

**NOS 2.8.3 LEVEL 840  
SOFTWARE  
RELEASE BULLETIN**

**SMD134700**

## Contents

|                                                             |     |
|-------------------------------------------------------------|-----|
| Chapter 1 - SRB Introduction                                |     |
| Audience .....                                              | 1-1 |
| Central Software Support Hotline .....                      | 1-2 |
| SOLVER Access Phone Numbers .....                           | 1-2 |
| Chapter 2 - Installation                                    |     |
| Notes and Cautions .....                                    | 2-1 |
| All Local PP Programs Must Be Reassembled .....             | 2-1 |
| CIP L826 Required for All CYBER 180-Class Mainframes .....  | 2-1 |
| Changes to Operating System Decks .....                     | 2-1 |
| PSR Summary Report .....                                    | 2-1 |
| Dual State Support .....                                    | 2-2 |
| Installing Your System Without Degrading a CDCNET BCU ..... | 2-2 |
| Enhancements .....                                          | 2-3 |
| New MAXSHARE EQPDECK Entry .....                            | 2-3 |
| Incompatibilities .....                                     | 2-3 |
| Change to PRESET EQPDECK Entry .....                        | 2-3 |
| Chapter 3 - Analysis                                        |     |
| Enhancements .....                                          | 3-1 |
| Support for ACSLS 4.0 .....                                 | 3-1 |
| Support For 5838 ELITE II DAS Devices .....                 | 3-1 |
| Multimainframe Support for DAS Devices .....                | 3-2 |
| Chapter 4 - Operations                                      |     |
| Enhancements .....                                          | 4-1 |
| New RESTORE Command for DAS Parity Devices .....            | 4-1 |
| New NEXTVSN DSD Command .....                               | 4-1 |
| Chapter 5 - Configuration Management                        |     |
| Notes and Cautions .....                                    | 5-1 |
| Certified Components and Levels .....                       | 5-1 |

# Chapter 1

## SRB Introduction

---

This document is the NOS 2.8.3 L840 Software Release Bulletin (SRB). It is to be used in conjunction with the NOS Installation Handbook (IHB) for installing NOS and its products. Control Data Systems, Inc. recommends that the SRB be read in its entirety prior to software installation. You should also verify that all of your hardware is at the FCA levels indicated in the Configuration Management section of the Software Availability Bulletin (SAB).

The NOS 2.8.3 L840 system described in this document is being released at the following levels:

|                       |           |
|-----------------------|-----------|
| Operating System      | Level 840 |
| Network Host Products | Level 840 |
| Common Product Set    | Level 840 |
| CDCNET                | Level 826 |

### Audience

The SRB is written primarily for the site analyst. It contains notes and cautions about installation and usage of NOS 2.8.3 L840. Chapter 4 contains information intended for a system/operations administrator.

## **Central Software Support Hotline**

Central Software Support (CSS) maintains a hotline to assist you in the use of our products. If you need help not provided by the documentation or find that a product does not perform as described, phone one of the following numbers. A support analyst will work with you.

From the USA and Canada: (800) 345-6628

From other countries: (612) 482-3434

## **SOLVER Access Phone Numbers**

The following phone numbers are used to access SOLVER:

1200/2400 baud V.22 : 612-482-6000  
9600 baud V.32 : 612-482-4000

## **Chapter 2**

# **Installation**

---

This chapter emphasizes changes in the operating system and its products which may be of particular interest to the person performing the system installation.

### **Notes and Cautions**

This section highlights changes which should be kept in mind when installing NOS 2.8.3 L840.

#### **All Local PP Programs Must Be Reassembled**

Changes to PP common decks and NOSTEXT at NOS 2.8.3 L840 require that all sites reassemble any local PP programs.

#### **CIP L826 Required for All CYBER 180-Class Mainframes**

All CYBER 180-class mainframes require CIP L847 to deadstart NOS 2.8.3 L840. For further information regarding CIP, refer to the CIP L847 SRB.

#### **Changes to Operating System Decks**

There are no resequenced decks at NOS 2.8.3 L840.

There is one new deck at NOS 2.8.3 L840:

COMPIMB - Issue Message to Buffer

There are no decks deleted at NOS 2.8.3 L840.

#### **PSR Summary Report**

A summary report of all the NOS PSR modsets in NOS 2.8.3 L840 is available on the permanent file tapes. It is loaded to the installation user name during the SYSGEN procedure call SYSGEN(SOURCE) and has a permanent file name of PSRRPT.

## Dual State Support

NOS 2.8.3 L840 includes support of the Dual State product. A build procedure in DECKOPL, a source library, and permanent files are released with this product. Dual state binaries for NOS/VE 1.8.2 L847 are contained on the NOS deadstart tape for dual state customers. The permanent file tapes contain binaries for NOS/VE 1.8.2 L847 compiled to run on NOS 2.7.3 L780, NOS 2.7.4 L797, NOS 2.8.1 L803, NOS 2.8.2 L826, and NOS 2.8.3 L840.

### NOTE

---

If your system is running NOS/VE 1.8.2 L847 or any of the NOS/VE 1.8.2 L847 BCUs, you DO NOT have to perform any special instructions in chapter 7 of the NOS Installation Handbook unless you wish to alter the dual state source library. Your NOS order already came with the binaries that match the NOS/VE 1.8.2 L847 system on the deadstart tape.

---

For more information concerning dual state and its build procedure, consult the NOS Version 2 Installation handbook (60459320).

## Installing Your System Without Degrading a CDCNET BCU

The NOS 2.8.3 L840 release is built with CDCNET at version D147. This is the version that was released at NOS 2.8.2 L826 - NOS/VE 1.8.2 L847. If you have installed additional L826 CDCNET BCUs, that is, your system is running a version of CDCNET greater than D147, you will need to modify your upgrade installation so that you do not re-install D147 over your current version.

To avoid overwriting your current version of CDCNET, you should NOT perform any special instructions in the CDCNET section of the Special Product Installation chapter. (You are referred to chapter 7 to perform special CDCNET instructions during during step 3 and step 7 of the Upgrade Installation chapter.) You must, however, follow the instructions in step 5 of the Upgrade Installation chapter of the NOS Installation Handbook (60459320) which instruct you to delete PFGDCNS and PFGCHA2 from your RECLAIM database.

## Enhancements

This section highlights new capabilities in NOS 2.8.3 L840.

### New MAXSHARE EQPDECK Entry

The new MAXSHARE EQPDECK entry is used in a multimainframe configuration with a link device, to indicate that more shared devices are present in the total configuration than are defined on this mainframe.

MAXSHARE=n,b.

n = Total number of shared devices in the configuration.

b = Number of shared devices that are buffered devices

(Optional; may be omitted if none of the shared devices  
are buffered devices).

This entry is only required if the EQPDECK for the mainframe performing a PRESET (the first machine to be deadstarted in a multimainframe cluster) does not contain all of the shared devices that will be configured. This entry may either be entered from the keyboard or included in the EQPDECK.

## Incompatibilities

This section describes incompatibilities in the installation process between NOS 2.8.3 L840 and previous NOS systems.

### Change to PRESET EQPDECK Entry

The PRESET EQPDECK entry no longer has the optional format:

PRESET,n.

In previous releases of NOS, in a multimainframe configuration with a link device, this format was used to indicate that more shared devices were present in the total configuration than were defined on this mainframe.

The use of this format of the PRESET entry is replaced by the use of the default format (PRESET.) along with the use of the new MAXSHARE EQPDECK entry.



## **Chapter 3**

### **Analysis**

---

This chapter emphasizes changes in the operating system which may be of particular interest to the site analyst.

### **Enhancements**

This section highlights new capabilities in NOS 2.8.3 L840.

#### **Support for ACSLS 4.0**

NOS 2.8.3 L840 supports the use of Release 4.0 of the Automated Cartridge System Library Server software (ACSL). ACSLS is the software component that manages the storage and movement of tape cartridges and the use of library resources in the Control Data 5744 Automated Cartridge Library. ACSLS validates and routes library requests and responses and translates these client requests for tape cartridges into cartridge movement requests. ACSLS also maintains the library configuration and cartridge location database. The ACSLS software resides on the server system. ACSLS 4.0 runs under SUN OS Release 4.1.2.

ACSL Release 4.0 is a major upgrade of the ACSLS software, and includes several new features. For more information on ACSLS 4.0, refer to the Software Availability Bulletin for that product (SAB No. 940).

NOS 2.8.3 L840 continues to support ACSLS 3.0 and 3.1.

#### **Support For 5838 ELITE II DAS Devices**

NOS 2.8.3 L840 includes support for 5838 (ELITE II) DAS devices. Two types of 5838 devices are supported: device type EG (one 5838 drive accessed in serial mode) and device type EH (two 5838 drives; one for data and one for parity). Each of these devices has a formatted capacity of 1.76GB.

## **Multimainframe Support for DAS Devices**

In previous releases of NOS, only 844, 885, 834 and 836 disk devices could be shared between mainframes. At NOS 2.8.3 L840, NOS Multimainframe software has been enhanced to also allow 583x (DAS) disk devices to be shared.

DAS devices may be shared among up to four mainframes. When sharing DAS devices, the use of an external memory device (ESM or STORNET) is required as a link device among all the mainframes. All features of nonshared DAS, including parity devices and dynamic device rebuilding, are also supported for shared DAS devices.

## Chapter 4

# Operations

---

This chapter emphasizes changes in the operating system which may be of particular interest to the administrator responsible for performing user validations and accounting activities, and/or the person responsible for operational activities.

### Enhancements

This section highlights new capabilities in NOS 2.8.3 L840.

#### New RESTORE Command for DAS Parity Devices

In previous releases of NOS, the system would automatically initiate the restoration of parity protection on a 1XP or 2XP 583x (DAS) device, as soon as the system detected that the failing drive was once again operational. However, for some types of intermittent hardware failures, it was found that a drive could return an operational status when it was still broken. In such a situation, the system would repeatedly try (and fail) to restore the drive. If the device in question was a critical system device, this would hang the system.

At NOS 2.8.3 L840, the system no longer initiates the restoration process automatically. Instead, a new DSD command (RESTORE,est) must be entered to explicitly initiate the restoration process. This new command will avoid the problems mentioned above, and allow the operator to schedule the restore so as to minimize the impact on production.

#### New NEXTVSN DSD Command

A new DSD command, NEXTVSN, has been implemented. This command allows the operator to specify the VSN of the tape to be used as the next reel of a tape file, when an end of reel condition has occurred and the user did not specify the VSN of the next reel. When this situation occurs, the message NEXTVSN,EST,VSN TO CONTINUE will be posted on the E,P display; the EST ordinal of the affected tape unit is displayed next to this message under the UNIT header.

The format of the NEXTVSN command is

NEXTVSN,est,vsn.

where est is the EST ordinal of the unit on which the current reel of the tape file is mounted, and vsn is the VSN of the tape to be used as the next reel. After the NEXTVSN command is entered, a request to mount the specified VSN will be posted in the E,P display, unless the specified VSN is already mounted on another unit.

# Chapter 5

## Configuration Management

---

### Notes and Cautions

This section highlights changes in configuration management for NOS 2.8.3 L840.

### Certified Components and Levels

The following components are certified at the indicated levels:

| Hardware Component                    | Release Level | CIP Level |
|---------------------------------------|---------------|-----------|
| Model 810 Microcode                   | M14AA16       | L826      |
| Model 815 Microcode                   | M11AA16       | L826      |
| Model 825 Microcode                   | M12AA16       | L826      |
| Model 830 Microcode                   | M13AA16       | L826      |
| Model 835 Microcode                   | M20AA17       | L826      |
| Model 840 Microcode                   | M340x09       | L826      |
| Model 845 Microcode                   | M310x11       | L826      |
| Model 850 Microcode                   | M330x12       | L826      |
| Model 855 Microcode                   | M300x10       | L826      |
| Model 990 Microcode                   | M40Ax22       | L826      |
| Model 990 Microcode                   | M41Ax22       | L826      |
| Model 994 Microcode                   | M44Ax22       | L826      |
| 800 Series Environment Interface (EI) | Level 28      | L826      |
| DFT                                   | V10           | L826      |
| SCI                                   | V09           | L826      |

### NOTE

Microcode for model 870 is the same as that for the 860 and microcode for model 995 is the same as that for the 990.

---

The NOS 2.8.3 L840 system is supported in environments containing the following peripheral components:

| Hardware Component                        | Release Level |
|-------------------------------------------|---------------|
| 7054/844 (BCS-Half Track)                 | MA710-D13*    |
| 7021/66X (FIRM66X)                        | MB434-D14*    |
| 7155/885/844-4X (FMD-HT/FT)               | MA721-D12*    |
| 7154/855 (BCF-Full Track)                 | MA401-D08*    |
| 7155-401/885-42/885-1X/844-4X (PHD-HT/FT) | MA722-D03*    |
| 7221/639 (CW63X)                          | MB465-D04*    |
| 7255-01/834/835 (ISD I/II)                | MA462-D06*    |
| 7165/895 (MA464)                          | MA464-D10*    |
| 5870 (CCC5870)                            | MA466-D03*    |
| 7990 (CCC7990)                            | MB466-D03*    |
| 380-170 (NAD)                             | NOS LVL-06    |
| CM1 Controlware (CMD)                     | MH422-D07*    |
| CM2 Controlware (CM2)                     | MH424-D03*    |
| 9853 (XMD) Controlware                    | MH426-D9C*    |
| 5830 (DAS) Controlware                    | MH427-D14*    |
| FSC Tape                                  | MB401-D04*    |
| FSC Disk Firmware (ADP)                   | MA454-D04*    |
| 698-XX CMTS                               | MB467-D02*    |
| Cartridge Tape PMC                        | MB468-D04*    |
| CYBER Initialization Package (CIP)        | CIP L826      |

\*Contained on CIP 826