversation Verb Option Sets

- 101 (MC_)FLUSH verb
- 102 MC_GET_ATTRIBUTES verb
- 103 (MC_)POST_ON_RECEIPT,TEST verbs
- 104 (MC_)POST_ON_RECEIPT,WAIT verbs
- 105 (MC_)PREPARE_TO_RECEIVE verb
- 106 (MC_)RECEIVE_IMMEDIATE verb
- 110 GET-TYPE verb
- 203 Immediate allocation of a session

- 204 Intra-LU conversation
- 211 Session-level LU-LU verification
- 212 User ID verification
- 213 Program-supplied user ID and password
- 214 User ID authorization
- 215 Profile verification and authorization
- 217 Profile passthrough
- 218 Program-supplied profile
- 241 Send PIP data
- 242 Receive PIP data
- 243 Accounting and LUW CC
- 244 Long locks
- 245 Test for request-to-send on TEST verb
- 246 Data mapping
- 247 FMH data
- 290 Logging of data in a system log
- 291 Mapped conversation component
- 501 CHANGE_SESSION LIMIT verb, local
- 502 ACTIVATE_SESSION verb
- 504 DEACTIVATE_SESSION verb
- 505 LU definition verbs
- 601 MIN_CONWINNERS_TARGET parameter
- 602 RESPONSIBLE(TARGET) parameter
- 603 DRAIN_TARGET(NO) parameter
- 604 FORCE parameter
- 605 LU-LU session limit
- 606 Locally known LU names
- 607 Uninterpreted LU names
- 608 Single-session reinitialization
- 610 Maximum RU size bounds
- 612 Conwinner automatic activation limit

User Interface

Users of DEC SNA APPC/LU6.2 for OSF/1 should be experienced C language application programmers.

DEC SNA APPC/LU6.2 consists of two components:

- DEC SNA APPC/LU6.2 Tool Kit for OSF/1 which is required for development systems
- DEC SNA APPC/LU6.2 Runtime for OSF/1 which is required for all systems on which the user-developed application will run

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.

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

 DEC 7000 Model 600 AXP Series

 DEC 10000 Model 600 AXP Series

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

Disk Space Requirements

For OSF/1 Systems:

Disk space required for installation:

	Run-Time	Tool Kit
Root file system:	0 KB	0 KB
usr	6,060 KB	8,620 KB
var	0 KB	0 KB

Disk space required for use (permanent):

	Run-Time	Tool Kit
Root file system:	0 KB	0 KB
usr	6,060 KB	8,620 KB
var	0 KB	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 APPC/LU6.2 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

The DEC SNA APPC/LU6.2 for OSF/1 Tool Kit:

Software Licenses: QL-30DA*-**

Software Documentation: QA-30DAA-GZ

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

The DEC SNA APPC/LU6.2 for OSF/1 Runtime:

Software Licenses: QL-30CA*-**

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

* 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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