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Workgroup CDDI/FDDI SBus Adapter Driver Version 3.2 for Solaris 2.x Release Note

Supplement to DOC-SBUSUG1 (Document Number 78-1277-01)

Introduction

This release note describes the features, modifications, and caveats of the Copper Distributed Data Interface (CDDI) and Fiber Distributed Data Interface (FDDI) SBus Adapter driver software Version 3.1 and 3.2 for Solaris Version 2.x. Refer to the *Workgroup CDDI/FDDI SBus Adapter User Guide* for detailed information about the workgroup CDDI/FDDI SBus adapter.

Product Overview

The workgroup CDDI/FDDI SBus adapters are high-performance cards that connect a SPARCstation or SPARCserver to a CDDI or FDDI ring. The adapter provides a single attachment station (SAS) or dual attachment station (DAS) connection that is compliant with Station Management (SMT) Revision 6.2 and 7.3. Refer to the chapter "Product Overview" of the *Workgroup CDDI/FDDI SBus Adapter User Guide* for a further explanation of product features and functions.

CDDI/FDDI SBus adapter models WA-C301TA, WA-C303TA, WA-C306TA, and WA-C308TA require CDDI/FDDI SBus adapter driver software Version 3.1 or higher for Solaris.

Version 3.2 Modifications

The following modifications have been made to the CDDI/FDDI SBus adapter driver software Version 3.2:

- On Solaris 2.3 and 2.4, occasionally the fddi0 interface still processes RIP packets, although it has been shut down using ifconfig. This situation no longer occurs with Version 3.2. (CSCdi40173)
- When in promiscuous mode, the CDDI/FDDI SBus adapter driver software for Solaris 2.x passes all frames up the stream to the snoop application and to all the modules bonded to the driver. This situation causes each module to receive and discard all frames that are not destined for the local host or all broadcasts. With CDDI/FDDI SBus adapter driver software Version 3.2, this situation is resolved. (CSCdi40375)

- When in dual-homing mode, the **fddistat -f 0 -l** incorrectly displays the status of the ports. For example, port A is active and port B is in standby; however, the display shows that port A is in standby mode and port B is active. This situation has been corrected in Version 3.2. (CSCdi41118)
- The Solaris 3.1 driver did not properly discard giant packets. So, when in promiscuous mode, all IP frames, including unreadable portions of the giant packets that were not discarded, are passed up the IP stream to the snoop application. In Version 3.2, giant packets are properly discarded. (CSCdi40900)
- With Version 3.2, you can specify a different base directory in which to install the the workgroup CDDI/FDDI SBus adapter tools. (CSCdi39172)
- Shared data is now properly protected in the receive ISR in Version 3.2.
- Multiple watchdog timers no longer run at the same time; only one watchdog timer is required.
- With Version 3.2, the driver can be configured to process receive frames at using software interrupts or a hardware interrupts. The default configuration uses hardware interrupts. To use software interrupts, add the following line to the etc/system file:

```
set fddi:fddirxdefer=1
```

Version 3.1 Features

The following new features have been added to the CDDI/FDDI SBus adapter driver software Version 3.1:

1. Support for diskless boot workstations. For detailed information, refer to the *Workgroup CDDI/FDDI SBus Adapter User Guide*.
2. Support for Solaris JumpStart option. For detailed information, refer to the *Workgroup CDDI/FDDI SBus Adapter User Guide*.

Version 2.6 Features

The following new features have been added to the CDDI/FDDI SBus adapter driver software Version 2.6:

1. Support for SMT Revision 6.2 or 7.3 with turbo and SMT 6.2 for nonturbo SBus adapters. Table 1 is a matrix showing the correct flashcode file name to be downloaded depending on your SMT version and adapter card type.

Table 1 Flashcode File Matrix

File Name	SMT Version	Adapter Card Type	Product Number
sbus25.rom	6.2	Non_turbo	WA-C300, WA-C301M, WA-C303, WA-C305, WA-C306M, WA-C308
sbus36.rom	6.2	Turbo	WA-C301T, WA-C303T, WA-C306T, WA-C308T
sbus42.rom	7.3	Turbo	WA-C301T, WA-C303T, WA-C306T, WA-C308T

The appendix “Download Utilities” in the *Workgroup CDDI/FDDI SBus Adapter User Guide* describes how to use the download_flash utility to update the firmware on the SBus adapter.

The README file on the CDDI/FDDI SBus adapter driver for Solaris 2.x diskette contains detailed descriptions and configuration instructions for the following features:

1. Support for SMT Revision 6.2 or 7.3
2. Sunlink OSI 8.0 support (see the README file for the required Sun patch)
3. Sunlink DNI 8.0 support (see the README file for the required Sun patch)
4. IPT uShare Appletalk Version 3.07e, Phase 2 support
5. Support for Helios EtherShare 2.2 AppleTalk package
6. Novell IPX support
7. Network device names, for example, fddi0 and fddi1, now use the OBP's instance number. (See the README file or MAN page for /etc/path_to_inst for more information)

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This document is to be used in conjunction with the *Workgroup CDDI/FDDI SBus Adapter User Guide* publication.

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