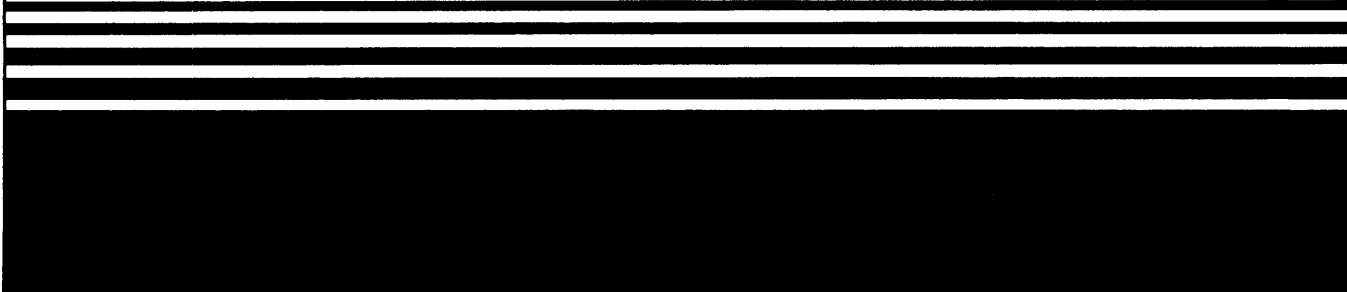
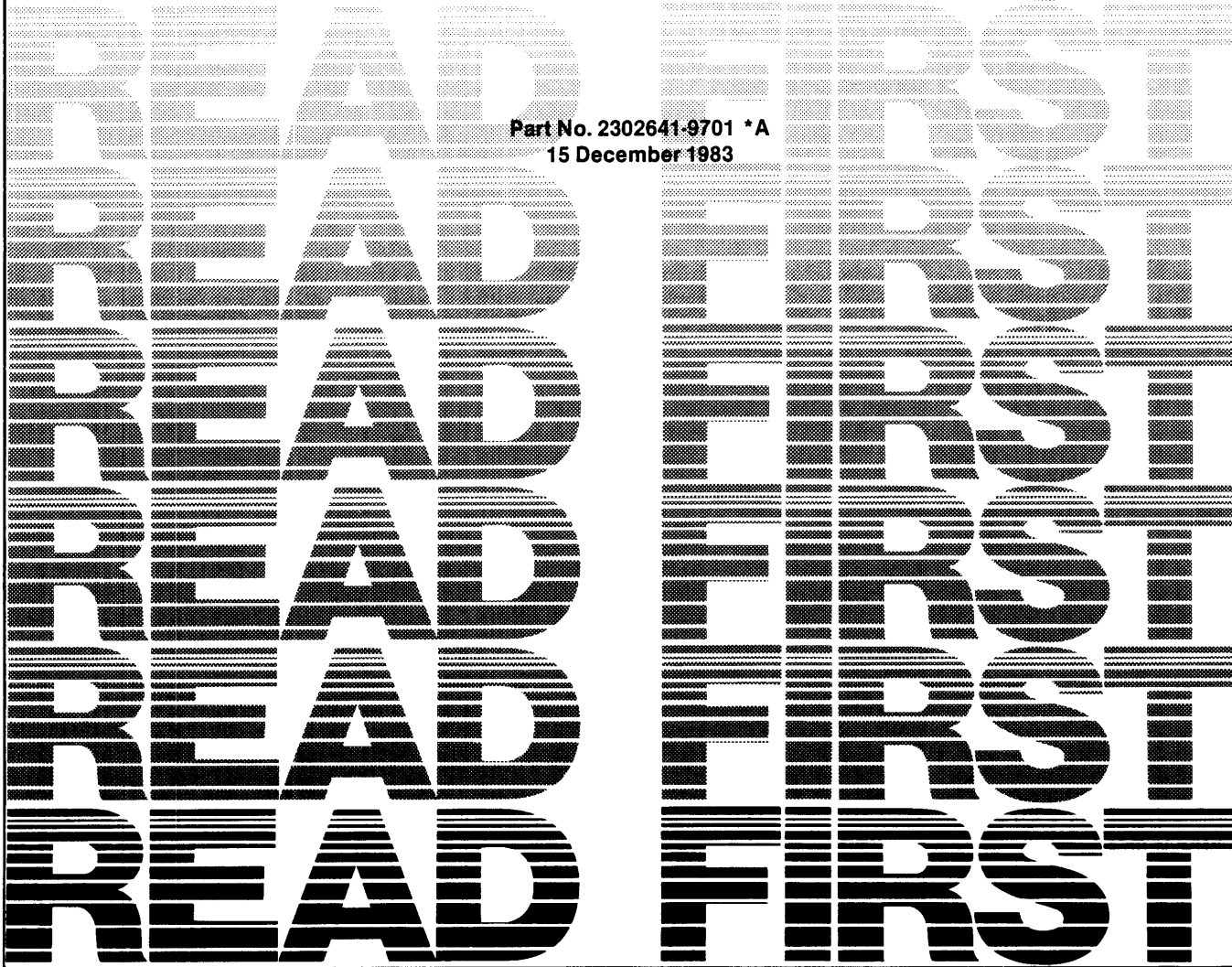


DNOS DNCS
X.25 Remote File Transfer (RFT)
Object Installation

Part No. 2302641-9701 *A
15 December 1983



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Contents

Title	Page
Section 1 -- Introduction	1-1
Section 2 -- Preparing for Installation	2-1
Section 3 -- Executing DNCS X.25 RFT	3-1

READ THIS DOCUMENT BEFORE ATTEMPTING TO USE THE OBJECT KIT.
THIS DOCUMENT DESCRIBES RELEASE 1.2.0 OF THE DNCS X.25 RFT
OBJECT INSTALLATION MEDIA, PART NUMBER 2308822-1601 (DISK OR
TAPE) OR 2308822-1602 (DISKETTE). REFER TO THE RELEASE
INFORMATION, PART NUMBER 2308859-9901, FOR ADDITIONAL
INFORMATION.

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Section 1
Introduction

1.1 GENERAL INFORMATION

This document describes the installation of the DNCS X.25 RFT object under DNOS.

Make a backup copy of the released object before executing the installation procedures. For copy procedures, refer to the DNOS Operations Guide, part number 2270502-9701.

Consult the DNOS DNCS X.25 RFT Release Information, release 1.2.0, part number 2308324-9901, for additional information concerning the current release.

This installation document presents many System Command Interpreter (SCI) commands in batch format. You can execute these commands either by entering the entire command as shown or by entering only the command keyword and responding to the interactive prompts from SCI. For a discussion of the batch command format, refer to the DNOS System Command Interpreter (SCI) Reference Manual, part number 2270503-9701.

1.2 MEDIA DEFINITION

Product shipments are made in the following formats:

- * Disk -- A DS10, DS80, DS300, or CD1400 disk containing the object
- * Diskette -- A double-sided, double-density (DSDD) diskette containing the object
- * Magnetic Tape -- A cartridge tape or an 800 or 1600 bits-per-inch (bpi) magnetic tape containing the object
- * Add-On -- A disk containing the object and one or more other products

1.3 INSTALLATION OVERVIEW

The installation process described in this document provides the steps required to prepare the DNCS X.25 RFT object for installation.

1.4 SYSTEM REQUIREMENTS

To perform these installation procedures successfully, you must have a DNOS operating system (Release 1.2.0 or later) running on a Business System 300, 600, or 800 computer with at least 512K bytes of memory.

Consult the DNOS DNCS X.25 RFT Release Information, release 1.2.0, part number 2308324-9901, for additional information concerning memory needed to satisfactorily execute your DNCS configuration.

Section 2

Preparing for Installation

2.1 GENERAL

The DNCS X.25 RFT object is shipped on various media and must be prepared prior to installation. The media must be restored to disk (if supplied on magnetic tape), copied to disk (if supplied on diskette), or used directly (if supplied on disk). This section describes how to prepare each type of media.

NOTE

The procedures outlined in this section require that the DNCS parts volume <dncsvolume> be installed as described in Section 2 of the DNOS DNCS Nucleus Object Installation.

2.2 DOUBLE-SIDED, DOUBLE-DENSITY (DSDD) DISKETTE FORMAT

When you receive the object on DSDD diskette, perform the following steps:

1. Enable the write protection for the DNCS X.25 RFT object diskette DCRFT0 by carefully removing the silver sticker from the diskette.
2. Load the DCRFT0 diskette in an available drive and make it ready.
3. Install the diskette volume by using the Install Volume (IV) command as follows:

IV U=<dsxx>, V=DCRFT0

where:

<dsxx> is the name of the drive where the diskette is loaded.

4. Copy the contents of diskette DCRFTO to the DNCS parts volume by using the Copy Directory (CD) command as follows:

```
CD I=DCRFTO, O=<dnsvolume>.DCRFTO, L=.LISTING
```

where:

<dnsvolume> is the name of the DNCS parts volume.

The file .LISTING contains a listing of the directory copied from diskette. Check this file for errors by using the Show File (SF) or Print File (PF) command.

5. Unload the diskette volume by using the Unload Volume (UV) command as follows:

```
UV V=DCRFTO
```

6. Remove diskette DCRFTO from the drive.
7. Assign the synonym DCRFTO to the DNCS X.25 RFT object directory by using the Assign Synonym (AS) command as follows:

```
AS S=DCRFTO, V=<dnsvolume>.DCRFTO
```

where:

<dnsvolume> is the name of the DNCS parts volume.

8. Proceed to paragraph 2.6 to continue the installation.

2.3 DISK FORMAT

When you receive the object on disk, perform the following steps:

1. Load the DNCS X.25 RFT object disk DCRFTO in an available drive and make it ready. Disable the disk write protection.
2. Install the disk volume by using the Install Volume (IV) command as follows:

```
IV U=<dsxx>, V=DCRFTO
```

where:

<dsxx> is the name of the drive where the disk is loaded.

3. Copy the contents of disk DCRFT0 to the DNCS parts volume by using the Copy Directory (CD) command as follows:

```
CD I=DCRFT0, O=<dncsvolume>.DCRFT0, L=.LISTING
```

where:

<dncsvolume> is the name of the DNCS parts volume.

The file .LISTING contains a listing of the directory copied from disk. Check this file for errors by using the Show File (SF) or Print File (PF) command.

4. Unload the disk volume by using the Unload Volume (UV) command as follows:

```
UV V=DCRFT0
```

5. Remove disk DCRFT0 from the drive.

6. Assign the synonym DCRFT0 to the DNCS X.25 RFT object directory by using the Assign Synonym (AS) command as follows:

```
AS S=DCRFT0, V=<dncsvolume>.DCRFT0
```

where:

<dncsvolume> is the name of the DNCS parts volume.

7. Proceed to paragraph 2.6 to continue the installation.

2.4 MAGNETIC TAPE FORMAT

When you receive the object on magnetic tape, copy it to a disk as follows:

1. Create the DNCS X.25 RFT object directory on the DNCS parts volume by using the Create Directory File (CFDIR) command as follows:

```
CFDIR P=<dncsvolume>.DCRFT0, M=50
```

where:

<dncsvolume> is the name of the DNCS parts volume.

2. Assign the synonym DCRFTO to the DNCS X.25 RFT object directory by using the Assign Synonym (AS) command as follows:

```
AS S=DCRFTO, V=<dncsvolume>.DCRFTO
```

where:

<dncsvolume> is the name of the DNCS parts volume.

3. Enable the magnetic tape write protection. Then mount the tape on an available tape drive and make it ready.
4. Copy the contents of the tape to the DNCS X.25 RFT object directory by using the Restore Directory (RD) command as follows:

```
RD S=<mtxx>, D=DCRFTO, L=.LISTING
```

where:

<mtxx> is the name of the drive where the tape is mounted.

The file .LISTING contains a listing of the directory restored from magnetic tape. Check this file for errors by using the Show File (SF) or Print File (PF) command.

5. Unload the tape.
6. Proceed to paragraph 2.6 to continue the installation.

2.5 ADD-ON FORMAT

When you receive the object as an add-on, perform the steps in either paragraph 2.5.1, 2.5.2, or 2.5.3 depending on whether the add-on is received on the DNOS system disk, on a secondary disk with the DNCS nucleus, or on a secondary disk without the DNCS nucleus.

2.5.1 DNOS System Disk Add-On

If you receive the DNCS X.25 RFT object add-on on the DNOS system disk and the system is running under that disk, perform the following steps:

1. Assign the synonym DCRFTO to the DNCS X.25 RFT object directory by using the Assign Synonym (AS) command as follows:

```
AS S=DCRFTO, V=.DCRFTO
```

2. Proceed to paragraph 2.6 to continue the installation.

2.5.2 Secondary Disk Add-On with DNCS Nucleus

If you receive the DNCS X.25 RFT object add-on on a secondary disk that includes the DNCS nucleus object, perform the following steps:

1. Assign the synonym DCRFTO to the DNCS X.25 RFT object directory by using the Assign Synonym (AS) command as follows:

```
AS S=DCRFTO, V=<dncsvolume>.DCRFTO
```

where:

<dncsvolume> is the name of the DNCS parts volume.

2. Proceed to paragraph 2.6 to continue the installation.

2.5.3 Secondary Disk Add-On Without DNCS Nucleus

If you receive the DNCS X.25 RFT object add-on on a secondary disk that does not include the DNCS nucleus object, perform the following steps:

1. Load the disk in an available drive and make it ready. Disable the disk write protection.
2. Install the disk volume by using the Install Volume (IV) command as follows:

```
IV U=<dsxx>, V=<addvolume>
```

where:

<dsxx> is the name of the drive where the disk is loaded.

<addvolume> is the volume name of the add-on disk.

3. Copy the DNCS X.25 RFT object to the DNCS parts volume by using the Copy Directory (CD) command as follows:

```
CD I=<addvolume>.DCRFT0, O=<dncsvolume>.DCRFT0,  
L=.LISTING
```

where:

<addvolume> is the volume name of the add-on disk.

<dncsvolume> is the name of the DNCS parts volume.

The file .LISTING contains a listing of the directory copied from disk. Check this file for errors by using the Show File (SF) or Print File (PF) command.

4. Unload the add-on disk volume by using the Unload Volume (UV) command as follows:

```
UV V=<addvolume>
```

where:

<addvolume> is the volume name of the add-on disk.

5. Remove the add-on disk from the drive.
6. Assign the synonym DCRFTO to the DNCS X.25 RFT object directory by using the Assign Synonym (AS) command as follows:

```
AS S=DCRFTO, V=<dncsvolume>.DCRFTO
```

where:

<dncsvolume> is the name of the DNCS parts volume.

7. Proceed to paragraph 2.6 to continue the installation.

2.6 INSTALLATION COMPLETION

Proceed to paragraph 2.6 of the DNOS DNCS Nucleus Object Installation to continue the DNCS X.25 RFT object installation.

After completing the installation, including starting the DNCS nucleus job, proceed to the next section for instructions on how to start and stop the DNCS X.25 RFT job.

Section 3

Executing DNCS X.25 RFT

3.1 GENERAL

The procedures in this section describe how to start and stop the DNCS X.25 RFT job. The contents of DCRFTEG, the program interface examples directory, is also described. For a complete description of all X.25 RFT commands and their functions, refer to the DNOS DNCS X.25 Remote File Transfer (RFT) User's Guide, part number 2302640-9701.

3.2 CHECKING DNCS NUCLEUS

Before attempting to start the DNCS X.25 RFT job, verify that the DNCS nucleus has been successfully started by using the Show DNCS Log File (DNCSLOG) command as follows:

```
[ ] DNCSLOG
```

The DNCSLOG command displays the newly initialized DNCS log file when DNCS has been started successfully.

3.3 EXECUTING THE DNCS X.25 RFT JOB

Perform the following steps to execute the DNCS X.25 RFT job:

1. Start the local RFT job by using the Execute RFT (XRFT) command as follows:

```
[ ] XRFT
```

```
EXECUTE RFT
```

```
RFT LOG NAME: .S$DNCS.RFTLOG
```

```
RFT LOG NAME
```

```
Enter a pathname that specifies the RFT log file.  
The default value is .RFTLOG.
```

2. The DNCS X.25 RFT job takes about one minute to start-up. You can check it for readiness by using the Show RFT Log File (RFTLOG) command as follows:

[] RFTLOG

The RFTLOG command displays the newly initialized RFT log file when DNCS X.25 RFT is operational.

3.4 TERMINATING THE DNCS X.25 RFT JOB

To terminate the DNCS X.25 RFT job, enter the Terminate RFT (TRFT) command as follows:

[] TRFT

TERMINATE RFT

ABORT ALL TRANSFERS (Y/N): NO

ABORT ALL TRANSFERS (Y/N)

Enter the default value NO to allow all file transfers to complete before system shutdown occurs. Enter Y only to abort all transfers.

3.5 RFT USER PROGRAM EXAMPLES

The DCRFTO object installation disk contains a directory DCRFTEG that provides a complete set of examples for using the DNCS X.25 RFT user program interface. By using this interface, user application programs written in Pascal, COBOL, or assembly language can initiate remote file transfers and send operator messages. (Refer to the DNOS DNCS X.25 Remote File Transfer (RFT) User's Guide, part number 2302640-9701.)

The contents of DCRFTEG are as follows:

DCRFTEG.SRC

This directory contains complete source code programs ready for compilation/assembly:

- TMSASY (Messages assembly language program)
- TMSCOB (Messages COBOL program)
- TMSpsc (Messages Pascal program)
- TCPASY (Copy File assembly language program)
- TCPCOB (Copy File COBOL program)
- TCPPSC (Copy File Pascal program)

DCRFTEG.LNK

This directory contains link control files for the programs in DCRFTEG.SRC to link in the required RFT run-time modules (from the DNCS generation subdirectory .S\$DGU\$.RFTOBJ or the disk DCRFTO):

- TMSASY (Messages assembly language program)
- TMSCOB (Messages COBOL program)
- TMSpsc (Messages Pascal program)
- TCPASY (Copy File assembly language program)
- TCPCOB (Copy File COBOL program)
- TCPPSC (Copy File Pascal program)

DCRFTEG.PROC

This directory contains a complete set of SCI procedures that you can use to execute the desired program:

- SMSGASY (Messages assembly language program)
- SMSGCOB (Messages COBOL program)
- SMSGpsc (Messages Pascal program)
- CPYFASY (Copy File assembly language program)
- CPYFCOB (Copy File COBOL program)
- CPYFPSC (Copy File Pascal program)

DCRFTEG.PGF

This program file contains the installed tasks:

- TMSASY (Messages assembly language task)
- TMSCOB (Messages COBOL task)
- TMSpsc (Messages Pascal task)
- TCPASY (Copy File assembly language task)
- TCPCOB (Copy File COBOL task)
- TCPPSC (Copy File Pascal task)

The DCRFTEG directory is for your DNCS X.25 RFT applications programmer. It is ready for use whenever the DNCS X.25 RFT job is active.