



DECrepeater 900GM Release Notes

Firmware Version V2.0

September 1995

These release notes contain firmware and software requirements, and list known conditions and restrictions that apply to the operation of the DECrepeater 900GM module.

Additional release notes can be found online. See the section of this document that is titled Accessing Online Information for information about retrieving online release notes.

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Firmware Requirements

Digital Equipment Corporation requires that you use DEChub 900 MultiSwitch firmware version V4.0, or higher, to manage the DECrepeater 900GM.

Software Requirements

If you are using HUBwatch to manage the DECrepeater 900GM, Digital Equipment Corporation requires that you use HUBwatch software version V4.0, or higher.

Known Conditions and Restrictions

The following is a list of DECrepeater 900GM conditions and restrictions:

- The Maintenance Operations Protocol (MOP) V4 loopback function is not supported. The MOP V3 loopback function (Ethernet Configuration Testing Protocol in the Ethernet V2 specification) is supported.
- The IP stack is supported in-band only over the Ethernet datalink layer, but is not supported over IEEE 802.3.
- If you are managing a DECrepeater 900GM module over OBM in a standalone configuration and are using HUBwatch to manage the DECrepeater 900GM module, clicking the Reset button on the Repeater Summary screen will not bring up the module. Recover by using the Console menu to reset to factory default settings.
- The display string size for RMON alarms and events has a limitation of 80 octets. The RMON MIB specifies a size of 127 octets.
- If one workstation is connected to a port while that port is generating traffic, and you use HUBwatch to enable address learning for that port, the port will not learn the station's address.

MIB and RFC Information

The DECrepeater 900GM module supports the following MIBs and RFCs:

- MIB II, RFC 1213
- Ethernet-like interface type MIB, RFC 1398
- IETF repeater MIB, RFC 1516
- DEChub 900 repeater MIB extensions version V2.0
- DEChub 900 common MIB version V2.0
- RMON MIB RFC 1271

Accessing Online Information

This section describes how to access this product's online release notes, public MIBs, Digital's private MIBs, firmware images, and requests for comments (RFCs). This information is available from Digital's Internet ftp access server at `ftp.digital.com` (16.1.0.2).

To Access...	Use...
MIBs, release notes, firmware update files, and HUBloader application	Anonymous ftp
MIBs and release notes	ftpmail
RFCs	Electronic mail

Using Anonymous ftp

You can access any of Digital's DEChub MIBs, firmware update files, and release notes over the Internet by using your ftp software.

When you use ftp, you must use the following parameters:

- connect to `ftp.digital.com`
- for a user name, enter `anonymous`
- for a password, enter your Internet mail address; for example:
`name@system.company.com`
- change directory to:
`/pub/DEC/hub900/<directory_name>`

(See Table 1 for a list of directory names.)

Table 1 Directory Names Available

Name	Contents ¹
mibs	DEChub MIBs
firmware	DEChub firmware images
firmware/hubloader	HUBloader application
release	DEChub product release notes

¹ Digital suggests reading the README file in each directory to understand the contents of that directory.

You can also access these directories from the World Wide Web using a browser. The Universal Resource Locator (URL) is as follows:

`file://ftp.digital.com/pub/DEC/hub900/`

The following example shows how to copy a README file. User input in the example is shown in **bold** text.

NOTE: User input is case sensitive; you must type it as shown.

```
% ftp ftp.digital.com
Connected to ftp.digital.com
220 FTP.DIGITAL.COM FTP Service Process
Name: anonymous
331 ANONYMOUS user ok, send real ident as password.
Password: milano@netman.stateu.edu
230 User ANONYMOUS logged in at Tue 10-May-1994 10:24-EST, job 54.
ftp> cd /pub/DEC/hub900/<directory_name> (See Table 1 for directory names.)
331 Default name accepted. Send password to connect to it.
ftp> ascii (See note below.)
220 Type A ok.
ftp> get README
200 Port 19.54 at host nnn.nn.nn.nn accepted.
150 ASCII retrieve of /pub/DEC/hub900/mibs/README started.
226 Transfer completed. 40239 (8) bytes transferred.
40239 bytes received in 23.65 seconds (5.8 Kbytes/s)
ftp> quit
%
```

NOTE: To transfer binary files, such as firmware updates, replace the `ascii` command shown in this example with `binary` or `image`.

Using ftpmail

Digital offers Internet ftpmail access to private MIB and release note information, in ASCII text form, at `ftp.digital.com`, with up-to-date documents stored in:

```
/pub/DEC/hub900/<directory_name>
```

(See Table 1 for a list of directory names.)

To use ftpmail, follow these instructions:

1. Send a mail message to `ftpmail@ftp.digital.com`.
2. Ignore the subject line.
3. Include the word `connect` in the first line of the body.
4. Include `get` commands for each document required; for example:


```
get /pub/DEC/hub900/<directory_name>/README
(See Table 1 for a list of directory names.)
```
5. `quit`

Requests are acknowledged, then queued and processed every 30 minutes. Because of the number of requests, it may take a day or two before you receive a reply.

NOTE: For more timely access, consider using anonymous ftp. (Refer to the section titled Using Anonymous ftp.)

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 are example SUBJECT lines to obtain DDN NIC documents:

```
HELP
RFC 822
RFC INDEX
RFC 1119.PS
FYI 1
IETF 1 IETF-DESCRIPTION.TXT
INTERNET-DRAFTS 1 ID-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 down into separate messages.

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