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SCP Maintenance and Operations Console (MOC) User Reference Card: SCP Tools

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USING SCP TOOLS

This card provides quick instructions on how to access and use SCP tools. SCP tools are divided into node tools, SS7 tools, and verifiers. (VMS tools are not included.)

- Log into a VT Series terminal emulation window directly connected to a Local or Remote MOC using your account and the corresponding password. The *MCmmnn_xxxx_>* prompt is displayed.

- From a MOC workstation, either select an appropriate tool from the Main Menu's pull-down menus, or open a window from the workstation Background Menu. Log into the Local or Remote MOC using your account and the corresponding password. The *MCmmnn_xxxx_>* prompt is displayed.

For each of the following commands, replace *mm* with the member number and *nn* with the SCP node number of the processor for which you are issuing the command.

Each tool listed below is explained in detail in the *SCP Node Diagnostic Tools Reference Manual* (BR 780-003-019). The related chapter number for each tool is given in parentheses following the tool name. An asterisk (*) precedes each tool that is accessible through an option on the MOC Main Menu's pull-down menus.

SCP NODE TOOLS

* To use the Status File Monitor tool (Chapter 2):
MCmmnn_xxxx_> set host <CP*mmnn*> <CR>
Log in using your account and the corresponding password.
Enter the following command:
CPmmnn_xxxx_> monstu <CR>
The SCP Status File Monitor CP screen is displayed.

To exit, at the *Enter Command:* prompt, enter: exit <CR> or <CTRL> Z

* To use the CMH Service Monitor tool (Chapter 3):
MCmmnn_xxxx_> set host <CP*mmnn* for control processor you wish to check> <CR>
Log in using your account and the corresponding password.
Enter the following command:
CPmmnn_xxxx_> monmem <CR>
The CMH SERVICE MONITOR screen is displayed.

To exit, at the main CMH SERVICE MONITOR menu screen *Command:* prompt, enter: <CTRL> Z

* To use the Resource Monitor tool (Chapter 4):
MCmmnn_xxxx_> mosmon <CR>

To exit, press: <CTRL> Z

* To use the Alarm Log Viewer tool (Chapter 5):
MCmmnn_xxxx_> view_alarms *n* <CR>
Where *n* =   0   for the current version
      -1   for the next to newest version
      -2   for the next to oldest version
      -3   for the oldest version

To exit, press the F10 key or enter: <CTRL> Z.

To use the Read Event Log tool (Chapter 6):
MCmmnn_xxxx_> set host <CP*mmnn*> <CR>
Log in using your account and the corresponding password.
Enter the following command:
CPmmnn_xxxx_> rdevlog [<qualifier(s)>] <filename> <CR>

You do not need to exit this tool.

Optional rdevlog qualifiers:

/before [=date]	/number=[*nnn*| all]
/event_code=[(n,...)]	/output=filename
/pid=process id	/exclude=event code=(n[,...]
/full	/since[=date]
/match=[and | or]	/search=*string*
/node=node-name	/program_name=program name
/severity=[>]severity code or name	
/process_name=process name	

Pattern matching special characters:

.	{m}	[ ]	{m,}	{m,u}	$
–	\	( )	+	*	^

To use the Event Log Analysis Tool (Chapter 7):
MCmmnn_xxxx_> set host <CP*mmnn*> <CR>
Log in using your account and the corresponding password.
Enter the following command:
CPmmnn_xxxx_> dir/date scp_err:scnm_evlog.dat <CR>

To analyze the most recent version of the event log file, enter:
CPmmnn_xxxx_> ela <CR>

To analyze a specific version(s) of the event log file, enter:
CPmmnn_xxxx_> ela <identifier> <CR>

Where <identifier> is replaced by:
     – complete event log file name
     – portion of the filename, using wildcards
     – semicolon (;), followed by the version number
     – semicolon, minus sign (-), and version number

To exit, enter: 0 <CR>

* To use the SCP Event Message Viewer tool (Chapter 8):
MCmmnn_xxxx_> scpmsg <event code> <CR>

To exit, at the *Message Number?* prompt, enter: <CR>

* To use the Get Message tool (Chapter 9):
MCmmnn_xxxx_> msg <decimal/hexadecimal status code(s)> <CR>

<u>Note:</u> When specifying a hexadecimal status code, it must be prefaced with the letter *x*.

You do not need to exit this tool.

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* To use the DCM Monitor Tool (Chapter 10):
MCmmnn_xxxx_> set host <CP*mmnn*> <CR>
Log in using your account and the corresponding password.
Enter the following command:
CPmmnn_xxxx_> mondcm <CR>
The DCM Monitor Tool Menu is displayed.

To exit, enter: <CTRL> Z

To use the MOC Print Command (Chapter 11):
MCmmnn_xxxx_> set host <CP*mmnn*> <CR>
Log in using the your account and the corresponding password. Use the SET DEFAULT command to move to the directory where the file to be printed exists. Enter the following command:
CPmmnn_xxxx_> moc_print <file> <MC*mmnn*> <CR>

You do not need to exit this tool.

SCP SS7 TOOLS

* To use the SS7 Operating Management Commands from a control processor (Chapter 12):
MCmmnn_xxxx_> set host <CP*mmnn*> <CR>
Log in using your account and the corresponding password.
Enter the following command:
CPmmnn_xxxx_> omp {SS*mmnn* or DECnet address for SS7 processor you wish to check} <CR>.

To exit, at the *SSmmnn: CMDxxxx* prompt, enter: EXIT <CR>
To exit the SS7 MANAGEMENT MENU, at the *MENU OPTION?* prompt, enter: E <CR>

To use the SS7 Operating Management Commands from the MOC (Chapter 12):
MCmmnn_xxxx_> omp {SS*mmnn* or DECnet™ address for SS7 processor you wish to check} <CR>

To exit, at the *SSmmnn: CMDxxxx* prompt, enter: exit <CR> or <CTRL> Z

To use the SS7 Measurement Extraction Tool (Chapter 13):
MCmmnn_xxxx_> set host <CP*mmnn*> <CR>
Log in using your account and the corresponding password.
Enter the following command:
CPmmnn_xxxx_> run scp_util:scms_meas_extract <CR>

To exit, press E when viewing a screen.

DECnet is a trademark of Digital Equipment Corporation.

To use the TCAP_DUMP Command (Chapter 14):
For a MOC, enter:
MCmmnn_xxxx_> tcap_dump/ssn=<nnn>[<qualifer(s)>] <CR>
For a control processor, enter:
MCmmnn_xxxx_> set host <CP*mmnn*> <CR>
Log in using your account and the corresponding password.
Enter the following command:
CPmmnn_xxxx_> tcap_dump/ssn=<nnn>[<qualifer(s)>] <CR>
where <nnn> is replaced by subsystem number.
You do not need to exit this tool.

Optional tcap_dump qualifiers:
/before = <point in time>   /node = <CP node name>
/since = <point in time>   /servnet = <service network>
/full   /output = <filename>
/nofull

To use the TCAP_TRAP Command (Chapter 15):
MCmmnn_xxxx_> set host <CP*mmnn*> <CR>
Log in using your account and the corresponding password.
Enter the following command:
CPmmnn_xxxx_> tcap_trap/key=<trap criteria>/ssn=<nnn>
[<qualifier(s)>] <CR>
where <trap criteria> is replaced by the actual service key on
which the trap is to be enabled and <nnn> is replaced by
subsystem number.

You do not need to exit this tool.

Optional tcap_dump qualifiers:
/servnet = <service network>
/time = <time>
/output = <filename>

* To use the SPC Route Status Display tool (Chapter 16):
MCmmnn_xxxx_> set host <CP*mmnn*> <CR>
Log in using your account and the corresponding password.
Enter the following command:
CPmmnn_xxxx_> monss7 <CR>
Select the SPC ROUTE STATUS DISPLAY option from the
SS7 MANAGEMENT MENU.

To exit, press the F10 key or <CTRL> Z
To exit the SS7 MANAGEMENT MENU, at the *MENU
OPTION?* prompt, enter: E <CR>

* To use the Buffer Monitor tool (Chapter 17):
MCmmnn_xxxx_> set host <CP*mmnn* for control processor you
wish to check> <CR>
Log in using your account and the corresponding password.
Enter the following command:
CPmmnn_xxxx_> monbuf <CR>
The BUFFER MONITOR MENU is displayed.

To exit, enter: E <CR>

***To use the Signalling Link Selection (SLS) Map Display
(Chapter 18):**
MCmmnn_xxx_> set host <CP*mmnn*> <CR>
Log in using your account and the corresponding password.
Enter the following command:
CPmmnn_xxxx_> monss7 <CR>
Select the SLS MAP DISPLAY option from the SS7 MANAGE-
MENT MENU. If the SCP is multi-app, the *Application (253 or
254)?* prompt appears and you must indicate which application
you wish to view.
The SLS Map Display appears.

To exit, press the F10 key or <CTRL> Z
To exit the SS7 MANAGEMENT MENU, at the *MENU
OPTION?* prompt, enter: E <CR>

SCP VERIFIERS

The SCP Verifiers Tool (Chapter 19) provides a menu-driven
method for executing any or all of these verifiers:
• SCP Software Verifier
• VMS Software Verifier
• DIRECTORY Software Verifier
• Read-Only FILE PROTECTION Utility
  (FILE PROTECTION Verifier)
• Sysgen Verify Utility

Accessing the SCP Verifiers Tool:
MCmmnn_xxx_> set host <CP*mmnn*> <CR>
where mm is a member number in any control processor and
nn is the node number.
Log into a control processor using your account and the
corresponding password.
CPmmnn_xxxx_> VERIFY_MENU <CR> - or -
CPmmnn_xxxx_> VERIFY <CR>

If no other verifier is running, the Verifiers Main Menu appears.
If another verifier is running, the verifier process exits and a
message to that effect is displayed. Either wait for the currently
running verifier to finish execution or stop that verifier by
following the instructions in Chapter 19.

Selecting Verification Components:
When the Main Menu appears, you can choose to run all the
verifiers with all the components or only a selected few. You
may select only one option at a time from the Main Menu.

To run all verifiers with all components, enter:
1 <CR>
The Selection Review and Execution screen will be shown with
all the verification components displayed.

To run one or more selected verifiers, enter the number for the
verifier to be run and press <CR>. Choices are:

2 (SCP Verifier)
3 (VMS Verifier)
4 (DIRECTORY Verifier)
5 (FILE PROTECTION Verifier, Read-Only)
6 (SYSGEN Verifier)

Selecting any one of the 2 through 6 options automatically
leads to submenu selection screens from which you may
specify the verification component(s) of that verifier. You can
choose more than one selection from a submenu by entering
option numbers separated by a comma (i.e.: 2,3,5).

After completing the choices made from a submenu, entering
<CR> will lead to the Selection Review and Execution screen,
which lists the latest selections. If items selected are not listed,
they were in conflict with the most current selection(s) already
made (see Chapter 19).
If you want to add, delete, or change verification component(s)
on the list, enter N to return to the Main Menu and begin
making changes there.

Executing Verification:
At the Selection Review and Execution screen, begin verifica-
tion of all displayed selections by entering: Y.

Reviewing Selections at the Main Menu:
At the Main Menu, enter:
7 <CR>

Clearing All Previous Selections:
At the Main Menu, enter:
8 <CR>
The *No Selections Entered* message is displayed for two
seconds then the Main Menu appears, cleared of all previous
entries.

Exiting from a Submenu to Return to the Main Menu:
Select the EXIT option in that submenu.

Exiting the Verifier Tool to Display the DCL Prompt:
Go to the Main Menu and select EXIT.

OTHER SCP TOOLS

BX.25 SuperTool (Chapter 25):
The BX.25 SuperTool provides pull-down menu access to
management activities for FEs, Links, and PVCs, as well as
screen access to SCP technical support.

*** Accessing the BX.25 SuperTool from a VT Series
Terminal Window:**
MCmmnn_xxxx_> set host <CPmmnn> <CR>
where *mm* is a member number in any control processor and
nn is the node number.

CPmmnn_xxxx_> RUN SCP_UTIL:SCSITOOLS <CR>

Select items from the menu that appears.

To exit the tool from the main menu, select **F** to display the
FILE pull-down menu and then select EXIT. Otherwise, you can
exit the tool using <CTRL_E>. If the message BACKGROUND
TRACES ARE RUNNING is displayed, enter the "yes" and "no"
prompts as appropriate, depending on whether the traces are
to continue running after you exit. When the last trace prompt is
answered, the tool will exit.

Measurements Summarization Tool (Chapter 26):
The Measurements Summarization Tool is used to collect and
analyze SCP traffic measurements.

**Accessing the Measurements Summarization Tool from
the VT Series Terminal Window on the MOC:**
MCmmnn_xxxx_> set host <CPmmnn> <CR>
where *mmnn* is replaced by the member number and node
number of any non-O-O-O control processor. Log in using your
account and corresponding password.

CPmmnn_xxxx_> set default SCP_DMP <CR>
CPmmnn_xxxx_> @SCP_CMD:SCMS_MEAS_COLLECT<CR>
At the prompt, enter your site name followed by <CR>.
At the prompt, enter current day of the week, followed by <CR>.
At the prompt, display traffic measurements by entering:
TYPE/PAGE * <dd_mmm>.<site name> <CR>
where <dd_mmm> represents today's date and month and
<site name> is the site previously entered.

To exit, enter Q<CR>