

12

Command Reference

12.1	Command Line Interface	12-1
12.1.1	Command Completion.....	12-1
12.2	Attach Port	12-2
12.3	Backwards	12-4
12.4	Bg.....	12-4
12.5	Broadcast	12-4
12.6	Clear/Purge Dialback	12-5
12.7	Clear/Purge Hosts.....	12-5
12.8	Clear/Purge IPsecurity	12-6
12.9	Clear/Purge Menu.....	12-6
12.10	Clear/Purge Protocol NetWare Access	12-7
12.11	Clear/Purge Service	12-7
12.12	Clear/Purge SLIP	12-8
12.13	Clear/Purge SNMP	12-8
12.14	Clear/Purge Telnet Hosts.....	12-8
12.15	Close.....	12-9
12.16	Cls.....	12-9
12.17	Connect.....	12-9
12.18	Crash 451	12-11
12.19	Define.....	12-11
12.20	Disconnect.....	12-11
12.21	Fg.....	12-11
12.22	Finger	12-12
12.23	Forwards	12-12
12.24	Help.....	12-13
12.25	Initialize Server.....	12-13
12.26	Jobs	12-14

12.27	Kill	12-14
12.28	LAT	12-14
12.29	List	12-15
12.30	Lock	12-15
12.31	Logout	12-15
12.32	Man	12-16
12.33	Mode	12-16
12.34	Monitor	12-16
12.35	Netstat	12-17
12.36	Open	12-17
12.37	Ping	12-17
12.38	Purge	12-17
12.39	Purge SLIP	12-18
12.40	Remove Queue	12-18
12.41	Resolve	12-19
12.42	Resume	12-19
12.43	Rlogin	12-20
12.44	Save	12-20
12.45	Send	12-21
12.46	Set/Define Dialback	12-22
12.47	Set/Define Hosts	12-22
12.48	Set/Define IPsecurity	12-22
12.49	Set/Define Logging	12-24
12.50	Set/Define Menu	12-25
12.51	Set Noprivileged	12-25
12.52	Define Port Access	12-26
12.53	Set/Define Port Authorized Groups	12-27
12.54	Set/Define Port Autobaud	12-27
12.55	Set/Define Port Autoconnect	12-28
12.56	Set/Define Port Autoprompt	12-29
12.57	Set/Define Port Autostart	12-29
12.58	Set/Define Port Backward	12-30
12.59	Set/Define Port Bitronics	12-31
12.60	Set/Define Port Break	12-31
12.61	Set/Define Port Broadcast	12-32
12.62	Set/Define Port Character Size	12-32
12.63	Set/Define Port Command Completion	12-33
12.64	Set/Define Port Dedicated	12-33
12.65	Set/Define Port Dialback	12-35

12.66	Set/Define Port Dialup	12-36
12.67	Set/Define Port DSRlogout	12-36
12.68	Set/Define Port DTRwait.....	12-37
12.69	Set/Define Port Flow Control	12-37
12.70	Set/Define Port Forward	12-38
12.71	Set Port Groups.....	12-39
12.72	Set/Define Port Inactivity Logout	12-40
12.73	Set/Define Port Local	12-40
12.74	Set/Define Port Loss Notification	12-41
12.75	Set/Define Port Menu	12-42
12.76	Define Port Modem Control.....	12-42
12.77	Set/Define Port Name.....	12-43
12.78	Set/Define Port Parity.....	12-44
12.79	Set/Define Port Passflow.....	12-44
12.80	Set/Define Port Password	12-45
12.81	Set/Define Port Preferred.....	12-45
12.82	Set/Define Port Queue.....	12-47
12.83	Set/Define Port Remote Configure	12-47
12.84	Set/Define Port Security	12-48
12.85	Set/Define Port Session Limit.....	12-48
12.86	Set/Define Port Signal Check.....	12-49
12.87	Set/Define Port SLIP	12-49
12.88	Set/Define Port Speed.....	12-50
12.89	Set/Define Port Stop.....	12-50
12.90	Set/Define Port Telnet Pad.....	12-51
12.91	Set/Define Port Termttype	12-51
12.92	Set/Define Port Type.....	12-52
12.93	Set/Define Port Username.....	12-52
12.94	Set/Define Port Verification.....	12-53
12.95	Set Privileged/Noprivileged.....	12-54
12.96	Define Protocols AppleTalk.....	12-54
12.97	Define Protocols IP.....	12-55
12.98	Define Protocols LAN Manager.....	12-56
12.99	Set/Define Protocols LAT.....	12-56
12.100	Define Protocols NetWare	12-57
12.101	Set/Define Protocols NetWare Access.....	12-57
12.102	Define Protocols NetWare DScontext	12-58
12.103	Define Protocols NetWare DSlicense	12-58
12.104	Define Protocols NetWare DStree.....	12-59

12.105	Set/Define Protocols NetWare Encapsulation	12-59
12.106	Set/Define Protocols NetWare Internal.....	12-60
12.107	Set/Define Protocols NetWare Loadhost	12-60
12.108	Set/Define Protocols NetWare Printserver	12-61
12.109	Set Protocols NetWare Reset	12-61
12.110	Set/Define Protocols NetWare Routing	12-62
12.111	Set/Define Server Announcements.....	12-62
12.112	Set/Define Server BOOTP	12-63
12.113	Set/Define Server Broadcast	12-63
12.114	Set/Define Server Buffering	12-63
12.115	Set/Define Server Circuit Timer	12-64
12.116	Set/Define Server Console.....	12-64
12.117	Set/Define Server Domain.....	12-65
12.118	Set/Define Server Dump	12-65
12.119	Set/Define Server Gateway	12-65
12.120	Set/Define Server Groups.....	12-66
12.121	Set/Define Server Host Limit.....	12-66
12.122	Set/Define Server Identification	12-67
12.123	Set/Define Server Inactivity Timer	12-67
12.124	Set/Define Server Incoming.....	12-68
12.125	Set/Define Server IPaddress	12-69
12.126	Set/Define Server Keepalive Timer.....	12-69
12.127	Set/Define Server Loadhost	12-70
12.128	Set/Define Server Lock	12-70
12.129	Set/Define Server Login Password	12-71
12.130	Set/Define Server Maintenance Password.....	12-71
12.131	Set/Define Server Multicast Timer.....	12-72
12.132	Set/Define Server Name	12-72
12.133	Set/Define Server Nameserver	12-73
12.134	Set/Define Server NetWare Loadhost	12-73
12.135	Set/Define Server NetWare Printserver	12-74
12.136	Set Server NetWare Reset	12-74
12.137	Set/Define Server Node Limit	12-75
12.138	Set/Define Server Password Limit	12-75
12.139	Set/Define Server Privileged Password	12-76
12.140	Set/Define Server Prompt	12-76
12.141	Set/Define Server Queue Limit	12-77
12.142	Set/Define Server RARP	12-77
12.143	Set/Define Server Reload	12-78

12.144	Set/Define Server Retransmit Limit.....	12-78
12.145	Set/Define Server Rlogin.....	12-79
12.146	Set/Define Server Service Groups.....	12-79
12.147	Set/Define Server Session Limit.....	12-80
12.148	Define Server Silentboot.....	12-80
12.149	Set/Define Server SLIP Password.....	12-81
12.150	Set/Define Server Software.....	12-81
12.151	Set/Define Server Startupfile.....	12-82
12.152	Set/Define Server Subnet Mask.....	12-83
12.153	Set/Define Server UUCP.....	12-83
12.154	Set/Define Service.....	12-84
12.155	Set/Define Service AppleTalk.....	12-84
12.156	Set/Define Service Banner.....	12-85
12.157	Set/Define Service Binary.....	12-85
12.158	Set/Define Service Default.....	12-86
12.159	Set/Define Service DLC.....	12-87
12.160	Set/Define Service EOJ.....	12-87
12.161	Set/Define Service Formfeed.....	12-88
12.162	Set/Define Service Identification.....	12-88
12.163	Set/Define Service LAN Manager.....	12-89
12.164	Set/Define Service LAT.....	12-89
12.165	Set/Define Service NetWare.....	12-89
12.166	Set/Define Service Password.....	12-90
12.167	Set/Define Service Ports.....	12-90
12.168	Set/Define Service PostScript.....	12-91
12.169	Set/Define Service PSConvert.....	12-91
12.170	Set/Define Service RTEL.....	12-92
12.171	Set/Define Service SOJ.....	12-92
12.172	Set/Define Service TCPport.....	12-93
12.173	Set/Define Service Telnetport.....	12-93
12.174	Set/Define Service Virtual.....	12-94
12.175	Set Session Delete.....	12-94
12.176	Set Session Echo.....	12-95
12.177	Set Session Interactive.....	12-95
12.178	Set Session Newline.....	12-95
12.179	Set Session Passall.....	12-96
12.180	Set Session Passthru.....	12-96
12.181	Set/Define SLIP.....	12-96

12.181.1	Set SLIP	12-97
12.181.2	Define SLIP	12-98
12.182	Set/Define SNMP	12-99
12.183	Set/Define Telnet Hosts	12-100
12.184	Show/Monitor/List Dialback	12-100
12.185	Show/Monitor/List Hosts	12-100
12.186	Show/Monitor/List IPsecurity	12-101
12.187	Show/Monitor/List Logging	12-101
12.188	Show/Monitor/List Menu	12-101
12.189	Show/Monitor Nodes	12-102
12.190	Show/Monitor/List Ports	12-103
12.191	Show/Monitor/List Protocols	12-104
12.192	Show/Monitor Queue	12-107
12.193	Show/Monitor/List Server	12-108
12.194	Show/Monitor/List Services	12-110
12.195	Show/Monitor Sessions	12-111
12.196	Show/List SLIP	12-111
12.197	Show/Monitor/List SNMP	12-112
12.198	Show/Monitor/List [Telnet] Hosts	12-112
12.199	Show/Monitor Users	12-113
12.200	Show Version	12-113
12.201	Source	12-113
12.202	Stty	12-114
12.203	Su	12-114
12.204	Telnet	12-114
12.205	Test Loop	12-115
12.206	Test Port	12-115
12.207	Test Service	12-116
12.208	Unattach Port	12-117
12.209	Unlock Port	12-117
12.210	Who	12-118
12.211	Zero Counters	12-118

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

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

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

12.2 Attach Port

ATTACH PORT <i>n</i>	$\left\{ \begin{array}{l} \textit{service} \left[\begin{array}{l} \text{DESTINATION } \textit{port} \\ \text{NODE } \textit{nodeName} \\ \text{ENVIRONMENT } \textit{EnvString} \end{array} \right] \\ \text{TELNET } \textit{hostname}[:\textit{EnvString}] \\ \text{RLOGIN } \textit{hostname} \end{array} \right\}$
----------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Forces 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	<p>n Specify which ETS port to use for the connection. Logged-in and virtual ports cannot be Attached.</p> <p>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.</p> <p>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.</p> <p>Destination port Specifies a connection to a particular port on the dedicated host.</p> <p>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:</p>

Table 12-2: Environment Strings

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

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; <i>Session Management</i> , 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

<p>BROADCAST { ALL PORT <i>number</i> username } message</p>

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	<p>All The broadcast is sent to all ports.</p> <p>Port number The broadcast is sent to the single specified port.</p>

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 uppercase. 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

Set/Define Port Broadcast, page 12-32; Set/Define Server Broadcast, page 12-63.

12.6 Clear/Purge Dialback

$\left. \begin{array}{l} \{ \text{CLEAR} \} \\ \{ \text{PURGE} \} \end{array} \right\} \text{DIALBACK} \left\{ \begin{array}{l} \text{ALL} \\ \textit{username} \end{array} \right\}$

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

<table> <tr> <td>{ CLEAR }</td> <td rowspan="2">IPSECURITY</td> <td>{ ALL }</td> </tr> <tr> <td>{ PURGE }</td> <td>{ IPaddress }</td> </tr> </table>	{ CLEAR }	IPSECURITY	{ ALL }	{ PURGE }	{ IPaddress }
{ CLEAR }	IPSECURITY		{ ALL }		
{ PURGE }		{ 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	Set/Define IPsecurity, page 12-22; Show/Monitor/List IPsecurity, page 12-101; <i>IP Security Table</i> , page 4-18.

12.9 Clear/Purge Menu

<table> <tr> <td>{ CLEAR }</td> <td rowspan="2">MENU</td> <td>{ ALL }</td> </tr> <tr> <td>{ PURGE }</td> <td>{ MenuNum }</td> </tr> </table>	{ CLEAR }	MENU	{ ALL }	{ PURGE }	{ MenuNum }
{ CLEAR }	MENU		{ ALL }		
{ PURGE }		{ 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	Set/Define Menu, page 12-25; Show/Monitor/List Menu, page 12-101; <i>Menu Mode</i> , page 5-15.

12.10 Clear/Purge Protocol NetWare Access

{ CLEAR } { PURGE }	PROTOCOL NETWARE ACCESS	{ ALL } { <i>fileserv</i> }
------------------------	-------------------------	--------------------------------

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	fileserv 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; <i>NetWare Access Lists</i> , page 4-4; <i>Access Lists</i> , page 10-1.

12.11 Clear/Purge Service

{ CLEAR } { PURGE }	SERVICE	{ LOCAL } { <i>service</i> }
------------------------	---------	---------------------------------

Removes a defined service from the ETS. The login service can not 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 fileserv
See Also	Set/Define Service commands, starting on page 12-84; Show/Monitor/List Services, page 12-110; <i>Creating Services</i> , 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

<pre> { CLEAR } { PURGE } </pre>	SNMP	<pre> { ALL { CommunityName } </pre>
----------------------------------	------	--------------------------------------

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 Set/Define SNMP, page 12-99; Show/Monitor/List SNMP, page 12-112; *Simple Network Management Protocol (SNMP)*, page 2-10.

12.14 Clear/Purge Telnet Hosts

<pre> { CLEAR } { PURGE } </pre>	[TELNET] HOSTS	<pre> { LOCAL { HostName } { ALL } </pre>
----------------------------------	----------------	-------------------------------------------

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	Set/Define Telnet Hosts, page 12-100; Show/Monitor/List [Telnet] Hosts, page 12-112; <i>Telnet</i> , page 2-6.

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

CONNECT	[LAT]servicename	NODE <i>NodeName</i> DESTINATION <i>port</i> ENVIRONMENT <i>EnvString</i>
		TELNET [<i>hostname[:EnvString]</i>]
		RLOGIN [<i>hostname [username]</i>]
		TCP <i>hostname</i>

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	<p>[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.</p> <p>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.</p>

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 12-3: Environment Strings

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

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

```
FINGER [ [username] [ @host] ]
```

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.

Applies 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

```
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.

Applies 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, ETS8, ETS8P, ETS16, ETS16P

See Also

Connect, page 12-9; Set/Define Port Preferred, page 12-45; *Environment Strings*, page 2-13.

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

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

LOGOUT [PORT *PortNum*]

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

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

<pre>PURGE SLIP { ALL PORT portnum DEFAULT }</pre>

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	<p>All Clears all of the SLIP settings for the server (entries for all ports and the Default server setting).</p> <p>Port portnum Clears the SLIP entry for the specified port only.</p> <p>Default Clears the default SLIP setting for the server.</p>
Examples	Local> PURGE SLIP Port 4
See Also	Set/Define SLIP, page 12-96; Show/List SLIP, page 12-111; <i>Serial Line Internet Protocol (SLIP)</i> , page 2-9; <i>SLIP</i> , page 4-7.

12.40 Remove Queue

<pre>REMOVE QUEUE { ALL ENTRY number NODE nodeName SERVICE serviceName }</pre>

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	<p>All Removes all requests in the local server queue.</p> <p>Entry number Removes the specified queue entry. Use the Show Queue command to display the queues and entries by number.</p>

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

Show/Monitor/List Protocols, page 12-107.

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 Set/Define Port Break, page 12-31; *Session Management*, page 6-7.

12.43 Rlogin

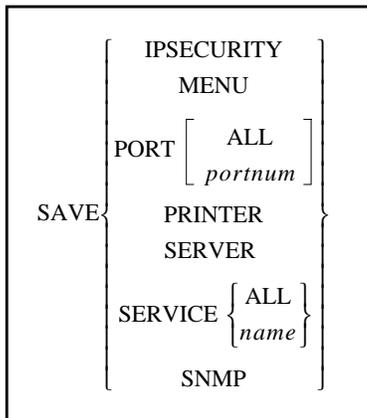
```
RLOGIN [ hostname [username]]
```

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



Saves 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

Abbreviation	Stands for
AO	Abort Output (Telnet, LAT)
AYT	Are You There (Telnet, LAT)
BRK	Break (Telnet, LAT)
EC	Erase Character (Telnet)
EL	Erase Line (Telnet)
GA	Go Ahead (Telnet)
IP	Interrupt Process (Telnet, LAT)
NOP	No Operation (Telnet)
SYNCH	Synchronize (Telnet)

Examples

```
Local> SEND AYT
```

```
Local> SEND SYNCH
```

See Also

LAT and TCP/IP Connectivity, page 2-12.

12.46 Set/Define Dialback

$\left. \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{DIALBACK } \textit{username command}$

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	<p>username A text name, up to 16 characters long.</p> <p>command A string of text, up to 30 characters long, that will be executed when the user connects to the ETS.</p>
Examples	Local> SET DIALBACK "robert" "atdt555-1234"
See Also	Set/Define Port Dialback, page 12-35; Clear/Purge IPsecurity, page 12-6; Dialback, page 5-13.

12.47 Set/Define Hosts

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

12.48 Set/Define IPsecurity

$\left. \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{IPSECURITY } [\textit{ADDRESS}] \textit{IPaddress} \left\{ \begin{array}{l} \left[\begin{array}{l} \text{BOTH} \\ \text{INCOMING} \\ \text{OUTGOING} \\ \text{PRINTING} \\ \text{SLIP} \end{array} \right] \left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\} \\ \text{PORTS } \textit{portlist} \end{array} \right\}$

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

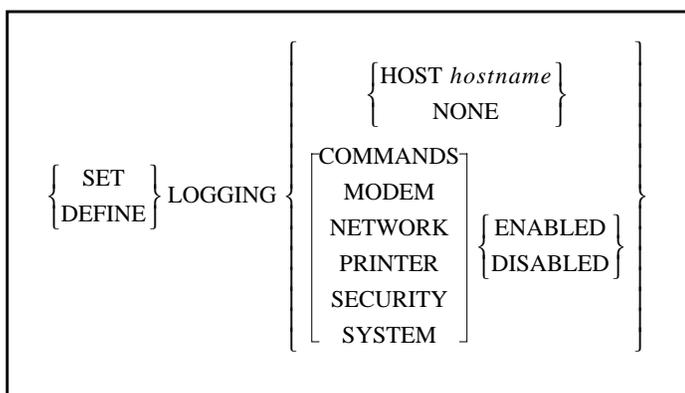
```
Local> SET IPSEC ADDR 192.0.1.255 INC ENA OUT DIS
```

```
Local> SET IPSEC 134.0.1.255 Port 3,5-7
```

See Also

Clear/Purge IPsecurity, page 12-6; Show/Monitor/List IPsecurity, page 12-101; IP Security Table, page 4-18.

12.49 Set/Define Logging



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.

NOTE: *The host must be configured to support logging. See Event Logging on page 4-20 for more information.*

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

$\left. \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{MENU} \left\{ \begin{array}{l} \text{ItemNum String Command} \\ \text{TITLE TitleString} \end{array} \right\}$

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.

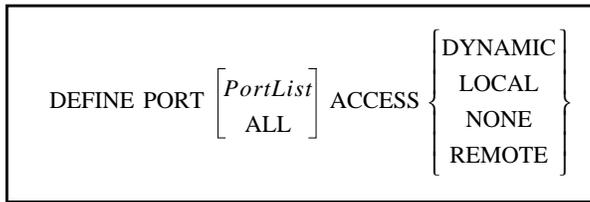
NOTE: *It is recommended to alias a command to “Set Port Menu Disabled” if you want users to be able to leave menu mode and return to local mode. See Set/Define Port Menu on page 12-42 for more information.*

Applies To	EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P
Restrictions	You must be the privileged user to use this command.
Parameters	<p>ItemNum Enter a number from 1 to 32 that corresponds to the menu entry you are changing.</p> <p>String A text string, up to 32 characters long, that is shown to the users in the menu screen.</p> <p>Command The command, up to 32 characters long, that is executed when the user selects this entry.</p> <p>TitleString An optional title for the entire menu, up to 48 characters long.</p>
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; <i>Menu Mode</i> , 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



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	<p>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 (-).</p>

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{AUTHORIZED} [\text{GROUPS}] \left\{ \begin{array}{c} \text{ALL} \\ \textit{grouplist} \end{array} \right\} \left[\begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right]$

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 Set Port Groups, page 12-39; Set/Define Server Service Groups, page 12-66; Show/Monitor/List Ports, page 12-103; *Group Numbers*, page 5-12.

12.54 Set/Define Port Autobaud

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{AUTOBAUD} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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: <i>In the absence of a PortList or the All parameter, the configuration will affect the current port only.</i>
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; <i>Baud Rate</i> , page 5-2.

12.55 Set/Define Port Autoconnect

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{l} \text{PortList} \\ \text{ALL} \end{array} \right] \text{AUTOCONNECT} \left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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: <i>In the absence of a PortList or the All parameter, the configuration will affect the current port only.</i>
See Also	Set/Define Port Preferred, page 12-45; Show/Monitor/List Ports, page 12-103; <i>Preferred Services and Hosts</i> , page 5-4.

12.56 Set/Define Port Autoprompt

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{AUTOPROMPT} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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.

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 AUTOPROMPT DISABLED

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

12.57 Set/Define Port Autostart

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{AUTOSTART} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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.

Applies 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

$\left. \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{BACKWARD} [\text{SWITCH}] \left\{ \begin{array}{c} \text{character} \\ \text{NONE} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{BITRONICS} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{BREAK} \left\{ \begin{array}{c} \text{LOCAL} \\ \text{REMOTE} \\ \text{DISABLED} \end{array} \right\}$

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.*

Local

The Break key is processed by the ETS; the user is returned to Local mode.

Remote

The Break key is passed through to the remote service.

Disabled

The Break key does nothing.

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{BROADCAST} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{CHARACTER} [\text{SIZE}] \left\{ \begin{array}{c} 7 \\ 8 \end{array} \right\}$

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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{l} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{COMMAND} [\text{COMPLETION}] \left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\text{DEFINE PORT} \left[\begin{array}{l} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{DEDICATED}$	$\left\{ \begin{array}{l} \text{SERVICE } \textit{ServiceName} \left[\begin{array}{l} \text{NONE} \\ \text{DESTINATION } \textit{Port} \\ \text{ENVIRONMENT } \textit{EnvString} \\ \text{NODE } \textit{NodeName} \end{array} \right] \\ \text{TELNET} \left[\begin{array}{l} \textit{hostname} [\textit{EnvString}] \\ \text{NONE} \end{array} \right] \\ \text{RLOGIN } \textit{hostname} \end{array} \right\}$
-------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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	<p>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 (-).</p>

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 12-5: Environment Strings

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

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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{l} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{DIALBACK} \left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{DIALUP} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{DSRLOGOUT} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{DTRWAIT} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{FLOW} [\text{CONTROL}] \left\{ \begin{array}{c} \text{CTS} \\ \text{DISABLED} \\ \text{DSR} \\ \text{ENABLED} \\ \text{NONE} \\ \text{XON} \end{array} \right\}$

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	<p>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 (-).</p> <p>NOTE: <i>In the absence of a PortList or the All parameter, the configuration will affect the current port only.</i></p> <p>CTS Use CTS/RTS flow control.</p> <p>Disabled Deactivates the configured flow control method.</p> <p>DSR Specifies DSR/DTR flow control.</p> <p>Enabled Specifies the configured flow control method.</p> <p>None Specifies no flow control (removes a CTS, DSR, or XON setting).</p> <p>XON Use XON/XOFF flow control.</p>
Examples	Local> SET PORT FLOW CONTROL DSR
See Also	Show/Monitor/List Ports, page 12-103; <i>Flow Control</i> , page 5-2.

12.70 Set/Define Port Forward

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{FORWARD} [\text{SWITCH}] \left\{ \begin{array}{c} \text{character} \\ \text{NONE} \end{array} \right\}$

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	<p>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 (-).</p>

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

<pre>SET PORT $\left[\begin{array}{c} PortList \\ ALL \end{array} \right]$ GROUPS $\left\{ \begin{array}{c} grouplist \\ ALL \end{array} \right\}$ $\left[\begin{array}{c} ENABLED \\ DISABLED \end{array} \right]$</pre>

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{INACTIVITY} [\text{LOGOUT}] \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{LOCAL} [\text{SWITCH}] \left\{ \begin{array}{c} \textit{character} \\ \text{NONE} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{LOSS} [\text{NOTIFICATION}] \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left. \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{MENU} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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 Set/Define Menu, page 12-25; Clear/Purge Menu, page 12-6; Show/Monitor/List Menu, page 12-101; *Menu Mode*, page 5-15.

12.76 Define Port Modem Control

$\text{DEFINE PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{MODEM} [\text{CONTROL}] \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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, ETS8, ETS8P, ETS16, ETS16P The EPS1, EPS2, EPS4, ETS8, 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

$\left. \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{NAME } \textit{portname}$

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.*

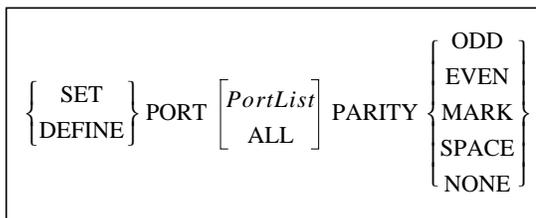
portname

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

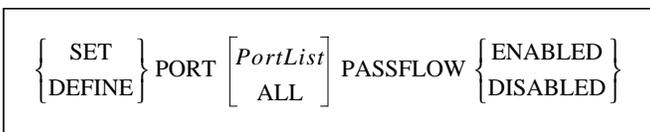
Errors Autobaud will not work unless the port is using 8 bit characters, or 7 bit characters with Even parity.

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 Set/Define Port Autobaud, page 12-27; Set/Define Port Character Size, page 12-32; Set/Define Port Stop, page 12-50; Show/Monitor/List Ports, page 12-103; *Parity, Character Size, and Stop Bits*, page 5-4.

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 through 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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{PASSWORD} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{PREFERRED} \left\{ \begin{array}{l} \text{SERVICE } \textit{ServiceName} \left[\begin{array}{c} \text{NONE} \\ \text{DESTINATION } \textit{Port} \\ \text{ENVIRONMENT } \textit{EnvString} \\ \text{NODE } \textit{NodeName} \end{array} \right] \\ \text{TELNET } \left[\begin{array}{c} \textit{hostname} \left[\textit{EnvString} \right] \\ \text{NONE} \end{array} \right] \end{array} \right\}$

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 prefaced by either "+" or "-." The generic key letters are:

Table 12-6: Environment Strings

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

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

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

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 Set/Define Port Security, page 12-48; Show/Monitor/List Ports, page 12-103.

12.83 Set/Define Port Remote Configure

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

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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{l} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{SECURITY} \left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{l} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{SESSION LIMIT} \left\{ \begin{array}{l} \textit{limit} \\ \text{NONE} \end{array} \right\}$

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 Set/Define Server Session Limit, page 12-80; Configuring Your Port, page 6-2.

12.86 Set/Define Port Signal Check

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

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

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

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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{l} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{SPEED } \textit{BaudRate}$

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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{l} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{STOP} \left\{ \begin{array}{l} 1 \\ 2 \end{array} \right\}$

Configures whether the port will use 1 or 1 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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{l} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{TELNET} [\text{PAD}] \left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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 Termttype

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{l} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{TERMTTYPE} \left\{ \begin{array}{l} \textit{TermString} \\ \text{NONE} \end{array} \right\}$

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 TERMTTYPE "vt100"

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

12.92 Set/Define Port Type

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{TYPE} \left\{ \begin{array}{c} \text{ANSI} \\ \text{SOFTCOPY} \\ \text{HARDCOPY} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{USERNAME} \left\{ \begin{array}{c} \textit{username} \\ \text{NONE} \end{array} \right\}$

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

$\left. \begin{array}{c} \{ \text{SET} \\ \{ \text{DEFINE} \} \end{array} \right\} \text{PORT} \left[\begin{array}{c} \textit{PortList} \\ \text{ALL} \end{array} \right] \text{VERIFICATION} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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/Noprivileged

SET { PRIVILEGED[OVERRIDE] NOPRIVELEGED }

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	<pre>Local> SET NOPRIVILEGED Password> system (not echoed) Local> SET PRIVILEGED OVERRIDE Password> system (not echoed)</pre>
See Also	Set/Define Server Privileged Password, page 12-76; <i>Privileged Password</i> , page 3-7.

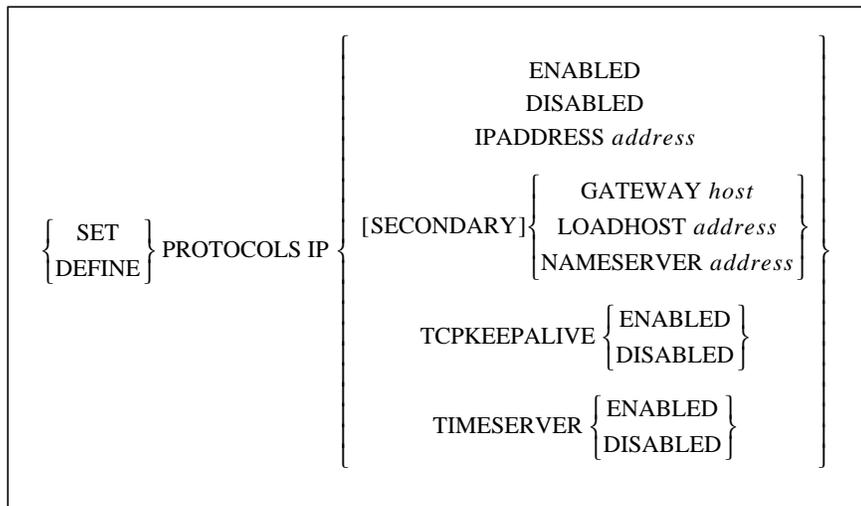
12.96 Define Protocols AppleTalk

{ SET DEFINE } PROTOCOLS APPLETALK { ENABLED DISABLED ZONE ZoneName }

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; <i>AppleTalk Server Parameters</i> , 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 Set/Define Server IPaddress, page 12-69; Set/Define Server Gateway, page 12-65; Set/Define Server Loadhost, page 12-70; Set/Define Server Nameserver, page 12-73; *TCP/IP Server Parameters*, page 4-5; **Installation Guide**.

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

DEFINE PROTOCOLS NETWARE { ENABLED } { DISABLED }

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

{ SET } { DEFINE }	PROTOCOLS NETWARE ACCESS { ALL } { fileserver } { LOCAL }
-----------------------	-----------------------------------------------------------------

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

```
{ SET } PROTOCOLS NETWARE ENCAPSULATION { 802_2 } { ENABLED }
{ DEFINE } { ETHER_II } { DISABLED }
{ NATIVE }
{ SNAP }
```

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

$\left. \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\}$	PROTOCOLS NETWARE INTERNAL [NETWORK] <i>netnum</i>
----------------------------------------------------------------------------	----------------------------------------------------

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; <i>NetWare Server Parameters</i> , page 4-4.

12.107 Set/Define Protocols NetWare Loadhost

$\left. \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\}$	PROTOCOLS NETWARE LOADHOST $\left\{ \begin{array}{c} \textit{fileserv} \\ \text{NONE} \end{array} \right\}$
----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

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	fileserv The fileserv 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; <i>NetWare Server Parameters</i> , page 4-4.

12.108 Set/Define Protocols NetWare Printserver

<pre> { SET } { DEFINE } PROTOCOLS NETWARE PRINTSERVER { printserver } { NONE } </pre>

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

<pre> { SET } { DEFINE } PROTOCOLS NETWARE RESET </pre>

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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\}$ PROTOCOLS NETWARE ROUTING $\left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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.

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 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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\}$ SERVER ANNOUNCEMENTS $\left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

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 *Enabling Announcements*, page 4-2.

12.112 Set/Define Server BOOTP

$\left. \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER BOOTP} \left. \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left. \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER BROADCAST} \left. \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left. \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER BUFFERING } \textit{buffersize}$

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

$\left. \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER CIRCUIT [TIMER] } \mathit{TimerValue}$

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

$\left. \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER CONSOLE [PORT] } \mathit{PortNum}$

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	Show/Monitor/List Protocols IP, page 12-104; <i>TCP/IP</i> , page 2-6.

12.118 Set/Define Server Dump

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

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.

Errors	If no gateway is defined, an error message is returned.
Parameters	<p>Secondary If desired, a secondary gateway can be configured for use when the primary gateway is unavailable.</p> <p>IPaddress Enter an IP address in standard numeric format. Specifying “0.0.0.0” as the address clears any previously-defined setting.</p>
Examples	<pre>Local> SET SERVER GATEWAY 192.0.1.27</pre> <pre>Local> SET SERVER SECONDARY GATEWAY 192.0.1.10</pre>
See Also	Set/Define Server Nameserver, page 12-73; Set/Define Server Subnet Mask, page 12-83; Show/Monitor/List Protocols IP, page 12-104; TCP/IP, page 2-6; TCP/IP Server Parameters, page 4-5.

12.120 Set/Define Server Groups

See Set/Define Server Service Groups, page 12-79.

12.121 Set/Define Server Host Limit

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER HOST [LIMIT]} \left\{ \begin{array}{c} \text{limit} \\ \text{NONE} \end{array} \right\}$

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	<p>limit The server can be limited to between 0 and 200 hosts. The default is 20 hosts.</p> <p>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.</p> <p>None No limit is imposed.</p>
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

<pre>{ SET } { DEFINE } SERVER IDENTIFICATION <i>IDstring</i></pre>

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	Set/Define Protocols LAT, page 12-56; Show/Monitor/List Protocols, page 12-104; Show/Monitor/List Server, page 12-108; <i>Server Identification</i> , page 4-3.

12.123 Set/Define Server Inactivity Timer

<pre>{ SET } { DEFINE } SERVER INACTIVITY [TIMER] <i>limit</i></pre>

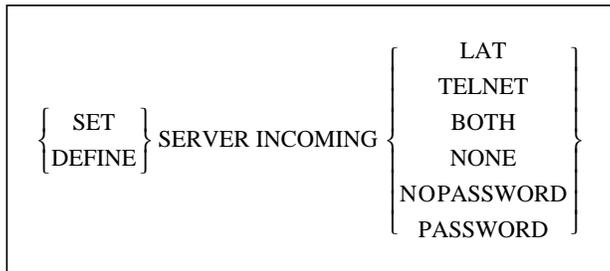
Sets the period of time after which a port with Inactivity Logout enabled is considered inactive and automatically logged out.

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; <i>Inactivity Logout</i> , 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 Set/Define Server Rlogin, page 12-79; Show/Monitor/List Server, page 12-108; *LAT and TCP/IP Connectivity*, page 2-12; *System Passwords*, page 3-7.

12.125 Set/Define Server IPaddress

$\left. \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER IPADDRESS } IPaddress$

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, EPS4P1, EPS4, ETS4P4, ETS8, ETS8P, ETS16, ETS16P, MPS, LPS
Restrictions	You must be the privileged user to use this command.
Parameters	IPaddress Enter the address in standard numeric format.
Examples	Local> SET SERVER IPADDRESS 192.0.1.49
See Also	Set/Define Server Subnet Mask, page 12-83; Show/Monitor/List Server, page 12-108; Show/Monitor/List Protocols IP, page 12-104; <i>TCP/IP</i> , page 2-6.

12.126 Set/Define Server Keepalive Timer

$\left. \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER KEEPALIVE}[\text{TIMER}]time$

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	time Enter the time period in seconds.
Examples	Local> SET SERVER KEEPALIVE TIMER 30
See Also	Show/Monitor/List Server, page 12-108; <i>Network Timers</i> , page 4-3.

12.127 Set/Define Server Loadhost

$\left. \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER [SECONDARY] LOADHOST } IPaddress$

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 loadhost 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

$\left. \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER LOCK} \left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left. \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER LOGIN [PASSWORD][passwd]}$

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; <i>Login Password</i> , page 3-8.

12.130 Set/Define Server Maintenance Password

$\left. \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER MAINTENANCE [PASSWORD][passwd]}$

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	<i>Maintenance Password</i> , page 3-8.

12.131 Set/Define Server Multicast Timer

$\left. \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER MULTICAST[TIMER] } timer$

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; <i>Network Timers</i> , page 4-3.

12.132 Set/Define Server Name

$\left. \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER NAME } ServerName$

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 <i>servername_text</i> or <i>servername_p1</i> , 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; <i>Changing the Server Name</i> , page 3-4.

12.133 Set/Define Server Nameserver

```
{ 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	<p>Secondary Allows you to specify a backup nameserver for when the primary nameserver is unavailable.</p> <p>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.</p>
Examples	<pre>Local> SET SERVER NAMESERVER 192.0.1.49 Local> SET SERVER SECONDARY NAMESERVER 192.0.1.34</pre>
See Also	Define Protocols IP, page 12-55; Show/Monitor/List Protocols IP, page 12-104; TCP/IP, page 2-6; Other TCP/IP Parameters, page 4-5; Editing the Boot Parameters, page 3-6.

12.134 Set/Define Server NetWare Loadhost

```
{ 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	<p>ServerName Enter a file server name of up to 11 characters. The null string (" ") returns the setting to undefined.</p> <p>None Clears the previously-configured loadhost.</p>
Examples	<pre>Local> SET SERVER NETWARE LOADHOST FRED</pre>
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

<pre> { SET DEFINE } SERVER NETWORKE PRINTSERVER { ServerName NONE } </pre>

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	<p>ServerName Enter a print server name of up to 8 characters. The null string (" ") returns the setting to undefined.</p> <p>None Clears the previously-configured setting.</p>
Examples	Local> SET SERVER NETWORKE 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

<pre> SET SERVER NETWORKE RESET </pre>

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 NETWORKE 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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER NODE [LIMIT]} \left\{ \begin{array}{l} \textit{limit} \\ \text{NONE} \end{array} \right\}$

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	<p>limit The server can be limited to between 0 and 200 hosts. The default is 50 nodes.</p> <p>None No limit is imposed.</p>
Examples	Local> SET SERVER NODE LIMIT 6
See Also	Show/Monitor/List Server, page 12-108; <i>Node Limit</i> , page 4-3.

12.138 Set/Define Server Password Limit

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER PASSWORD [LIMIT]} \left\{ \begin{array}{l} \textit{limit} \\ \text{NONE} \end{array} \right\}$

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	<p>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.</p> <p>None Changes the retry limit to 0 (no limit).</p>
Examples	Local> SET SERVER PASSWORD LIMIT 10
See Also	Set Privileged/Noprivileged, page 12-54; Set/Define Server Privileged Password, page 12-76; <i>System Passwords</i> , page 3-7.

12.139 Set/Define Server Privileged Password

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

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

```
{ SET }
{ DEFINE } SERVER PROMPT PromptString
```

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

String	Substituted Value	String	Substituted Value
%p	port name	%C	manufacturer name (Lantronix)
%n	port number	%D	product name (ETS, EPS, MPS)
%s	server name	%P	“>” to denote privileged user
%S	session name	%%	%

Examples (Shown with the resulting prompts on the next command line)

```
Local> SET SERVER PROMPT "Port %n:"
Port 1: SET SERVER PROMPT "%D:%s!"
ETS8P:LabServ! SET SERVER PROMPT "%p%S_%n%P%"
Port_2[NoSession]_2>% SET SERVER PROMPT "Lcl_%n>%P"
Lcl_3>>
```

See Also *Changing the Server Prompt*, page 3-5.

12.141 Set/Define Server Queue Limit

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER QUEUE [LIMIT]} \left\{ \begin{array}{l} \textit{limit} \\ \text{NONE} \end{array} \right\}$

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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER RARP} \left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

{ SET DEFINE }	SERVER RELOAD	{ ALWAYS DEFAULT }
-------------------------	---------------	-----------------------------

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 Initialize Server Reload, page 12-13; *Reloading Operational Software*, page 3-6.

12.144 Set/Define Server Retransmit Limit

{ SET DEFINE }	SERVER RETRANSMIT [LIMIT] <i>RetransLimit</i>
-------------------------	-----------------------------------------------

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER RLOGIN} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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 Show/Monitor/List Server, page 12-108; Set/Define Server Incoming, page 12-68; *Rlogin*, page 2-7.

12.146 Set/Define Server Service Groups

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER} [\text{SERVICE}] \text{GROUPS} \left\{ \begin{array}{c} \text{ALL} \\ \textit{GroupList} \end{array} \right\} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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 Set/Define Port Authorized Groups, page 12-27; Show/Monitor/List Server, page 12-108; *LAT*, page 2-4.

12.147 Set/Define Server Session Limit

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER SESSION [LIMIT]} \left\{ \begin{array}{c} \textit{limit} \\ \text{NONE} \end{array} \right\}$

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.

None
Returns the session limit to the default value of 8.

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER SILENTBOOT} \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left. \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER SLIP [PASSWORD]} \left\{ \begin{array}{c} \textit{passwd} \\ \text{NONE} \end{array} \right\}$

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	<p>passwd Enter a password of up to 6 alphanumeric characters. Entering a null string (" ") disables the password.</p> <p>None Clears any previously-entered password, removing the password restriction from SLIP connections (the default).</p>
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; <i>SLIP</i> , page 4-7.

12.150 Set/Define Server Software

$\left. \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVER SOFTWARE } \textit{filename}$

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	<p>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.</p>
Examples	<pre>Local> DEFINE SERVER SOFTWARE ETS Local> DEFINE SERVER SOFTWARE "SYS:\LOGIN\PS1.SYS" Local> DEFINE SERVER SOFTWARE "/tftpboot/tscode"</pre>

See Also Set/Define Server Loadhost, page 12-70; *Reloading Operational Software*, page 3-6; **Installation Guide**.

12.151 Set/Define Server Startupfile

$\left. \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\}$	SERVER STARTUPFILE	$\left[\begin{array}{l} \textit{host:filename} \\ \textit{node::filename} \\ \textit{node\sys:\login\filename} \end{array} \right]$	$\left[\text{RETRY num} \right]$
		NONE	

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

$\left. \begin{array}{l} \{ \text{SET} \\ \text{DEFINE} \} \end{array} \right\} \text{SERVER SUBNET [MASK] mask}$

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	Set/Define Server IPAddress, page 12-69; Set/Define Server Gateway, page 12-65; <i>TCP/IP</i> , page 2-6; <i>IP Address</i> , page 4-5.

12.153 Set/Define Server UUCP

$\left. \begin{array}{l} \{ \text{SET} \\ \text{DEFINE} \} \end{array} \right\} \text{SERVER UUCP} \left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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	<i>UUCP Support</i> , page 2-11.

12.154 Set/Define Service

$\left. \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } \textit{ServiceName}$

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

$\left. \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } \textit{ServiceName} \text{ APPLETALK } \left. \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } \textit{ServiceName} \text{ BANNER } \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } \textit{ServiceName} \text{ BINARY } \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

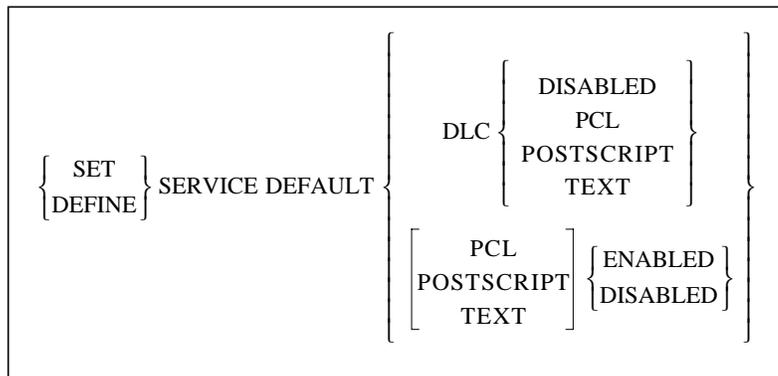
If the binary characteristic is enabled on a service, there will be no data processing (<CR> to <CR> <LF> translation and tab expansion). The binary characteristic should be enabled when printing PCL data.

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	<p>DLC Sets this service as the handler for Windows NT DLC print connections. Only one MPS service can have DLC enabled.</p> <p>PCL Enables or disables the MPS_XXXXXX_PCL service, which accommodates binary print jobs (for example, plotter or PCL files).</p> <p>POSTSCRIPT Enables or disables the MPS_XXXXXX_PS service, which accommodates PostScript print jobs.</p> <p>TEXT Enables or disables the MPS_XXXXXX_TEXT service, which accommodates text print jobs.</p>
Examples	<pre>Local>> DEFINE SERVICE DEFAULT DLC POSTSCRIPT Local>> DEFINE SERVICE DEFAULT PCL DISABLED</pre>
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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } ServiceName \text{ DLC } \left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } ServiceName \text{ EOJ } \left\{ \begin{array}{l} EndString \\ \text{NONE} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } \textit{ServiceName} \text{ FORMFEED } \left\{ \begin{array}{c} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{c} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } \textit{ServiceName} \text{ IDENTIFICATION } \left\{ \begin{array}{c} \textit{IDstring} \\ \text{NONE} \end{array} \right\}$

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 } SERVICE ServiceName LANMANAGER { ENABLED }
{ DEFINE } { 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 } SERVICE ServiceName LAT { ENABLED }
{ DEFINE } { 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 } SERVICE ServiceName NETWARE { ENABLED }
{ DEFINE } { 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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } \textit{ServiceName} \text{ PASSWORD } \left\{ \begin{array}{l} \textit{passwd} \\ \text{NONE} \end{array} \right\}$

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	<p>passwd Choose a password of up to 6 alphanumeric characters.</p> <p>None Clears any previously-configured password for the given service.</p>
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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } \textit{ServiceName} \text{ PORTS } \left\{ \begin{array}{l} \textit{PortList} \\ \text{ALL} \end{array} \right\} \left[\begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right]$

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	<p>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 (-).</p>
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; <i>Creating Services</i> , page 4-13.

12.168 Set/Define Service PostScript

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } \textit{ServiceName} \text{ POSTSCRIPT } \left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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; <i>Enabling Other Service Options</i> , page 4-16.

12.169 Set/Define Service PSConvert

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE PS CONVERT } \left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } \textit{ServiceName} \text{ RTEL } \left\{ \begin{array}{l} \text{ENABLED} \\ \text{DISABLED} \end{array} \right\}$

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; <i>Reverse Telnet (RTEL)</i> , page 2-11.

12.171 Set/Define Service SOJ

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } \textit{ServiceName} \text{ SOJ } \left\{ \begin{array}{l} \textit{StartString} \\ \text{NONE} \end{array} \right\}$

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	<p>StartString Any ASCII characters, or a backslash and two hex digits.</p> <p>None Clears any previously-configured string. No string is configured by default.</p>
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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICES } \textit{ServiceName} \text{ TCPPORT } \left\{ \begin{array}{l} \textit{portnum} \\ \text{NONE} \end{array} \right\}$

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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} \text{SERVICE } \textit{ServiceName} \text{ TELNETPORT } \left\{ \begin{array}{l} \textit{portnum} \\ \text{NONE} \end{array} \right\}$

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	<p>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.</p>
Examples	Local> SET SERVICE hydra VIRTUAL ENABLED
See Also	Clear/Purge Service, page 12-7; Show/Monitor/List Services, page 12-110; <i>LAT and TCP/IP Connectivity</i> , 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	<p>Delete Sends a delete character (ASCII 0x7f) when the Delete key is pressed.</p> <p>Backspace Sends a backspace character (ASCII 0x8, Ctrl-H) when the Delete key is pressed.</p>
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 Pass-thru 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.

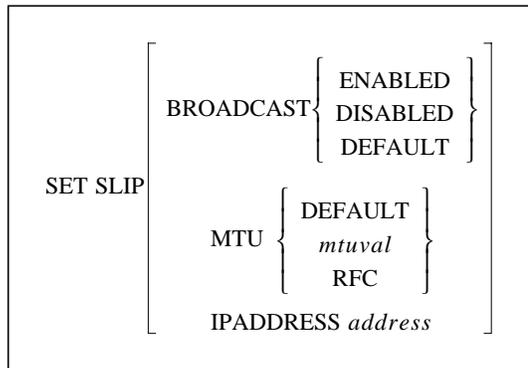
12.181 Set/Define SLIP

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

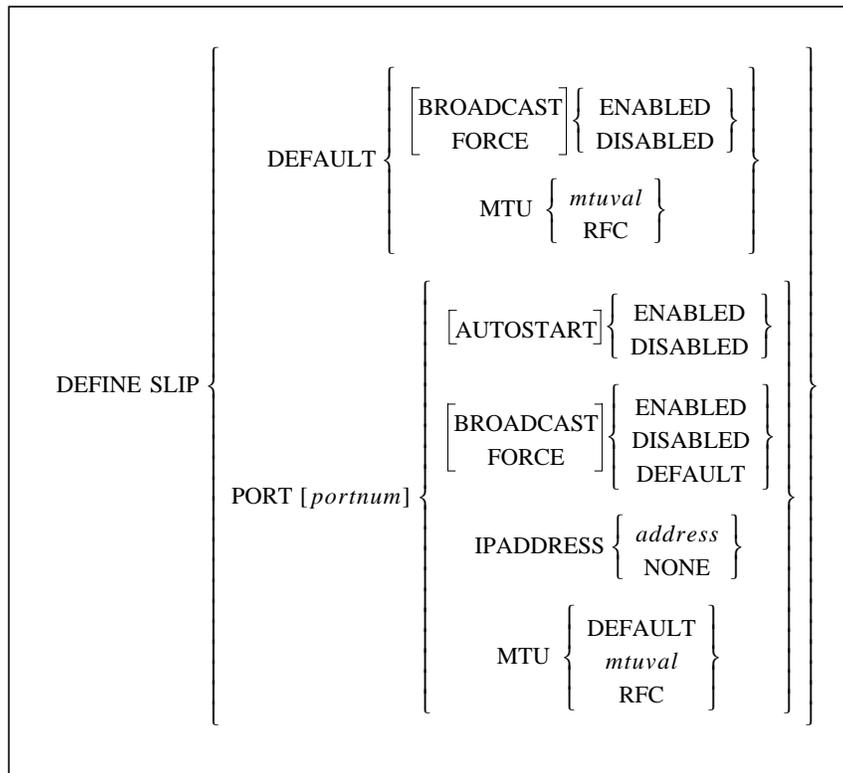
```

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

$\left\{ \begin{array}{l} \text{SET} \\ \text{DEFINE} \end{array} \right\} [\text{TELNET}] \text{ HOSTS } \textit{hostname ipaddress}$

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	<p>hostname Enter the hostname string you wish to define, limited to 64 alphanumeric characters. Only 16 characters are allowed between period delimiters.</p> <p>ip_address Enter the standard numeric IP address of the machine referred to by the <i>hostname</i>.</p>
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; <i>Local Host Table</i> , page 2-8; <i>Local Host Table</i> , page 4-6.

12.184 Show/Monitor/List Dialback

$\left\{ \begin{array}{l} \text{SHOW} \\ \text{MONITOR} \\ \text{LIST} \end{array} \right\} \text{ DIALBACK}$

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; <i>Modem Features</i> , page 2-16; <i>Dialback</i> , page 5-13; <i>Status Displays</i> , page 6-9.

12.185 Show/Monitor/List Hosts

See Show/Monitor/List [Telnet] Hosts, page 12-112.

12.186 Show/Monitor/List IPsecurity

{ 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 Clear/Purge IPsecurity, page 12-6; Set/Define IPsecurity, page 12-22; Security, page 2-17; *IP Security Table*, page 4-18; *Status Displays*, page 6-9.

12.187 Show/Monitor/List Logging

{ 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 Set/Define Logging, page 12-24; *Event Reporting/Logging*, page 2-18; *Event Logging*, page 4-20; *Status Displays*, page 6-9.

12.188 Show/Monitor/List Menu

{ SHOW MONITOR LIST }	MENU
-----------------------------------	------

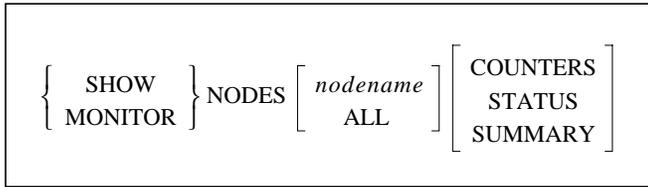
Displays the current or saved menu entries.

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.

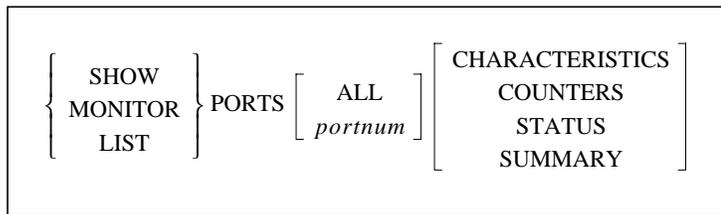
12.189 Show/Monitor Nodes



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	<p>NodeName Displays information regarding only that node.</p> <p>All (or *) Displays information regarding all known LAT nodes on the network (the default).</p> <p>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.</p> <p>Status Displays Summary information plus the node's Ethernet address, the service(s) offered, and the ident strings of those services.</p> <p>Summary Displays the nodes, their identifications strings, and the LAT protocol version (the default).</p>
Examples	Local> MONITOR NODE corky COUNTERS
See Also	Set/Define Service LAT, page 12-89; <i>Node Limit</i> , page 4-3; <i>Status Displays</i> , page 6-9; <i>Printing to a Service</i> , 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.

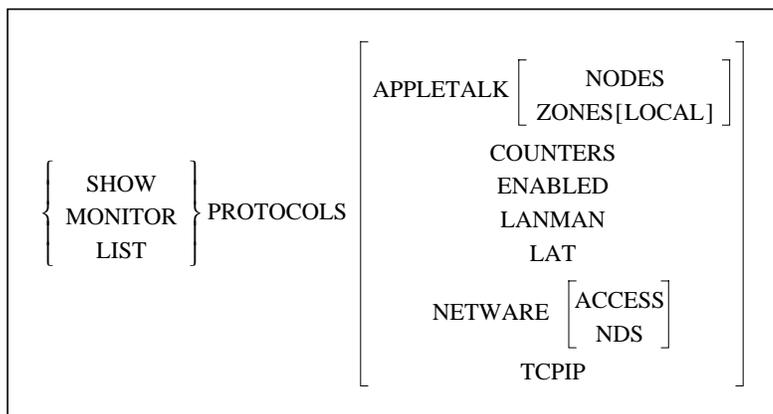
Status
Displays the port's connection status: the number of sessions and information about the current connection. It also shows the current flow control state and the state of the DSR and DTR serial signals.

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

Bit	Meaning	Explanation
0	Received packet for an unknown IPX protocol.	Packet discarded.
1	Received packet for unknown socket.	Packet discarded.
2	Couldn't attach to print queue on file server.	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.
3	Couldn't connect to a fileserver.	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.
4	Couldn't log out of the fileserver.	This bit should never be set.
5	The ETS couldn't get its server name and password credentials from fileserver during login.	Login fails.
6	Fileserver did not accept the ETS' server name and password credentials.	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.
7	Couldn't log into the fileserver.	Perhaps the login slots are filled.
8	Check membership call failed.	While scanning for print queues, the ETS checks the memberships of various objects; this is not generally a problem.
9	Couldn't map user to trustee.	This is where the ETS tries to get rights to access the print queue; login fails.
10	Couldn't attach to print queue on fileserver.	Same as bit 2.
11	Couldn't service the print queue or couldn't read the job.	There is a print job on the fileserver, but the ETS cannot access it.
12	Couldn't open a file on the fileserver.	This is not a serious error.
13 +	Unused, should be 0.	

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

Bit	NDS Error Reason
0	Success
1	Print server ran out of memory
2	Unexpected response from file server
3	Unexpected response from file server
4	No printers found for the print server
5	No queue found for the printer
6	Login failed.
7	Authentication failed
8	Print server cannot attach to queue

TCPIP

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.

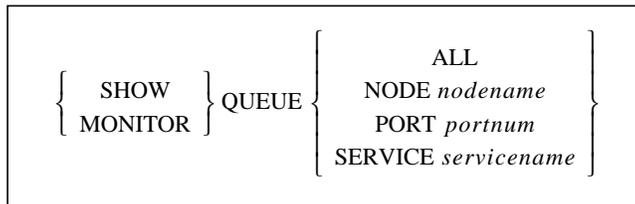
Table 12-10: ICMP Failure Reasons

Bit	ICMP Message Reason
0	ICMP echo message received
1	ICMP echo reply received
2	Destination unavailable—see bits 4-7
3	Unknown ICMP type received
4	Network unreachable, usually from a gateway host
5	Host unreachable
6	Port unreachable, usually due to attempting to nameserve an unwilling host
7	Protocol unreachable
8-15	Unused, should be 0

Examples Local> SHOW PROTOCOLS APPLETTALK 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.

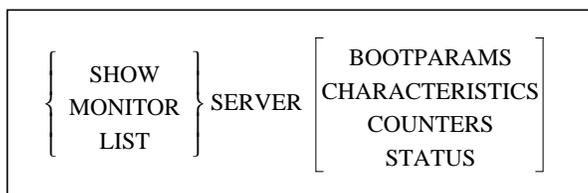
Service *servicename*
Displays the entries waiting for the specified service.

Examples Local> SHOW QUEUE Port 2

Local> MONI QUEUE Service lab5

See Also Set/Define Server Queue Limit, page 12-77; *Status Displays*, page 6-9.

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

Field	Meaning of Counter
Frames sent with xx collisions	Gives a rough estimate of Ethernet traffic. In general, higher traffic levels cause more collisions.
Bad Destination	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.
Buffer Unavailable	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).
Data Overrun	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.
Reasons	Values represent a combination of the error reasons that have occurred since the counters were last zeroed.

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 right-most bit being zero).

Table 12-12 shows the ETS failure reasons and their meanings.

Table 12-12: Failure Reasons

Bit	Send Failure Reason	Receive Failure Reason	Connect Failure Reason	Invalid Packet Reason
0	Unused, should be 0	Unused, should be 0	Internal failure, should be 0	Data received outside window
1		Packet received with CRC error		Connection was terminated abnormally
2	At least one collision has occurred while transmitting	Received packet did not end on byte boundary	No nameserver defined for a text hostname	Packet received with an invalid data checksum
3	Transmit aborted due to excessive (more than 16) network collisions	FIFO overrun: could not write received data before new data arrived	Attempted nameservice failed	Packet received with an invalid data header
4	Carrier sense was lost during transmission	Receive packet could not be accommodated due to lack of available receive buffers	No gateway was configured for a non-local connection	RST packet sent to remote node
5	FIFO underrun: Ethernet controller could not access transmit data in time to send it out (ERROR)	Received a packet larger than the maximum Ethernet size (1536 bytes)	Attempted ARP failed	Packet received for an unknown local user
6	ETS did not receive CD heartbeat after transmission	Unused, should be 0	Remote host did not answer	Unused, should be 0
7	Out-of-window collision detected		Host rejected the connection	
8-15	Unused, should be 0		Unused, should be 0	

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

<pre> { SHOW } { MONITOR } } SESSIONS [PORT <i>portnum</i>] [ALL] </pre>

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, <i>User Sessions</i> .

12.196 Show/List SLIP

<pre> { SHOW } { LIST } } SLIP [PORT <i>portnum</i>] </pre>

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; <i>Serial Line Internet Protocol (SLIP)</i> , page 2-9; <i>SLIP</i> , page 4-7; <i>Status Displays</i> , page 6-9.

12.197 Show/Monitor/List SNMP

{ 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 Clear/Purge SNMP, page 12-8; Set/Define SNMP, page 12-99; *Simple Network Management Protocol (SNMP)*, page 2-10; *SNMP Security*, page 4-20; *Status Displays*, page 6-9.

12.198 Show/Monitor/List [Telnet] Hosts

{ SHOW MONITOR LIST } [TELNET] HOSTS [ALL hostname]

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 Set/Define Port Username, page 12-52; *Status Displays*, page 6-9.

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 Set/Define Server Software, page 12-81; *Reloading Operational Software*, page 3-6; *Status Displays*, page 6-9.

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

Set/Define Server Software, page 12-82; **Installation Guide**.

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

$\text{TEST LOOP } \mathit{address} \left[\text{HELP} \left\{ \begin{array}{c} \text{RECEIVE} \\ \text{TRANSMIT} \\ \text{FULL} \end{array} \right\} \text{ASSISTANT } \mathit{address} \right]$

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

$\text{TEST PORT } [\mathit{portnum}] \left[\begin{array}{c} \text{POSTSCRIPT} \\ \text{COUNT } \mathit{count} \\ \text{WIDTH } \mathit{width} \end{array} \right]$

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

<pre>TEST SERVICE <i>ServiceName</i> [COUNT <i>count</i> DESTINATION <i>port</i> [<i>NODE name</i>] POSTSCRIPT WIDTH <i>width</i>]</pre>

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	<p>Count Governs the number of test lines that will be sent. Generally, the <i>count</i> 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.</p> <p>Destination The test stream will be sent to the specified port on the LAT device.</p> <p>Node The test stream will be sent to the specified node of the LAT destination port.</p>

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 [ALL PORT <i>portnum</i>]

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.