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12 - Command Reference

This chapter describes the ETS command set. Each command and its syntax is shown, as well as whether or not the command is restricted to the privileged user.

NOTE: See Set Privileged/Noprivileged on page 12-54 for information on changing your port to privileged status.

The following conventions are used in the syntax diagrams of this chapter:

• **Bold type** denotes command keywords, which may be entered in upper, lower, or mixed case.

• *Italics* signal a user-supplied parameter, such as a particular port number or host name. Replace the italicized word with an entry that corresponds to your setup.

  To preserve case and spaces, user-entered parameters must be enclosed in quotes.

• Brackets [ ] denote optional parameters. Multiple optional parameters can be entered in any order or combination on a single command line. Items in brackets may be left out of the command if not desired.

• Curly braces { } indicate that one and only one of the items enclosed within the braces must be used to complete the command.

The EPS1, EPS2, EPS2P2, EPS4P1, MPS, and LPS do not support the full ETS/EPS command set; each command entry contains a list of the units on which the command can be used.

12.1 Command Line Interface

Command line entry is both simple and powerful. Users can enter up to 132 characters on a command line, or abbreviate commands to a sequence of the smallest unique keywords (sometimes single characters). Commands are executed when the Return key is pressed or when the command line exceeds 132 characters.

12.1.1 Command Completion

When the command completion feature is enabled, pressing the Tab key or the space bar will prompt the server to complete a partially-typed command for you, which can both save time and reduce errors. If the user-entered characters are ambiguous, the server will alert you with a beep. Command completion is disabled by default.

NOTE: See Set/Define Port Command Completion on page 12-33 for details.
12.1.2 Command Line Editing

Table 12-1 lists the special keys used for command line editing.

Table 12-1: Line Editing Keys

<table>
<thead>
<tr>
<th>Key</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Return</td>
<td>Executes the current command line</td>
</tr>
<tr>
<td>Delete</td>
<td>Deletes the character before the cursor</td>
</tr>
<tr>
<td>Ctrl-A</td>
<td>Toggles insert/overstrike modes. Overstrike is on by default.</td>
</tr>
<tr>
<td>Ctrl-D</td>
<td>Logs out of the server</td>
</tr>
<tr>
<td>Ctrl-E</td>
<td>Moves cursor to end of line</td>
</tr>
<tr>
<td>Ctrl-H or Backspace</td>
<td>Moves cursor to the beginning of the line</td>
</tr>
<tr>
<td>Ctrl-R</td>
<td>Re-displays the current command</td>
</tr>
<tr>
<td>Ctrl-U</td>
<td>Deletes the entire current line</td>
</tr>
<tr>
<td>Ctrl-Z</td>
<td>Logs out of the server</td>
</tr>
<tr>
<td>Left Arrow</td>
<td>Moves cursor left</td>
</tr>
<tr>
<td>Right Arrow</td>
<td>Moves cursor right</td>
</tr>
<tr>
<td>Up Arrow or Ctrl-P</td>
<td>Recalls the previous command</td>
</tr>
<tr>
<td>Down Arrow or Ctrl-N</td>
<td>Recalls the next command</td>
</tr>
<tr>
<td>!text &lt;Return&gt;</td>
<td>Recalls command starting with text</td>
</tr>
<tr>
<td>!! &lt;Return&gt;</td>
<td>Recalls and executes the last command</td>
</tr>
</tbody>
</table>

**NOTE:** Line editing is disabled on Hardcopy ports.

12.2 Attach Port

Attaches a connection from an ETS port to a LAT or Telnet service. Attach is similar to the Connect command, except that Connect works with the port your terminal is attached to; Attach works with a different port.
Applies To
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Restrictions
You must be the privileged user to use this command.

Parameters

- n
  Specify which ETS port to use for the connection. Logged-in and virtual ports cannot be Attached.

- service
  Specifies a dedicated LAT service to be used for the connection. The optional parameters can be used in any combination, and multiple parameters can be included in one command line.

- Node NodeName
  Specifies a connection to a particular node on the dedicated host. This is desirable when more than one node offers the same service.

- Destination port
  Specifies a connection to a particular port on the dedicated host.

- Environment EnvString
  Sets up the connection environment before the session is started. The string is constructed with a sequence of key letters, some of which are preaced by either “+” or “-.” The generic key letters are:

<table>
<thead>
<tr>
<th>Letter</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Backspace Mode (+D) or Delete Mode (-D)</td>
</tr>
<tr>
<td>E</td>
<td>Local Echo Mode (+E) or Remote Echo Mode (-E)</td>
</tr>
<tr>
<td>I</td>
<td>Interactive Mode</td>
</tr>
<tr>
<td>P</td>
<td>Passall Mode (+P) or Passthru Mode (-P)</td>
</tr>
<tr>
<td>C</td>
<td>CR becomes CRLF (+C) or CR becomes LF (-C)</td>
</tr>
<tr>
<td>T</td>
<td>TCP Mode, raw uninterpreted data stream</td>
</tr>
<tr>
<td>R</td>
<td>Rlogin protocol, sets port number to 513 if not already set</td>
</tr>
<tr>
<td>U</td>
<td>UDP protocol</td>
</tr>
<tr>
<td>Q</td>
<td>Queued (RTEL) connection to the target</td>
</tr>
<tr>
<td>nnn</td>
<td>optional port number</td>
</tr>
</tbody>
</table>

Table 12-2: Environment Strings

Telnet hostname
Specify a Telnet host to use for the connection. Either a text host name or an IP address can be used. Environment strings can be added.

Rlogin hostname
Specifies an Rlogin connection to the specified Telnet host.

Examples
Local> ATTACH PORT 2 fileserver NODE opus DES port_2

See Also
Connect, page 12-9; Set/Define Port Dedicated, page 12-33; Environment Strings, page 2-13.
12.3 Backwards

**Backwards**

Switches from the current session to the last session accessed. Repeating the command will cycle you backward in time through the active sessions, which can be viewed with the Show Sessions command. If the Backwards command is issued from the first (earliest) session in the session list, the last (most recent) session is resumed.

**Applies To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Errors**  
Backward has no effect if there is only one session, and an error is displayed if no sessions are active.

**See Also**  
Forwards, page 12-12; Set/Define Port Break, page 12-31; Show/Monitor Sessions, page 12-111; Session Management, page 6-7.

12.4 Bg

**Bg**

Bg is functionally equivalent to the Backwards command (see above). It is provided for UNIX compatibility.

12.5 Broadcast

**Broadcast**

```
BROADCAST { ALL | PORT number | username } message
```

Sends a message to one port, all ports, or a particular user on the server. This command can only be used if broadcasts have been enabled on the server. The sender will be notified if a message is not received.

**Applies To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**  
You must be the privileged user to use the All parameter.

**Errors**  
An error will result if the destination port is flow controlled, the server does not have broadcast enabled, or the destination session is set to Pass-thru or Passall mode.

**Parameters**

- **All**  
The broadcast is sent to all ports.

- **Port number**  
The broadcast is sent to the single specified port.
username
The broadcast is sent to any port that is logged in with the specified username. If multiple users on different ports specify the same username, the message will be sent to all of them.

message
One word, or several words enclosed in quotes. If quotes are used, the message will be sent exactly as typed, otherwise it will be sent in upper-case. Message length is limited to the length of the command line (132 characters) minus the command keywords and spaces that are typed before the message.

Examples
Local> BROADCAST PORT 7 "Ready for lunch?"
Local> BROADCAST Fred "Meeting in 10 min"

See Also

12.6 Clear/Purge Dialback

```
CLEAR
PURGE
DIALBACK
ALL
username
```

Clears a dialback setting for a particular username, or for all usernames.

Applies To
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Restrictions
You must be the privileged user to use this command.

Errors
Clear Dialback will return an error if the specified username isn’t found, or if All is specified and no entries are configured.

Examples
Local> PURGE DIALBACK “robert”
Local> CLEAR DIALBACK ALL

See Also
Set/Define Port Dialback, page 12-35; Show/Monitor/List Dialback, page 12-100; Dialback, page 5-13.

12.7 Clear/Purge Hosts

This is not a valid command. See Clear/Purge Telnet Hosts, page 12-8.
12.8 Clear/Purge IPsecurity

```
{CLEAR} {PURGE} IPSECURITY {ALL} {IPaddress}
```

Removes an entry, or all entries, from the IP security table.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Errors**
Clear IPsecurity will return an error if the specified entry isn’t found, or if All is specified and no IP security entries have been configured.

**Parameters**
- **IPaddress**
  Clears a particular entry from the IPsecurity table.

**Examples**
Local> PURGE IPSECURITY 192.0.1.255
Local> CLEAR IPSECURITY ALL

**See Also**

12.9 Clear/Purge Menu

```
{CLEAR} {PURGE} MENU {ALL} {MenuNum}
```

Removes an entry, or entries, from the menu used in menu mode.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
- **MenuNum**
  Remove a specific menu entry by number. To view menu entries, enter the Show Menu command.

**Examples**
Local> CLEAR MENU ALL
Local> CLEAR MENU 2

**See Also**
12.10 Clear/Purge Protocol NetWare Access

```
{CLEAR | PURGE} PROTOCOL NETWARE ACCESS {ALL | fileserver}
```

Clears one or more of the currently specified entries in the NetWare access list.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**

You must be the privileged user to use this command.

**Errors**

An error is returned if the entry isn’t found or if no entries are configured.

**Parameters**

- `fileserver`
  Removes only the specified entry from the NetWare access list.

**Examples**

Local> PURGE PROTOCOL NETWARE ACCESS ALL
Local> CLEAR PROTO NET ACC LAB_FS4

**See Also**

Set/Define Protocols NetWare Access, page 12-57; Show/Monitor/List Protocols, page 12-104; NetWare Access Lists, page 4-4; Access Lists, page 10-1.

12.11 Clear/Purge Service

```
{CLEAR | PURGE} SERVICE {LOCAL | service}
```

Removes a defined service from the ETS. The login service cannot be deleted via the Clear/Purge commands—you must use the **Set/Define Server Incoming** command to remove them.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**

You must be the privileged user to use this command.

**Errors**

Clear Service fails when there are sessions connected to the service or when there are connect requests in the service’s queue. These conditions can be eliminated with the **Logout Port** and **Remove Queue** commands.

**Parameters**

- `Local`
  Removes the definitions of all local services.

- `service`
  Removes the definition of the specified service.

**Examples**

Local> CLEAR SERVICE LOCAL
Local> CLEAR SERVICE fileserver

**See Also**

Set/Define Service commands, starting on page 12-84; Show/Monitor/List Services, page 12-110; Creating Services, page 4-13.
12.12 Clear/Purge SLIP

Clear SLIP is not a valid command. See Purge SLIP on page 12-18.

12.13 Clear/Purge SNMP

Removes entries from the SNMP security table.

Applies To

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions

You must be the privileged user to use this command.

Parameters

All
Removes all table entries.

CommunityName
Enter a community name of up to 16 alphanumeric characters. The ETS and EPS allow multiple community names. For the EPS1/2, EPS2P2, EPS4P1, MPS, and LPS, the only valid community name is public.

Examples

Local> CLEAR SNMP public

See Also


12.14 Clear/Purge Telnet Hosts

Removes a TCP/IP host entry from the ETS table of known hosts. If the cleared host was seen through the rwho facility, it will reappear as soon as that machine broadcasts again. A host will also reappear if a user connects to it.

Applies To

EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Restrictions

You must be the privileged user to use this command.

Errors

Clear Hosts will fail if there are active Telnet connections on the server.

Parameters

HostName
Removes only the specified host.

All
Removes all entries from the host table.
Examples

Local> CLEAR HOSTS "alex"

See Also


12.15  Close

See Disconnect, page 12-11.

12.16  Cls

```
CLS
```

Clears the screen on your terminal device if the port is configured as Type ANSI.

Applies To  EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

See Also  Set/Define Port Type, page 12-52.

12.17  Connect

```
```

Establishes a session with a LAT service or TCP/IP host. If no service or hostname is specified, a connection to any preferred service or host is attempted. A session environment string can be added to the connect request (refer to Environment Strings on page 2-13). A colon and port number can also be added to the hostname for TCP/Telnet/Rlogin sessions; in this case the specified port number will be used for the connection.

Applies To  EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Parameters

[LAT] servicename
The LAT option is provided for cases where a LAT service happens to be named Telnet or Rlogin. Otherwise, the service name would be used as a command keyword.

Node NodeName
In the case where more than one node offers the same LAT service, a particular node can be specified. Otherwise, the node offering the service with the highest rating will be accessed.
NOTE: The optional LAT parameters can be used in any combination, and multiple parameters can be included in one command line.

**Destination port**

In the case where more than one port offers the same LAT service, a particular port name can be specified. Otherwise, the node offering the service with the highest rating will be accessed.

**Environment EnvString**

Sets up the connection environment before the session is started. The string is constructed with a sequence of key letters, some of which are prefaced by either “+” or “-.” The generic key letters are:

<table>
<thead>
<tr>
<th>Letter</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Backspace Mode (+D) or Delete Mode (-D)</td>
</tr>
<tr>
<td>E</td>
<td>Local Echo Mode (+E) or Remote Echo Mode (-E)</td>
</tr>
<tr>
<td>I</td>
<td>Interactive Mode</td>
</tr>
<tr>
<td>P</td>
<td>Passall Mode (+P) or Passthru Mode (-P)</td>
</tr>
<tr>
<td>C</td>
<td>CR becomes CRLF (+C) or CR becomes LF (-C)</td>
</tr>
<tr>
<td>T</td>
<td>TCP Mode (raw uninterpreted data stream)</td>
</tr>
<tr>
<td>R</td>
<td>Rlogin protocol (sets port number to 513 if not already set)</td>
</tr>
<tr>
<td>U</td>
<td>UDP protocol</td>
</tr>
<tr>
<td>Q</td>
<td>Queued (RTEL) connection to the target</td>
</tr>
<tr>
<td>mnn</td>
<td>optional port number</td>
</tr>
</tbody>
</table>

**Notes**

- **Telnet hostname**
  Specify a Telnet host to use for the connection. Either a text host name or an IP address can be used. Note that environment strings can be added.

- **Rlogin hostname**
  Enter a text host name or IP address for the connection.

- **TCP hostname**
  Creates a raw TCP connection to the host (no Telnet data interpretation is performed).

**Examples**

Local> CONNECT
Local> CONNECT vax6 ENVIRON +e
Local> CONNECT wampum NODE opus DESTINATION port_2
Local> CONNECT RLOGIN 145.34.35.14
Local> CONNECT TELNET 145.34.35.11:245
Local> CONNECT TCP labsun

**See Also**

Attach Port, page 12-2; Set/Define Port Preferred, page 12-45; Environment Strings, page 2-13.
12.18 Crash 451

**CRASH 451**

Immediately reboots the server. All users are logged off and sessions are disconnected. If upline dumping is enabled, the server generates a dump file on the VMS load host before rebooting.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**
Initialize Server, page 12-13; Rebooting the ETS, page 3-5.

12.19 Define

Define is equivalent to Set, but Define changes the *permanent* characteristics of ports, servers, and services. Define Port and Define SLIP settings do not take effect until after the current user logs out. Define Server, Define Telnet Host, and Define Service settings remain unchanged until the server is rebooted. To make a permanent change that takes effect immediately, you must enter both a Define and a Set command with the same parameters. All Define commands are documented together with their corresponding Set commands later in this chapter.

12.20 Disconnect

**DISCONNECT [SESSION] SessionNum ALL**

Terminates the *current* session (if no parameters are added), the *specified* session, or *all* sessions.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Examples**
Local> DISCONNECT
Local> DISCONNECT SESSION 3

**See Also**
Attach Port, page 12-2; Session Management, page 6-7.

12.21 Fg

**FG**

Fg is functionally equivalent to the Forwards command, discussed next. It is provided for UNIX compatibility.
12.22  Finger

This command is an implementation of the UNIX Finger command that shows local and remote users. The finger command by itself will show the ports on the ETS.

**Apply To**  
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Errors**  
An error is displayed if the host cannot be accessed.

**Parameters**  

- **username**
  Shows information about user *username* on the ETS.

- **username@host**
  Shows information regarding user *username* on TCP/IP host *host*.

- **@host**
  Shows all users currently connected to TCP/IP host *host*.

**NOTE:** To see a list of processes running on the ETS, use the command “finger finger.”

**Examples**  
Local> FINGER
Local> FINGER bob
Local> FINGER @hydra
Local> FINGER bob@hydra
Local> FINGER FINGER

**See Also**  
Show/Monitor Users, page 12-113.

12.23  Forwards

Switches from the current session to the next session in the session list. Repeating the command will cycle you forward in time through the active sessions, which can be viewed with the Show Sessions command. If the Forwards command is issued from the last (most recent) session in the session list, the first (earliest) session is resumed.

**Apply To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Errors**  
Forward has no effect if there is only one session, and an error is displayed if no sessions are active.

**See Also**  
Set/Define Port Forward, page 12-38; Set/Define Port Local, page 12-40; Set/Define Port Break, page 12-31; Backwards and Forwards, page 6-7.
12.24 Help

**HELP [command [parameter]]**

Lets you access the online Help system. Enter Help with no parameters to see a list of all available commands.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**

The help processor only shows the help text for the commands that the user is privileged to use. To see all help text, become the privileged user.

**Parameters**

- **command**
  
  Gives general information about the command, and lists any parameters.
  
  - **parameter**
  
    Gives more specific information about the command and parameter, and lists any sub-parameters. Several parameters can be specified, provided they are listed in the proper hierarchical order.

**Examples**

Local> HELP DEFINE SERVER BROADCAST

12.25 Initialize Server

**INITIALIZE [SERVER]**

- **CANCEL**
- **DELAY delay**
- **FACTORY**
- **NOBOOT**
- **RELOAD**

Resets the server or cancels a pending Initialization. When reset, the server loses all changes made using Set commands unless corresponding Define or Save commands were also entered.

**NOTE:** Initialization options can be used in any order or combination.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**

You must be the privileged user to use this command.

**Parameters**

- **Cancel**
  
  Cancels any impending Initialize command. Cancel and Delay cannot be used together.
  
  - **Delay**
  
    Schedules the Initialize after a specified number of minutes (the range is 0-120 minutes). Show Server Status will show the time pending until a scheduled reboot.
Factory
Causes the server to reload the factory settings. In addition to Set configurations, all Saved and Defined settings will be cleared.

NOTE: A Factory Init clears all settings not enabled by default, including NDS and LAT. After the initialization, you will have to re-enter the LAT license.

Noboot
Forces the server to remain in the Boot Configuration Program (BCP) instead of booting. This option is only supported on ROM versions 2.0 or later, and does not apply to the MPS or LPS.

Reload
For flash-ROM units, this option forces the server to download operational code from a host machine and reprogram the flash-ROM.

Examples
Local> INITIALIZE DELAY 12
Local> INITIALIZE FACTORY
Local> INITIALIZE CANCEL

See Also
Crash 451, page 12-11; Show/Monitor/List Server Status, page 12-108; Rebooting the ETS, page 3-5.

12.26 Jobs

The Jobs command is functionally identical to the Show/Monitor Sessions command, discussed on page 12-111. It is provided for UNIX compatibility.

12.27 Kill

The Kill command is functionally identical to the Disconnect command, discussed on page 12-11. It is provided for UNIX compatibility.

12.28 LAT

LAT ServiceName [parameters]

LAT is a shorthand for the Connect LAT command, discussed on page 12-9, and is provided for simplicity. If a preferred service has been defined, the service parameter is optional. An environment string can also be added to the command.

Applies To
EPS4, ETS4P4, ETS4P8, ETS8P, ETS16, ETS16P

See Also
12.29  List

List is similar to the Show command, except that List displays defined (permanent) characteristics, which may or may not be the same as those currently set (temporary). List shows settings that will take effect the next time the server is initialized. Each List command is documented together with its corresponding Show command.

12.30  Lock

Locks a port without disconnecting sessions. The user is queried for a password (6 characters maximum, alphanumeric only), and will be asked to verify it. The password and verification are not displayed. The port is then locked until the correct password is used to unlock it.

If a user forgets his password, the privileged user must either log out the port (disconnecting all sessions) or use the Unlock Port command.

**Applies To**  EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P  
**Restrictions**  Secure users may not lock their ports.  
**Examples**  
```
Local> LOCK
Password> donut (not echoed)
Verification> donut
Unlock password> donut
Local>
```

**See Also**  Set/Define Server Lock, page 12-70; Unlock Port, page 12-117; Locking a Port, page 5-16.

12.31  Logout

Logs out the current port, or another port if specified, disconnecting all of the port’s open sessions.

**Applies To**  EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS  
**Restrictions**  You must be the privileged user to logout a port other than your own.  
**Examples**  
```
Local> LOGOUT
Local> LOGOUT PORT 2
```
12.32 Man

The Man command is functionally identical to the Help command, discussed on page 12-13. It is provided for UNIX compatibility.

12.33 Mode

```
MODE [COM SerPort:]baudrate[,parity[,charsize[,stopbits]]]
```

The Mode command is provided for DOS compatibility; it configures the serial port parameters with both a Set and a Define command. Note that there should be no spaces between parameters.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**

You must be the privileged user to use this command.

**Parameters**

- **SerPort**
  Configure the specified serial port instead of the current port.

- **baudrate**
  Enter the port’s baud rate, which can range from 150 to 115,200 baud.

- **parity**
  Enter the port’s parity, which can be Even, Odd, Mark, Space, or None.

- **charsize**
  Enter the character size, which can be either 7 or 8.

- **stopbits**
  Enter the desired stop bit count, which can be either 1 or 2.

**Examples**

```
Local> MODE COM4:9600,even,1,7
```

**See Also**

Set/Define Port commands, beginning on page 12-26.

12.34 Monitor

Monitor commands are the same as Show commands, except that the displayed information is continuously updated approximately every three seconds. The display can be stopped by pressing any key. See the corresponding Show commands for details and options.
12.35  Netstat

The Netstat command shows the currently active network connections. Information is displayed for the AppleTalk, LAT, LAN Manager, NetWare and TCP/IP protocols. This information is primarily meant for debugging network problems.

**Applies To**: EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

12.36  Open

The Open command is functionally identical to the Connect Telnet command, discussed on page 12-9.

12.37  Ping

**PING hostname**

Ping sends a TCP/IP request for an echo packet to another network host and therefore provides an easy way to test network connections. In general, any host that supports TCP/IP will respond if it is able, regardless of login restrictions, job load, or operating system. If there is no reply from the host, there may be a network or TCP/IP configuration problem.

**Applies To**: EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Parameters**

- **hostname**
  Either a text hostname or IP address can be provided.

**Examples**

- Local> PING 192.0.1.23
- Local> PING hydra.local.net

**See Also**  Installation Guide.

12.38  Purge

Purge commands permanently remove an entry (service or IP host) from the server’s database when the unit is rebooted. Purge does not affect the current operating characteristics. The one exception to this rule is the Purge SLIP command, explained next.

Because Purge is similar to Clear, some Purge commands are explained together with their corresponding Clear commands earlier in this chapter.
12.39 **Purge SLIP**

```
PURGE SLIP \begin{align*} & \text{ALL} \\ & \text{PORT } portnum \\ & \text{DEFAULT} \end{align*}
```

Removes a previously configured Define SLIP entry for a port. Clear SLIP is not a valid command.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Errors**
Purge SLIP will return an error if the specified port does not have SLIP enabled, or if the IP address specified is not associated with that port.

**Parameters**

- **All**
  Clears all of the SLIP settings for the server (entries for all ports and the Default server setting).

- **Port** portnum
  Clears the SLIP entry for the specified port only.

- **Default**
  Clears the default SLIP setting for the server.

**Examples**
Local> PURGE SLIP Port 4

**See Also**
Set/Define SLIP, page 12-96; Show/List SLIP, page 12-111; Serial Line Internet Protocol (SLIP), page 2-9; SLIP, page 4-7.

12.40 **Remove Queue**

```
REMOVE QUEUE \begin{align*} & \text{ALL} \\ & \text{ENTRY } number \\ & \text{NODE } NodeName \\ & \text{SERVICE } ServiceName \end{align*}
```

Removes requests for local services from that service’s queue.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

- **All**
  Removes all requests in the local server queue.

- **ENTRY number**
  Removes the specified queue entry. Use the Show Queue command to display the queues and entries by number.
Node NodeName
Removes all queue requests originating from the specified node.

Service ServiceName
Removes all requests queued to the specified local service.

Examples
Local> REMOVE QUEUE ALL
Local> REMOVE QUEUE ENTRY 5
Local> REMOVE QUEUE NODE opus
Local> REMOVE QUEUE SERVICE MODEM

See Also

12.41 Resolve

RESOLVE hostname

Attempts to resolve a TCP/IP name from the local host table and/or network nameserver.

Applies To
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Errors
An error is returned if the attempted nameservice fails.

12.42 Resume

RESUME [ [SESSION] number]

Leaves Local mode and resumes the current (active) session, or a specified session.

Applies To
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Errors
An error is returned if there are no active sessions.

Parameters
number
Enter the number of the session you wish to resume. Session lists can be viewed with the Show Sessions command.

Examples
Local> RESUME
Local> RESUME SESSION 4

See Also
12.43 Rlogin

Rlogin is shorthand for the Connect Rlogin command, discussed on page 12-9, and is provided for simplicity. The hostname can be either text or an IP address. If a preferred Telnet service has been defined, the hostname parameter is optional. If the optional username is specified, it will be used as the login name.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**See Also**
Connect, page 12-9; Set/Define Port Preferred, page 12-45; Rlogin, page 2-7.

12.44 Save

Save current configurations into the permanent database, essentially Defining everything that has been configured so far using Set commands. Instead of issuing a Define for each Set command to make your changes permanent, you can just issue the Save command after you have configured the port, service, server or printer.

**NOTE:** You cannot save the login service; you must use Define Server Incoming to make it permanent.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Errors**
Save without a parameter is invalid.

**Parameters**

**IPsecurity**
Saves the current IPsecurity table.

**Menu**
Saves all menu items set up with Set Menu commands.

**Port**
Saves the settings for a selected port or all ports. If the Port parameter is used without the All or portnum keywords, the current port is saved.
Printer
Saves the current printer port settings. This option applies only to the EPS.

Server
Saves the current Server settings.

Service
Saves all entered Set Service commands for all local services or the named service. If used without the All or name parameters, the local service characteristics are saved.

SNMP
Saves all parameters associated with SNMP.

See Also
Set and Define, page 3-3.

12.45 Send

SEND command

Sends commands through the current Telnet or LAT session.

Applies To
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Parameters
command
The command can be one of the following:

Table 12-4: Send Command Strings

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Stands for</th>
</tr>
</thead>
<tbody>
<tr>
<td>AO</td>
<td>Abort Output (Telnet, LAT)</td>
</tr>
<tr>
<td>AYT</td>
<td>Are You There (Telnet, LAT)</td>
</tr>
<tr>
<td>BRK</td>
<td>Break (Telnet, LAT)</td>
</tr>
<tr>
<td>EC</td>
<td>Erase Character (Telnet)</td>
</tr>
<tr>
<td>EL</td>
<td>Erase Line (Telnet)</td>
</tr>
<tr>
<td>GA</td>
<td>Go Ahead (Telnet)</td>
</tr>
<tr>
<td>IP</td>
<td>Interrupt Process (Telnet, LAT)</td>
</tr>
<tr>
<td>NOP</td>
<td>No Operation (Telnet)</td>
</tr>
<tr>
<td>SYNCH</td>
<td>Synchronize (Telnet)</td>
</tr>
</tbody>
</table>

Examples
Local> SEND AYT
Local> SEND SYNCH

See Also
LAT and TCP/IP Connectivity, page 2-12.
12.46  Set/Define Dialback

{\texttt{SET DIALBACK username command}}

Configures the username/command pairs for the dialback handler. Each username is specified with a command string that is echoed to the serial port after that user logs in. If a modem is connected to the port, a user can dial into the ETS, enter his username, and then have the ETS log him out and call him back at a particular phone number.

**Applies To**  EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**  You must be the privileged user to use this command.

**Parameters**

- **username**  A text name, up to 16 characters long.

- **command**  A string of text, up to 30 characters long, that will be executed when the user connects to the ETS.

**Examples**  
Local> SET DIALBACK “robert” “atdt555-1234”

**See Also**  

12.47  Set/Define Hosts

See Set/Define Telnet Hosts, page 12-100.

12.48  Set/Define IPsecurity

{\texttt{SET IPSECURITY [ADDRESS] IPaddress \{ BOTH INCOMING OUTGOING PRINTING SLIP PORTS \} ENABLED \{ DISABLED \} \}}

This command is used to add or change entries in the IP security table. A port number of 0 is used to denote the virtual (incoming login) ports. Unless noted, IPsecurity features are disabled by default.

**Applies To**  EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**  You must be the privileged user to use this command.
Parameters

**IPaddress**
Specifies the IP address to restrict based on the additional parameters entered. The IP address can be a full IP address, such as 192.0.1.80. It can also be expressed as a partial address, such as 192.0.1.255, to restrict entire sub-networks.

An address with a 0 in any segment implies Incoming and Outgoing Disabled. An address with a 255 in any segment applies to all the addresses in that range.

**Both**
Restricts logins from the network into the server and Telnet sessions to the network from the server.

**Incoming**
Restricts logins from the network into the server, and connections to the serial port.

**Outgoing**
Restricts Telnet sessions to the network from the server.

**Ports portlist**
Restricts connections to this address from certain ports, and connections from this address to the specified ports. If a portlist is not specified, all physical and virtual ports apply.

**Printing**
Restricts TCP/IP printing for this address. The restriction applies to LPR and RTEL print connections, but not to direct port or service socket connections.

**SLIP**
Restricts SLIP sessions for the specified address or range of addresses.

Examples

Local> SET IPSEC ADDR 192.0.1.255 INC ENA OUT DIS

Local> SET IPSEC 134.0.1.255 Port 3,5-7

See Also

12.49 Set/Define Logging

HTTP://example.com

 Controls error and event logging on the ETS. A destination host must be defined before logging levels can be configured. If the host is disabled, the configured logging events will be saved, and will take effect when the host is re-enabled.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

- **Host hostname**
  Specifies the host to which event logs are sent. Hosts are specified by entering a hostname followed by one of the following: a double colon (:) for LAT hosts, a single colon (:) for TCP/IP hosts, a backslash (\) for NetWare file servers, or the word “console” if logging events are to be sent to a console terminal.

- **None**
  Clears any enabled event logs, and the log host name.

- **Commands**
  Logs all commands that users type.

- **Modem**
  Logs all incoming and outgoing modem activity, including modem jobs.

- **Network**
  Logs network events. This is useful when diagnosing network problems.

- **Printer**
  Logs printer-related activities (on-line/off-line conditions, job status, etc.).

- **Security**
  Logs authorization-related activity, such as user logins.

- **System**
  Logs system-related activity, including server boots and log file access.

**Examples**

Local> SET LOGGING HOST phred:
Local> SET LOG HOST CONSOLE COMMANDS ENABLED SECUR ENABLED

**See Also**
Show/Monitor/List Logging, page 12-101; Event Logging, page 4-20.
12.50 Set/Define Menu

```plaintext
SET DEFINE MENU {ItemNum String Command
TITLE TitleString}
```

Configures the menu and command strings for the menu handler. Each menu string is specified with a command string that is executed if the user selects that menu entry. Individual ports are placed in menu mode with the Define Port Menu command.

**NOTE:** It is recommended to alias a command to “Set Port Menu Disabled” if you want users to be able to leave menu mode and return to local mode. See Set/Define Port Menu on page 12-42 for more information.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
- **ItemNum**
  Enter a number from 1 to 32 that corresponds to the menu entry you are changing.
- **String**
  A text string, up to 32 characters long, that is shown to the users in the menu screen.
- **Command**
  The command, up to 32 characters long, that is executed when the user selects this entry.
- **TitleString**
  An optional title for the entire menu, up to 48 characters long.

**Examples**
```
Local> Set MENU 5 "show net nodes" "SHOW HOSTS"
```

**See Also**
Set/Define Port Menu, page 12-42; Show/Monitor/List Menu, page 12-101; Clear/Purge Menu, page 12-6; Menu Mode, page 5-15.

12.51 Set Noprivileged

Removes privileges from the current session. See Set Privileged/Noprivileged, page 12-54.
12.52 Define Port Access

```
DEFINE PORT [PortList/All] ACCESS {DYNAMIC|LOCAL|NONE|REMOTE}
```

Sets the type of connections allowed to the port.

**NOTE:** Autobaud must be disabled for Remote and Dynamic ports.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Errors**
If a port is active, its access cannot be changed.

**Parameters**

PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**Dynamic**
The port can both initiate and receive connection requests.

**Local**
The port may initiate connections to services, and only local logins are permitted. This is the default.

**Remote**
The port can accept network connection requests but no local logins are permitted.

**None**
The port is unusable.

**Examples**
Local> DEFINE PORT ACCESS LOCAL

**See Also**
Set/Define Port Autobaud, page 12-27; Show/Monitor/List Ports, page 12-103; Port Access, page 5-1.
12.53 Set/Define Port Authorized Groups

```
```

Adds (Enabled) or deletes (Disabled) groups from the list of service groups that are accessible to a port. Use service groups to restrict access to services on a per-port basis; the authorized groups are the only groups a port can see. When entries are specified without the Enabled/Disabled parameters, they replace the current group list.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
*PortList/All*
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

*All/*grouplist*
Group numbers range from 0 to 255. They can be listed individually (1, 3, 12) and by range (3-25, 110-112), with individual entries separated by a comma. The default is group 0 enabled, groups 1-255 disabled.

**Examples**
```
Local> SET PORT AUTHORIZED 0,2-5,101
```

**See Also**

12.54 Set/Define Port Autobaud

```
{ SET [DEFINE] PORT [PortList/ALL] AUTOBAUD { ENABLED [DISABLED] }
```

 Allows a port to detect the incoming baud rate and change its own baud rate to match it at login time. When Autobaud is set, you may have to press Return twice or more to allow the port to determine the baud rate. Autobaud must be disabled for Remote and Dynamic port access and for any port that offers a service.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.
Parameters

PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

NOTE: In the absence of a PortList or the All parameter, the configuration will affect the current port only.

Errors

Autobaud will not work for all parity/baud combinations—it will only function if the port is using either 8-bit characters with no parity or 7-bit characters with even parity, and for baud rates from 1200 through 38400.

Examples

Local> DEF PORT AUTOBAUD DISABLED

See Also

Define Port Access, page 12-26; Set/Define Port Speed, page 12-50; Show/Monitor/List Ports, page 12-103; Baud Rate, page 5-2.

12.55  Set/Define Port Autoconnect

Connects a port automatically to the preferred service (LAT or Telnet) upon login. You can still Break to local mode and use the Connect command to attach to other services. Autoconnect is disabled if there is no preferred service defined. Also, if both preferred LAT and preferred Telnet services have been set, the LAT connection will be attempted.

Applies To

EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Examples

Local> SET PORT AUTOCONNECT ENABLED

Parameters

PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

NOTE: In the absence of a PortList or the All parameter, the configuration will affect the current port only.

See Also

Set/Define Port Preferred, page 12-45; Show/Monitor/List Ports, page 12-103; Preferred Services and Hosts, page 5-4.
12.56 Set/Define Port Autoprompt

```
{ SET | DEFINE } PORT [PortList/ALL] AUTOPROMPT { ENABLED | DISABLED }
```

Automatically displays a login prompt upon connection to a LAT login service. If disabled, the user must press the <Return> key first. This option is not applicable to TCP/IP connections, which should always display a login prompt upon connection.

**Appplies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Parameters**
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**Examples**
Local> SET PORT AUTOPROMPT DISABLED

**See Also**
Show/Monitor/List Ports, page 12-103.

12.57 Set/Define Port Autostart

```
{ SET | DEFINE } PORT [PortList/ALL] AUTOSTART { ENABLED | DISABLED }
```

Determines whether the port will wait for the input of a carriage return before starting a connection. If enabled, the port will start automatically without waiting for a carriage return.

**Appplies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Caution**
A port enabled for autostart will not be idle unless DTR is held low, and therefore will not be available for connections from the network.

**Parameters**
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**Examples**
Local> SET PORT 4 AUTOSTART ENABLED

**See Also**
Set/Define Port Preferred, page 12-45; Show/Monitor/List Ports, page 12-103.
12.58 Set/Define Port Backward

\[
\begin{array}{l}
\text{\{} \text{SET} \\
\text{\{} \text{DEFINE} \text{\}} \text{\{} \text{PORT} \text{\}} \text{\{} \text{PortList} \text{\}} \\
\text{\{} \text{ALL} \text{\}} \text{\{} \text{BACKWARD} \text{\}} \text{\{} \text{SWITCH} \text{\}} \\
\text{\{} \text{character} \text{\}} \text{\{} \text{NONE} \text{\}}
\end{array}
\]

Allows the user to define a key that switches to the previous session without entering local mode. From local mode, typing the key functions as if the Backward command were entered.

**Applies To**

EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Parameters**

PortList/All

Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**character**

Any key can be specified, provided it does not conflict with the line editing, Forward, or Break keys. To specify a control character, hold down the control key while typing the letter, or precede the letter with a caret (^).

**None**

Clears any previously-configured forward switch character (none is configured by default).

**Examples**

Local> SET PORT BACKWARD SWITCH ^K

**See Also**

Backwards, page 12-4; Set/Define Port Forward, page 12-38; Show/Monitor/List Ports, page 12-103; Backwards and Forwards, page 6-7; Sessions, page 2-14.
12.59 Set/Define Port Bitronics

\[
\{ \text{SET} \} \text{PORT} \left[ PortList/All \right] \text{BITRONICS} \begin{cases} \text{ENABLED} \\ \text{DISABLED} \end{cases}
\]

Controls bidirectional parallel port functionality. The attached printer must also support Bitronics.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4P4, MPS, LPS

**Parameters**

PortList/All

Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**Examples**

Local> DEFINE PORT 2 BITRONICS ENABLED

**See Also**

Bitronics Interface, page 7-1.

12.60 Set/Define Port Break

\[
\{ \text{SET} \} \text{PORT} \left[ PortList/All \right] \text{BREAK} \begin{cases} \text{LOCAL} \\ \text{REMOTE} \\ \text{DISABLED} \end{cases}
\]

Determines where processing of the Break key will take place.

**Applies To**

EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Parameters**

PortList/All

Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**Examples**

Local> SET PORT BREAK REMOTE

**See Also**

Resume, page 12-19; Set/Define Port Local, page 12-40; Break, page 6-7.
12.61 Set/Define Port Broadcast

```
{ SET
 DEFINE } PORT [PortList
 ALL ] BROADCAST { ENABLED
 DISABLED }
```

Enables or disables other users’ broadcasts to this port. This would typically be set whenever extra messages are not desired on the port’s output device.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Parameters**
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**Examples**
```
Local> SET PORT BROADCAST DISABLED
```

**See Also**
Broadcast, page 12-4; Set/Define Server Broadcast, page 12-63; Show/Monitor/List Ports, page 12-103; Port Messages, page 5-12.

12.62 Set/Define Port Character Size

```
{ SET
 DEFINE } PORT [PortList
 ALL ] CHARACTER [SIZE] {7
 8 }
```

Sets the number of bits per character for the serial port. Character size defaults to 8 bits.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to change the character size of a port other than your own.

**Errors**
Autobaud will only work for 8 bits, or for 7 bits with Even parity.

**Parameters**
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**Examples**
```
Local> SET PORT CHARACTER SIZE 7
```

**See Also**
Set/Define Port Autobaud, page 12-27; Set/Define Port Parity, page 12-44; Set/Define Port Stop, page 12-50; Show/Monitor/List Ports, page 12-103; Parity, Character Size, and Stop Bits, page 5-4.
12.63 Set/Define Port Command Completion

\[
\begin{align*}
\{ \text{SET} \} & \text{ PORT } PortList \{ \text{COMMAND} \} \{ \text{COMPLETION} \} \{ \text{ENABLED} \} \\
\{ \text{DEFINE} \} & \text{ PORT } PortList \{ \text{COMMAND} \} \{ \text{COMPLETION} \} \{ \text{DISABLED} \}
\end{align*}
\]

Enables or disables the command completion feature. If enabled, the ETS will attempt to complete partially typed command words when the user presses the Space or Tab key. If the entry is ambiguous (or if the user types an option), the ETS will send a beep to the terminal.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Parameters**

- **PortList/All**
  Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**Examples**

Local> SET PORT COMMAND ENABLED

**See Also**

Show/Monitor/List Ports, page 12-103; Command Line Interface, page 1-3; Command Completion, page 12-1.

12.64 Set/Define Port Dedicated

\[
\begin{align*}
\{ \text{DEFINE} \} & \text{ PORT } PortList \{ \text{DEDICATED} \} \\
\{ \text{SERVICE} \} & ServiceName \{ \text{DESTINATION} \} Port \{ \text{ENVIRONMENT} \} EnvString \{ \text{NODE} \} NodeName \\
\{ \text{TELNET} \} & \{ \text{NONE} \} \\
\{ \text{RLOGIN} \} & hostname \{ \text{EnvString} \} \{ \text{NONE} \}
\end{align*}
\]

Dedicates a port to the desired service, or the desired Telnet or Rlogin host. Once logged into the port, a user is automatically connected to the service. The user cannot return to local mode or issue server commands. Upon exiting the remote service, the user is logged out of the ETS. Configuring any dedicated service or host will clear any preferred services or hosts.

**NOTE:** Dedicating a port will disable port verification. See Set/Define Port Verification on page 12-53 for more information.

An environment string can be part of the dedicated hostname; see the Environment Strings section of the Concepts chapter for more information. Note that via the environment string, a dedicated host can be connected to via Rlogin, not just Telnet.
**WARNING:** Defining dedicated connections on all the server’s ports is dangerous, as it leaves no easy way to log into the server. You must either connect via the NCP or Telnet console ports (see Chapter 2, *Concepts*), or enable incoming logins (see *Set/Define Server Incoming*, page 12-68).

**Applies To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**  
You must be the privileged user to use this command.

**Errors**  
An error is returned if the specified node cannot provide the service.

**Parameters**  
**PortList/All**
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

- **None**
  Clears any previously-defined dedicated service.

- **Service ServiceName**
  The port is dedicated to the specified service.

- **Destination port**
  Specifies a connection to a particular port on the dedicated host. This is desirable when more than one port offers the same service.

- **NodeName**
  Specifies a connection to a particular node on the dedicated host. This is desirable when more than one node offers the same service.

- **EnvString**
  Sets up the connection environment before the session is started. The string is constructed with a sequence of key letters, some of which are prefaced by either “+” or “-.” The generic key letters are:

<table>
<thead>
<tr>
<th>Letter</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Backspace Mode (+D) or Delete Mode (-D)</td>
</tr>
<tr>
<td>E</td>
<td>Local Echo Mode (+E) or Remote Echo Mode (-E)</td>
</tr>
<tr>
<td>I</td>
<td>Interactive Mode</td>
</tr>
<tr>
<td>P</td>
<td>Passall Mode (+P) or Passthru Mode (-P)</td>
</tr>
<tr>
<td>C</td>
<td>CR becomes CRLF (+C) or CR becomes LF (-C)</td>
</tr>
<tr>
<td>T</td>
<td>TCP Mode (raw uninterpreted data stream)</td>
</tr>
<tr>
<td>R</td>
<td>Rlogin protocol (sets port number to 513 if not already set)</td>
</tr>
<tr>
<td>U</td>
<td>UDP protocol</td>
</tr>
<tr>
<td>Q</td>
<td>Queued (RTEL) connection to the target</td>
</tr>
<tr>
<td>mnn</td>
<td>optional port number</td>
</tr>
</tbody>
</table>
Telnet hostname
Specify a Telnet host to use for the connection. Either a text host name or an IP address can be used. Environment strings can be added.

Rlogin hostname
Specify an Rlogin host to use for the Dedicated connection. Either a text host name or an IP address can be used.

Examples
Local> DEFINE PORT DEDICATED Fileserver NODE opus DESTINATION port_4
Local> DEFINE PORT 5 DEDICATED TELNET 192.0.1.221:+P

See Also
Set/Define Port Preferred, page 12-45; Set/Define Server Incoming, page 12-68; Show/Monitor/List Ports, page 12-103; Environment Strings, page 2-13; Preferred and Dedicated Connections, page 5-4.

12.65 Set/Define Port Dialback

Turning on Dialback causes the ETS to check the dialback table (see the Set Dialback command) each time a user logs in. If the given username is not in the table, the port is logged out. If it is in the table, the port is logged out, but the ETS sends the dialback string to the port and awaits a second login. Typically the dialback string will cause a modem attached to the port to call the user back at a certain telephone number for security reasons. Ports with dialback enabled have a 30-second time limit for entering the username when logging in.

NOTE: Enabling dialback automatically enables modem control, but disabling dialback does not automatically disable modem control.

Applies To
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Restrictions
You must be the privileged user to use this command.

Parameters
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

NOTE: In the absence of a PortList or the All parameter, the configuration will affect the current port only.

See Also
Clear/Purge Dialback, page 12-5; Show/Monitor/List Dialback, page 12-100; Show/Monitor/List Ports, page 12-103; Define Port Modem Control, page 12-42; Dialback, page 5-13.
12.66 Set/Define Port Dialup

\[
\begin{array}{c}
\{ \text{SET} \} \text{ PORT } [PortList/\text{ALL}] \text{ DIALUP } \{ \text{ENABLED} \} \\
\{ \text{DEFINE} \} \text{ PORT } [PortList/\text{ALL}] \text{ DIALUP } \{ \text{DISABLED} \}
\end{array}
\]

Sets the Dialup characteristic for a port. The ETS does not pay attention to this flag, but passes it on to the host for LAT connections. The remote host can use it appropriately.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
This command requires privileged status.

**Parameters**
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**
Show/Monitor/List Ports, page 12-103; Dialup, page 5-13.

12.67 Set/Define Port DSRlogout

\[
\begin{array}{c}
\{ \text{SET} \} \text{ PORT } [PortList/\text{ALL}] \text{ DSRLOGOUT } \{ \text{ENABLED} \} \\
\{ \text{DEFINE} \} \text{ PORT } [PortList/\text{ALL}] \text{ DSRLOGOUT } \{ \text{DISABLED} \}
\end{array}
\]

When enabled, the port will be logged out when the port’s DSR signal is dropped. This usually happens only when the attached terminal device is powered off or disconnected, and is intended to keep users from switching physical terminal lines to access other sessions. Any open connections will be closed before logging out.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**Errors**
When Modem Control is enabled for a port, DSRlogout is also enabled.

**See Also**
Define Port Modem Control, page 12-42; Set/Define Port Flow Control, page 12-37; Show/Monitor/List Ports, page 12-103; DSRlogout, page 5-16.
12.68 Set/Define Port DTRwait

If enabled, the ETS will not assert the DTR signal on the serial port until either a user logs into the port or the port is connected to via a service or Telnet connect. When the port is idle, DTR will not be asserted. DTRwait is disabled by default.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Errors**
Hardware flow control and DTRwait cannot be simultaneously active on six-wire terminal servers (the EPS4, ETS8, and ETS16 models). DTRwait also cannot be specified with Modem Control.

**Parameters**
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**
Define Port Modem Control, page 12-42; Set/Define Port Flow Control, page 12-37; Show/Monitor/List Ports, page 12-103; DTR (Data Terminal Ready), page 5-9; DTRwait, page 5-13.

12.69 Set/Define Port Flow Control

Sets the type of flow control on the port, and whether flow control should be enabled for the port. For example, you can set the type of flow control to DSR/DTR, but have it disabled when you don’t want flow control.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Errors**
On the EPS4, ETS4P4, ETS8, ETS8P, and ETS16, ETS16P, Modem Control and DSRlogout must be disabled if CTS/RTS or DTR/DSR flow control is selected.
### Parameters

**PortList/All**

Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

- **CTS**
  - Use CTS/RTS flow control.
- **Disabled**
  - Deactivates the configured flow control method.
- **DSR**
  - Specifies DSR/DTR flow control.
- **Enabled**
  - Specifies the configured flow control method.
- **None**
  - Specifies no flow control (removes a CTS, DSR, or XON setting).
- **XON**
  - Use XON/XOFF flow control.

### Examples

Local> SET PORT FLOW CONTROL DSR

### See Also

Show/Monitor/List Ports, page 12-103; Flow Control, page 5-2.

### 12.70 Set/Define Port Forward

```
{ SET \{ DEFINE \} } PORT \{ PortList \} ALL FORWARD \{ SWITCH \} \{ character \} \{ NONE \}
```

Defines a key which allows the user to switch to the next session without entering Local mode. In local mode, the forward key functions as if the Forward command had been typed.

**Applies To**

EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Parameters**

**PortList/All**

Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**Character**

Any key can be specified, provided it does not conflict with the line editing, Backward, or Break keys. To specify a control character, hold down the control key while typing the letter, or precede the letter with a caret (^).
None
Clears any previously-configured forward switch character (none is configured by default).

Examples
Local> SET PORT FORWARD SWITCH ^X

See Also
Set/Define Port Local, page 12-40; Set/Define Port Autostart, page 12-29; Forwards, page 12-12; Show/Monitor/List Ports, page 12-103; Sessions, page 2-14; Backwards and Forwards, page 6-7.

12.71 Set Port Groups

Limits which of the Authorized groups the port can access; the groups must already be in the Set Port Authorized Groups list. Group lists are applicable to LAT connections only. The only group enabled by default is group 0.

If the Enabled or Disabled modifiers are used, the group list is added to or removed from the current list. Otherwise, the group list given replaces the current one.

Applies To EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Parameters

PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

NOTE: In the absence of a PortList or the All parameter, the configuration will affect the current port only.

Examples
Local> SET PORT GROUPS 4,5-9

See Also
Set/Define Port Authorized Groups, page 12-27; Show/Monitor/List Ports, page 12-103; Group Numbers, page 5-12.
12.72 Set/Define Port Inactivity Logout

```
{ SET | DEFINE } PORT [ PortList | ALL ] INACTIVITY [ LOGOUT ] { ENABLED | DISABLED }
```

Enables automatic logout of the port if it has been inactive for a set period of time and logs out any open connections. Inactive is defined as having no keyboard or network activity on the port. The timer period is set with the Set/Define Server Inactivity Timer command.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**
Set/Define Server Inactivity Timer, page 12-67; Show/Monitor/List Ports, page 12-103; Inactivity Logout, page 5-17.

12.73 Set/Define Port Local

```
{ SET | DEFINE } PORT [ PortList | ALL ] LOCAL [ SWITCH ] { character | NONE }
```

Defines a key that allows the user to switch to Local mode from a remote connection. The local switch is especially useful for network connections into the ETS, where a local break key does not exist. It will function the same as the Break key, except that it will be ignored by the ETS if a session is set up as Passall or Passthru.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Parameters**
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.
Character
Any key can be specified, provided it does not conflict with the line editing, Backward, or Forward keys. To specify a control character, hold down the control key while typing the letter, or precede the letter with a caret (^).

None
Clears any previously-configured forward switch character (none is configured by default).

Examples
Local> SET PORT LOCAL ^V

See Also
Set/Define Port Break, page 12-31; Set Session Passall, page 12-96; Show/Monitor/List Ports, page 12-103; Session Management, page 6-7.

12.74 Set/Define Port Loss Notification

| Set/Define | PORT [PortList/All] LOSS [NOTIFICATION] {ENABLED | DISABLED} |

Sends the terminal device a Ctrl-G (Bell) when a typed character is lost due to a data error or an overrun on the ETS.

Applies To
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Parameters
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

NOTE: In the absence of a PortList or the All parameter, the configuration will affect the current port only.

See Also
Show/Monitor/List Ports, page 12-103; Other Port Characteristics, page 5-12.
12.75  Set/Define Port Menu

```plaintext
{ SET { DEFINE } } PORT [PortList] MENU { ENABLED } { DISABLED }
```

Specifies whether the port is given a finite choice of menu options to use after logging in (enabled), or is given the regular Local> prompt (disabled).

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command on ports other than your own.

**Parameters**
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**

12.76  Define Port Modem Control

```plaintext
DEFINE PORT [PortList] MODEM [CONTROL] { ENABLED } { DISABLED }
```

Specifies whether modem control lines are to be used. Modem Control must be disabled to use DSRlogout. Modem Control implies DSRlogout, in that the ETS will attempt to log out any connections if the port’s DSR signal drops.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS4, ETS8, ETS8P, ETS16, ETS16P

The EPS1, EPS2, EPS4, and ETS16 only support DSR/DTR. The other models support simultaneous DSR/DTR and RTS/CTS.

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**
Set/Define Port DSRlogout, page 12-36; Show/Monitor/List Ports, page 12-103; Modem Basics, page 5-7.
**12.77 Set/Define Port Name**

```
{ SET
  DEFINE }
PORT [PortList]
  ALL
NAME portname
```

Sets a unique name for each port. Remote LAT connections to the ETS can use either a service name or the port name to identify a port for connection purposes.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

- **PortList/All**
  Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

- **Portname**
  A 16 character name composed of alphanumeric characters or the underscore (\_) character. The default is `Port_n`, where `n` is the port number. If the name is not enclosed in quotation marks, it will be converted to uppercase.

**Examples**

- `Local> SET PORT NAME "HighSpeed_Modem"`

**See Also**
Show/Monitor/List Ports, page 12-103; Naming Ports, page 5-12.
12.78 Set/Define Port Parity

Sets the serial port’s parity. Using Mark or Space will change a port set for 8 bits character size to 7 bits automatically. Changing the parity back will not automatically change the character size.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Errors**
Autobaud will not work unless the port is using 8 bit characters, or 7 bit characters with Even parity.

**Parameters**
**PortList/All**
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**

12.79 Set/Define Port Passflow

Specifies whether the server will strip XON/XOFF characters from the data stream. If enabled, XON/XOFF characters, which may be needed for flow control, will be allowed to pass though to the remote device. Passflow is disabled by default.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Parameters**
**PortList/All**
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**
Software Flow Control (XON/XOFF), page 5-3.
12.80  Set/Define Port Password

\[
\{ \text{SET, DEFINE} \} \text{ PORT} \begin{cases} \text{PortList} \\ \text{ALL} \end{cases} \text{ PASSWORD} \begin{cases} \text{ENABLED} \\ \text{DISABLED} \end{cases}
\]

Controls whether a password is needed to log into the server from this port. The Set/Define Server Login Password command is used to set the password itself.

**Applies To**  
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**  
You must be the privileged user to use this command.

**Parameters**  
- **PortList/All**
- Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**  
Set/Define Server Login Password, page 12-71; Show/Monitor/List Ports, page 12-103; System Passwords, page 3-7; Password Restrictions, page 5-15.

12.81  Set/Define Port Preferred

\[
\{ \text{SET, DEFINE} \} \text{ PORT} \begin{cases} \text{PortList} \\ \text{ALL} \end{cases} \text{ PREFERRED} \begin{cases} \text{SERVICE ServiceName} \\ \text{ENVIRONMENT EnvString} \\ \text{DESTINATION Port} \\ \text{NODE NodeName} \end{cases} \\ \text{TELNET} \begin{cases} \text{hostname[EnvString]} \\ \text{NONE} \end{cases}
\]

Specifies a default service (either LAT or Telnet) for this port. The ETS will attempt to use the preferred service for Autoconnecting, and when no service name is specified in a Connect, Telnet, or Rlogin command. Note that via the environment string, a preferred host can be connected to via Rlogin, not just Telnet.

**Applies To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**  
You must be the privileged user to use this command.

**Parameters**  
- **PortList/All**
- Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).
NOTE: In the absence of a PortList or the All parameter, the configuration will affect the current port only.

None
Clears any previously-configured preferred host.

ServiceName
Specify a LAT service for the Preferred connection. The Service keyword is optional.

Destination port
Specifies a connection to a particular port on the dedicated host.

Node NodeName
Specifies a connection to a particular node on the dedicated host.

Environment EnvString
Sets up the connection environment before the session is started. The string is constructed with a sequence of key letters, some of which are preaced by either “+” or “-.” The generic key letters are:

<table>
<thead>
<tr>
<th>Letter</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Backspace Mode (+D) or Delete Mode (-D)</td>
</tr>
<tr>
<td>E</td>
<td>Local Echo Mode (+E) or Remote Echo Mode (-E)</td>
</tr>
<tr>
<td>I</td>
<td>Interactive Mode</td>
</tr>
<tr>
<td>P</td>
<td>Passall Mode (+P) or Passthru Mode (-P)</td>
</tr>
<tr>
<td>C</td>
<td>CR becomes CRLF (+C) or CR becomes LF (-C)</td>
</tr>
<tr>
<td>T</td>
<td>TCP Mode (raw uninterpreted data stream)</td>
</tr>
<tr>
<td>R</td>
<td>Rlogin protocol (sets port number to 513 if not already set)</td>
</tr>
<tr>
<td>U</td>
<td>UDP protocol</td>
</tr>
<tr>
<td>Q</td>
<td>Queued (RTEL) connection to the target</td>
</tr>
<tr>
<td>(nnn)</td>
<td>optional port number</td>
</tr>
</tbody>
</table>

Telnet hostname
Specify a Telnet host to use for the Preferred connection. Either a text host name or an IP address can be used. Environment strings can be added.

Examples
Local> SET PORT PREFERRED Vax5
Local> SET PORT PREFERRED TELNET 192.0.1.3:+C+D
Local> SET PORT PREFERRED TELNET TODD

See Also
Connect, page 12-9; Rlogin, page 12-20; Set/Define Port Autoconnect, page 12-28; Set/Define Port Dedicated, page 12-33; Telnet, page 12-114; Show/Monitor/List Ports, page 12-103; Environment Strings, page 2-13; Preferred Services and Hosts, page 5-4.
12.82  Set/Define Port Queue

\[
\{ \begin{array}{c}
SET \\
DEFINE \\
\end{array}\} \, \text{PORT} \, \left[ \begin{array}{c}
\text{PortList} \\
\text{ALL} \\
\end{array}\right] \, \text{QUEUE} \, \left[ \begin{array}{c}
\text{ENABLED} \\
\text{DISABLED} \\
\end{array}\right]
\]

Determines whether the port will be “queued” when it requests a connection to a LAT service that is busy. If queueing is enabled, the connection will be accepted in the order in which it was received by the target node. If queueing is disabled, the connection will be rejected.

**Applies To**  
 EPS2P2, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**  
 You must be the privileged user to use this command.

**Parameters**  
 PortList/All  
 Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**  

12.83  Set/Define Port Remote Configure

\[
\{ \begin{array}{c}
SET \\
DEFINE \\
\end{array}\} \, \text{PORT} \, \left[ \begin{array}{c}
\text{PortList} \\
\text{ALL} \\
\end{array}\right] \, \text{REMOTE \{CONFIGURE\}} \, \left[ \begin{array}{c}
\text{ENABLED} \\
\text{DISABLED} \\
\end{array}\right]
\]

Controls whether actions on a remote LAT/VMS host are allowed to affect the local port on the ETS. If this feature is enabled, the VMS Set Term/Speed command, for instance, will change the terminal server port (using LAT) to the specified speed.

**Applies To**  
 EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**  
 You must be the privileged user to use this command.

**Parameters**  
 PortList/All  
 Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**  
 Show/Monitor/List Ports, page 12-103.
12.84 Set/Define Port Security

Restricts a port’s access to terminal commands and its ability to get information about other ports.

Applies To
- EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Restrictions
You must be the privileged user to use this command.

Parameters
- PortList/All
  Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

NOTE: In the absence of a PortList or the All parameter, the configuration will affect the current port only.

See Also
- Show/Monitor/List Ports, page 12-103; Security, page 5-14.

12.85 Set/Define Port Session Limit

Limits the number of active sessions on a port. The maximum allowed sessions on any one port cannot exceed the server session limit (8).

NOTE: To view the server session limit, enter the Show Server command.

Applies To
- EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Restrictions
You must be the privileged user to use this command.

Parameters
- PortList/All
  Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

NOTE: In the absence of a PortList or the All parameter, the configuration will affect the current port only.

- limit
  Ports can have 0 to 8 sessions. The default limit is 4 sessions.
  - None
    Allows the maximum number of sessions allowed on the server.

See Also
12.86 Set/Define Port Signal Check

\[
\left\{ \begin{array}{c}
\text{SET} \\
\text{DEFINE}
\end{array} \right\} \text{PORT } \left\{ \begin{array}{c}
\text{PortList} \\
\text{ALL}
\end{array} \right\} \text{SIGNAL } \left\{ \begin{array}{c}
\text{CHECK} \\
\text{ENABLED} \\
\text{DISABLED}
\end{array} \right\}
\]

Determines whether or not the port will check for the DSR signal when remote connections are made. If this feature is enabled, remote connections to the port will not be permitted unless the DSR signal is asserted. If this command is specified on a parallel port, the parallel status lines will be decoded to determine if the printer is attached and on-line.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**
Show/Monitor/List Ports, page 12-103; DSR for Controlling Remote Logins, page 5-8.

12.87 Set/Define Port SLIP

\[
\left\{ \begin{array}{c}
\text{SET} \\
\text{DEFINE}
\end{array} \right\} \text{PORT } \left\{ \begin{array}{c}
\text{PortList} \\
\text{ALL}
\end{array} \right\} \text{SLIP } \left\{ \begin{array}{c}
\text{ENABLED} \\
\text{DISABLED} \\
\text{DEDICATED}
\end{array} \right\}
\]

Determines whether the port will be able to start SLIP sessions with the Set SLIP command. Define SLIP Port n implicitly enables SLIP on the port.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**
Clear/Purge SLIP, page 12-8; Set/Define SLIP, page 12-96; Show/List SLIP, page 12-111; Show/Monitor/List Ports, page 12-103; Serial Line Internet Protocol (SLIP), page 2-9; SLIP, page 4-7.
### 12.88 Set/Define Port Speed

<table>
<thead>
<tr>
<th>Command</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>SET/DEFINE PORT [PortList/ALL] SPEED BaudRate</td>
<td></td>
</tr>
</tbody>
</table>

Configures what baud rate will be used for connections to and from this port.

**Applies To**
- EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
- PortList/All
  - Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

  **NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

- BaudRate
  - Acceptable baud rates include 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200.

**Examples**
Local> DEFINE PORT 7-8 SPEED 9600

**See Also**
- Set/Define Port Autobaud, page 12-27; Show/Monitor/List Ports, page 12-103; Baud Rate, page 5-2.

### 12.89 Set/Define Port Stop

<table>
<thead>
<tr>
<th>Command</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>SET/DEFINE PORT [PortList/ALL] STOP {1</td>
<td>2}</td>
</tr>
</tbody>
</table>

Configures whether the port will use 1 or 2 stop bits. The default is 1.

**Applies To**
- EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
- PortList/All
  - Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

  **NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**
- Set/Define Port Parity, page 12-44; Set/Define Port Character Size, page 12-32; Show/Monitor/List Ports, page 12-103; Parity, Character Size, and Stop Bits, page 5-4.
12.90 Set/Define Port Telnet Pad

```
{ SET
 DEFINE } PORT [PortList
 ALL ] TELNET [PAD ] [ ENABLED
 DISABLED ]
```

Determines whether the server will automatically pad carriage returns with null characters during Telnet sessions. It is enabled by default.

**Applies To**

EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**

You must be the privileged user to use this command.

**Parameters**

- **PortList/All**
  Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**See Also**

Show/Monitor/List Ports, page 12-103; Other TCP/IP Parameters, page 4-5.

12.91 Set/Define Port Termtype

```
{ SET
 DEFINE } PORT [PortList
 ALL ] TERMTYPE [TermString
 NONE ]
```

Specifies a terminal type for the port. This terminal type is reported to the destination node in Telnet and Rlogin commands, and is a completely arbitrary string.

**Applies To**

EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Parameters**

- **PortList/All**
  Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**TermString**

Up to 16 characters long, converted to all uppercase unless enclosed in quotes.

**None**

Clears the terminal type field. No type is configured by default.

**Examples**

Local> DEF Port 7 TERMTYPE “vt100”

**See Also**

Show/Monitor/List Ports, page 12-103; Terminal Type, page 5-14.
12.92  Set/Define Port Type

```
{ SET
  DEFINE }
PORT [PortList]
ALL
TYPE { ANSI
  SOFTCOPY
  HARDCOPY }
```

Describes the type of device connected to the port.

**Applies To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Parameters**  
**PortList/All**  
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.

**ANSI**  
VT100-compatible devices.

**Softcopy**  
VT100 without clear screen or cursor controls (the default).

**Hardcopy**  
Deleted characters are echoed between backslashes; there is no cursor movement.

**See Also**  
Show/Monitor/List Ports, page 12-103; Other Port Characteristics, page 5-12.

12.93  Set/Define Port Username

```
{ SET
  DEFINE }
PORT [PortList]
ALL
USERNAME { username
  NONE }
```

Specifies a username for the port. When a username is defined, users will not be asked to enter a username when logging in to the port.

**Applies To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Parameters**  
**PortList/All**  
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

**NOTE:** In the absence of a PortList or the All parameter, the configuration will affect the current port only.
username
Usernames can be up to 16 characters long. The name is converted to all uppercase unless it is enclosed in quotes.

None
Removes any previously-configured username. No username is configured by default.

Examples
Local> SET PORT USERNAME "Ted Smith" COMMAND COMPLETION ENABLED

See Also
Show/Monitor/List Ports, page 12-103; Naming Ports, page 5-12.

12.94 Set/Define Port Verification

```
{ SET | DEFINE } PORT [ PortList | ALL ] VERIFICATION { ENABLED | DISABLED }
```

Determines whether the server will issue informational messages whenever a session is connected, disconnected, or switched. It is disabled by default.

NOTE: Dedicating a port will disable port verification. See Set/Define Port Dedicated on page 12-33 for more information.

Applies To
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Restrictions
You must be the privileged user to enter this command for a port other than your own (the current port).

Parameters
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

NOTE: In the absence of a PortList or the All parameter, the configuration will affect the current port only.

See Also
Show/Monitor/List Ports, page 12-103; Other Port Characteristics, page 5-12; Port Messages, page 5-12.
12.95 Set Privileged/Noprivilged

Changes the current port’s privilege status, provided the correct privileged password is entered. The factory default privileged password is `system`; this password can be changed with the Set Server Privileged Password command. If the password is forgotten, the server can be reset to factory defaults.

**NOTE:** Only one port on the server can be privileged at any time.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**

The user must know the privileged password. Secure users cannot become privileged.

**Parameters**

Override

Forces the current port to become the privileged port; the previously privileged port loses the privilege.

**Examples**

Local> SET Noprivileged
Password> system (not echoed)

Local> SET PRIVILEGED OVERRIDE
Password> system (not echoed)

**See Also**


12.96 Define Protocols AppleTalk

Enables or Disables the AppleTalk protocol on the server, and allows placement of the ETS into a zone other than the default when there is more than one available AppleTalk zone.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS

**Restrictions**

You must be the privileged user to use this command.

**Errors**

If the zone specified cannot be confirmed by a router, the command will fail.

Enabled and Disabled must be configured with Define.

**Examples**

Local> DEFINE PROTOCOL APPLETALK ZONE "AcctZone"

**See Also**

Show/Monitor/List Protocols, page 12-104; AppleTalk Server Parameters, page 4-2.
12.97 Define Protocols IP

Enables or Disables the IP protocol, and allows configuration of other IP parameters. Some parameters may be duplicates of Set Server commands; the functionality is identical. See the Set Server commands for descriptions of the parameters not explained here.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**

You must be the privileged user to use this command.

**Errors**

Enabled/Disabled parameters must be defined.

**Parameters**

TCPKeepalive

Controls whether the ETS will send TCP keepalive messages. It is enabled by default, and should remain enabled unless you are absolutely sure you want to disable it.

Timeserver

Controls whether the ETS will send IP daytime request packets. It is enabled by default.

**See Also**

12.98 Define Protocols LAN Manager

```
DEFINE PROTOCOLS LANMAN { ENABLED | DISABLED }
```

Enables or Disables the LAN Manager protocol.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**
*LAN Manager*, page 2-3.

12.99 Set/Define Protocols LAT

```
{ SET | DEFINE } PROTOCOLS LAT { ENABLED | DISABLED | LicenseString }
```

Enables or Disables the LAT protocol, and allows the server administrator to enter the string needed to enable LAT functionality.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Errors**
Enabled/Disabled parameters must be defined.

**Parameters**

- **LicenseString**
The license string, used to enable LAT functionality on the unit, can be obtained by calling Lantronix. It is not required for the MPS or MSS.

**NOTE:** Because the LAT license string is stored in NVR, it must be re-entered after resetting the unit to factory defaults or restoring NVR.

**See Also**
*LAT*, page 2-4.
12.100 Define Protocols NetWare

Enables or Disables the NetWare protocol.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**See Also** NetWare, page 2-13.

12.101 Set/Define Protocols NetWare Access

Allows configuration of a list of file servers that the ETS will contact for print jobs. By default, only file servers on the local network will be queried; this command can be used to add or remove additional file servers.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

- **All**
  All file servers will be contacted, including those on routed networks.

- **fileserver**
  An individual file server to be queried. The name can be up to 8 characters long.

- **Local**
  Only file servers on the local network will be queried.

**Examples**
Local> DEFINE PROTOCOLS NETWARE ACCESS LAB_FS4

**See Also**
Show/Monitor/List Protocols, page 12-104; NetWare Server Parameters, page 4-4.
12.102 Define Protocols NetWare DSCONTEXT

```
DEFINE PROTOCOLS NETWARE DSCONTEXT context
```

Configures the NetWare Directory Service context where the print server is located.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**

You must be the privileged user to use this command.

**Parameters**

`context`

Specify the NDS context where the print server is located. For more information about the format of the NDS context and tree, see your host documentation.

**Examples**

```
Local>> DEFINE PROTOCOLS NETWARE DSCONTEXT
ou=kiwi.ou=exotic.o=fruit
```

**See Also**

Creating NDS Print Queues, page 10-2.

12.103 Define Protocols NetWare DSlicense

```
DEFINE PROTOCOLS NETWARE DSLICENSE LicenseString
```

Configures the NetWare Directory Service license needed to enable NDS on the server.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**

You must be the privileged user to use this command.

**Parameters**

`LicenseString`

Enter the license string obtained from Lantronix to enable NDS on your server.

**See Also**

Creating NDS Print Queues, page 10-2.
12.104 Define Protocols NetWare DStree

**DEFINE PROTOCOLS NETWARE DSTREE** *treeString*

Configures the NetWare Directory Service tree in which the server is located.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
*treeString*
Specify the NDS tree using up to 47 alphanumeric characters.

**Examples**
Local>> DEFINE PROTOCOLS NETWARE DSTREE foodco

**See Also**
Creating NDS Print Queues, page 10-2.

12.105 Set/Define Protocols NetWare Encapsulation

<table>
<thead>
<tr>
<th>SET</th>
<th>DEFINE</th>
<th>PROTOCOLS NETWARE ENCAPSULATION</th>
<th>802_2</th>
<th>ETHER_II</th>
<th>ENABLED</th>
<th>DISABLED</th>
</tr>
</thead>
</table>

In conjunction with the **Set Protocol NetWare Routing** command, this command configures which frame types the ETS will pay attention to. When routing is enabled, all frame types are enabled; any undesired frame types may then be disabled with this command. When routing is disabled, all frame types are disabled; the desired single frame type may then be enabled using this command.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
802_2
The server uses 802.2 frame format with NetWare SAPs.

Ether_II
The server uses Ethernet v2 frame format.

Native
The server uses “native mode” NetWare frame format.

Snap
The server uses 802.2 frame format with SNAP SAPs.

**Examples**
Local> DEFINE PROTOCOLS NETWARE ENCAPSULATION ETHER_II DISABLED

**See Also**
Show/Monitor/List Protocols, page 12-104; Set/Define Protocols NetWare Routing, page 12-62; NetWare Server Parameters, page 4-4.
12.106  Set/Define Protocols NetWare Internal

```
{ SET [DEFINE] } PROTOCOLS NETWARE INTERNAL [NETWORK] netnum
```

Sets the internal network number for the server. This number becomes the server’s address when routing packets between nodes speaking different NetWare frame types. Under normal circumstances, the default internal network number should not have to be changed.

**Applies To**
- EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
- **netnum**
  - A non-zero network number of up to eight hexadecimal digits in length.

**Examples**
Local>> DEFINE PROTOCOLS NETWARE INTERNAL a3cc0850

**See Also**
- Set/Define Protocols NetWare Routing, page 12-62; Show/Monitor/List Protocols, page 12-104; NetWare Server Parameters, page 4-4.

12.107  Set/Define Protocols NetWare Loadhost

```
{ SET [DEFINE] } PROTOCOLS NETWARE LOADHOST { fileserver NONE }
```

Specifies the name of the fileserver to attempt to download from when the unit is booted. This parameter is only useful if it is defined; if it is Set, it will be cleared/reset at boot time.

**Applies To**
- EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
- **fileserver**
  - The fileserver name can be up to 8 characters long. The null string (""") returns the setting to undefined.

- **None**
  - Clears the previously-configured loadhost.

**Examples**
Local> DEFINE PROTOCOLS NETWARE LOADHOST LAB_FS4

**See Also**
- Set/Define Server NetWare Loadhost, page 12-73; Set/Define Server Software, page 12-81; NetWare Server Parameters, page 4-4.
12.108 Set/Define Protocols NetWare Printserver

\[
\{\text{SET} \left\{\begin{array}{c}
\text{DEFINE} \\
\end{array}\right\} \text{PROTOCOLS NETWARE PRINTSERVER} \left\{\begin{array}{c}
\text{printserver} \\
\text{NONE} \\
\end{array}\right\}}
\]

Configure the fileserver to which the ETS will be dedicated for Rprinter operation.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

- **printserver**
  The printserver name can be up to 8 characters long. The null string (" ") returns the setting to undefined.
  
- **None**
  Clears the previously configured printserver.

**Examples**
Local> DEFINE PROTOCOLS NETWARE PRINTSERVER LAB_FS4

**See Also**
Set/Define Server NetWare Printserver, page 12-74.

12.109 Set Protocols NetWare Reset

\[
\{\text{SET} \left\{\begin{array}{c}
\text{DEFINE} \\
\end{array}\right\} \text{PROTOCOLS NETWARE RESET}}
\]

Instructs the Print Server module to immediately rescan the network for new connections. This is typically necessary when setting up queues or print servers using PCONSOLE.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**
*Installing a Print Queue Using PCONSOLE*, page 10-5.
12.110  Set/Define Protocols NetWare Routing

{  
  SET
  DEFINE
}  PROTOCOLS  NETWARE  ROUTING  {  ENABLED
  DISABLED  
}

Configures whether the ETS will act as an internal router. If routing is enabled, the ETS advertises all of its NetWare services as part of an internal network and itself as a “router” to that network.

Turning routing on enables all frame types. Turning routing off disables all frame types; you must then enable the single desired frame type using the Set/Define Protocols NetWare Encapsulation command. Routing must be enabled if more than one frame type is desired.

Appplies To  
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions  
You must be the privileged user to use this command.

See Also  
Set/Define Protocols NetWare Encapsulation, page 12-59; Set/Define Protocols NetWare Internal, page 12-60; Show/Monitor/List Protocols, page 12-104; Routing and Encapsulation, page 4-4.

12.111  Set/Define Server Announcements

{  
  SET
  DEFINE
}  SERVER  ANNOUNCEMENTS  {  ENABLED
  DISABLED  
}

Governs whether the ETS will send service advertising messages and MOP remote console announcements over the network.

Appplies To  
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions  
You must be the privileged user to use this command.

See Also  
Enabling Announcements, page 4-2.
12.112 Set/Define Server BOOTP

```
{ SET \underline{DEFINE} \{ \{ SERVER BOOTP \{ ENABLED \} \} \} \} \}
```

Enables or disables querying for a BOOTP host at system boot time.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**
Set/Define Server RARP, page 12-77; Editing the Boot Parameters, page 3-6.

12.113 Set/Define Server Broadcast

```
{ SET \underline{DEFINE} \{ \{ SERVER BROADCAST \{ ENABLED \} \} \} \} \}
```

Enables or disables broadcasts from Local mode to the server’s serial ports.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**See Also**
Broadcast, page 12-4; Set/Define Port Broadcast, page 12-32; Port Messages, page 5-12.

12.114 Set/Define Server Buffering

```
{ SET \underline{DEFINE} \{ \{ SERVER BUFFERING \{ \} \} \} \} \}
```

Specifies the size of buffer (in bytes) to use for network connections. The default, 512 bytes, should be sufficient for most cases. The size can be increased for large data transfers, for example, file transfers or printing.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
buffersize
Acceptable buffer sizes range from 128 bytes to 4096 bytes.

**Examples**
```
Local> SET SERVER BUFFERING 1024
```
12.115  Set/Define Server Circuit Timer

```
{ SET
 DEFINE } SERVER CIRCUIT [TIMER] TimerValue
```

Specifies the delay between LAT messages transmissions from the server to other nodes. This setting should not need to be changed under normal circumstances, and should never be altered while there are active sessions.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

- **TimerValue**
  Specify a timer value from 30 to 200 milliseconds. The default is 80 milliseconds.

**Examples**
Local> SET SERVER CIRCUIT TIMER 55

**See Also**
LAT, page 2-4; Network Timers, page 4-3.

12.116  Set/Define Server Console

```
{ SET
 DEFINE } SERVER CONSOLE [PORT] PortNum
```

Specifies which of the server’s ports acts as the console port. The console receives all error messages and is the only port that is enabled at boot time. Note that changing the console port settings (such as baud rate or parity) while the server is in operational mode will also change the boot mode settings.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

- **PortNum**
  Enter a port number from 1 to the total number of ports.

**Examples**
Local> SET SERVER CONSOLE 5

**See Also**
Set/Define Port Character Size, page 12-32; Set/Define Port Parity, page 12-44; Set/Define Port Speed, page 12-50; Serial Configuration, page 5-2; Installation Guide.
12.117 Set/Define Server Domain

```
{ SET
  DEFINE }
SERVER DOMAIN DomainName
```

Specifies the default domain name to use when attempting to resolve text TCP/IP host names.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
**DomainName**
The maximum length for domain names is 64 characters.

**Examples**
Local> SET SERVER DOMAIN weasel.ctcorp.com

**See Also**

12.118 Set/Define Server Dump

```
{ SET
  DEFINE }
SERVER DUMP ENABLED
```

Enables or disables upload dumping of a memory file to a VMS host either when a serious error occurs or when signalled by a remote NCP request or Crash command.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**See Also**
Crash 451, page 12-11.

12.119 Set/Define Server Gateway

```
{ SET
  DEFINE }
SERVER [SECONDARY] GATEWAY IPAddress
```

Specifies the host to be used as a TCP/IP gateway between networks. Packets destined for a different network will be directed to the gateway for forwarding.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.
Set/Define Server Groups Command Reference

Errors
If no gateway is defined, an error message is returned.

Parameters
Secondary
If desired, a secondary gateway can be configured for use when the primary gateway is unavailable.

IPaddress
Enter an IP address in standard numeric format. Specifying "0.0.0.0" as the address clears any previously-defined setting.

Examples
Local> SET SERVER GATEWAY 192.0.1.27
Local> SET SERVER SECONDARY GATEWAY 192.0.1.10

See Also

12.120 Set/Define Server Groups


12.121 Set/Define Server Host Limit

Configures the maximum number of TCP/IP hosts about which the server will keep information. Only hosts seen with rwho broadcasts are subject to this limit.

Applies To
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions
You must be the privileged user to use this command.

Parameters
limit
The server can be limited to between 0 and 200 hosts. The default is 20 hosts.

If the new limit is less than the current limit and the host table is full, the host limit will be slowly graduated down to the new value.

None
No limit is imposed.

Examples
Local> SET SERVER HOST LIMIT 6

See Also
Clear/Purge Hosts, page 12-5; Show/Monitor/List Hosts, page 12-100; Show/Monitor/List Protocols IP, page 12-104; Host Limit, page 4-7.
12.122 Set/Define Server Identification

\[ \{ \text{SET} \text{ DEFINE} \} \text{ SERVER IDENTIFICATION } IDstring \]

Specifies the identification string that is broadcast along with LAT service messages. The identification string is also broadcast as the ident string for a LAT login service.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
IDstring
Enter up to 40 characters of identification data in quotes.

**Examples**
Local> SET SERVER IDENTIFICATION “Googol Company LAT Box”

**See Also**

12.123 Set/Define Server Inactivity Timer

\[ \{ \text{SET} \text{ DEFINE} \} \text{ SERVER INACTIVITY } \{ \text{TIMER} \} \text{ limit} \]

Sets the period of time after which a port with Inactivity Logout enabled is considered inactive and automatically logged out.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
limit
Enter the desired inactivity period in minutes. The default is 30 minutes. MSS users may specify seconds.

**NOTE:** MSS users may specify seconds.

**Examples**
Local> DEFINE SERVER INACTIVITY LIMIT 20

**See Also**
Set/Define Port Inactivity Logout, page 12-40; Show/Monitor/List Server, page 12-108; Inactivity Logout, page 5-17.
12.124 Set/Define Server Incoming

Allows or denies incoming LAT or Telnet connections and enforces password protection, if desired. The Show Server command shows the status of incoming connection parameters.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

- **LAT**
  Enables incoming LAT connections only, and creates a new LAT service that is used to log into the server.

- **Telnet**
  Enables incoming Telnet connections only. The status of incoming Telnet also controls incoming Rlogin sessions from remote hosts. It also removes any LAT- or Both-created service and the ability to log in using LAT.

- **Both**
  Enables incoming LAT and Telnet connections, and creates a new LAT service that is used to log into the server.

- **None**
  Disables incoming LAT and Telnet connections (the default). It also removes any LAT- or Both-created service and the ability to log in using LAT.

- **Nopassword**
  Allows the establishment of incoming connections without prompting for a password (the default).

- **Password**
  Causes the server to prompt for a password for all incoming connections.

**Examples**
Local> SET SERVER INCOMING TELNET INCOM PASSW
(set up password protected Telnet logins)

**See Also**
12.125 Set/Define Server IPaddress

\[
\{ \text{SET} \atop \text{DEFINE} \} \text{SERVER IPADDRESS } \text{IPaddress}
\]

Sets the server’s IP network address. The IP address must be set before any TCP/IP connectivity is available (i.e., Telnet, Rlogin, and Reverse Telnet) and cannot be changed when there are active TCP/IP sessions. A default subnet mask will also be created when you set the IP address; it can be overridden with the Set Server Subnet Mask command.

**NOTE:** If the IP address is cleared after a reboot but List Server still shows the address, there is some other node on the network responding to that IP address.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4, EPS4P1, EPS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
\text{IPaddress}
Enter the address in standard numeric format.

**Examples**
Local> SET SERVER IPADDRESS 192.0.1.49

**See Also**

12.126 Set/Define Server Keepalive Timer

\[
\{ \text{SET} \atop \text{DEFINE} \} \text{SERVER KEEPALIVE[TIMER]time}
\]

Sets the period between “hello” messages on active, but quiet, LAT sessions.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
\text{time}
Enter the time period in seconds.

**Examples**
Local> SET SERVER KEEPALIVE TIMER 30

**See Also**
Show/Monitor/List Server, page 12-108; Network Timers, page 4-3.
### 12.127 Set/Define Server Loadhost

```
{SET
[DEFINE]}
SERVER [SECONDARY] LOADHOST IPaddress
```

Specifies the TCP/IP host from which the ETS requests its runtime code. For LAT-loading servers, this command has no function.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

- **Secondary**
  Allows you to specify a backup loadhost for use when the primary load-host is unavailable.

- **IPaddress**
  Specify the address in standard numeric format. Specifying “0.0.0.0” as the address clears the previously-defined loadhost. No text host names can be used.

**Examples**

```
Local> DEFINE SERVER LOADHOST 193.23.71.49

Local> DEFINE SERVER SECONDARY LOADHOST 192.0.1.89
```

**See Also**
Editing the Boot Parameters, page 3-6; Show/Monitor/List Server, page 12-108; Chapter 11, *UNIX Host Setup*.

### 12.128 Set/Define Server Lock

```
{SET
[DEFINE]}
SERVER LOCK [ENABLED | DISABLED]
```

Controls whether or not local users are permitted to Lock their ports. When a port is locked, the active session or connection cannot be used until the port is unlocked. This is desirable when you want to leave a console running, possibly with privileged status enabled, without having to worry about security considerations.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**See Also**
Lock, page 12-15; Enabling Server-Wide Port Characteristics, page 4-1; Locking a Port, page 5-16.
12.129 Set/Define Server Login Password

```
{ SET  
  DEFINE  
} SERVER LOGIN [PASSWORD][passwd]
```

Specifies the password that is used to log into the server from a serial port or the network. If the password is not given on the command line, the user will be prompted for it; it will not be displayed when typed. Users will only be required to provide this password if their ports also have Port Password enabled.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

```
 passwd
```

Enter a password of up to 6 alphabetic characters.

**Examples**

```
Local> SET SERVER LOGIN PASSWORD
Password> platyp (not echoed)
Verification> platyp (not echoed)
Local>
```

**See Also**
Set/Define Port Password, page 12-45; Login Password, page 3-8.

12.130 Set/Define Server Maintenance Password

```
{ SET  
  DEFINE  
} SERVER MAINTENANCE [PASSWORD][passwd]
```

Specifies the password that allows remote NCP connections to the server. The maintenance password is only used by the MOP protocol itself; it is not needed for user-level logins.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

```
 passwd
```

A string of up to sixteen hexadecimal digits (0-9, A-F, a-f) that defaults to all zeros (off). Zero is also NCP’s default.

**Examples**

```
Local> DEFINE SERVER MAINTENANCE PASSWORD 89aacb
```

**See Also**
Maintenance Password, page 3-8.
12.131 Set/Define Server Multicast Timer

```
{ SET DEFINE } SERVER MULTICAST[TIMER] timer
```

Specifies the length of time between ETS service announcement broadcasts for LAT circuits. This parameter should not need to be changed under normal circumstances.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
timer
Enter an interval between multicast, ranging from 10 to 180 seconds. The default is 30 seconds.

**Examples**
Local> SET SERVER MULTICAST TIMER 40

**See Also**
Show/Monitor/List Server, page 12-108; LAT, page 2-4; Network Timers, page 4-3.

12.132 Set/Define Server Name

```
{ SET DEFINE } SERVER NAME ServerName
```

Specifies the name of the ETS.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
ServerName
For terminal servers (ETS models), enter a string of up to 16 alphanumeric characters. For print servers (EPS, MPS, and LPS models), the server name is restricted further by service name constraints. Print service names, typically `servername_text` or `servername_p1`, may be no more than 16 characters including the suffix.

**NOTE:** The server name string must be enclosed in quotes to preserve case.

**Examples**
Local> SET SERVER NAME “LATbox2”

**See Also**
Show/Monitor/List Server, page 12-108; Changing the Server Name, page 3-4.
12.133 Set/Define Server Nameserver

```plaintext
{ SET | DEFINE } SERVER [SECONDARY] NAMESERVER IPAddress
```

Specifies the IP address of the name server used for TCP/IP connections, if any. This host will attempt to resolve text Telnet hostnames into numeric form if the local host table cannot do so.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

- **Secondary**
  Allows you to specify a backup nameserver for when the primary nameserver is unavailable.

- **IPAddress**
  Enter the network address of the nameserving host in standard numeric IP format. Specifying “0.0.0.0” as the address clears the previously-defined nameserver.

**Examples**
Local> SET SERVER NAMESERVER 192.0.1.49
Local> SET SERVER SECONDARY NAMESERVER 192.0.1.34

**See Also**

12.134 Set/Define Server NetWare Loadhost

```plaintext
{ SET | DEFINE } SERVER NETWARE LOADHOST { ServerName | NONE }
```

Used to specify the name of the NetWare file server to be used for downloading new software.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

- **ServerName**
  Enter a file server name of up to 11 characters. The null string (“””) returns the setting to undefined.

- **None**
  Clears the previously-configured loadhost.

**Examples**
Local> SET SERVER NETWARE LOADHOST FRED

**See Also**
Set/Define Protocols NetWare Loadhost, page 12-60; Show/Monitor/List Protocols NetWare, page 12-104; Editing the Boot Parameters, page 3-6.
12.135  Set/Define Server NetWare Printserver

\[
\begin{align*}
\text{SET} & \quad \text{DEFINE} & \quad \text{SERVER NETWARE PRINTSERVER} \quad \{ServerName\} \\
\text{NONE} & & \\
\end{align*}
\]

Used to specify the name of the print server VAP/NLM running on the NetWare file server. This is necessary when setting up the ETS as an RPRINTER client.

**Applies To**
- EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
- You must be the privileged user to use this command.

**Parameters**
- **ServerName**
  - Enter a print server name of up to 8 characters. The null string (""") returns the setting to undefined.
  - **None**
    - Clears the previously-configured setting.

**Examples**
- Local> SET SERVER NETWARE PRINTSERVER FRED

**See Also**
- Set/Define Protocols NetWare Printserver, page 12-61; Show/Monitor/List Protocols NetWare, page 12-104.

12.136  Set Server NetWare Reset

\[
\text{SET SERVER NETWARE RESET}
\]

Instructs the Print Server module to immediately rescan the network for new connections. This is typically necessary when setting up queues or print servers using PCONSOLE.

**Applies To**
- EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
- You must be the privileged user to use this command.

**Examples**
- Local> SET SERVER NETWARE RESET

**See Also**
- Set Protocols NetWare Reset, page 12-61; Show/Monitor/List Protocols NetWare, page 12-104.
12.137  Set/Define Server Node Limit

\[
\begin{align*}
\{ \text{SET} \} & \text{ SERVER NODE [LIMIT]} \{ \text{limit} \} \\
\{ \text{DEFINE} \} & \text{ SERVER NODE [LIMIT]} \{ \text{NONE} \}
\end{align*}
\]

Sets the maximum number of LAT service nodes about which the server will keep information. If the new limit is less than the current limit and the service table is full, the number of nodes will be slowly pruned down to the new value.

**Applies To**  
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**  
You must be the privileged user to use this command.

**Parameters**  
limit  
The server can be limited to between 0 and 200 hosts. The default is 50 nodes.

None  
No limit is imposed.

**Examples**  
Local> SET SERVER NODE LIMIT 6

**See Also**  

12.138  Set/Define Server Password Limit

\[
\begin{align*}
\{ \text{SET} \} & \text{ SERVER PASSWORD [LIMIT]} \{ \text{limit} \} \\
\{ \text{DEFINE} \} & \text{ SERVER PASSWORD [LIMIT]} \{ \text{NONE} \}
\end{align*}
\]

Limits the number of failures allowed when entering the privileged password while attempting to become the privileged user. After this number of tries, the port will be logged out. The user can abort the password process by pressing Ctrl-Z instead of typing the password.

**Applies To**  
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**  
You must be the privileged user to use this command.

**Parameters**  
limit  
A value between 0 and 100. If 0 is specified, the port is never logged out for too many password failures. The default is 3 retries.

None  
Changes the retry limit to 0 (no limit).

**Examples**  
Local> SET SERVER PASSWORD LIMIT 10

**See Also**  
12.139 Set/Define Server Privileged Password

\[
\begin{align*}
\{ & \text{SET} \\
\{ & \text{DEFINE} \} \text{ SERVER PRIVILEGED[PASSWORD]}[\text{passwd}] \\
\end{align*}
\]

Sets the password for becoming the privileged user or “superuser” of the server. If the password is not specified on the command line, the user will be prompted for it (it will not be displayed).

Applies To: EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions: You must be the privileged user to use this command.

Parameters: passwd
Enter a password of up to 6 alphanumeric characters.

Examples: Local> SET SERVER PRIVILEGED PASSWORD “yodel”

See Also: Set Privileged/Noprivileged, page 12-54; Set/Define Server Password Limit, page 12-75; System Passwords, page 3-7.

12.140 Set/Define Server Prompt

\[
\begin{align*}
\{ & \text{SET} \\
\{ & \text{DEFINE} \} \text{ SERVER PROMPT PromptString} \\
\end{align*}
\]

Allows the system administrator to change the prompt that users see (the default is Local_x>).

Applies To: EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions: You must be the privileged user to use this command.

Parameters: PromptString
The string may be up to 16 characters long, and should be enclosed in quotes to preserve case. The following variables can be included in the prompt string:

Table 12-7: Server Prompt Building Blocks

<table>
<thead>
<tr>
<th>String</th>
<th>Substituted Value</th>
<th>String</th>
<th>Substituted Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>%p</td>
<td>port name</td>
<td>%C</td>
<td>manufacturer name (Lantronix)</td>
</tr>
<tr>
<td>%n</td>
<td>port number</td>
<td>%D</td>
<td>product name (ETS, EPS, MPS)</td>
</tr>
<tr>
<td>%s</td>
<td>server name</td>
<td>%P</td>
<td>“&gt;” to denote privileged user</td>
</tr>
<tr>
<td>%S</td>
<td>session name</td>
<td>%%</td>
<td>%</td>
</tr>
</tbody>
</table>
12.141 Set/Define Server Queue Limit

Limits the number of queue entries for users waiting for a local service. If connect requests come in after the limit is reached, they will be rejected.

Applies To
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions
You must be the privileged user to use this command.

Parameters
limit
A value between 0 and 32 (the default). If 0 is specified, queueing is not allowed and only the user with possession of the service may use it.

None
There will be no limit except for the server’s memory constraints.

Examples
Local> DEFINE SERVER QUEUE LIMIT 4

See Also
Show/Monitor/List Server, page 12-108; Show/Monitor Queue, page 12-107.

12.142 Set/Define Server RARP

Enables or disables querying for a RARP host at system boot time.

Applies To
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions
You must be the privileged user to use this command.

See Also
Set/Define Server BOOTP, page 12-63; Editing the Boot Parameters, page 3-6.
12.143  Set/Define Server Reload

\[
\begin{align*}
\{ & \text{SET} \\
\{ & \text{DEFINE} \\
\} & \text{SERVER RELOAD} \\
\{ & \text{ALWAYS} \\
\} & \text{DEFAULT}
\end{align*}
\]

Specifies when to reload the code in the flash ROM.

**Applies To**
- EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
- You must be the privileged user to use this command.

**Parameters**
- **Always**
  - The server will reload flash each time it boots.
- **Default**
  - The server will only reload flash when told to do so (the default).

**See Also**

12.144  Set/Define Server Retransmit Limit

\[
\begin{align*}
\{ & \text{SET} \\
\{ & \text{DEFINE} \\
\} & \text{SERVER RETRANSMIT} [\text{LIMIT}] \text{ RetransLimit}
\end{align*}
\]

Specifies the number of retries attempted if a network message receives no acknowledgment. This limit may need to be increased on especially noisy or heavily-used networks.

**Applies To**
- EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, MPS, LPS

**Restrictions**
- You must be the privileged user to use this command.

**Parameters**
- **RetransLimit**
  - Enter a value between 4 and 100. The default is 50 retries.

**Examples**
- Local> SET SERVER RETRANSMIT LIMIT 5

**See Also**
- Show/Monitor/List Protocols, page 12-104; Network Timers, page 4-3.
12.145  Set/Define Server Rlogin

Restricts the use of the RLOGIN command from the server to other hosts. If Rlogins are disabled, users may not RLOGIN to remote hosts, but incoming Rlogin connections are still permitted.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**

12.146  Set/Define Server Service Groups

Establishes the LAT group numbers of the services provided by this server, and whether groups should be added to the list (Enabled) or removed from the list (Disabled).

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
All
All group numbers are provided or disabled.

**GroupList**
Adds to or subtracts from the server’s list of group numbers. Group numbers range from 0 to 255, and can be entered one at a time. In addition, ranges can be separated with dashes, and multiple entries can be separated by commas. Group 0 is the only group enabled by default.

**Enabled**
The given group numbers are added to the server’s list of service groups.

**Disabled**
The given group numbers are removed from the server’s list of service groups.

**Examples**
Local> DEFINE SERVER SERVICE GROUPS 2,5,6,8-44 ENABLED
Local> SET SERVER SERVICE GROUPS ALL DISABLED

**See Also**
12.147  Set/Define Server Session Limit

\[
\begin{align*}
\left\{ \text{SET} \atop \text{DEFINE} \right\} \text{SERVER SESSION [LIMIT]} \left\{ \text{limit} \atop \text{NONE} \right\}
\end{align*}
\]

Sets a server-wide limit for active sessions per port. Each port can have an individual limit less than or equal to this limit.

**Applies To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**  
You must be the privileged user to use this command.

**Parameters**  
**limit**  
Enter a value between 0 and 8. The default limit is 4 sessions.

**Examples**  
Local> SET SERVER SESSION LIMIT 2

**See Also**  
Set/Define Port Session Limit, page 12-48; Show/Monitor Sessions, page 12-111; Show/Monitor/List Server, page 12-108; Enabling Server-Wide Port Characteristics, page 4-1.

12.148  Define Server Silentboot

\[
\begin{align*}
\left\{ \text{SET} \atop \text{DEFINE} \right\} \text{SERVER SILENBOOT} \left\{ \text{ENABLED} \atop \text{DISABLED} \right\}
\end{align*}
\]

Causes the unit to attempt to boot without sending any status messages to the console port (unless there are errors). By default, the server prints status messages.

**Applies To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**  
You must be the privileged user to use this command.

**See Also**  
Show/Monitor/List Server, page 12-108; Editing the Boot Parameters, page 3-6.
12.149 Set/Define Server SLIP Password

```
{ SET | DEFINE } SERVER SLIP [ PASSWORD ] { passwd | NONE }
```

Configures the password required to start SLIP mode on a port. If the password is not provided on the command line, the server will prompt the user to enter it.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
- **passwd**
  Enter a password of up to 6 alphanumeric characters. Entering a null string (""") disables the password.
- **None**
  Clears any previously-entered password, removing the password restriction from SLIP connections (the default).

**Examples**
```
Local> SET SERVER SLIP PASSWORD beano
```

**See Also**
Clear/Purge SLIP, page 12-8; Set/Define SLIP, page 12-96; Show/List SLIP, page 12-111; **SLIP**, page 4-7.

12.150 Set/Define Server Software

```
{ SET | DEFINE } SERVER SOFTWARE filename
```

Specifies the name of the download software file (if any) that the server will attempt to load at boot time. For IP- or LAT-loading hosts, this is the file that will be requested at boot time. For TFTP loading, you can also specify the complete pathname of the file if it is located in a directory other than the default.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
- **filename**
  Enter the desired loadfile name of up to 11 characters or path of up to 26 characters. The server will add the "SYS" extension to the filename. File names and paths should be placed in quotes to preserve case.

**Examples**
```
Local> DEFINE SERVER SOFTWARE ETS
Local> DEFINE SERVER SOFTWARE "SYS:\LOGIN\PS1.SYS"
Local> DEFINE SERVER SOFTWARE "/tftpboot/tcode"
```
12.151  Set/Define Server Startupfile

{SET
{DEFINE
} SERVER STARTUPFILE

{host:filename
node::filename
node\sys\login\filename
NONE

[RETRY num]

Configures the startup configuration file that the ETS will attempt to download at boot time. This file contains the ETS commands that will configure the server before any users and services are started. If a text hostname is used for TFTP, the name must be resolvable at boot time, otherwise you must use an IP address.

Both the Telnet and NCP consoles are available at the time the server attempts to download the startupfile; if there is a problem with the download, you can still log into the server and determine what went wrong.

Applies To      EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions   You must be the privileged user to use this command.

Parameters

host:filename
Used to load from a TCP/IP host via TFTP. Enter a TCP/IP hostname or IP address followed by a colon and a startup file name of up to 11 characters long.

node::filename
Used to load from a VAX machine via LAT. Enter the nodename followed by two colons and the startup file name of up to 11 characters long.

node\sys\login\filename
Used to load from a Novell fileserver. Enter a node name, path, and startup filename of up to 11 characters long.

None
Clears any previously configured startupfile name, host, and retry setting.

Retry num
Specifies how many times to retry the download attempt. If zero is specified, the server will retry indefinitely until the startupfile is read.

Examples

Local> DEFINE SERVER STARTUPFILE "bob:start" RETRY 6
Local> DEFINE SERVER START hevax::start.com
Local> DEFINE SERVER STARTUPFILE engfs\sys\login\start.cmd"

See Also      Set/Define Server Loadhost, page 12-70; Reloading Operational Software, page 3-6; Installation Guide.
12.152 Set/Define Server Subnet Mask

```plaintext
{ SET
  DEFINE } SERVER SUBNET [MASK] mask
```

Sets an IP subnet mask for the server, or overrides the subnet automatically created when the IP address was configured for the server. The mask is applied to target IP addresses to determine whether the destination address is on the local network segment. If it is not, the server’s gateway host will be accessed to provide the connection.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
`mask`
Enter a mask in numeric IP format. A 0 in any bit position prevents that bit from passing while a 1 in any bit position allows the bit to pass through.

**Examples**
Local> SET SERVER SUBNET MASK 255.255.192.0

**See Also**

12.153 Set/Define Server UUCP

```plaintext
{ SET
  DEFINE } SERVER UUCP { ENABLED } { DISABLED }
```

Determines whether the ETS will use the UUCP handler. If enabled, the ETS will listen to TCP/IP port 540 and attempt to connect any logins there to a service called “UUCP” (typically a serial line with an attached modem).

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Errors**
If a UUCP service does not exist, the connection will be closed.

**See Also**
UUCP Support, page 2-11.
12.154 Set/Define Service

`{ SET DEFINE } SERVICE ServiceName`

Creates a local service. A maximum of 16 services may be configured for the ETS. Additional service parameters are discussed in the following pages.

**NOTE:** Services have no default parameters; all options must be configured manually.

**Applies To**
- EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**

- **ServiceName**
  For the ETS and EPS, enter a service name of up to 14 alphanumeric characters. For the MPS and LPS, enter a service name of up to 12 alphanumeric characters. The default service name is based on the server name.

**NOTE:** The Set/Define Service options do not necessarily apply to virtual sessions. See Set/Define Service Virtual on page 12-94 for more information.

**See Also**
- Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110; Creating Services, page 4-13.

12.155 Set/Define Service AppleTalk

`{ SET DEFINE } SERVICE ServiceName APPLE TALK { ENABLED DISABLED }`

Specifies whether AppleTalk clients will be able to use the service. If enabled, the service name will be displayed as a selectable printer in Macintosh chooser screens.

**Applies To**
- EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**
- Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110; Enabling Other Service Options, page 4-16; Macintosh Service Configuration, page 7-2.
12.156 Set/Define Service Banner

```
{ SET DEFINE } SERVICE ServiceName BANNER { ENABLED DISABLED }
```

Specifies whether the ETS will print a banner page before starting a print job. Banners should be disabled (the default) for all PostScript and plotter (binary) data.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**
Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110; Enabling Other Service Options, page 4-16.

12.157 Set/Define Service Binary

```
{ SET DEFINE } SERVICE ServiceName BINARY { ENABLED DISABLED }
```

If the binary characteristic is enabled on a service, there will be no data processing (<CR> to <CR> <LF> translation and tab expansion). The binary characteristic should be enabled when printing PCL data.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**
Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110; Enabling Other Service Options, page 4-16.
12.158 Set/Define Service Default

Configures which of the MPS default services are enabled, and which service, if any, has DLC enabled. If a particular default service is disabled, it will not be created at boot time. If it is enabled, it will be created, but will not prevent the use of any other custom services.

NOTE: The default service names (MPS_xxxxxx_PCL, MPS_xxxxxx_PS, and MPS_xxxxxx_TEXT) are based on the server name; if you wish to change the server name, be sure to choose a name of up to 12 characters.

Applies To
MPS

Restrictions
You must be the privileged user to use this command.

Parameters

DLC
Sets this service as the handler for Windows NT DLC print connections. Only one MPS service can have DLC enabled.

PCL
Enables or disables the MPS_xxxxxx_PCL service, which accommodates binary print jobs (for example, plotter or PCL files).

POSTSCRIPT
Enables or disables the MPS_xxxxxx_PS service, which accommodates PostScript print jobs.

TEXT
Enables or disables the MPS_xxxxxx_TEXT service, which accommodates text print jobs.

Examples
Local>> DEFINE SERVICE DEFAULT DLC POSTSCRIPT
Local>> DEFINE SERVICE DEFAULT PCL DISABLED

See Also
Set/Define Server Name, page 12-72; Set/Define Service DLC, page 12-87; Creating Services, page 4-13; Installation Guide.
12.159  Set/Define Service DLC

```
{ SET
  DEFINE
} SERVICE ServiceName DLC
{ ENABLED
  DISABLED
}
```

Specifies that the service will handle DLC print requests from Windows NT hosts. Note that only one service on the ETS can have DLC enabled at any time.

**Applies To**  
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**  
You must be the privileged user to use this command.

**See Also**  
Clear/Purge Service, page 12-7; Set/Define Service Default, page 12-86; Show/Monitor/List Services, page 12-110; Enabling Other Service Options, page 4-16; DLC, page 8-1.

12.160  Set/Define Service EOJ

```
{ SET
  DEFINE
} SERVICE ServiceName EOJ
{ EndString
  NONE
}
```

Specifies a string to be sent to the attached device at the end of every job regardless of network protocol.

**Applies To**  
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**  
You must be the privileged user to use this command.

**Parameters**  
EndString
Any ASCII characters, or non-ASCII characters entered as a backslash and 2 hex digits (for example, \45). The combined length of the SOJ and EOJ strings must not exceed 62 characters.

None
Clears any previously-configured string. No string is configured by default.

**See Also**  
Clear/Purge Service, page 12-7; Set/Define Service SOJ, page 12-92; Show/Monitor/List Services, page 12-110.
12.161 Set/Define Service Formfeed

\[
\begin{align*}
\{ \text{SET} & \} \quad \text{SERVICE } ServiceName \quad \text{FORMFEED} \quad \{ \text{ENABLED} & \} \\
\{ \text{DEFINE} & \} \quad \text{SERVICE } ServiceName \quad \text{FORMFEED} \quad \{ \text{DISABLED} & \}
\end{align*}
\]

Determines whether the ETS will append a formfeed to the end of any LPR print jobs.

**Applies To**
- EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**See Also**
- Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110; Enabling Other Service Options, page 4-16.

12.162 Set/Define Service Identification

\[
\begin{align*}
\{ \text{SET} & \} \quad \text{SERVICE } ServiceName \quad \text{IDENTIFICATION} \quad \{ IDstring \} \\
\{ \text{DEFINE} & \} \quad \text{SERVICE } ServiceName \quad \text{IDENTIFICATION} \quad \{ \text{NONE} \}
\end{align*}
\]

Specifies an identification string for this service to be sent by the server in multicast messages.

**Applies To**
- EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
- You must be the privileged user to use this command.

**Parameters**
- **IDstring**
  - Enter up to 40 characters of identification information. Enclose the string in quotes to preserve case and spaces.
  - **None**
    - Clears any previously-configured IDstring.

**Examples**
- Local> SET SERVICE pplab5 IDENT "Printer for Lab 5"

**See Also**
- Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110.
12.163  Set/Define Service LAN Manager

```
{ \{ SET
  DEFINE \} SERVICE ServiceName LANMANAGER \{ ENABLED
  DISABLED \} }
```

Enables or disables LAN Manager (NetBIOS) access to the specified service.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**
Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110; NetBIOS, page 8-3.

12.164  Set/Define Service LAT

```
{ \{ SET
  DEFINE \} SERVICE ServiceName LAT \{ ENABLED
  DISABLED \} }
```

Enables or disables LAT access to the specified service. LAT must be licensed to use LAT functionality.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**
Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110; Printing to a Service, page 9-3.

12.165  Set/Define Service NetWare

```
{ \{ SET
  DEFINE \} SERVICE ServiceName NETWARE \{ ENABLED
  DISABLED \} }
```

Enables or disables NetWare access to the specified service.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**
Clear/Purge Service, page 12-7; Netstat, page 12-17; Set/Define Protocols NetWare Access, page 12-57; Show/Monitor/List Services, page 12-110.
12.166 Set/Define Service Password

\[
\{\text{SET, DEFINE}\} \text{ SERVICE } \text{ServiceName} \text{ PASSWORD } \{\text{passwd, NONE}\}
\]

Specifies an access password that users must enter to connect to the service. If the password is not given on the command line, the user will be prompted for it.

Applies To
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions
You must be the privileged user to use this command.

Parameters
passwd
Choose a password of up to 6 alphanumeric characters.

None
Clears any previously-configured password for the given service.

Examples
Local> DEFINE SERVICE lab5 PASSWORD “this”

See Also
Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110.

12.167 Set/Define Service Ports

\[
\{\text{SET, DEFINE}\} \text{ SERVICE } \text{ServiceName} \text{ PORTS } \{\text{PortList, ALL, ENABLED, DISABLED}\}
\]

Specifies a list of ports that will support or offer this service. If Enabled or Disabled is specified, the ports listed will be added or removed from the port list, respectively. If neither option is given, the ports listed will replace the old list. Ports offering a service must be in the correct access mode for connections to succeed.

Applies To
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions
You must be the privileged user to use this command.

Parameters
PortList/All
Specifies a particular port or group of ports, or all ports. Port numbers are specified with integers between 1 and the total number of physical ports. Lists of ports must be separated by commas. Ranges of ports must be separated by a dash (-).

Examples
Local> SET SERVICE lab5 PORTS 3,4,7-8 ENABLED

See Also
Clear/Purge Service, page 12-7; Define Port Access, page 12-26; Show/Monitor/List Services, page 12-110; Creating Services, page 4-13.
12.168 Set/Define Service PostScript

```
{ SET DEFINE } SERVICE ServiceName POSTSCRIPT { ENABLED DISABLED }
```

Determines how the ETS will handle PostScript print jobs. If enabled, the ETS will assume there is a PostScript printer attached to the service port(s) and try to ensure a job is done before starting another. It will send a small PostScript job to the printer before the user data to “force” the printer into PostScript mode.

At the end of each job it will wait for the printer to signal that the job was completed. If this is not done, slower printers may lose jobs as new jobs overwrite a previous job which is still being interpreted. Enabling PostScript mode is strongly recommended for all PostScript queues.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**
Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110; Enabling Other Service Options, page 4-16.

12.169 Set/Define Service PSConvert

```
{ SET DEFINE } SERVICE PSConvert { ENABLED DISABLED }
```

Controls whether the ETS will place a PostScript wrapper around each job (enabled). The ETS will try to detect if it is already a PostScript job, in which case it would not add an additional wrapper.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**See Also**
Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110.
12.170 Set/Define Service RTEL

```
SET
DEFINE
SERVICE ServiceName RTEL {ENABLED | DISABLED}
```

Enables or disables TCP/IP access to the specified service.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**
Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110; Reverse Telnet (RTEL), page 2-11.

12.171 Set/Define Service SOJ

```
SET
DEFINE
SERVICE ServiceName SOJ {StartString | NONE}
```

Specifies a string to be sent to the attached device at the start of every access regardless of network protocol.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**Parameters**
- **StartString**
  Any ASCII characters, or a backslash and two hex digits.
- **None**
  Clears any previously-configured string. No string is configured by default.

**Examples**
Local>> DEFINE SERVICE myserv SOJ \45

**See Also**
Clear/Purge Service, page 12-7; Set/Define Service EOJ, page 12-87; Show/Monitor/List Services, page 12-110.
12.172 Set/Define Service TCPport

```
{ SET [ DEFINE ] } SERVICES ServiceName TCPPORT { portnum | NONE }
```

Specifies a TCP listener socket for this service. TCP connections to the socket are accepted or rejected based on the availability of the service.

Applies To
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions
You must be the privileged user to use this command.

Parameters
- `portnum`
  Enter a socket number between 4000 and 4999.
  - `NONE`
  Clears any previously-defined TCPport. No TCPport is configured by default.

NOTE: Either a TCPport or a Telnetport may be configured for a service, but not both.

See Also
Clear/Purge Service, page 12-7; Set/Define Service Telnetport, page 12-93; Show/Monitor/List Services, page 12-110; TCP/Telnet Service Sockets, page 4-15.

12.173 Set/Define Service Telnetport

```
{ SET [ DEFINE ] } SERVICE ServiceName TELNETPORT { portnum | NONE }
```

Specifies a TCP listener socket for this service. TCP connections to the socket are accepted or rejected based on the availability of the service. Unlike the TCPport option, a Telnetport socket will perform Telnet IAC negotiations on the data stream.

Applies To
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions
You must be the privileged user to use this command.

Parameters
- `portnum`
  Enter a socket number of 4000 to 4999.
  - `NONE`
  Clears any previously-configured Telnetport. No Telnetport is configured by default.

NOTE: Either a TCPport or a Telnetport may be configured for a service, but not both.

See Also
Clear/Purge Service, page 12-7; Set/Define Service TCPport, page 12-93; Show/Monitor/List Services, page 12-110; TCP/Telnet Service Sockets, page 4-15.
12.174 Set/Define Service Virtual

```
{ SET
  DEFINE } SERVICE ServiceName VIRTUAL { ENABLED
  DISABLED }
```

Creates a LAT “service” from a TCP/IP hostname. When LAT users connect to this proxy service, they are given a Telnet session with the specified host.

**NOTE:** The Disabled option currently does nothing; use Clear/Purge Service on page 12-7 instead.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use this command.

**Errors**
If the host is not reachable or resolvable at connection time, the connect attempt will fail.

**Parameters**

**ServiceName**
The hostname to which LAT users will connect, up to 16 characters long. An identification string showing it is a Telnet connection to the host will be added if not specified.

**Examples**
Local> SET SERVICE hydra VIRTUAL ENABLED

**See Also**
Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110; LAT and TCP/IP Connectivity, page 2-12.

12.175 Set Session Delete

```
SET SESSION DELETE { DELETE
  BACKSPACE }
```

Allows you to change what is sent to the remote TCP/IP host when you press the Delete key. This command has no effect in Local mode or on LAT sessions, nor does it have any effect if Passthru or Passall is in effect. This command and the Set Session Newline command may be helpful if you are getting odd output from a Telnet session.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Errors**
An error is returned if no sessions are active.

**Parameters**

**Delete**
Sends a delete character (ASCII 0x7f) when the Delete key is pressed.

**Backspace**
Sends a backspace character (ASCII 0x8, Ctrl-H) when the Delete key is pressed.

**Examples**
Local> SET SESSION DELETE BACKSPACE

**See Also**
Set Session Newline, page 12-95; Set Session Passall, page 12-96; Set Session Passthru, page 12-96.
12.176 Set Session Echo

SET SESSION ECHO { ENABLED | DISABLED }

Requests that the ETS perform local echoing for TCP connections. The default is Disabled, on the assumption that the remote host will provide echoing.

Applies To EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

12.177 Set Session Interactive

SET SESSION INTERACTIVE

Allows ETS to interpret server-specific keys (Forward, Backward, and Local) and messages.

Applies To EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

See Also Set Session Passall, page 12-96; Set Session Passthru, page 12-96; Chapter 6, User Sessions.

12.178 Set Session Newline

SET SESSION NEWLINE { CR | LF | CRLF }

Changes what is sent to the remote service when you press the newline key (usually Return). This command has no effect when in Local mode or LAT sessions; nor does it have any effect if Passthru or Passall are in effect. This command and the Set Session Delete command may be helpful if you are getting odd output from a Telnet session.

Applies To EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Parameters

- **CR**
  Send carriage returns (ASCII 0xA) only.

- **LF**
  Send linefeeds (ASCII 0xD) only.

- **CRLF**
  Send both carriage returns and linefeeds.

Examples

```
SET SESSION NEWLINE CRLF
```

See Also Set/Define Port Telnet Pad, page 12-51; Set Session Delete, page 12-94; Set Session Passall, page 12-96; Set Session Passthru, page 12-96; Connecting to Telnet Hosts, page 6-4.
### 12.179  Set Session Passall

```
SET SESSION PASSALL
```

Disables server interpretation of switch characters, messages, and XON/XOFF flow control. It is often used for binary file transfers, such as executable files and graphics.

**Applies To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**See Also**  
Set Session Interactive, page 12-95; Set Session Passthru, page 12-96.

### 12.180  Set Session Passthru

```
SET SESSION PASTHRU
```

Disables server interpretation of switch characters and server messages, but not XON/XOFF flow control. It is often used for ASCII file transfers.

**Applies To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**See Also**  
Set Session Interactive, page 12-95; Set Session Passall, page 12-96.

### 12.181  Set/Define SLIP

Set SLIP and Define SLIP do very different things, so they will be discussed separately. Set SLIP can only initiate a SLIP session on your port. The remote IP address and any options can be set on the command line or obtained from any server or port SLIP defaults. Define SLIP is used to configure default SLIP parameters for the server as well as set up permanent SLIP sessions for particular ports.

Keep two things in mind when initiating SLIP sessions:

- When SLIP interpretation begins, the Local> prompt will no longer be accessible unless the port is logged out.
- Once started, each SLIP connection is not affected by the Set command—you must log out of the port to end the SLIP session or to change connection options.
12.181.1 Set SLIP

Initiates a SLIP connection. The IP address of the remote SLIP host and the MTU and Broadcast parameters are optional; the server SLIP defaults will be used if they are not specified. An IP address must be present, either on the Set SLIP command line or in the Define SLIP tables.

Applies To

- EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Parameters

Broadcast

Specifies whether broadcast IP packets will be forwarded to the remote SLIP host. There are three choices for Broadcast: Enabled, Disabled, and Default. The Default setting takes its value from the SLIP defaults; if none is set, it defaults to Disabled.

MTU

Specifies the SLIP connection’s Maximum Transfer Unit (maximum packet size) in bytes. Lower mtuval settings give less retransmission but are also less efficient.

IPaddress

Enter the numeric IP address of the desired host.

Examples

Local> Set SLIP IPADD tunafish MTU 500
Local> Set SLIP [uses all defaults]

See Also

- Clear/Purge SLIP, page 12-8; Set/Define Server SLIP Password, page 12-81; Show/List SLIP, page 12-111; Serial Line Internet Protocol (SLIP), page 2-9; SLIP, page 4-7.
12.181.2 Define SLIP

Configures SLIP defaults to be used when a user doesn’t explicitly specify options in the Set SLIP command, or permanent SLIP connections for particular ports.

**Applies To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**  
You must be the privileged user to use this command.

**NOTE:** Define SLIP Port n implicitly does a Define Port n SLIP Enabled.

**Parameters**

**Default**  
Specifies default SLIP settings to be used for the port. These settings can be overridden by user-specified options, or when the Force option is Set.

**Port**  
Specifies SLIP options that are intended to affect the port specified with the `portnum` parameter, or the current port (when no `portnum` is given).

**Autostart**  
If enabled, the port will treat all serial input as SLIP packets and will run SLIP until the port is logged out. The port will then remain idle until reactivated. If disabled, any defined parameters will be treated as defaults for that particular port.

**Broadcast**  
Specifies whether broadcast IP packets will be forwarded to the remote SLIP host. There are three choices for Broadcast: Enabled, Disabled, and Default. The Default setting takes its value from the SLIP defaults; if none is set, it defaults to Disabled.
### Force
Controls whether the SLIP defaults will take precedence over options in the Set SLIP command line. Choose Enabled, Disabled, or Default. If enabled, the defaults will take priority; if disabled, the Set SLIP command line options will take precedence over the defaults.

### MTU
Specifies the SLIP connection’s Maximum Transfer Unit (maximum packet size) in bytes. Lower mtuval settings give less retransmission but are also less efficient.

### IPaddress
Sets the default host to use for SLIP connections when the Set SLIP command is entered. Enter the desired host’s numeric IP address.

#### Examples
```
Local> Define SLIP Port 5 IPAD 192.0.1.100 MTU 500
Local> Define SLIP DEFAULT MTU RFC BROADCAST ENABLED FORCE ENABLED
```

#### See Also
Clear/Purge SLIP, page 12-8; Set/Define Server SLIP Password, page 12-81; Show/List SLIP, page 12-111; Serial Line Internet Protocol (SLIP), page 2-9; SLIP, page 4-7.

### 12.182 Set/Define SNMP

```
{ SET DEFINE } SNMP COMMUNITY PUBLIC ACCESS { BOTH | NONE | READ }
```

Configures a community name and access mode for SNMP: Read (read access only), Both (read and write access), or None (no SNMP requests allowed). Each community name has an access restriction associated with it; if an SNMP command comes in with an unknown name or an unauthorized command, an SNMP error reply will be returned.

#### Applies To
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS

#### Restrictions
You must be the privileged user to use this command.

#### Parameters
**ComName**
Enter a text community name of up to 16 characters long. This string is not case sensitive.

**Access**
Choose Read access, Both read and write access, or None (no SNMP requests allowed).

#### Examples
```
Local> SET SNMP COMMUNITY furman ACCESS BOTH
```

#### See Also
Clear/Purge SNMP, page 12-8; Show/Monitor/List SNMP, page 12-112; Simple Network Management Protocol (SNMP), page 2-10; SNMP Security, page 4-20.
12.183  Set/Define Telnet Hosts

```
  { SET DEFINE } [TELNET] HOSTS hostname ipaddress
```

Associates a TCP/IP hostname with an IP address in the local host table. This will allow you to use the hostname for Telnet connections, even if there is no name server to resolve host names. If the given host name has already been configured, the new IP address will replace the previous value.

**Applies To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**  
You must be the privileged user to use this command.

**Errors**  
IP addresses specified in a questionable format will be so noted.

**Parameters**
- **hostname**
  Enter the hostname string you wish to define, limited to 64 alphanumeric characters. Only 16 characters are allowed between period delimiters.
- **ip_address**
  Enter the standard numeric IP address of the machine referred to by the hostname.

**Examples**

```
Local> Set HOST SPECTRE 192.0.1.15
```

**See Also**
Clear/Purge Telnet Hosts, page 12-8; Show/Monitor/List [Telnet] Hosts, page 12-112; Local Host Table, page 2-8; Local Host Table, page 4-6.

12.184  Show/Monitor/List Dialback

```
  { SHOW MONITOR LIST } DIALBACK
```

Displays the currently-configured dialback strings, as well as the number of connect attempts and failures associated with the strings.

**Applies To**  
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**  
You must be the privileged user to use this command.

**See Also**
Clear/Purge Dialback, page 12-5; Set/Define Port Dialback, page 12-35; Modem Features, page 2-16; Dialback, page 5-13; Status Displays, page 6-9.

12.185  Show/Monitor/List Hosts

12.186 Show/Monitor/List IPsecurity

Displays the current or saved TCP/IP security table. Each address or address range is displayed including the direction of concern and the list of ports affected by the entry.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Errors**
An error is returned if there are no IP security table entries.

**See Also**

12.187 Show/Monitor/List Logging

Displays the current or saved event logging configuration.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Errors**
Node information cannot be Listed.

**See Also**

12.188 Show/Monitor/List Menu

Displays the current or saved menu entries.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Errors**
An error is returned if there are no menu entries configured.

**See Also**
Clear/Purge Menu, page 12-6; Set/Define Menu, page 12-25; Menu Mode, page 2-17; Menu Mode, page 5-15; Status Displays, page 6-9.
12.189 Show/Monitor Nodes

SHOW
MONITOR

NODES

nodename

COUNTERS

ALL

STATUS

SUMMARY

Displays information about all or a particular LAT service node(s). If the server has no knowledge of the specified node, it will say so.

Applies To
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Restrictions
You must be the privileged user to use the Monitor Nodes command.

Errors
Nodes cannot be Listed.

Parameters

NodeName
Displays information regarding only that node.

All (or *)
Displays information regarding all known LAT nodes on the network (the default).

Counters
Displays LAT messages and error counters associated with the node(s). Note that multicasts are not counted as messages in this field—only connection messages are counted.

Status
Displays Summary information plus the node’s Ethernet address, the service(s) offered, and the ident strings of those services.

Summary
Displays the nodes, their identifications strings, and the LAT protocol version (the default).

Examples
Local> MONITOR NODE corky COUNTERS

See Also
Set/Define Service LAT, page 12-89; Node Limit, page 4-3; Status Displays, page 6-9; Printing to a Service, page 9-3.
### 12.190 Show/Monitor/List Ports

Displays information about the server’s ports. The current port is the default, unless an optional port designation is specified.

If the port is a virtual port, irrelevant information such as baud rate, parity, and flow control will not be displayed. Any List on a virtual port will display template port configuration.

**Applies To**
- EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
- You must be the privileged user to use the Monitor Ports command. Secure users cannot Show or List ports other than their own.

**Errors**
- Status and Counters parameters are not valid with List. Counters is also not valid for virtual ports.

**Parameters**
- **All**
  - Displays information about all ports.
- **Access**
  - Displays information about all local ports having a particular access type.
- **portnum**
  - Displays information about a specified port.
- **Characteristics**
  - Displays the port’s settings, such as baud rate, parity, preferred services, name, username, and group codes.
- **Counters**
  - Displays the port’s local and remote accesses, as well as the communication errors on the device.
- **Status**
  - Displays the port’s connection status: the number of sessions and information about the current connection. It also shows the current flow control state and the state of the DSR and DTR serial signals.
- **Summary**
  - Displays the access type, offered services, and the login status of the port.

**Examples**
- Local> LIST Port ACCESS DYNAMIC SUMMARY

**See Also**
- Set/Define Ports commands, beginning with Define Port Access, page 12-26; Chapter 5, Ports; Status Displays, page 6-9.
12.191 Show/Monitor/List Protocols

Displays a summary screen of all supported protocols. General figures, such as packet counts and error status, will be shown. Individual protocol options show what is happening in greater detail. Also refer to the Netstat command, which shows currently active network socket connections.

Applies To
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions
You must be the privileged user to use this command.

Errors
Counters is not valid with List.

Parameters
AppleTalk
Displays counters and status messages specific to the AppleTalk protocol.

Nodes
Displays nodes, hardware addresses, status, and uptime of all AppleTalk nodes.

Zones
Displays available AppleTalk zones, including those learned via routers.

Local
Displays only those AppleTalk zones located on the server’s local network segment.

Counters
Displays general Ethernet counter information and counters specific to the LAT and Telnet protocols.

Enabled
Displays a list of the enabled protocols.

LANMan
Displays information specific to the LAN Manager protocol, including NetBIOS and SMB statistics.

LAT
Displays detailed counters and status messages specific to the LAT protocol, including configured timers and session limits.
**NetWare**
Displays detailed counters and status messages specific to the NetWare protocol, including routing and encapsulation information, and packet transfer counters by packet type.

The Error Reasons field shows error counters in hexadecimal with the rightmost bit being 0. For example, an Error Reason of 0040 represents 0000 0000 0100 0000 in binary, which means that bit 6 is set. The meaning of each bit is explained in Table 12-8.

### Table 12-8: IPX Error Reasons

<table>
<thead>
<tr>
<th>Bit</th>
<th>Meaning</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Received packet for an unknown IPX protocol.</td>
<td>Packet discarded.</td>
</tr>
<tr>
<td>1</td>
<td>Received packet for unknown socket.</td>
<td>Packet discarded.</td>
</tr>
<tr>
<td>2</td>
<td>Couldn’t attach to print queue on file server.</td>
<td>When a printer is found that needs to be serviced, the ETS attaches to the fileserver. If the ETS cannot attach, it can’t service the queue.</td>
</tr>
<tr>
<td>3</td>
<td>Couldn’t connect to a fileserver.</td>
<td>If the ETS hears from a fileserver that matches its own access list, it will try to connect to the fileserver and scan for print queues. If the connection does not go through, there may be security or license limit issues.</td>
</tr>
<tr>
<td>4</td>
<td>Couldn’t log out of the fileserver.</td>
<td>This bit should never be set.</td>
</tr>
<tr>
<td>5</td>
<td>The ETS couldn’t get its server name and password credentials from fileserver during login.</td>
<td>Login fails.</td>
</tr>
<tr>
<td>6</td>
<td>Fileserver did not accept the ETS’ server name and password credentials.</td>
<td>If the login password is “access” (the default), the ETS doesn’t send a password. Otherwise, the login password has to match the print server password on the fileserver.</td>
</tr>
<tr>
<td>7</td>
<td>Couldn’t log into the fileserver.</td>
<td>Perhaps the login slots are filled.</td>
</tr>
<tr>
<td>8</td>
<td>Check membership call failed.</td>
<td>While scanning for print queues, the ETS checks the memberships of various objects; this is not generally a problem.</td>
</tr>
<tr>
<td>9</td>
<td>Couldn’t map user to trustee.</td>
<td>This is where the ETS tries to get rights to access the print queue; login fails.</td>
</tr>
<tr>
<td>10</td>
<td>Couldn’t attach to print queue on fileserver.</td>
<td>Same as bit 2.</td>
</tr>
<tr>
<td>11</td>
<td>Couldn’t service the print queue or couldn’t read the job.</td>
<td>There is a print job on the fileserver, but the ETS cannot access it.</td>
</tr>
<tr>
<td>12</td>
<td>Couldn’t open a file on the fileserver.</td>
<td>This is not a serious error.</td>
</tr>
<tr>
<td>13+</td>
<td>Unused, should be 0.</td>
<td></td>
</tr>
</tbody>
</table>

**Access**
Displays the current list of accessible NetWare fileservers.
NDS
Displays NDS error reason counters to help diagnose NDS-related problems. They are listed in the following table.

Table 12-9: NDS Failure Reasons

<table>
<thead>
<tr>
<th>Bit</th>
<th>NDS Error Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Success</td>
</tr>
<tr>
<td>1</td>
<td>Print server ran out of memory</td>
</tr>
<tr>
<td>2</td>
<td>Unexpected response from file server</td>
</tr>
<tr>
<td>3</td>
<td>Unexpected response from file server</td>
</tr>
<tr>
<td>4</td>
<td>No printers found for the print server</td>
</tr>
<tr>
<td>5</td>
<td>No queue found for the printer</td>
</tr>
<tr>
<td>6</td>
<td>Login failed.</td>
</tr>
<tr>
<td>7</td>
<td>Authentication failed</td>
</tr>
<tr>
<td>8</td>
<td>Print server cannot attach to queue</td>
</tr>
</tbody>
</table>

TCP/IP
Displays detailed counters and status messages specific to the TCP/IP protocol, including configured nameservers and gateways, the default domain name, packet information, and ICMP counters.

ICMP messages are sent by TCP/IP nodes in response to errors in TCP/IP messages or queries from other nodes. The ICMP failure reason counters may be helpful for detecting specific network problems. They are listed in the following table.

Table 12-10: ICMP Failure Reasons

<table>
<thead>
<tr>
<th>Bit</th>
<th>ICMP Message Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>ICMP echo message received</td>
</tr>
<tr>
<td>1</td>
<td>ICMP echo reply received</td>
</tr>
<tr>
<td>2</td>
<td>Destination unavailable—see bits 4-7</td>
</tr>
<tr>
<td>3</td>
<td>Unknown ICMP type received</td>
</tr>
<tr>
<td>4</td>
<td>Network unreachable, usually from a gateway host</td>
</tr>
<tr>
<td>5</td>
<td>Host unreachable</td>
</tr>
<tr>
<td>6</td>
<td>Port unreachable, usually due to attempting to nameserve an unwilling host</td>
</tr>
<tr>
<td>7</td>
<td>Protocol unreachable</td>
</tr>
<tr>
<td>8-15</td>
<td>Unused, should be 0</td>
</tr>
</tbody>
</table>
Examples

Local> SHOW PROTOCOLS APPLETALK ZONES

See Also

Netstat, page 12-17; Clear/Purge Protocol NetWare Access, page 12-7; Set/Define Protocols commands, beginning with Define Protocols AppleTalk, page 12-54; Status Displays, page 6-9.

12.192 Show/Monitor Queue

Displays the entries in a particular local service’s connect queue, if it exists. Particular sets of queues or entries can be selected with the parameters.

Applies To

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions

You must be the privileged user to use the Monitor Queue command.

Parameters

All
Displays all queue entries, regardless of type.

Node nodename
Displays only connect requests from a specific network node.

Port portnum
Displays the entries that could be serviced by the specified port.

Service servicename
Displays the entries waiting for the specified service.

Examples

Local> SHOW QUEUE Port 2
Local> MONI QUEUE Service lab5

See Also

12.193 Show/Monitor/List Server

Displays the global attributes or counters for the server itself, and the software version number and the time since the last reboot. The Counter fields are described below.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use the Monitor Server command.

**Errors**
Counters and Status are not valid with List.

**Parameters**

- **Bootparams**
  Displays parameters related to rebooting the unit and reloading the software file.

- **Characteristics**
  Displays the LAT network settings, the IP addresses, the server’s enabled characteristics (for example, Broadcast), and the local limits (such as password, queue, and session). This is the default if no parameter is used.

- **Counters**
  Displays the accumulated counters for the Ethernet, LAT and TCP/IP protocols. The first seven lines of counters apply to Ethernet traffic in general. The fields and error counters are explained below.

**Table 12-11: Counters Display Fields**

<table>
<thead>
<tr>
<th>Field</th>
<th>Meaning of Counter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frames sent with xx</td>
<td>Gives a rough estimate of Ethernet traffic. In general, higher traffic levels cause more collisions.</td>
</tr>
<tr>
<td>collisions</td>
<td></td>
</tr>
<tr>
<td>Bad Destination</td>
<td>Counts packets that the ETS received for an unsupported protocol. These are generally multicasts or broadcast packets; frequently seen unknown protocols include LAVC and DECnet routing.</td>
</tr>
<tr>
<td>Buffer Unavailable</td>
<td>Counts packets lost due to an inability to allocate receive space on the part of either the Ethernet controller (Net Buffer) or the operating system (Sys Buffer).</td>
</tr>
<tr>
<td>Data Overrun</td>
<td>Shows packets that were dropped due to the controller’s inability to transfer Ethernet data to memory. Generally, this happens only under unusually heavy load conditions. Note that packets dropped by the Ethernet hardware are retransmitted by the LAT or TCP/IP protocol handlers.</td>
</tr>
<tr>
<td>Reasons</td>
<td>Values represent a combination of the error reasons that have occurred since the counters were last zeroed.</td>
</tr>
</tbody>
</table>
The values for failure reasons are expressed in hexadecimal codes and represent binary masks of all of the errors that have occurred since the counters were last zeroed. There are different numbers of significant digits for each field; they represent the following:

Format: 0 0 h h (0 = unused, h = hex digit)

For example, a value of 000C in the Recv Failure Reasons represents a non-aligned packet and FIFO overrun because 000C hex= 12 decimal= 0000 0000 0000 1100 binary, meaning that bits 2 and 3 are set (the rightmost bit being zero).

Table 12-12 shows the ETS failure reasons and their meanings.

**Table 12-12: Failure Reasons**

<table>
<thead>
<tr>
<th>Bit</th>
<th>Send Failure Reason</th>
<th>Receive Failure Reason</th>
<th>Connect Failure Reason</th>
<th>Invalid Packet Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Unused, should be 0</td>
<td>Unused, should be 0</td>
<td>Internal failure, should be 0</td>
<td>Data received outside window</td>
</tr>
<tr>
<td>1</td>
<td>Packet received with CRC error</td>
<td>Received packet did not end on byte boundary</td>
<td>No nameserver defined for a text hostname</td>
<td>Packet received with an invalid data checksum</td>
</tr>
<tr>
<td>2</td>
<td>At least one collision has occurred while transmitting</td>
<td>Transmit aborted due to excessive (more than 16) network collisions</td>
<td>Attempted nameservice failed</td>
<td>Packet received with an invalid data header</td>
</tr>
<tr>
<td>3</td>
<td>Transmit aborted due to excessive (more than 16) network collisions</td>
<td>FIFO overrun: could not write received data before new data arrived</td>
<td>Rejected connection</td>
<td>RST packet sent to remote node</td>
</tr>
<tr>
<td>4</td>
<td>Carrier sense was lost during transmission</td>
<td>Receive packet could not be accommodated due to lack of available receive buffers</td>
<td>No gateway was configured for a non-local connection</td>
<td>Packet received for an unknown local user</td>
</tr>
<tr>
<td>5</td>
<td>FIFO underrun: Ethernet controller could not access transmit data in time to send it out (ERROR)</td>
<td>Received a packet larger than the maximum Ethernet size (1536 bytes)</td>
<td>Attempted ARP failed</td>
<td>Packet received for an unknown local user</td>
</tr>
<tr>
<td>6</td>
<td>ETS did not receive CD heartbeat after transmission</td>
<td>Unused, should be 0</td>
<td>Remote host did not answer</td>
<td>Unused, should be 0</td>
</tr>
<tr>
<td>7</td>
<td>Out-of-window collision detected</td>
<td>Unused, should be 0</td>
<td>Host rejected the connection</td>
<td></td>
</tr>
<tr>
<td>8-15</td>
<td>Unused, should be 0</td>
<td>Unused, should be 0</td>
<td>Unused, should be 0</td>
<td></td>
</tr>
</tbody>
</table>

**Status**
Displays current server use, such as active ports, services, and circuits.

**Examples**

```
Local> SHOW SERVER STATUS
Local> MONITOR SERVER COUNTERS
```

**See Also**
Set/Define Server commands, beginning with Set/Define Server Announcements, page 12-62; General Server Parameters, page 4-1; Status Displays, page 6-9.
12.194 Show/Monitor/List Services

Displays characteristics of the services on the network. Remember that the service list is masked by the service groups that this port is eligible to see, that is, users will not see services to which they cannot connect.

**Applies To**  
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**  
You must be the privileged user to use the Monitor Services command.

**Parameters**  
- **Local**  
  Displays those services provided by this server, whether available or not.
- **All**  
  Displays all known network services usable by the current port.
- **service**  
  Displays any known information about this service. Wild cards are permitted.

**Characteristics**  
Displays the service’s rating, group codes, and, if the service is local, the service ports and service flags (such as Queueing, Connections, and Password).

**Status**  
Displays the service name, offering node, availability status, and ident string.

**Summary**  
Displays the service, ident string, and availability. This is the default if no parameter is added.

**Examples**  
Local> SHOW SERVICE lab5_prtr STATUS  
Local> MONITOR SERVICE LOCAL SUMMARY

**See Also**  
Clear/Purge Service, page 12-7; Set/Define Service commands, beginning with Set/Define Service, page 12-84; Creating Services, page 4-13; Status Displays, page 6-9.
12.195  Show/Monitor Sessions

Displays information about the current port’s sessions or all sessions.

Applies To       EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P
Restrictions    You must be the privileged user to use the Monitor Sessions command. Secure users cannot specify Port or All.

Examples         Local> SHOW SESSION
                   Local> SHOW SESSION PORT 5

See Also          Set Session commands, beginning with Set Session Delete, page 12-94; Chapter 6, User Sessions.

12.196  Show/List SLIP

Displays the current or saved SLIP entries. If a port number is specified, that port’s connections and SLIP counters will be displayed. The List command displays permanently-configured address/port pairs, as well as any configured SLIP default options.

Applies To       EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P
Errors           The Port option cannot be specified with List.

See Also          Clear/Purge SLIP, page 12-8; Set/Define SLIP, page 12-96; Serial Line Internet Protocol (SLIP), page 2-9; SLIP, page 4-7; Status Displays, page 6-9.
12.197 Show/Monitor/List SNMP

Displays the current or saved SNMP security table entries.

**Applies To**
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**
You must be the privileged user to use this command.

**See Also**

12.198 Show/Monitor/List [Telnet] Hosts

Displays either the currently available TCP/IP hosts or the ones that have been defined in the local host table. Hosts will be displayed along with the method of discovery, such as rwho, a connection, or a host table look-up. There will be a marking to denote the current nameserver and/or gateway.

The Telnet and Host keywords are interchangeable as well as combinable. You can specify one or the other, or both, and get the same information.

**Applies To**
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

**Restrictions**
You must be the privileged user to use the Monitor Hosts command.

**Parameters**
- **ALL**
  Displays all known TCP/IP hosts (the default).

  **hostname**
  Displays host information for the specified port only. Wildcards are allowed.

**Examples**
Local> SHOW TELNET HOSTS ALL
Local> LIST HOST MYVAXSTN

**See Also**
Clear/Purge Hosts, page 12-5; Set/Define Telnet Hosts, page 12-100; Local Host Table, page 2-8; Local Host Table, page 4-6; Status Displays, page 6-9.
### 12.199 Show/Monitor Users

```
{ SHOW
MONITOR } USERS [username]
```

Displays the current users logged onto the server. If a username is given, only information for that user is shown.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**

You must be the privileged user to use the Monitor users command.

**See Also**


### 12.200 Show Version

```
SHOW VERSION
```

Displays operating software version information.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**See Also**


### 12.201 Source

```
SOURCE [ hostname:filename
node::filename
hostname\sys:login\filename ] VERIFY
```

Attempts to download a configuration file from a MOP, TFTP, or NetWare host. The file is assumed to contain lines of server commands to be executed. The Source command is most useful for trying out a configuration file before using the Set Server Startupfile command.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**

You must be the privileged user to use this command.

**Parameters**

- **hostname:filename**
  For TFTP downloads, enter the TFTP hostname (either a text name or an IP address) followed by a colon and the download path and file name.

- **node::filename**
  For MOP downloads, enter a MOP node name followed by two colons and the download path and file name.
hostname\sys\login\filename
For NetWare downloads, enter the host, pathname, and filename in the above format. Due to access restrictions, download files must be in the fileserver's login directory.

Verify
Causes each command from the downloaded file to be echoed before execution.

Examples
Local> SOURCE ALVAX::start.com veri
Local> SOURCE "labsun:start.com"
Local> SOURCE LABFS4\SYS:\LOGIN\ETS.COM

See Also

12.202 Stty

The Stty command is functionally identical to the Set Ports and Show Ports commands. If used with a parameter, it is treated as a Set Ports command. If used with no parameter, it is equivalent to Show Ports.

Examples
Local> STTY
Local> STTY SPEED 9600

See Also
Set/Define Ports commands, beginning with Define Port Access, page 12-26; Show/Monitor/List Ports, page 12-103.

12.203 Su

The Su command is functionally identical to the Set Privileged/Noprivileged command detailed on page 12-54. It is provided for UNIX compatibility.

12.204 Telnet

TELNET hostname [EnvString]

Telnet is shorthand for the Connect Telnet command, and is provided for simplicity.

Applies To
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Examples
Local> TELNET 192.0.1.252
Local> TELNET 192.0.1.252:2812
   (connects to port 2812)
Local> TELNET dopus.csedu.uvts.edu

See Also
Clear/Purge Hosts, page 12-5; Connect, page 12-9; Set/Define Port Preferred, page 12-45; Set/Define Telnet Hosts, page 12-100; Telnet, page 2-6; Parity, Character Size, and Stop Bits, page 5-4; Connecting to Telnet Hosts, page 6-4.
12.205 Test Loop

```
TEST LOOP address [HELP] { RECEIVED } [TRANSMIT FULL] [ASSISTANT address]
```

Tests the network connections to MOP hosts. A simple loopback service verifies that the remote node is receiving the server’s transmissions. An Assistant or “helper” node can be specified to forward one or both of the transmissions (outbound or incoming).

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**

You must be the privileged user to use this command.

**Parameters**

`address`

Specify either a text host name or an Ethernet address. Ethernet addresses are specified in `xx-xx-xx-xx-xx-xx` (hexadecimal) format, where each `xx` represents one of the 6 bytes of the node’s hardware address. If text names are used, only LAT service names can be resolved to hardware addresses.

**Examples**

Local> TEST LOOP 45-a2-ed-48-12-3c

Local> TEST LOOP 12-68-df-ea-38-c5 HELP REC ASSI 78-23-ad-2c-11-4e

Local> TEST LOOP LABVAX

12.206 Test Port

```
TEST PORT [portnum] [POSTSCRIPT] [COUNT count] [WIDTH width]
```

Tests a serial port’s connection by sending a continuous stream of ASCII alphabetic characters from the port for a certain number of lines. If no width or count is specified, the server will produce 70-character lines until a key is pressed to stop the test.

**Applies To**

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

**Restrictions**

You must be the privileged user to test a port other than your own. Virtual and multisession-enabled ports can only be tested by the current user on that port.

**Parameters**

**PostScript**

Sends a PostScript test page to the port instead of ASCII data. The Count parameter controls the number of pages to print in this case, and the Width parameter is ignored.
Count
Governs the number of test lines that will be sent. Generally, the count value can be any whole number. If a count is not specified in the command, the server will continue to produce character streams until a key is pressed.

Width
Breaks the stream of ASCII characters into lines that are each width characters long. The width value can range from 1 to 133. The default is 70 characters.

Examples
Local> TEST Port
Local> TEST Port 4 WIDTH 45 COUNT 5

12.207 Test Service

Tests a connection to a service. A continuous stream of ASCII alphabetic characters is sent to the service and (hopefully) echoed back until the number of lines specified by Count is reached; the test can be stopped at any time by pressing a key. The ETS will show the number of packets sent and lost.

NOTE: Optional parameters can be used in any combination. They work the same as in the Test Port command.

Applies To
EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions
You must be the privileged user to test a port other than your own.

Errors
Testing a service local to this ETS will fail and return an error. Testing either the Login Service or a proxy Telnet service will fail; use Test Port if you are unsure of the connection to a local service.

Parameters
Count
Governs the number of test lines that will be sent. Generally, the count value can be any whole number. If a count is not specified in the command, the server will continue to produce character streams until a key is pressed.

Destination
The test stream will be sent to the specified port on the LAT device.

Node
The test stream will be sent to the specified node of the LAT destination port.
PostScript
Performs a bidirectional data test of the interface between the ETS and the printer. This test will not generate any paper output. Instead it should echo the PostScript data back to the ETS and issue a status message on the result of the test.

NOTE: Autosensing printers must be locked into PostScript mode for this test to succeed.

Width
Breaks the stream of ASCII characters into lines that are each width characters long. The width value can range from one to 133. The default is 70 characters.

Examples
Local> TEST Service ALEX COUNT 1000 WIDTH 80

See Also
Set/Define Server Incoming, page 12-68; Set/Define Service Virtual, page 12-94.

12.208  Unattach Port

UNATTACH PORT portnum

Detaches a previously Attached port. Use Disconnect to disconnect your own port. Use Logout Port to disconnect all sessions and to logout a port.

Applies To
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Restrictions
You must be the privileged user to use this command.

Examples
Local> UNATTACH PORT 5

12.209  Unlock Port

UNLOCK PORT portnum

Unlocks a locked port, which may be necessary if a user has locked the port and forgotten the password.

Applies To
EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P

Restrictions
You must be the privileged user to use this command.

Examples
Local> UNLOCK PORT 6

See Also
Lock, page 12-15; Set/Define Server Lock, page 12-70; Enabling Server-Wide Port Characteristics, page 4-1; Locking a Port, page 5-16.
12.210  Who

The Who command is functionally identical to the Show/Monitor Users command, discussed on page 12-113. It is provided for UNIX compatibility.

12.211  Zero Counters

ZERO COUNTERS

Resets the counters for errors and other network and server events. If no parameter is added to the command, only the port counters for the current port will be reset.

Applies To

EPS1, EPS2, EPS2P2, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS

Restrictions

You must be the privileged user to zero a port other than your own.

Parameters

All
Zeroes all port, node, and server counters.

Port portnum
Zeroes counters for events associated with the specified serial or virtual port, including SLIP events.

Examples

Local> ZERO COUNTER NODE vax5
Local> ZERO COUNTERS Port 2

See Also

Show/Monitor/List Ports Counters, page 12-103.