

# digital

# Software Product Description

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**PRODUCT NAME: DECnet-10, Version 2, DECsystem-10 Network Software**

**SPD 8.60.1**

## **DESCRIPTION:**

DECnet-10 extends the capabilities of the DECsystem-10 by enabling the DECsystem-10 to be interconnected with other DECnet systems. DECnet-10 can be used as a component of distributed networks, resource sharing networks, and communications networks.

The DECnet-10 implementation of Digital Network Architecture (DNA) allows tasks written in a variety of languages (FORTRAN, COBOL, MACRO, etc.) to exchange data with other tasks executing in the DECnet environment, on the same and other processors in the network. DECnet-10 provides this capability only on simple topologies, (point-to-point or star configurations) when connected to DECnet-11M Version 1.1 or Version 1.2.

In order to support the above functionality, DECnet-10 conforms to the protocols which collectively define the Digital Network Architecture (DNA). The features of DNA which are implemented in DECnet-10 include:

- Support of the Digital Data Communications Message Protocol (DDCMP) for full duplex transmission in point-to-point mode only, using synchronous facilities. DDCMP provides error detection/correction and link management facilities.
- Support of the Network Services Protocol (NSP) for point-to-point network connections. NSP allows tasks on DECnet systems to establish logical communications channels between themselves on a dynamic basis, and to transfer variable-sized messages, up to a maximum of 528 bytes, using these logical channels. NSP multiplexes data through physical links on a message basis, thus allowing many logical channels to share a single physical link.

DECnet-10 is implemented by a combination of network services routines within the DECsystem-10 monitor, and communications and network management routines located within communication front end and remote processors. Synchronous communication links for DECnet are terminated by the DN87 or DN87S front end or a DN80 series remote processor which support a total termination rate of 40.8KB. This allows a single line at 40.8KB, or two at 19.2KB, or combination of lines totalling 40.8KB or less.

## **MINIMUM HARDWARE REQUIRED:**

Any valid TOPS-10, Version 6.03 configuration with:

- DN87 or DN87S universal front end

## **OPTIONAL HARDWARE:**

*Communication devices:*

Up to 8 DN87 front ends

Up to 3 DN87S front ends

DN80, DN81, DN82 remote stations.

## **PREREQUISITE SOFTWARE:**

TOPS-10 DECsystem-10 Operating System, Version 6.03

## **OPTIONAL SOFTWARE:**

None

## **TRAINING CREDITS:**

None

## **SUPPORT CATEGORY:**

B — Software Support will be provided as stated in the Software Support Categories Description located on the last page of this SPD.

## **UPDATE POLICY:**

Software Updates, if any, released by DIGITAL during the one (1) year period following installation, will be provided to the customer without additional charge (includes no installation). After the first year, updates, if any, will be made available according to then prevailing DIGITAL policies.

## **ORDERING INFORMATION:**

This software is furnished under a license for use on a single computer system and can be copied and modified (with inclusion of DIGITAL's copyright notice) only for use on such system, except as may otherwise be provided in writing by DIGITAL.

The following key (F, M, P) represents the distribution media for the product and must be specified at the end of the "Q" number, e.g., QH681-XF = sources on 7-track magnetic tape.

F = 7-track Magnetic Tape

M = 9-track Magnetic Tape (1600 bpi)

P = 9-track Magnetic Tape (800 bpi)

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*Standard Options*

- QH681 -X— Single-use license, source license, sources, documentation, support services (media: F, M, P)
- QH681 -U— Armed Services Procurement Regulation license, sources, documentation, support services (media: F, M, P)

**ADDITIONAL SERVICES:**

None

**SOFTWARE SUPPORT CATEGORIES**

Each software product (hereinafter 'SOFTWARE') with a designated Support Category A or B in the applicable Software Product Description (SPD) existing at the time of order will be the current release at the time of delivery and will conform to the SPD. DIGITAL's sole obligation shall be to correct defects (nonconformance of the SOFTWARE to the SPD) as described below. Any SOFTWARE with a designated Support Category C will be furnished on an 'as is' basis.

For SOFTWARE with a designated Support Category A or B, DIGITAL will provide the services set forth below without additional charge.

**CATEGORY A**

1. Upon notification by customer to the nearest DIGITAL office that the computer system, including all required prerequisite hardware and software, is ready for the installation of the SOFTWARE, DIGITAL will install such SOFTWARE in any location within the contiguous forty-eight (48) United States, the District of Columbia, or a country in which DIGITAL or a subsidiary of DIGITAL has a software service facility. The notification must be received by DIGITAL and the system must be ready for installation within thirty (30) days after the delivery of the SOFTWARE to customer or DIGITAL will have no obligation to install. Installation will consist of: (1) verification that all components of the SOFTWARE have been received by customer, (2) loading the SOFTWARE, and (3) executing a DIGITAL sample procedure.
2. During the ninety (90) day period after installation, if the customer encounters a problem with the current unaltered release of the SOFTWARE which DIGITAL determines to be a defect in the SOFTWARE, DIGITAL will provide the following remedial service (on site where necessary): (1) if the SOFTWARE is inoperable, apply a temporary correction (TC) or make a reasonable attempt to develop an emergency by-pass, and (2) assist the customer to prepare a Software Performance Report (SPR) and submit it to DIGITAL.
3. During the one (1) year period following installation, if the customer encounters a problem with the SOFTWARE which his diagnosis indicates is caused by a SOFTWARE defect, the customer may submit an SPR to DIGITAL. DIGITAL will respond to problems reported in SPRs which are caused by defects in the current unaltered release of the SOFTWARE via the Maintenance Periodical for the SOFTWARE, which reports SPRs received, code corrections, temporary corrections, generally useful emergency by-passes and/or notice of the availability of corrected code. Software Updates, if any, released by DIGITAL during the one (1) year period, will be provided to the customer on DIGITAL's standard distribution media as specified in the applicable SPD. The customer will be charged only for the media on which such updates are provided, unless otherwise stated in the applicable SPD, at DIGITAL's then current media prices.

**CATEGORY B**

During the one (1) year period following delivery, the services provided to the customer will be the same as set forth in 3 above.

**CATEGORY C**

SOFTWARE is provided on an 'as is' basis. Any software services, if available, will be provided at the then current charges.

DIGITAL shall have the right to make additional charges for any additional effort required to provide services resulting from customer use of other than current unaltered release of the SOFTWARE operated in accordance with the SPD.