

Operations Procedure Support Scripts Migration Guide

OPS, Operations Procedure Support

MIGRATION GUIDE

Contents:

- 1. Description
- 2. Platform Utilities Supported in ENM
- 3. Platform Utilities not supported in ENM
- 4. OPS Commands Supported in ENM
 - 4.1 Change in Behavior of Commands from OSS-RC to ENM
 - 4.2 No Change in Behavior of Commands from OSS-RC to ENM
- 5. OPS Commands Not Supported in ENM
- 6. OSS-RC Utilities Supported in ENM
- 7. Perl And Python Classes Supported in ENM
 - 7.1 Python Classes not Supported
 - 7.2 Perl Libraries Used

1. Description

OPS is migrated to Linux (RHEL) environment in ENM. OPS runs on Solaris environment in OSS-RC.

OPS provides an environment for editing, debugging and running command files using the OPS script language. The main window displays the contents of a command file in one text pane and output from the command file execution in another text pane.

This document describes what will and will not be supported for OPS in ENM and will help guide customers with the migration of existing OPS scripts.

You must have the following roles:

- Ops_Operator
- WinFIOL_Operator
- Element_Manager_Operator
- SystemAdministrator
- SystemSecurityAdministrator
- BscApplicationAdministrator
- Scripting_Operator
- Cmedit_Operator

Note: Other roles may be required depending on what the OPS script aims to do. For example: node roles for actions towards NEs. Refer to the User Management User Guide for instructions on creating a user/role and setting a password.

Crontab can be used for any scheduling activities for OPS in ENM

2. Platform Utilities Supported in ENM

The following list displays the OSS-RC platform utilities still supported in ENM.

S. No	Utility Name	Utility Description
1	cksum	Unix utility
2	cat	Unix utility
3	sed	Unix utility
4	awk	Unix utility
5	ls	Unix utility
6	sort	Unix utility
7	uniq	Unix utility
8	wc	Unix utility
9	join	Unix utility

10	grep	Unix utility
11	echo	Unix utility
12	rm	Unix utility
13	expr	Unix utility
14	date	Unix utility
15	tail	Unix utility
16	head	Unix utility
17	xterm	Unix utility
18	chmod	Unix utility
19	touch	Unix utility
20	ps	Unix utility
21	hostname	Unix utility
22	find	Unix utility
23	diff	Unix utility
24	tr	Unix utility
25	cut	Unix utility
26	cd	Unix utility
27	comm	Unix utility
28	od	Unix utility
29	zipinfo	Unix utility
30	mv	Unix utility
31	sh	Unix utility
32	mkdir	Unix utility
33	egrep	Unix utility
34	strings	Unix utility
35	cp	Unix utility
36	unalias	Unix utility
37	kill	Unix utility
38	perl	3PP
38	python	3PP
40	unzip	Unix utility
41	du	Unix utility
42	ping	Unix utility
43	zip	Unix utility
44	fgrep	Unix utility

3. Platform Utilities not supported in ENM

The following platform utilities are not supported in ENM.

S No	Utility Name	Utility Description (OSS-RC Usage)
1	dos2unix	Solaris utility

2	gpdf	
3	nawk	Unix utility
4	scp2	3PP
5	ssh2	3PP

4. OPS Commands Supported in ENM

The following list displays the supported commands in ENM.

OPS Scripts can be stored at the path /home/shared/<user>/cha/cmdfile and can be run from the path /opt/ops/ops_client/bin/.

For more information on the mentioned commands, refer to the OPS User Guide.

4.1 Change in Behavior of Commands from OSS-RC to ENM

S.No.	Command Type	OPS Script Command Name	Description
1	Miscellaneous	@VERSION	Version command in OSS-RC shows the R-State in the output. In ENM, RPM details are shown in the output. For example: Command: @Comment("You are currently running version ", VERSION()) OSS-RC Output: You are currently running version CXC 172 2483 R34F01 ENM Output: You are currently running version ERICopsparser_CXP9033907-1.2.3-1.noarch
2		@EXECUTE	The platform on which the command works has changed from Solaris(Unix) to Linux. The attributes must be adopted accordingly.

4.2 No Change in Behavior of Commands from OSS-RC to ENM

S.No.	Command Type	OPS Script Command Name
1	Error Handling	@CHECK
2		@IFERROR THEN
3		@SETERRORFLAG
4		GETERRORFLAG()
5	Flow Control Commands	!\$\$\$\$!
6		@BREAK
7		@ELSE
8		@ENDIF
9		@GOTO
10		@IF-THEN
11		@INCLUDE

12		@LABEL
13		@GOSUB
14		@RETURN
15		@FOR-TO
16		@NEXT
17		@ONDISCONNECT
18		@ONTIMEOUT
19		@RESET
20		@RESTART
21		@STOP
22		@SWITCH-CASE-DEFAULT
23		LABELEXIST()
24		@QUIT
25	External System Communication	@CONNECT
26		@DISCONNECT
27		@FUNBUSY
28		@LOGOF
29		@LOGON
30		@MARK
31		@ORDERED
32		@SEND
33		@SETREPLY
34		@WAITFOR
35		@WAITREPLY
36		GETDEST()
37		GETIOTYPE()
38		GETMODE()
39		REPLY()
40		REPLYLEN()
41		SCAN()
42		GETMARK()
43		GETEXCHHDR()
44	File and Printer Logging	@LOG
45		@CLOSE
46		GETLOG()
47	Time Event	ADVANCE()
48		REGRESS()
49	User Input and Output	@CLRSCR
50		@COMMENT
51		@DRAW
52		@FORM

53		@INKEY
54		@INPUT
55		@MENU
56		@PROMPT
57		@WINDEND
58		@WINDOW
59	File System	@CHDIR
60		@ERASE
61		@MKDIR
62		@OPENREAD
63		@READ
64		@RENAME
65		@VIEWFILE
66		@WRITE
67		CENTRALDIR()
68		DISKFREE()
69		GETDIR()
70		GETFILELENGTH()
71		SAVEDIR()
72		@RMDIR
73		PRIVATEDIR()
74		SELFIL()
75	String and Number Processing	CONCAT()
76		COPY()
77		DECIMAL()
78		HEX()
79		LENGTH()
80		LOWCASE()
81		PAD()
82		POS()
83		STYLE()
84		TRIM()
85		UPCASE()
86	Progress Reporting	@SETPHASE
87		@SETPROGRESS
88		@SETTOTALCOUNT
89		@STEPSPROGRESS
90		GETPHASE()
91		GETPROGRESS()
92		GETTOTALCOUNT()
93	Miscellaneous	@DEC

94		@INC
95		@DELAY
96		@DELAYSEC
97		@FLUSHVAR
98		@SET
99		GETDATE()
100		GETSESSIONID()
101		VAREXIST()
102		@MAIL
103	FIOL Commands	@T
104		@W
105		@E
106		@S
107		@/W1,W2...,/
108		@R
109		@I
110		@L
111		/*...*/
112		@C
113		@G
114		@A
115		@Z
116	Child Script Handling	CHECKCHILDSESSION()
117		CREATECHILDSESSION()
118		STARTCHILDSESSION()
119		TERMINATECHILDSESSION()
120		READVARIABLE()

5. OPS Commands Not Supported in ENM

The following OPS commands available in OSS-RC are not supported by OPS in ENM.

S.No.	Command Type	OPS Script Command Name	Reason
1	File and Printer Logging	@SELPRINT	This command is used to specify the printer to use for printing operations in the current session. ENM does not have support for printer related commands. This is Out of Scope for OPS and shall not be supported in ENM.
2		@PRINTER	This command turns the printer logging on or off. When the printer logging is on, all information that is displayed in the Command File Output area is stored in a printer log. This is Out of Scope for OPS and shall not be supported in ENM.

3		GETPRINT()	This function allows a command file to determine which printer that is currently in use. ENM does not have support for printer related commands. This is Out of Scope for OPS and shall not be supported in ENM.
4	Time Event Commands	@EVDELETE	This command is related to scheduling activity. This command deletes all scheduled job orders in the Activity Manager that specify the current file scheduled for execution. Due to non-availability of Activity Manager in ENM, this is Out of Scope for OPS and shall not be supported.
5		EVLOADED()	This command is related to scheduling activity. This command searches for job orders in Activity Manager database. Due to non-availability of Activity Manager in ENM, this is Out of Scope for OPS and shall not be supported.
6		GETSCHED()	This command is related to scheduling activity. This function returns the time that the current file has been scheduled to run in the Activity Manager. Due to non-availability of Activity Manager in ENM, this is Out of Scope for OPS and shall not be supported.
7		INHISTORY()	This function determines if a specified date is prior to or past the current time. Due to non-availability of Activity Manager in ENM, this is Out of Scope for OPS and shall not be supported.
8		TIMEEVSET()	This command is related to scheduling activity. This function sets up an order in the Activity Manager that will be activated at the time specified. Due to non-availability of Activity Manager in ENM, this is Out of Scope for OPS and shall not be supported.
9	FIOL Commands	@P	This command is related to Printer. This is Out of Scope for OPS and shall not be supported in ENM.
10		@H	This is a legacy command and not supported in ENM.
11	External System Communication	@REPORT	Not supported in ENM as there is no equipment supported by ENM that requires this functionality. This is a legacy functionality.
12		@SPONTREP	Command not supported in ENM, functionality supported in @logon /@logoff
13		@SPONTREPOFF	Command not supported in ENM, functionality supported in @logon /@logoff
14		GETPROTOCOLTYPE()	Node transport protocol in ENM is recommended to only use TLS, Protocol type is a constant set during addition of the NE to ENM

NOTE

CP and AP prompts have been removed in ENM.

6. OSS-RC Utilities Supported in ENM

The following OSS-RC functionality utilities are supported in ENM. These utilities need to be executed via Execute command.

OSS RC Utility	Utility Description	ENM Utility	Type	Usage in ENM
----------------	---------------------	-------------	------	--------------

axs_cp	This utility is used to get the current version of ENM. The version returned is the R-State of the current ENM installed. OPS parser version is also included.	getVersion.sh	Shell Script	<pre> \$./getVersion.sh AOM 901 151 R1BX(1.3.3-1) </pre>
infoXtract.sh	This utility is used to get the current version of ENM. The version returned is the R-State of the current ENM installed. OPS parser version is also included.	getVersion.sh	Shell Script	<pre> \$./getVersion.sh AOM 901 151 R1BX(1.3.3-1) </pre>
eac_esi_config	This utility is used to get the list of available network elements (NE)s and to verify if the NEs exists in ENM. Used with argument -l, to return the list of NEs . Used with argument -v, to verify if the NEs exists in ENM.	getNetworkElements.sh	Shell Script	<p>To get complete list of network elements</p> <pre> \$./getNetworkElements.sh -l GSM01BSC01 GSM01BSC02 </pre> <p>To verify if a specific network element exists in ENM</p> <pre> \$./getNetworkElements.sh -v GSM01BSC01 GSM01BSC01 \$./getNetworkElements.sh -v GSM01MSC01 NOT FOUND </pre>

smoaxe	<p>This utility is used to transfer files from ENM to Network Element and vice versa. It can be used to perform operations over ftp.</p> <p>It accepts multiple parameters and the usage of the same can be found using the argument -h.</p>	smoaxe.sh	Shell Script	<p>To perform file operations over FTP</p> <pre> \$./smoaxe.sh -h Available options: -n Network Element on which the action to be performed -a Action to perform. Below are the available actions PUT - Transfer file to Network Element GET - Transfer file from Network Element RENAME - Rename file on Network Element LIST - List files on the Network Element DELETE - Delete file from Network Element COPY - Copy file from source to destination within Network Element -s Source/From File Path -d Destination/To File Path -l Remote folder to list the contents. (To be used along with LIST action) -r Remote file to be deleted. (To be used along with DELETE action) ----- USAGE: To transfer file to network element from ENM/SMRS: smoaxe.sh -a PUT -s <Source file name> -d <Destination file name> -n <Network Element name> To transfer file from network element to ENM/SMRS: smoaxe.sh -a GET -s <Source file name> -d <Destination file name> -n <Network Element name> To rename file in network element: smoaxe.sh -a RENAME -s <Current file name> -d <New file name> -n <Network Element name> To copy file from one location to another location in network element: smoaxe.sh -a COPY -s <Source file name> -d <Destination file name> -n <Network Element name> To list contents of a directory in network element. Directory path must end with / smoaxe.sh -a LIST -l <Directory path to list> -n <Network Element name> To delete file in network element. smoaxe.sh -a DELETE -r <File to be deleted> -n <Network Element name> </pre>
--------	--	-----------	--------------	---

7. Perl And Python Classes Supported in ENM

OPS Scripts supports execution of standard Python and Perl classes in ENM.

Python version used - 2.6

7.1 Python Classes not Supported

The following Python classes are not supported in ENM version of OPS.

Class
java.lang
java.io
java.net

7.2 Perl Libraries Used

Module
strict
XML::Parser::Expat
Getopt
File