



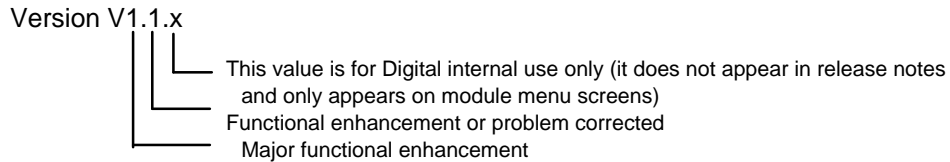
DECswitch 900FO Release Notes

Firmware Version V1.1

April 1996

As warranted, Digital changes the firmware of this device to make functional enhancements or to correct reported problems. These release notes identify enhancements and changes to the firmware that impact end-user operations. These also contain firmware and software requirements, and list updates in this release as well as known conditions and restrictions that apply to the operation of the DECswitch 900FO product.

The following example describes the firmware version number:



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Requirements

The following sections list requirements for the DECswitch 900FO module.

Firmware

When configuring DECswitch 900FO modules in a DEChub 900 MultiSwitch, ensure that the DEChub 900 MultiSwitch firmware version is V4.1, or higher.

Software

If you are using clearVISN MultiChassis Manager, formerly known as HUBwatch, to manage the module, you must install software version V5.0, or higher.

Hardware

The DECswitch 900FO hardware and firmware revision levels can be displayed by selecting menu item 3 ([3] Show Current Settings) from the DECswitch 900FO Installation menu. (Refer to the *DECswitch 900FO Installation Manual* for additional information.) The revision levels are also displayed in the revision field of the Switch Summary window when you are using MultiChassis Manager (version V5.0 or higher), and in the MIB-II sysDescr using a generic SNMP manager.

The revision level for the DEChub 900 MultiSwitch Hub Manager can be displayed by selecting item 3 ([3] Show Current Settings) on the DEChub 900 MultiSwitch Installation menu. (Refer to the *DEChub 900 MultiSwitch Owner's Manual* for more information.)

Docking Station

When configuring a DECswitch 900FO module in standalone mode, the following docking stations are available:

| Docking Station | Model Number | Available Power |
|-----------------|--------------|-----------------------|
| DEChub ONE | DEHUA | 90 Watts ¹ |
| DEChub ONE-MX | DEF1H | 90 Watts |

FDDI Port

The DECswitch 900FO FDDI PHY ports (A/M and B/S) are available on the DEChub 900 backplane or when the appropriate (optional) ModPMDs are installed on the DEChub ONE-MX docking station. The ports can be configured using MultiChassis Manager, or when installed on the DEChub ONE-MX from the console (using the `Module-Specific Options` console menu selection).

¹ The DEChub ONE (DEHUA-**) does not support FDDI connectivity.

When the module is connected to a DEChub ONE-MX docking station, the FDDI configuration state and station type depend on the number of ModPMDs installed, slot location of ModPMDs, and the configuration of the individual PHY ports, as shown in the following table.

Table 1. ModPMD and PHY Port Configurations

| Number of ModPMDs | ModPMD Slot | PHY Configuration | Configuration State |
|-------------------|-------------|-----------------------|---------------------|
| 2 | A/M and B/S | Docking Station: A, B | DAS |
| 2 | A/M and B/S | Docking Station: M, S | SAC |
| 1 | A/M | Docking Station: A, B | DAS C_WRAP_A |
| 1 | A/M | Docking Station: M, S | SAC |
| 1 | B/S | Docking Station: A, B | DAS C_WRAP_B |
| 1 | B/S | Docking Station: M, S | SAC |
| 0 | ---- | Any | No FDDI |

DAS = Dual Attach Station

SAC = Single Attach Concentrator

Known Conditions and Restrictions

The following conditions and restrictions apply to the DECswitch 900FO module.

Enable RTS

The Enable RTS option is not supported in this release. Therefore, RTS cannot be enabled using the Enable/Disable RTS option in the Out-of-Band Port Configuration menu when the module is installed in DEChub ONE-MX docking station or a DEChub ONE docking station.

Attempting to enable RTS using this menu option produces the following error message on the console:

```
System-specific failure - RTS not changed
```

FDDI Tree Configurations

FDDI rules require that stations with M ports be called concentrators. Consequently, when a DECswitch 900FO is configured with M and S ports, it must report itself as a concentrator in FDDI NIF and SIF frames, and in the FDDI and SNMP MIBs. Therefore, MultiChassis Manager, FDDI monitors, and FDDI ring maps will announce the station type of a treed DECswitch 900FO as a Single Attach Concentrator (SAC), rather than as a Single Attach Station (SAS).

FDDI MIB: fddimibPORTLemCts

The value returned in response to an SNMP `get` request for the MIB object `fddimibPORTLemCts` is not meaningful. A value of 0 (zero) is always returned for this object.

Ethernet CRC and Alignment Errors

Due to a hardware limitation, the module cannot distinguish between Ethernet CRC and alignment errors. Both CRC and alignment errors are counted as alignment errors on Ethernet ports. As a result, the CRC Errors (MIB object: dot3StatsFCSErrors) counter on the MultiChassis Manager Bridge Port Information view always shows a zero. The Alignment Errors (MIB object: dot3StatsAlignmentErrors) counter on the same view also counts packets with CRC errors.

MIB and RFC Information

The DECswitch 900FO module supports the following Request For Comments (RFC) and Management Information Base (MIB) extensions:

- SNMP management (RFC-1157)
- MIB II (RFC-1213)
- Bridge MIB (RFC-1493)
- FDDI MIB (RFC-1512)
- Ethernet MIB (RFC-1398)
- Digital ELAN MIB Extensions V2.9, May 1994
- DEChub 900 Common MIB Extensions V1.1, June 1995

Accessing Online Information

Network Product Business Web Site

Further information on this network product or topic is available on Digital's Network Product Business Web Site as well as its Bulletin Board System. Both systems maintain a common, rich set of up-to-date information on NPB's products, technologies, and programs.

The Web Site can be reached at geographic locations via the following URLs:

Americas Network Product Business Home Page
<http://www.networks.digital.com/>

Europe Network Product Business Home Page
<http://www.networks.europe.digital.com/>

Australia Network Product Business Home Page
<http://www.digital.com.au/networks/>

Digital Equipment Corporation Home Page
<http://www.digital.com/>

To get firmware and MIB information, please choose the "Products and Technology" link, and from there choose the "Technical Data" link.

To connect to the Network Product Business Bulletin Board System, you need a PC and a modem. Dial 508-486-5777 (U.S.A.). Set your modem to 8 bits, no parity, 1 stop bit.

Using Electronic Mail

The DDN Network Information Center (NIC) of SRI International provides automated access to NIC documents and information through electronic mail. This is especially useful for users who do not have access to the NIC from a direct Internet link, such as BITNET, CSNET, or UUCP sites.

To use the mail service, follow these instructions:

1. Send a mail message to **SERVICE@NIC.DDN.MIL**.
2. In the SUBJECT field, request the type of service that you want followed by any needed arguments.

Normally the message body is ignored, but if the SUBJECT field is empty, the first line of the message body is taken as the request.

The following example shows the SUBJECT lines you use to obtain DDN NIC documents:

```
HELP
RFC 822
RFC INDEX
RFC 1119.PS
FYI 1
IETF 1IETF-DESCRIPTION.TXT
INTERNET-DRAFTS 1ID-ABSTRACTS.TXT
NETINFO DOMAIN-TEMPLATE.TXT
SEND RFC: RFC-BY-AUTHOR.TXT
SEND IETF/1WG-SUMMARY.TXT
SEND INTERNET-DRAFTS/DRAFT-IETF-NETDATA-NETDATA-00.TXT
HOST DIIS
```

Requests are processed automatically once a day. Large files are broken into separate messages.

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