

Software Product Description

PRODUCT NAME: DEC SNA 3270 Terminal/Print Services
for OSF/1, Version 1.0

SPD 62.71.00

DESCRIPTION

DEC SNA 3270 Terminal/Print Services for OSF/1® is one of a family of products including:

- 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 (SPD 62.70.xx)

DEC SNA 3270 Terminal/Print Services for OSF/1 is a software product that allows Digital users, on a suitably configured OSF/1 system, to communicate with IBM® mainframe systems via the DEC SNA Peer Server or other DEC SNA Gateway(s). The 3270 communications software provides mainframe application access by emulating IBM 3278/3279 terminals (LU Type 2) and IBM 3287 printers (LU Type 1, LU Type 3). DEC SNA 3270 Terminal/Print Services software can be used in a client/server environment, where the software can run on an OSF/1 system communicating with the DEC SNA Peer Server or with other DEC SNA Gateway using TCP/IP or DECnet. A file transfer utility is provided with the product that communicates with an IBM IND\$FILE application resident on the IBM mainframe.

Features

- Multiple Session Support — User can be in session with multiple host applications simultaneously.
- OSF/1 users can print IBM formatted EBCDIC files on their ASCII printers (3287 print emulation).
- Hot Key — Users can switch between OSF/1 systems and IBM mainframe applications without logging off and on the current session.
- 3270 PC File Transfer — The industry standard 3270 PC File Transfer (IND\$FILE) to VM/CMS, MVS/TSO and MVS/CICS hosts is supported.
- 3270-2b support for color (four field colors, seven character colors) and extended highlighting (via ANSI window on workstations).

- National Language Support — Input files are supplied for 19 languages supported by IBM.

Specifications

Terminals

The following is a list of Digital terminals that are supported in VT100 mode by the DEC SNA 3270 Terminal/Print Services software.

VT100XX supports a limited set of function keys. Please consult with Digital for information concerning using additional terminal types.

- VT100 with Advanced Video Option (AVO)
- VT102
- VT220, VT240, VT340, VT341
- VT4xx

The following is a list of Digital terminals that are supported in VT300 mode by the DEC SNA 3270 Terminal/Print Services software.

- VT320, VT330, VT340, VT341
- Terminal emulation status information will be displayed on the host writeable status line.
- VT4xx

3270 Data Stream Orders

- Start Field
- Set Buffer Address
- Insert Cursor
- Program Tab
- Repeat to Address
- Erase Unprotected to Address

3270 Write Structured Fields

- Erase/Reset
- 3270 Data Stream
- Read Partition

- Set Reply Mode
- SCS Data
- Query Reply

3270 Keyboard Support

A-Z, a-z, 0-9,space, !@#\$%*()_-\ | ; : , . ? [] ~ Cent sign, solid vertical bar, "Not"sign, Field mark, Dup, Cursor up, down, left, right, fast right, fast left, backspace, tab, backtab, new line, home, Erase EOF, Erase input, delete, insert-mode, Reset, PF1-24, PA1-3, Enter, Alternate enter, Clear, SYS REQ, ATTN, CURSR SEL, Print, IDENT, DEV CANCEL, numeric override, toggle, keyclick, toggle blinking cursor, toggle all caps, alternate cursor, Escape-to-shell, local redraw, exit emulation, move status line, toggle status line, erase trailing blanks, Session Selection menu, next session, previous session, move to top left, top right, bottom left, bottom right.

3270 Formatted Display Features

- Protected and unprotected fields
- Dim, bright, or non display
- Numeric or alpha numeric
- Cursor-selectable
- Auto-skip

3270 Status Line Indicators (indicators are displayed as printable characters or as symbols)

- System connection status
- Keyboard status (locked or unlocked)
- Insert mode designator
- Diagnostic error codes
- Alternate session update

National Languages

English (U.K.)
English (U.S.)
Austrian/German
Austrian/German (alternate)
Belgian
Brazilian/Portuguese
Canadian (French)
Danish/Norwegian
Danish/Norwegian (alternate)
Finnish/Swedish
Finnish/Swedish (alternate)
French
International
Italian
Japanese (English)
Portuguese
Spanish

Spanish (alternate)
Spanish Speaking

Print Emulator

Print Emulator can accept data in SNA Character String (SCS) format (LU Type 1) and 3270 Data Stream format (LU Type 3).

Print Emulator recognizes the following 3270 Data Stream orders:

CR - Carriage Return
DUP - Duplicate (converted to a semicolon)
EM - End Message
EUA - Erase Unprotected to Address
FF - Formfeed
FM - Field Mark (converted to an asterisk)
GE - Graphics Escape (converted to a hyphen)
NL - Newline
PT - Program Tab
RA - Repeat to Address
SBA - Set Buffer Address
SF - Start Fields

Printer Emulator supports the following 3270 Data Stream Commands:

WRITE
ERASE/WRITE
ERASE/WRITE ALTERNATE
ERASE ALL UNPROTECTED
READ BUFFER
READ MODIFIED
READ MODIFIED ALL

Print Emulator will recognize the following SNA Character String orders:

BP - Backspace
CR - Carriage Return
FF - Formatted
GE - Graphics Escape (converted to a hyphen)
HT - Horizontal Tab
IRS - Inter Record Separator
LF - Linefeed
NL - Newline
SHF - Set Horizontal Format
SVT - Set Vertical Format
TRN - Transparency
VCS - Vertical Channel Select
VT - Vertical Tab

Print Emulator accepts but ignores the following SNA Character String orders:

BEL - Bell
ENP - Enable Presentation
INP - Inhibit Presentation
SLD - Set Line Density

Print Emulator does not support the 3287 printer Program Attention (PA1 and PA2) keys and the CANCEL PRINT key using commands entered at the user interface.

Print Emulator does not support the printer Authorization Matrix feature, and it does not emulate the 3287's REPRINT key function.

IBM Host Requirements for File Transfer

File transfer allows users to send and receive files between a personal computer session and a host Virtual Machine/Conversational Monitor System (VM/CMS), or Multiple Virtual System/Timesharing Option (MVS/TSO), or Multiple Virtual System/Customer Information Control System (MVS/CICS). To use file transfer, the IBM Host-supported file transfer program must be installed at the host site:

VM/CMS
MVS/TSO
MVS/CICS

File transfer to/from an IBM mainframe (IND\$FILE) requires a PC support feature and properly configured host tables.

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 A500MP ¹

 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:

Root file system:	0 KB
Other file systems:	usr 7,330 KB var 0 KB

Disk space required for use (permanent):

Root file system:	0 KB
Other file systems:	usr 7,330 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 3270 Terminal/Print Services 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-30GA*-**
Software Documentation: QA-30GAA-GZ
Software Product Services: QT-30GA*-**

* 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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® OSF/1 is a registered trademark of Open Software Foundation, Inc.

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