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PD, DNOS 1.1.1 UPDATE INSTALLATION GUIDE-990

TEXAS INSTRUMENTS	drawing number	2308923-9902
INCORPORATED		
DATA SYSTEMS GROUP		
	REV. **	SHEET 1 OF 8

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| READ THIS DOCUMENT BEFORE ATTEMPTING TO USE THIS OBJECT KIT. |  
| IT DESCRIBES THE DNOS 1.1.1 OPERATING SYSTEM ECN OBJECT MEDIA |  
| WITH PART NUMBER 2308923-1601. |  
| |  
| TEXAS INSTRUMENTS ASSUMES NO RESPONSIBILITY FOR MODIFICATIONS |  
| MADE TO THIS OBJECT KIT. |  
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## SECTION 1

## ITEMS INCLUDED IN THIS ECN

The DNOS 1.1.1 Engineering Change Notice (ECN) release supports the following changes which were made since the release of DNOS 1.1 in October, 1982:

1. support for the Online Diagnostics 1.1 release
2. a 940 DSR with a number of problems patched in the 1.1 release now source fixed
3. a new System Configuration Utility (SCU) task, with a different overlay structure to allow more working memory, to provide support for the 940 DSR, and to support the 9902 line printer interface
4. a new SYSGEN task to support the 9902 line printer interface
5. changes to the DNOS System Command Interpreter (SCI) Reference Manual for the following commands: BD, CD, VB, VC, RD, and MM.
6. a complete new set of command procedures in .SSCMDS, correcting a number of problems with SCU and the directory utilities
7. updated menus
8. updated patches for the KERNEL and UTILITY files

## SECTION 2

## HOW TO INSTALL THE ECN MEDIA

The DNOS 1.1.1 ECN is provided to you on one of three types of media: tape, diskette, or disk. The procedure for installing the ECN is described in detail according to the media you receive.

## 2.1 Installing from Tape Media

If you receive the ECN update on tape, you have a sequential file on the tape that was made by a Backup Directory (BD) of the ECN disk version. To install the ECN, perform the following steps.

1. Prepare a disk or diskette to receive the ECN directory from the tape. Install the disk or diskette in a disk drive using the IV command.
2. Mount the tape and make it ready for reading. Be sure the tape is write protected.
3. When the tape is ready, issue the Restore Directory (RD) command as follows:

```
RESTORE DIRECTORY
  SEQUENTIAL ACCESS NAME: <name of tape drive>
  DIRECTORY PATHNAME: <volume.DNOS111>
  CONTROL ACCESS NAME:
  LISTING ACCESS NAME: .TEMPRD
  OPTIONS: ADD
  EXECUTION MODE(F,B): FOREGROUND
```

4. Examine the listing file .TEMPRD and verify that no errors occurred during the RD operation. If there were errors, repeat the RD step.
5. Proceed to the next paragraph for disk media installation instructions.

## 2.2 Installing from Diskette or Disk Media

The ECN as delivered on diskette or disk is in a form that requires you to execute several batch streams. One batch stream updates the linkable parts, another updates the system utility program file, and a third updates the kernel program file. Each of these batch streams may be run as often as needed to update all of the system disks, or to update several program files on the same disk. (NOTE: If the disk being updated is the running system disk, not a data disk, then all activity must be terminated until the ECN is installed.)

In addition, there is a directory named .BATCH.BUILD on the ECN disk. It contains five batch streams (PROCO, PROC2, PROC4, PROC6, and MENU) used to build the .S\$CMDS directory. If you internationalize DNOS commands, you need to edit and update the commands in these batch streams. (NOTE: To prevent errors when installing this ECN on a running system, the SF, WAIT and XB commands have been commented out of PROCO. These commands have not been changed between the DNOS 1.1.0 and 1.1.1 releases.)

To install the ECN from a disk, perform the following steps.

1. Assign the following synonyms by using the MS command:

```

MODIFY SYNONYM
  SYNONYM: VOLDELTA
  VALUE: <volume name or directory of the ECN disk>
        (this is most likely DNOS111 or volume.DNOS111)

MODIFY SYNONYM
  SYNONYM: VOLBOOT
  VALUE: <volume name of system disk to be updated>

MODIFY SYNONYM
  SYNONYM: VOLLINK
  VALUE: <volume name of linkable parts disk>
        (this volume has the .S$OSLINK directory)

MODIFY SYNONYM
  SYNONYM: S$CMDS
  VALUE: <name of the SCI user commands directory>
        (this is most likely S$CMDS)

MODIFY SYNONYM
  SYNONYM: S$$CMDS
  VALUE: <name of the SCI system commands directory>
        (this is most likely .S$SYSTEM.S$$CMDS)

```

## MODIFY SYNONYM

SYNONYM: \$CSNAM

VALUE: <name of the system file to be updated>  
(same as the kernel program file)

## MODIFY SYNONYM

SYNONYM: S\$UTIL

VALUE: <name of the utility file to be updated>  
(this is most likely S\$UTIL)

## MODIFY SYNONYM

SYNONYM: S\$IPL

VALUE: <name of the loader file to be patched>  
(this is most likely S\$IPL)

2. Create a listings directory with at least 21 entries by using the CFDIR command:

## CREATE DIRECTORY FILE

PATHNAME: .ECNLIST

MAX ENTRIES: 21

DEFAULT PHYSICAL RECORD SIZE:

3. Use the IV command to install the following disk volumes if they are not already installed and not a directory.

## INSTALL VOLUME

UNIT NAME: DSxx

VOLUME NAME: VOLDELTA

## INSTALL VOLUME

UNIT NAME: DSyy

VOLUME NAME: VOLBOOT

4. Use the XB command to execute the batch stream that updates the utility program file and the commands directory. This step replaces the SCU task, updates .S\$CMDS, and applies the latest patches to the utility program file. If you have more than one utility program file to update, modify the synonym S\$UTIL and perform this step again. (NOTE: Since the SCI procedures are replaced by this step, use only the Show File (SF) command during the execution of this batch stream.)

## EXECUTE BATCH

INPUT ACCESS NAME: VOLDELTA.BATCH.ECN111.UTILITY

LISTING ACCESS NAME: .ECNLIST.UTILITY

5. Examine the batch listing file to verify that no errors occurred.
6. Use the XB command to execute the batch stream that updates the kernel program file. This replaces the 940 DSR, if you are using it, and updates the patches to the kernel program file. If you have more than one kernel program file to update modify the synonym \$CSNAM and perform this step again.

```
EXECUTE BATCH
      INPUT ACCESS NAME: VOLDELTA.BATCH.ECN111.KERNEL
      LISTING ACCESS NAME: .ECNLIST.<kernel name>
```

7. Examine the batch listing file and verify that no errors occurred.
8. Use the XB command to execute the batch stream that updates the linkable parts. This needs to be done to the disk on which the DNOS 1.1 release of the directory .S\$OSLINK resides. Install the linkable parts volume, if it is not already installed. Then execute the following batch stream.

```
EXECUTE BATCH
      INPUT ACCESS NAME: VOLDELTA.BATCH.ECN111.LNKPARTS
      LISTING ACCESS NAME: .ECNLIST.LNKPARTS
```

9. Examine the batch listing file and verify that no errors occurred.
10. Use the UV command to unload the following disk volumes if they are installed and not a directory. (NOTE: An error is returned if an attempt is made to unload the system disk of the running system.)

```
UNLOAD VOLUME
      VOLUME NAME: VOLDELTA
```

```
UNLOAD VOLUME
      VOLUME NAME: VOLBOOT
```

```
UNLOAD VOLUME
      VOLUME NAME: VOLLINK
```

11. Use the MS command to delete the following synonyms:

```
MODIFY SYNONYM
      SYNONYM: VOLDELTA
      VALUE: <use the skip key to clear>
```

```
MODIFY SYNONYM          SYNONYM: VOLBOOT
                        VALUE: <use the skip key to clear>
MODIFY SYNONYM          SYNONYM: VOLLINK
                        VALUE: <use the skip key to clear>
MODIFY SYNONYM          SYNONYM: S$CMDS
                        VALUE: <use the skip key to clear>
MODIFY SYNONYM          SYNONYM: S$$CMDS
                        VALUE: <use the skip key to clear>
MODIFY SYNONYM          SYNONYM: $CSNAM
                        VALUE: <use the skip key to clear>
MODIFY SYNONYM          SYNONYM: S$UTIL
                        VALUE: <use the skip key to clear>
MODIFY SYNONYM          SYNONYM: S$IPL
                        VALUE: <use the skip key to clear>
```

12. Delete the listings directory .ECNLIST from the system disk.

The DNOS 1.1.1 ECN is now installed. At this time the DNOS 1.5.0 product patches should be applied in order to insure the proper operation of the DNOS add on software packages. Once these patches are applied, the updated system disk is ready for operation. If the running system disk has been updated, this system must be rebooted (HALT, RESET and LOAD) to take advantage of all the newly installed parts.