Bull MCA 1Port & 4Port Multi-Protocol Serial I/O Adapters Installation and Service Guide

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Hardware

September 1998 BULL ELECTRONICS EUROPE S.A. Service CEDOC 34 Rue du Nid de Pie – BP 428 49004 ANGERS CEDEX 01 FRANCE

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About This Book

This book provides information on how to install and configure a **1Port Multi-protocol Serial I/O Adapter** or a **4Port Multi-protocol Serial I/O Adapter**, on a platform equipped with MCA slots such as ESCALA, and running AIX Version 4.2 and AIX 4.1.5, and subsequent versions. It also provides information about trouble shooting on the adapter.

Who Should Use This Book

This book is intended for the administrator in charge of the installation, configuration and trouble shooting of a1Port or 4Port Multi-protocol Serial I/O Board. He should be familiar with the AIX installation procedures. See *AIX Installation Guide* for more information.

How to Use This Book

Overview of Contents

This book contains the following chapters and appendixes:

- Chapter 1 Installing and Configuring the Multi-protocol Serial I/O Adapter Provides the characteristics of the 1Port Multi-protocol Serial I/O adapter and the 4Port Multi-protocol Serial I/O adapter together with the tasks to perform in order to install and configure them. It also explains how to de-install and de-configure the adapters.
- Chapter 2 Trouble Shooting on the Multi-protocol Serial I/O Adapter Describes what the administrator can do to get information (statistics, status) on the adapter, either for management purposes or in case of hardware problem detected on the adapter.
- Index General Index.

Highlighting

The following highlighting conventions are used in this book:

- **Bold** Identifies commands, subroutines, keywords, files, structures, directories, and other items whose names are predefined by the system. Also identifies simple words to which particular attention must be paid.
- Monospace Identifies examples of specific data values, examples of text similar to what you might see displayed, examples of portions of program code similar to what you might write as a programmer, messages from the system, or information you should actually type.

Related Publications

- Power Stream X.25 Installation and Service Guide 86 A2 95AT.
- AIX and Related Products Documentation Overview, 86 A2 71WE.
- AIX Topic Index and Glossary, Order Number 86 A2 57AP.
- Hypertext Information Base Library, Order Number 86 A2 93AQ.

All of publications cited above are available in softcopy format.

• Cabling Guide for MCA Systems, Order Number 86 A1 87AQ.

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Dieses Gerät erfüllt die Bedingungen der EN 55022 Klasse B.

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VIII MCA 1Port & 4Port Multi-protocol Serial I/O Adapters Installation & Service Guide

Chapter 1. Installing and Configuring 1Port and 4Port Multi-protocol Serial I/O Adapters

Overview

This chapter describes how to install and configure a Multi-protocol Serial I/O adapter on a machine equipped with MCA slots, whatever it is a 1Port or a 4Port adapter. De-installation and de-configuration are also described.

The sequence of the first two sections must be respected.

- How to Prepare Installation, on page 1-2
- How to Install and Configure the Adapter, on page 1-2
 - hardware installation and cable connection
 - system reconfiguration and configuration of the adapter
- How to De-configure and De-install the Adapter, on page 1-7

How to Prepare Installation

1. Check your delivery:

Verify the hardware components:

- 4Port Multi-protocol Serial I/O adapter, and its distribution box, or the 1Port Multi-protocol Serial I/O adapter,
- The cable, according to the interface used: V24, V11 and V35.
 The three interfaces are available on the adapter and ready to use.

The adapters are shown in Figure 1 on page 1-3.

If you are not sure of a component type, refer to the following table which gives, for each component, the correspondence between type, MI (Marketing Identifier, that is commercial identification) and the Identification number which is written on the component.

Component	Designation	MI Identification	Identification Number	Label Type
4-Port	4Port Multi-protocol Serial I/O Board (78F)	DCCG107_0000	76729600	B2-K
Adapter	Distribution Box with 2 m. cable	0000	90882001	
1-Port Adapter	1Port Multi-protocol Serial I/O Board (25F)	DCCG106-0000	76729597	B2-J
Cables:				
– V24	10m. cable V24/V28 (25M/25M)	CBLG173–1900	90 725 001	
– V11	10m. cable X24/V11 (25M/15M)	CBLG174–1900	90 726 001	
– V35	10m. cable V24/V35 PTT France (25M/34VTM)	CBLG175–1900	90 728 001	
– V35	10m. cable V24/V35 EIA & ISO 2593 (25M/34VIM)	CBLG176–1900	90 727 001	

Note: The references of the wrap plugs needed for running the loopback tests are described in Figure 2 page 1-4. They are not part of the standard delivery.

2. Define in which slot to install the Multi-protocol Serial I/O adapter. Refer to the hardware documentation of your system.

How to Install and Configure the Adapter

1. Install the LPPs on your system:

Use the **SMIT** interface (or **installp** command) to install the LPPs on your system: Logged as **root** user, type:

smit install_latest

The software part is composed of three LPPs, delivered on CD-ROM:

- devices.csii.all
- devices.mca.6f8d for a **1Port** adapter, devices.mca.6f8e for a **4Port** adapter,
- devices.syn_sio.all

If you are not familiar with the AIX installation procedure, refer to the *AIX Installation Guide* for more information.

You can check the software installation with the **Islpp** command.

2. Install the Adapter in the System:

- Switch off your machine.
- Remove the front cover, side cover or rear cover, according to your system to access the planar.

If necessary, refer to the corresponding Installation Guide.

- Remove the rear cover in order to remove the cache, if any, in front of the slot where you choose to install the Multi-protocol Serial I/O board.
- Plug the board in the defined slot and secure it by screwing in the connector at the rear of the planar. Put the cover back in its place.
- Switch on your machine.

The devices corresponding to the boards (siob0,siob1...) and the ports (siop0, siop1...) are automatically created at the boot time.



Figure 1. MCA 1-Port and MCA 4-Port Multi-protocol Serial I/O Adapters: What they look like.

3. Connect the Attachment Cables

Connect the cables corresponding to the X25 interfaces you want to use on the 1-Port or 4-Port Adapter. Refer to the Figure 2 to have the cables characteristics. The attachment cables and their wrap plugs are identical for both 1-Port and 4-Port adapters.



Figure 2. MCA 1-Port and 4-Port Adapters connectics.

4. List the Adapters and Ports

Before configuring the adapter, you can check that the devices corresponding to the ports and the board you have just installed were automatically created when you switched on your machine (respectively **siop<i>** and **siob<i>**). They should be in the 'Available' state.

Run 'smit synx25sio' and select one (or both) of the following functions:

-> 'List All Boards' or 'List All Boards/Ports'

Multi-Protocol Serial I/O boardMove Cursor to desired item and press Enter.List all boards <------
List all boards/ports <-----
Port configuration
Problem Determination
Data collection for problem reportingF1=HelpF2=Refresh
F10=ExitF3=Cancel
Enter=Do

Examples:

a. When the 'List All Boards' function is selected, the SMIT screen is:

	COMMAND S	TATUS	
Before command co	mpletion, additior	nal instructions ma	ay appear below.
siob0 Availab	le 00-01	4-Port Serial I	/O Board
F1=Help F8=Image n=Find Next	F2=Refresh F9=Shell	F3=Cancel F10=Exit	F6=Command /=Find

b. When the 'List all boards/ports' function is selected, the SMIT screen is:

	COMMAND STATUS					
Before c	ommand comple	etion, addit:	ional instructions	may appear below.		
siob0 siop0 siop1 siop2 siop3	Available Available Available Available Available	$\begin{array}{c} 00-01 \\ 00-01-00 \\ 00-01-01 \\ 00-01-02 \\ 00-01-03 \end{array}$	4-Port Serial I/ Serial I/O Port Serial I/O Port Serial I/O Port Serial I/O Port	/O Board D of Board siob0 L of Board siob0 2 of Board siob0 3 of Board siob0		
F1=Help F8=Imag n=Find	F2= e F9= Next	=Refresh =Shell	F3=Cancel F10=Exit	F6=Command /=Find		

5. Configure the Adapter

You must now select and configure each port of the adapter, from the list displayed, by filling in the physical interface and the protocol adapter type you want to use on it.

Run 'smit synx25sio' and select:	-> 'Port Configuration'
Mode (Protocol Adapter Type)	The unique protocol adapter type which you want to be attached to the port. You can chose at present between hdlc (X25 communication stack) and sdlc (SNA communication stack). Select 'any' to disable the attach control. The default value is hdlc.
Physical Interface	The physical interface to be used: V11, V24 or V35. The default value is V24.

Example: Configuration of the port 0 of the board 'siob0':

Multi-Protocol Serial I/O ports								
Move Cursor to desired item and press Enter.								
siop0 siop1	Available Available	00-01-00 00-01-01	Serial Serial	I/O	Port0 Port1	of of	Board Board	siob0 siob0
siop2 siop3	Available Available	00-01-02 00-01-03	Serial Serial	I/O I/O	Port2 Port3	of of	Board Board	siob0 siob0
F1=Help F8=Imag /=Find	e	F2=Re F10=E n=Fin	fresh xit d Next			F3 Er	3=Cance nter=Do	el D

Port Configuration	
Serial I/O Port	siop0
Mode (Protocol Adapter Type)	[hdlc]
Physical Interface	[V24]

6. Check the availability of the Adapter

To check that **siop**<i> and **siob**<i> are available, use the **sio_list** command. Example:

#sio_list
siob0 Available 00-01 1-Port Serial I/O Board
siop0 Available 00-01-00 Serial I/O Port0 of Board siob0

If they are not displayed as 'Available', verify that you have performed the tasks as described above. If they remain 'Defined', please refer to 'Trouble Shooting on the Adapter' on page 2-1.

From that point, you can configure the communication stack you want to use (X.25 stack, SDLC...). Refer to the documentation cited in Related Publications.

Two different stacks on two ports of the same board may be used, for instance X.25 on the port 1 and SNA on the port 2. Once the stack configuration is done, if you get problems to connect, check the consistency between configuration and connectics and read what is reported in the errorlogs.

How to De-configure and De-install the Adapter

How to De-configure the Adapter

If you want to remove your adapter, for instance to re-use the slot for another adapter, you must de-configure it in order to have no trouble with device numbering when configuring the new one. There is no SMIT submenu specific to this operation.

Logged as root, without any process using the adapter, type:

rmdev -l siob0 -dR

How to De-install Software

If you do not need any more to manage a multi-protocol serial I/O adapter, you can de-install the corresponding software by using the **SMIT i**nterface.

Logged as root user, type:

smit install_remove

and select the 'Software names' from the list corresponding to the LPPs you had installed on your system. See How to Install and Configure the Adapter, page 1-2 to have the names of LPPs.

If you are not familiar with the AIX installation and de-installation procedures, refer to AIX Installation Guide.

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Chapter 2. Trouble Shooting on the 1Port or 4Port Multi-protocol Serial I/O Adapters

Overview

This chapter describes how to use the diagnostic tools provided through the SMIT interface to the administrator. They display information on the Multi-protocol Serial I/O adapters present in the machine, and enable to easily report a hardware problem occurred on the adapter. They are accessed via SMIT.

You will find:

- A Generic SMIT Interface, on page 2-2
- How to Display VPD, on page 2-3
- How to Manage Problem Logging, on page 2-4
- How to Manage System traces, on page 2-6
- How to Run Hardware Diagnostic Tests, on page 2-7
- How to Get Current Board/Port Status, on page 2-9
- How to Get a Data Collection for Problem Reporting, on page 2-10
- Error Identifiers, on page 2-10

A Generic SMIT Interface

A generic SMIT menu tree is accessed by a unique entry point concerning all the available Multi-protocol Serial I/O boards.

After each menu choice, a device list is provided and a selection from the ports and/or boards displayed is asked.

START SMIT: 'smit commodev'

```
|- Ethernet Adapter
|- 3270 Connection Adapter
|- 5085/86/88 Attachment Adapter
|- Serial Optical Link
|- Hispeed WAN Comm Adapter
|- Multi-Protocol Serial I/O Board
   |- List all boards
   |- List all boards/ports
   |- Port Configuration
   |- Problem Determination
            |---- Vital Product Data (VPD) ..... see page 2-3
            |---- Problem Logging..... see page 2-4
                  |--- Generate an error report
            |--- Clear an error log
   |---- System Traces..... see page 2-6
   |--- Start traces
   |--- Stop traces
   |--- Generate a trace report
            |---- Hardware Diagnostics..... see page 2-7
                  |--- Internal tests
            |--- Loopback tests
            |---- Current board/port status..... see page 2-9
   |- Data Collection for Problem Reporting..... see page 2-10
|- Power Stream X.25
```

'List all boards' and 'List all boards/ports' menu functions are described on page 1-5. 'Port Configuration' menu function is described on page 1-6.

How to Display VPD

Access

Run:'smit commodev'

Select: ---> 'Multi-Protocol Serial I/O Board'

---> 'Problem Determination'

---> 'Vital Product Data (VPD)'

Description

Displays the Vital Product Data (VPD) of the board selected from the list displayed. This VPD can be useful to Support team in case of problem.

Example

Hardware Diagnostics

Move cursor to desired item and press Enter.

Vital Product Data (VPD) Problem Logging System Traces Hardware Diagnostics Current board/port status

Multi-Protocol serial I/O Board

Move cursor to desired item and press Enter.

siob0	Available	00-01	1-Port	Serial	I/O Board
siob1	Available	00-02	1-Port	Serial	I/O Board
Fl=Help F8=Image /=Find		F2=Refre F10=Exi n=Find D	esh t Next		F3=Cancel Enter=Do

	COMMAND STATUS					
Command:OK		stdout	: yes	stderr: no		
Before command con DEVICE I siob0	mpletion, LOCATION 00-01	additiona	l instruct DESCRII n/a	ions may appear below. PTION		
Manufacturer : FRU NUmber: EC LEVEL: Part Number Processor Component Id: Displayable Message;		BULL SYN1 MCA 001 76729597 B0 1-Port M(CA Serial	I/O Board		
F1=Help F8=Image n=Find Next	F2=Refre F9=Shell	esh I L I	F3=Cancel F10=Exit	F6=Command /=Find		

How to Manage Problem Logging

To Generate an Error Report

Access

Run:'commodev'

Select: —> 'Multi-Protocol Serial I/O Board'

---> 'Problem Determination'

---> 'Problem Logging'

---> 'Generate an error report'

Select a port from the list displayed.

Description

Provides the network administrator with information about trouble occurred on the port selected by the user. An Error Log message is generated each time the port driver detects a hardware problem or a problem in software configuration.

Equivalent Command

errpt -a -N sio*

Example

Selection of the suspected port:

Hardware Diagnostics Move cursor to desired item and press Enter. Generate an error report Clear an error log

```
Multi-Protocol serial I/O boards/portsMove cursor to desired item and press Enter.siob0Available00-011-Port Serial I/O Boardsiop0Available00-01-00Serial I/O Port0 of Board siob0F1=HelpF2=RefreshF8=ImageF10=Exit/=Findn=Find Next
```

An example of the generated report asked for siop0 is provided next page.

Running of the report generation:

```
COMMAND STATUS
Command:OK
                         stdout: yes
                                              stderr: no
Before command completion, additional instructions may appear below.
LABEL: SIODD_CABLE_ERROR
IDENTIFIER BFC93A86
Date/Time: Thu Nov 14 17:13:57
Sequence Number 23516
Machine Id: 00001D581234
Node Id: Machine1
Node Id:
Class:
              Η
              PERM
Resource Name: siop0
Resource Class: sioport
Resource Type: sioport
            00-01-00
Location:
Description
PROGRAM PARAMETER IS INCORRECT
Probable Causes
CABLES AND CONNECTIONS
Failure Causes
COMMUNICATIONS INTERFACE
               Recommended Actions
               CHECK PHYSICAL INSTALLATION
               CHECK CABLE AND ITS CONNECTIONS
Detail Data
DIAGNOSTIC EXPLANATION
file: ./z16c32.c line: 1003
_____
                      _____
[MORE...54]
F1=HelpF2=RefreshF3=CancelF6=CommandF8=ImageF9=ShellF10=Exit/=Find
n=Find Next
```

To Clear an Error Log

Access

Run:'commodev'

Select: ---> 'Multi-Protocol Serial I/O Board'

---> 'Problem Determination'

---> 'Problem Logging'

---> 'Clear an error log'

Description

Clears the error log relating to the board selected from the list.

How to Manage System traces

Access

For the three possible actions 'Start', 'Stop' and 'Generate' traces:

Run:`commodev'

Select: ---> 'Multi-Protocol Serial I/O Board'

---> 'Problem Determination'

---> 'System traces'

---> 'Start', 'Stop ' traces or 'Generate a trace report'

Description

The system trace provided for trouble shooting on Multi-protocol Serial I/O boards uses the standard AIX trace mechanism. It is essentially intended for reporting to the Support team. Once you are sure that the problem is due to the adapter, you must:

- · start the trace,
- run the application you suspect to cause the problem,
- stop the trace once the problem has occurred,
- generate a trace report into a file.

This file can then be sent to your Support team, together with a defect report.

Selection of the action on the suspected port

System traces Move cursor to desired item and press Enter. Start traces Stop traces Generate a trace report

Multi-Protocol serial I/O board Move cursor to desired item and press Enter. siob0 Available 00-01 1-Port Serial I/O Board siob1 Available 00-02 1-Port Serial I/O Board F1=Help F2=Refresh F3=Cancel F8=Image F10=Exit Enter=Do /=Find n=Find Next

How to Run Hardware Diagnostic Tests

Access

Run:'commodev'

Select: ---> 'Multi-Protocol Serial I/O Board'

---> 'Problem Determination'

---> 'Hardware diagnostics'

either ---> 'Internal tests'

or ---> 'Loopback tests'

Description

This SMIT submenu gives you access to two types of tests that you can run on the board or port you select from the list displayed.

Internal tests

They consist in a complete check up of the board and its port. They should be run punctually, when a problem is suspected, without any stack or X25 access running on the port. You must select the **board** you want to run the internal tests on. They verify the hardware availability and provide a precise diagnostics of the trouble. The result is a succession of test names displayed with 'OK' or ' NOT OK' mention. The duration time is less than 5 seconds.

Loopback tests

They are an extension of the internal tests. They consist in a verification of the hardware link and cables. Input/output signals are verified by the use of wrap plugs. These wrap plugs can be obtained from your Support Team. They can be placed at the extremity either of the board output, or of the cable output, or else of the distribution box if the adapter is a 4Port adapter. The tests are to be launched by your Support Team. Their duration time is less than 5 seconds.

The wrap plugs are described in Figure 2 page 1-4.

Example

Selection of the action on the suspected port

```
Hardware Diagnostics

Move cursor to desired item and press Enter.

Internal tests

Loopback tests

Multi-Protocol serial I/O Board

Move cursor to desired item and press Enter.

siob0 Available 00-01 1-Port Serial I/O Board

siob1 Available 00-02 1-Port Serial I/O Board
```

'Internal Tests' Report Format

The Internal Tests launched on the board1 display the following results:

Internal Tests					
Move cursor to d	lesired item ar	nd press Enter.			
Internal test bo PLX access test PLX access test SCC access test SCC access test RAM access test RAM access test	ard siobl runn running OK running OK running OK	ning			
F1=Help F8=Image n=Find Next	F2=Refresh F9=Shell	F3=Cancel F10=Exit	F6=Command /=Find		

How to Get Current Board/Port Status

Run: 'commodev' . Select: --> 'Multi-Protocol Serial I/O Board' --> 'Problem Determination' --> 'Current board/port Status'

Description

This menu displays the current state of the port or board selected from the list, i.e information on the init parameter values, the status of the port (emissions, receptions, signals...), and statistics on the exchanged frames.

Example

Current S	State on : Seria	l I/O PortO of B	oard siob0
Init Parameters	=		
Line Mode: Input Signals ma	anagement	hdlc CTS not forced, DCD not forced, DSR not forced	
Transmission Clo Frame check sequ	ock uence	19200 bauds CRC Divisor (x1) dividend preset	6+x12+x2+1), to zeros
Idle mode: Data encoding Signal qualifica Max. pending va Min. anticipatio Max. pending va	ation: lue (rx): on value (rx): lue (tx):	Idle sending FLAGs NRZ always considered 1 message(s) 1 message(s) 1 message(s)	
Status informat:	ion		
Emission clock a Reception clock Emission state: Reception state Emission queue: Reception queue Anticipation que Signals state:	status: status: : : eue:	<pre>present present not ready not ready 0 message(s) 0 message(s) 7 message(s) DTR is passive, DSR is active, RTS is passive, CTS is passive, DCD is active, RI is passive</pre>	
Statistics			
Line mode: Received frames Sent frames: Lost frames: Too long frames Aborted frames: Overrun: Uderrun: Invalid checksun Signal dropped:	: : ms:	hdlc 1534816 1988763 0 248 0 0 0 32	
F1=Help F8=Image n=Find Next	F2=Refresh F9=Shell	F3=Cancel F10=Exit	F6=Command /=Find

How to Get a Data Collection for Problem Reporting

Access

Run:'smit commodev'

Select: ---> 'Multi-Protocol Serial I/O Board'

---> 'Problem Determination'

---> 'Data Collection for Problem Reporting'

Description

This menu should be run by the network administrator when he needs help from the Support team and wants to report a problem. It can also be used by experts who would like to get a complete set of information concerning a Multi-protocol Serial I/O board.

It dumps in *stdout*, or in a file the name of which is chosen by the administrator, a lot of information that are useful to Support team, i.e: the context of the device driver, of the board and the port. This file can be sent to the Support team, together with a defect report.

Error Identifiers

For the following error identifiers, refer to the recommended action described in the error log.

Error identifier	Description
CSII_CSII_FATAL	CSII module fatal error.
SIODD_PORT_ACCESS	Port access refused.
SIODD_BOARD_ACCESS	Adapter access refused.
SIODD_INVALID_PARAM	Invalid parameter.
SIODD_RX_ERROR	Reception error.
SIODD_SIODD_FATAL	SIODD driver fatal error.
SIODD_PORT_CFG_METH	Port configuration method error.
SIODD_PORT_UCFG_METH	Unconfiguration method error on multi-protocol Serial I/O adapter.
SIODD_BOARD_CFG_METH	Adapter configuration method error.
SIODD_INTERNAL_TEST	Internal test error.
SIODD_LOOPBACK_TEST	Loopback test error.
SIODD_CABLE_ERROR	Physical interface error.

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