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RELEASE AND UPDATE INFORMATION, DNOS ONLINE DIAGNOSTICS, RELEASE 1.2.0

TEXAS INSTRUMENTS INCORPORATED DATA SYSTEMS GROUP	drawing number 2234367-9901		
		REV. **	SHEET 1 OF 10

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SECTION 1

GENERAL INFORMATION

1.1 General Information

Online Diagnostics 1.2 release was designed to execute under the DNOS 1.2 operating system. No attempt has been made to maintain compatibility with DNOS 1.1 or earlier operating system releases.

The information in this document should be used in conjunction with the Dnos Online Diagnostics and System Log Analysis Task User's Guide, (Release 1.2).

1.2 Operating System Revision

Online diagnostics 1.2 release is fully supported ONLY by DNOS 1.2. (see para. 1.1)

1.3 Disk Space Required For Installation

The SLA and Online Diagnostics tasks require the following amounts of disk ADU storage area:

		Online Diagnostics	
Disk Type	SLA	W Help	W/O Help
WD500	311	1694	1418
WD800	105	683	545
CD1400 (1)	297	1416	1416
CD1400 (2)	51	283	237
DS50	122	416	370
DS80	106	360	320

Notes:
(1): 16 MByte removable disk
(2): 80 MByte fixed disk

Be aware that these are approximate figures only, since other factors can affect disk storage area (such as added material on

the disk and disk fragmentation).

1.4 Onlines execution from the installation media

The System Log Analyzer must be installed on the system disk. However, Online Diagnostics can be executed prior to installation. This can be especially convenient when using easily removed media such as a double-sided, double-density (DSDD) diskette. Instructions on executing Onlines Diagnostics directly from the object media prior to actual installation are found in the README file of the Object Installation Kit disk.

SECTION 2

CHANGES - ONLINE DIAGNOSTICS

2.1 New devices supported

Onlines 1.2 supports two new devices:

* The 931 VDT Terminal
  Online diagnostic test ST931 provides testing for the model 931 video display terminal. This diagnostic has eight non-interactive and one interactive (keyboard) test.

* The 850 character printer (LP type device)
  Online diagnostic test CPTEST provides testing for the model 850 character line printer. This diagnostic has Fifteen non-interactive tests.

2.2 Memory task governor

The XMEM diagnostic has a governor that does not allow you to enter more memory tasks than the system can accommodate at one time. The governor determines the maximum number of memory tasks according to the size of your system's memory. The prompt ENTER NUMBER OF MEMORY TASKS? (1..X) shows the maximum number of tasks (X) that you are allowed to enter. If you enter a larger value than X, the diagnostic returns an error, and reprompts you for another value.

2.3 Verb description change

The SP verb description has been changed from Show Picture to Show Progress.

2.4 Deletion of the SS verb

The SS (show status) verb has been deleted because the SP (show progress) verb provides this functionality.

SECTION 3

CHANGES - SYSTEM LOG ANALYSIS TASK

3.1 Device names

The system log analysis task of the Onlines 1.2 release uses the four character device naming convention as required by DNOS release 1.2 (DNOS 1.1 used eight character names).

SECTION 4

UNDOCUMENTED ITEMS

4.1 General Information

This section documents features of the 1.2 Onlines that may cause the user some inconvenience if mis-used.

4.2 SMM verb operation

The Show Memory Map (SMM) command is used to monitor the memory occupancy by the Online Driver Task and other tasks, while the tests are executing. Use the SMM command from within the driver to check the memory occupancy status only. Use the SMM command activated from another terminal to view the long term progress of the Online Diagnostics, especially noting that the memory test tasks are moved around the memory area.

NOTE

Do not leave the SMM display active continuously when activated from within the OD driver as it will disallow processing of Online Diagnostic progress messages. The SP verb should be the normal mode of viewing diagnostic progress.

4.3 CP Verb Operation

Be careful when using the CP verb to change online diagnostic task priorities. It is recommended that you change all tasks of the same priority level. If selected tasks are different priorities, (such as DS02 = 2, DS01 = 1, ST03 = 3), it is possible that a priority 3 task message service request for the driver could block the message queue to the driver if it is rolled by the operating

system for long periods of time. This condition will not occur if all the tasks are the same priority.

4.4 Double ENTER Key Operation

While the XODD driver is in operation, pressing the ENTER key twice has the same effect as a "hard break" exit sequence.

4.5 Extended DISK WRITE tests

When executing the extended disk write tests (Tests 10 through 13), it is possible to write over information on the disk volume that is needed to provide the capability to execute an Install New Volume (INV) without having to execute an Initialize Disk Surface (IDS) first. This means that after running the extended disk write tests, an IDS must be performed before the disk can be used by the operating system. This will be changed for future releases so that only a INV will be required after running these tests.

SECTION 5

STRs CLOSED

The following STRs are closed by the Onlines 2.1 release:

STR NUMBER	DESCRIPTION
9585	XSLA terminates with message: SDSDR halt called in module SDERR at loc. 29E6
11274	One-disk system requires temp. directory for RD during installation of onlines
14202	SLA Output for mem. and cache errors incorrect
14533	Disk tests abort on a SVC >FF error when getting date and time
14755	Expanded width problem with 820 printers
16015	Provides proper identification of a LP2230/2260
16079	Provides proper identification of a 940 VDT
16119	Provides CIxxx interface support for LP810
16120	Provides CIxxx interface support for LP2230/LP2260
16121	Provides CIxxx interface support for LP840
16122	Provides CIxxx interface support for LP300/LP600
16123	Provides CIxxx interface support for 911 VDT
16125	Provides CIxxx interface support for 940 VDT
16126	Corrects a problem with the 940 VDT diagnostic of displaying supscript 2 characters instead of dashes

SECTION 6

PATCHES

Instructions for applying the patches are included in the patch file (pathname: <volumename>.DNODOBJ.PATCH.ONLINE21)

PATCH DESCRIPTIONS:

(No patches are required)