



SMCIPMITool

User's Guide

Revision 2.19

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Contents

Document revision history.....	3
1 Introduction	19
1.1 Purpose.....	19
1.2 Third Party Software.....	19
1.2.1 JLine	19
1.3 Document Conventions	19
2 Usage and Mode	20
2.1 Command Line Mode	20
2.2 Shell Mode.....	20
2.2.1 Keyboard Shortcuts	21
2.2.2 prompt.....	21
2.2.3 ch	22
2.2.4 hostrun	22
2.2.4.1 hostrun found	22
2.2.4.2 hostrun curr	23
2.2.5 search	23
3 Commands	24
3.1 superblade.....	26
3.1.1 superblade system.....	26
3.1.2 superblade failure.....	27
3.1.3 superblade blade	27
3.1.3.1 superblade blade status.....	27
3.1.3.2 superblade blade index(es).....	27
3.1.3.2.1 superblade blade <blade number> status	28
3.1.3.2.2 superblade blade <blade number> power.....	28
3.1.3.2.3 superblade blade <blade number> kvm	28
3.1.3.2.4 superblade blade <blade number> uid	28
3.1.3.2.5 superblade blade <blade number> sensor	28
3.1.3.2.6 superblade blade <blade number> bmc	29

3.1.3.2.7	superblade blade <blade number> config	30
3.1.3.2.8	superblade blade <blade number> sn	30
3.1.4	superblade gigabit	30
3.1.4.1	superblade gigabit status	30
3.1.4.2	superblade gigabit index(es)	30
3.1.4.2.1	superblade gigabit <gigabit number> status.....	31
3.1.4.2.2	superblade gigabit <gigabit number> power	31
3.1.4.2.3	superblade gigabit <gigabit number> wss	31
3.1.4.2.4	superblade gigabit <gigabit number> ipmode	32
3.1.4.2.5	superblade gigabit <gigabit number> boot.....	32
3.1.4.2.6	superblade gigabit <gigabit number> restart.....	32
3.1.4.2.7	superblade gigabit <gigabit number> fd	32
3.1.5	superblade power.....	32
3.1.5.1	superblade power status	32
3.1.5.2	superblade power index(es)	33
3.1.5.2.1	superblade power <power number> status.....	33
3.1.5.2.2	superblade power <power number> power	33
3.1.5.2.3	superblade power <power number> fan	33
3.1.6	superblade ib	33
3.1.6.1	superblade ib status.....	33
3.1.6.2	superblade ib index(es).....	33
3.1.6.2.1	superblade ib <ib number> status	33
3.1.6.2.2	superblade ib <ib number> power	34
3.1.7	superblade cmm	34
3.1.7.1	superblade cmm status.....	34
3.1.7.2	superblade cmm index.....	34
3.1.7.2.1	superblade cmm <cmm number> status	34
3.1.7.2.2	superblade cmm <cmm number> dtime	35
3.1.7.2.3	superblade cmm <cmm number> ntp	35
3.1.7.2.4	superblade cmm <cmm number> reset.....	35
3.1.7.2.5	superblade cmm <cmm number> flash	35

3.1.7.2.6	superblade cmm <cmm number> ver.....	35
3.1.7.2.7	superblade cmm <cmm number> ip.....	35
3.1.7.2.8	superblade cmm <cmm number> mac	35
3.1.7.2.9	superblade cmm <cmm number> gateway.....	36
3.1.7.2.10	superblade cmm <cmm number> netmask	36
3.1.7.2.11	superblade cmm <cmm number> syncfg.....	36
3.1.7.2.12	superblade cmm <cmm number> opmode	36
3.1.7.2.13	superblade cmm <cmm number> dhcp.....	36
3.1.8	superblade listtemp.....	36
3.1.9	superblade allsel <filename>.....	37
3.1.10	superblade burst	37
3.1.10.1	superblade burst allUp.....	37
3.1.10.2	superblade burst allDown.....	38
3.1.10.3	superblade burst allRest	38
3.1.10.4	superblade burst allSoftshutdown.....	38
3.1.10.5	superblade burst up	38
3.1.10.6	superblade burst down	38
3.1.10.7	superblade burst reset.....	38
3.1.10.8	superblade burst softshutdown.....	38
3.1.11	superblade listmac	38
3.1.12	superblade midPlaneFRU	38
3.1.13	superblade powerconsumption	39
3.2	microblade.....	39
3.2.1	microblade summary.....	39
3.2.2	microblade node.....	39
3.2.2.1	microblade node sensor	39
3.2.2.2	microblade node status	39
3.2.2.3	microblade node power.....	40
3.2.2.4	microblade node ip	40
3.2.2.5	microblade node dhcp	40
3.2.2.6	microblade node mac	40

3.2.2.7	microblade node mask.....	40
3.2.2.8	microblade node gateway.....	41
3.2.2.9	microblade node name	41
3.2.2.10	microblade node uid	41
3.2.3	microblade switch	41
3.2.3.1	microblade switch info.....	41
3.2.3.2	microblade switch power.....	41
3.2.3.3	microblade switch username.....	41
3.2.3.4	microblade switch lan	42
3.2.3.4.1	microblade switch lan ip	42
3.2.3.4.2	microblade switch lan dhcp	42
3.2.3.4.3	microblade switch lan mask.....	42
3.2.3.4.4	microblade switch lan gateway.....	42
3.2.3.5	microblade switch getTime.....	42
3.2.4	microblade psu	43
3.2.4.1	microblade psu info	43
3.2.4.2	microblade psu power	43
3.2.4.3	microblade psu fanMode.....	43
3.2.4.4	microblade psu fanSpeed.....	43
3.2.5	microblade fru	43
3.2.5.1	microblade fru cmm.....	43
3.2.5.2	microblade fru midplane	43
3.2.5.3	microblade fru switch	44
3.2.5.4	microblade fru psu.....	44
3.2.6	microblade powerConsumption.....	44
3.3	sel	45
3.3.1	sel info	45
3.3.2	sel list.....	45
3.3.3	sel csv.....	45
3.3.4	sel clear.....	45
3.4	user.....	46

3.4.1	user add	46
3.4.2	user list	46
3.4.3	user delete.....	46
3.4.4	user level	46
3.4.5	user test.....	46
3.4.6	user setpwd	47
3.5	vm.....	47
3.5.1	vm status	47
3.5.2	vm stop.....	47
3.5.3	vm floppy.....	47
3.5.4	vm iso	48
3.6	ipmi.....	48
3.6.1	ipmi sensor	48
3.6.2	ipmi power.....	49
3.6.2.1	ipmi power status.....	49
3.6.2.2	ipmi power up.....	49
3.6.2.3	ipmi power down	49
3.6.2.4	ipmi power softshutdown.....	49
3.6.2.5	ipmi power reset.....	49
3.6.2.6	ipmi power cycle	49
3.6.2.7	ipmi power diag	49
3.6.2.8	ipmi power bootoption <Index>	49
3.6.3	ipmi acpi	50
3.6.4	ipmi lan	50
3.6.4.1	ipmi lan ip.....	50
3.6.4.2	ipmi lan mac.....	50
3.6.4.3	ipmi lan gateway	50
3.6.4.4	ipmi lan netmask.....	51
3.6.4.5	ipmi lan snmp.....	51
3.6.4.6	ipmi lan snmpcomm.....	51
3.6.4.7	ipmi lan arp	51

3.6.4.8	ipmi lan dhcp.....	51
3.6.4.9	ipmi lan vlan.....	52
3.6.5	ipmi fru.....	52
3.6.6	ipmi fruw.....	52
3.6.7	ipmi frubackup.....	53
3.6.8	ipmi frurestore.....	53
3.6.9	ipmi oem.....	53
3.6.9.1	ipmi oem clrint.....	53
3.6.9.2	ipmi oem id.....	53
3.6.9.3	ipmi oem uid.....	53
3.6.9.4	ipmi oem backup.....	53
3.6.9.5	ipmi oem restore.....	54
3.6.9.6	ipmi oem backupcfg.....	54
3.6.9.7	ipmi oem restorecfg.....	54
3.6.9.8	ipmi oem getcfg.....	54
3.6.9.9	ipmi oem setcfg.....	55
3.6.9.10	ipmi oem lani.....	55
3.6.9.11	ipmi oem mac.....	55
3.6.9.12	ipmi oem x10cfg ldap.....	56
3.6.9.13	ipmi oem x10cfg ad.....	56
3.6.9.14	ipmi oem x10cfg radius.....	56
3.6.9.15	ipmi oem x10cfg ipCtrl.....	58
3.6.9.16	ipmi oem x10cfg ntp.....	58
3.6.9.16.1	ipmi oem x10cfg ntp list.....	58
3.6.9.16.2	ipmi oem x10cfg ntp state.....	58
3.6.9.16.3	ipmi oem x10cfg ntp timezone.....	59
3.6.9.16.4	ipmi oem x10cfg ntp daylight.....	59
3.6.9.16.5	ipmi oem x10cfg ntp primary.....	59
3.6.9.16.6	ipmi oem x10cfg ntp secondary.....	59
3.6.9.17	ipmi oem x10cfg ddns.....	59
3.6.9.17.1	ipmi oem x10cfg ddns list.....	59

3.6.9.17.2	ipmi oem x10cfg ddns state	59
3.6.9.17.3	ipmi oem x10cfg ddns server	60
3.6.9.17.4	ipmi oem x10cfg ddns hostname	60
3.6.9.17.5	ipmi oem x10cfg ddns tsig.....	60
3.6.9.18	ipmi oem x10cfg alert	60
3.6.9.18.1	ipmi oem x10cfg alert list	60
3.6.9.18.2	ipmi oem x10cfg alert level	62
3.6.9.18.3	ipmi oem x10cfg alert ip.....	62
3.6.9.18.4	ipmi oem x10cfg alert mail.....	62
3.6.9.18.5	ipmi oem x10cfg alert subject.....	62
3.6.9.18.6	ipmi oem x10cfg alert message.....	62
3.6.9.18.7	ipmi oem x10cfg alert send	62
3.6.9.18.8	ipmi oem x10cfg alert delete	62
3.6.9.19	ipmi oem x10cfg smtp.....	63
3.6.9.19.1	ipmi oem x10cfg smtp list	63
3.6.9.19.2	ipmi oem x10cfg smtp ssl	63
3.6.9.19.3	ipmi oem x10cfg smtp server	63
3.6.9.19.4	ipmi oem x10cfg smtp port	63
3.6.9.19.5	ipmi oem x10cfg smtp user	63
3.6.9.19.6	ipmi oem x10cfg smtp password.....	63
3.6.9.19.7	ipmi oem x10cfg smtp mail	64
3.6.9.20	ipmi oem x10cfg dns	64
3.6.9.21	ipmi oem summary	64
3.6.10	ipmi reset.....	64
3.6.11	ipmi ver.....	64
3.6.12	ipmi flash	64
3.6.13	ipmi flashw	65
3.6.14	ipmi flashr.....	65
3.6.15	ipmi flashh	65
3.6.16	ipmi flasha	66
3.6.17	ipmi raw.....	66

3.6.18	ipmi ipmb.....	66
3.6.19	ipmi ipmboem	66
3.6.20	ipmi delsdr	66
3.6.21	ipmi session info	67
3.6.22	ipmi fan.....	67
3.6.23	ipmi watchdog	67
3.6.23.1	ipmi watchdog reset	67
3.6.23.2	ipmi watchdog set.....	67
3.6.23.3	ipmi watchdog info	68
3.7	ver.....	68
3.8	list	68
3.9	find.....	68
3.10	found	68
3.10.1	found list.....	69
3.10.2	found clear.....	69
3.10.3	found copy <index1> [index2] [...].	69
3.10.4	found copyall	69
3.10.5	found saveAs <filename>	69
3.10.6	found refresh.....	69
3.11	exec.....	69
3.12	host	69
3.12.1	host list	70
3.12.2	host reload.....	70
3.12.3	host add.....	70
3.12.4	host remove.....	70
3.12.5	host rename	70
3.12.6	host group	70
3.12.6.1	host group add	70
3.12.6.2	host group remove.....	71
3.12.6.3	host group rename.....	71
3.12.6.4	host group addhost.....	71

	3.12.6.5	host group removehost.....	71
3.13		hostrun	72
3.14		sc.....	72
3.15		pminfo	72
3.16		psfruinfo	73
3.17		psbbpInfo.....	73
3.18		bbp.....	74
	3.18.1	bbp status.....	74
	3.18.2	bbp autoDischarge	74
	3.18.3	bbp discharge	74
	3.31.4	bbp shutdown.....	74
	3.31.5	bbp shutdownTimeout.....	75
3.19		nm.....	75
	3.19.1	nm detect	75
	3.19.2	nm ver.....	75
	3.19.3	nm cap	75
	3.19.4	nm status	76
	3.19.5	nm stat.....	76
	3.19.6	nm resetStat	76
	3.19.7	nm pstate.....	76
	3.19.8	nm tstate	76
	3.19.9	nm ptstate	77
	3.19.10	nm alert	77
	3.19.11	nm scanPolicy	77
	3.19.12	nm addPolicy	78
	3.19.13	nm delPolicy	78
	3.19.14	nm getPolicy	78
	3.19.15	nm enablePolicy	78
	3.19.16	nm disablePolicy.....	79
3.20		kvmwa	79
3.21		ukvm	79

3.22	vmwa	79
3.22.1	vmwa dev1list.....	79
3.22.2	vmwa dev1drv	79
3.22.3	vmwa dev1stop	79
3.22.4	vmwa dev2list.....	80
3.22.5	vmwa dev2cd.....	80
3.22.6	vmwa dev2iso.....	80
3.22.7	vmwa dev2stop	80
3.22.8	vmwa allstatus.....	80
3.22.9	vmwa status.....	80
3.22.10	vmwa log	80
3.23	dcmi	81
3.23.1	dcmi find.....	81
3.23.2	dcmi cap	81
3.24	dr	82
3.24.1	dr list.....	82
3.24.2	dr iso	82
3.24.3	dr drv	82
3.25	kvm	83
3.26	kvmw	83
3.27	kvmwx9.....	83
3.28	vmw	83
3.28.1	vmw floppy	83
3.28.2	vmw usbkey	84
3.28.3	vmw iso.....	84
3.28.4	vmw cd	84
3.28.5	vmw stopFloppy	84
3.28.6	vmw stopUsbkey	84
3.28.7	vmw stopISO.....	84
3.28.8	vmw stopCD.....	84
3.28.9	vmw status	84

3.29	sol	85
3.29.1	sol activate.....	85
3.29.2	sol deactivate.....	85
3.29.3	sol window.....	85
3.29.4	sol key.....	86
3.29.5	bitrate	86
3.29.6	retryCount	86
3.29.7	retryInternal	86
3.30	nm20.....	87
3.30.1	nm20 nmSDR	87
3.30.2	nm20 selTime	88
3.30.3	nm20 deviceId	88
3.30.4	nm20 reset	88
3.30.5	nm20 reset2Default.....	88
3.30.6	nm20 updateMode.....	88
3.30.7	nm20 powerOff	88
3.30.8	nm20 selfTest	88
3.30.9	nm20 mode	88
3.30.10	nm20 listImagesInfo	89
3.30.11	nm20 oemGetPower	89
3.30.12	nm20 oemGetTemp	89
3.30.13	nm20 globalEnable	89
3.30.14	nm20 globalDisable	89
3.30.15	nm20 domainEnable	90
3.30.16	nm20 domainDisable.....	90
3.30.17	nm20 policyEnable	90
3.30.18	nm20 policyDisable	90
3.30.19	nm20 addPowerPolicy.....	90
3.30.20	nm20 getPolicy	90
3.30.21	nm20 delPolicy	90
3.30.22	nm20 scanPolicy	90

3.30.23	nm20 addPolicy	91
3.30.24	nm20 statistics.....	92
3.30.25	nm20 resetStatistics	92
3.30.26	nm20 cap	92
3.30.27	nm20 ver.....	92
3.30.28	nm20 alert	92
3.30.29	nm20 pstate.....	92
3.30.30	nm20 tstate	93
3.30.31	nm20 ptstate	93
3.30.32	nm20 cpuCore	93
3.30.33	nm20 cpuMemTemp	93
3.30.34	nm20 hostCpuData.....	94
3.30.35	nm20 totalPower.....	94
3.31	nm30.....	94
3.31.1	nm30 cupsCap	94
3.31.2	nm30 cupsData.....	95
3.31.3	nm30 cupsConfig.....	95
3.31.4	nm30 cupsPolicy.....	95
3.31.5	nm30 cupsCore.....	96
3.31.6	nm30 cupsIO.....	97
3.31.7	nm30 cupsMem.....	97
3.32	hdd.....	97
3.32.1	hdd map.....	97
3.32.2	hdd info	98
3.32.3	hdd disk	98
3.32.4	lmap.....	99
3.32.5	linfo.....	99
3.32.6	ldisk.....	99
3.33	bios	100
3.33.1	bios ver	100
3.33.2	bios image.....	100

3.33.3	bios update	100
3.33.4	bios setKey.....	101
3.33.5	bios getMACs.....	101
3.33.6	bios setKeys	101
3.34	mg.....	101
3.34.1	mg list	101
3.34.2	mg save.....	101
3.34.3	mg load.....	101
3.34.4	mg default	102
3.34.5	mg found	103
3.34.6	mg sort.....	103
3.34.7	mg clear	103
3.34.8	mg refresh	103
3.35	found	103
3.35.1	found list.....	103
3.35.2	found clear.....	103
3.35.3	found copy.....	103
3.35.4	found copyall	103
3.35.5	found saveAs	104
3.35.6	found refresh.....	104
3.36	task	104
3.36.1	task run.....	104
3.36.2	task command	104
3.36.3	task startTime	104
3.36.4	task endTime	105
3.36.5	task state	105
3.36.6	task exitcode.....	105
3.36.7	task message	105
3.36.8	task remove	106
3.36.9	task message2file	106
3.36.10	task removeAll.....	106

3.36.11	task getTaskIDs	106
3.36.12	task status.....	106
3.36.13	task limit	106
3.37	tp.....	106
3.37.1	tp info	107
3.37.2	tp nodeID	107
3.37.3	tp systemName.....	107
3.37.4	tp systemPN.....	108
3.37.5	tp systemSN	108
3.37.6	tp chassisPN.....	108
3.37.7	tp chassisSN	108
3.37.8	tp backPlanePN.....	108
3.37.9	tp backPlaneSN.....	108
3.37.10	tp chassisLocation.....	108
3.37.11	tp bpLocation.....	108
3.37.12	tp bpnID	108
3.37.13	tp bpnRevision	109
3.37.14	tp nodePN.....	109
3.37.15	tp nodeSN	109
3.37.16	tp configID	109
3.37.17	tp mcuUpdate.....	109
3.38	wsiso	109
3.38.1	wsiso status	110
3.38.2	wsiso mount	110
3.38.3	wsiso umount	110
3.39	tas	110
3.39.1	tas info	110
3.39.2	tas pause.....	111
3.39.3	tas resume	111
3.39.4	tas refresh.....	111
3.39.5	tas clear	111

3.39.6	tas period.....	111
3.39.7	tas exec.....	111
3.40	nvme.....	112
3.40.1	nvme list.....	112
3.40.2	nvme info.....	112
3.40.3	nvme rescan.....	113
3.40.4	nvme insert.....	113
3.40.5	nvme locate.....	113
3.40.6	nvme stopLocate.....	113
3.40.7	nvme remove.....	113
3.40.8	nvme smartData.....	113
3.41	nodeKey.....	114
3.41.1	nodekey list.....	114
3.42	rsc.....	114
3.43	rko.....	115
3.44	diag.....	115
3.44.1	diag start.....	116
3.44.2	diag download.....	117
3.44.3	diag display.....	117
Appendix A Command Categories.....		119
Appendix B VM Command Examples.....		121
B.1 AMI IPMI Firmware.....		121
B.2 ATEN IPMI Firmware.....		123
B.3 Peppercon IPMI Firmware.....		125
Appendix C Trap Receiver.....		127
Appendix D Node Product Key Functions.....		129
Appendix E Exit Codes.....		130
Appendix F Software compability matrix.....		131
Contacting Supermicro.....		138

1 Introduction

1.1 Purpose

IPMI (Intelligent Platform Management Interface) is a standard to allow a user to interface with a computer system to monitor the health of and manage the system.

The SMCIPMITool is a Supermicro utility that allows a user to interface with SuperBlade systems and IPMI devices via a CLI (Command Line Interface).

1.2 Third Party Software

1.2.1 JLine

SMCIPMITool uses JLine for command history and tab-completion. JLine is a Java library used to handle console input and is similar in functionality to BSD editline and GNU readline. People familiar with the readline/editline capabilities for modern shells (such as bash and tcsh) will find most of the command editing features of JLine to be familiar.

Please refer to <http://jline.sourceforge.net/index.html> for more information.

1.3 Document Conventions

- The syntax of the CLI command is given in **Courier New 11 bold**.
- Elements in (< >) indicate the field required as input along with a CLI command, for example < **integer (100-1000)**>.
- Elements in square brackets ([]) indicate optional fields for a command.
- Both “ * “ and “ , ” may be used to specify the numbers for the blade/gigabit/power/ib index(es) commands. For example:

```
CMM> blade 1,2,3 status
CMM> gigabit * status
```

2 Usage and Mode

Two kinds of user modes are provided when you start the SMCIPMITool: Command Line Mode and Shell Mode. Enter the OS console first before you select the mode.

2.1 Command Line Mode

In this mode, one command is entered and executed at a time. After the commands are executed, the SMCIPMITool is exited out. Usually this mode is received for executing simple commands or batch script.

Usage:

```
[java]
java -jar SMCIPMITool.jar <IP> <username> <password> [commands ... ]
[Windows]
SMCIPMITool.exe <IP> <username> <password> [commands ... ]
[Linux]
SMCIPMITool <IP> <username> <password> [commands ... ]
```

2.2 Shell Mode

In this mode, you can run multiple commands on a managed server without exiting the SMCIPMITool, which allows you to have better management of group servers. The related information in the prompt is provided for your reference. When the IPMI devices send the SNMP, you will receive the trap information as well.

Usage:

```
[java]
java -jar SMCIPMITool.jar <IP> <username> <password> shell
[Windows]
SMCIPMITool.exe <IP> <username> <password> shell
[Linux]
SMCIPMITool <IP> <username> <password> shell
```

Example Output:

```
SMC IPMI Tool V2.1.2 (Build 120320) - Super Micro Computer, Inc.
Press Ctrl+D or "exit" to exit
Press "?" or "help" for help
Press TAB for command completion
Press UP and DOWN key for command history
Trap Receiver Started
Managed hosts loaded.
Found hosts loaded.
192.168.23.100 X9SCD (S0/G0,13w) 13:55 SIM(WA)>
```

2.2.1 Keyboard Shortcuts

In the Shell Mode, hot keys allow you to have an ease of use.

Keys	Action
Up Arrow /Down Arrow	Displays the previously executed command
Ctrl + A	Moves the cursor to the previous command line
Ctrl + D	Exits from the SMCIPMITool prompt
Backspace/ Ctrl + H	Removes a single character
TAB	Completes a command without typing the full word
Left Arrow /Right Arrow	Traverses the current line

2.2.2 prompt

Use this command to configure the current status of managed system in prompt. The configuration will be permanently stored and recalled at the next startup.

Usage: `prompt <type> <on|off>`

Example Output:

```
username <on|off> : show/hide username
      ip <on|off>      : show/hide IP address
      mb <on|off>      : show/hide Motherboard product Model
      acpi <on|off>     : show/hide ACPI status
      power <on|off>    : show/hide power watts
      fwver <on|off>    : show/hide BMC firmware ver
      time <on|off>     : show/hide time
      all <on|off>      : show/hide all information
      * The change will be stored to config file
```

When you enter the Shell Mode after this, you will see the default prompt listings as follows:

```
ADMIN@192.168.23.92 X9DRW-6F (S0/G0,76w,v00.10) 14:13 SIM(X9)>
  (A)      (B)      (C)      (D) (E)  (F)  (G)  (H)
```

- (A) Username
- (B) IP address
- (C) Motherboard
- (D) ACPI status
- (E) Power consumption
- (F) IPMI firmware version
- (G) Current time
- (H) IPMI firmware type

* If the information is not shown even set the item on,
That means SMCIPMITool cannot get correct data.

The prompt may appear differently depending on the type of firmware as follows:

Prompt in SMCIPMITool shell mode	IPMI Firmware Type
CMM>	Peppercon Firmware (KIRA) for Blade CMM
SIM(W)>	AMI Firmware (WPCM450)
SIM(WA)>	ATEN Firmware (WPCM450)
SIMBL(W)>	AMI Firmware (WPCM450) for Blade SIMBL
SIMBL>	Peppercon Firmware (KIRA) for Blade SIMBL
SIM-IPMI>	Peppercon Firmware (KIRA) without KVM
SIM-KVM-IPMI>	Peppercon Firmware (KIRA) with KVM
SUPERO-IPMI>	OSA (Renesas 2167) Firmware
SIM(X9)>	AMI Firmware (SH7757) for X9 MBs
ASPD_T>	ATEN ASPEED Firmware for X10 MBs
MicroCMM>	MicroBlade CMM
MicroNode>	MicroBlade Node
SuperBlade>	SuperBlade B10 MBs
IPMI>	Others

2.2.3 ch

Specify an IP address and use this command to change the current managed server. The servers that have been accessed are automatically memorized. Next time when you start the SMCIMPITool and enter the Shell Mode, the servers will be recalled in the prompt. You can use the keys “<” or “>” to switch between the servers. Note this command is ONLY available when you are in the Shell Mode.

Usage: **ch**

Example Output:

```
...
Current managed system(s):
Index | IP
-----|-----
  1 | ADMIN@192.168.23.92
  2 | ADMIN@192.168.23.93
  3 | ADMIN@192.168.23.95
```

2.2.4 hostrun

This is an IPMI command allowing you manage a group of servers. Two ways of running this command are as follows.

2.2.4.1 hostrun found

Run this command on all of the servers found by the `find` command. For details on the `find` command, please see [3.18 find](#).

Usage: **hostrun found <IPMI command>**

2.2.4.2 *hostrun curr*

Run this command on all of the servers you manage with the **ch** command. For details on the **ch** command, please see [2.2.3 ch](#).

Usage: `hostrun curr <IPMI command>`

2.2.5 search

The search function is built in all commands. The following three examples illustrate how this function works with the commands.

Usage: `SIM(X9)> <Command> | <Key for search>`

Example Output 1:

Search "FAN" from sensor list.

```
SIM(X9)>ipmi sr | FAN
      | (6) FAN1          |          N/A | 600 RPM | 12550 RPM |
OK    | (7) FAN2          |      1550 RPM | 600 RPM | 12550 RPM |
      | (8) FAN3          |          N/A | 600 RPM | 12550 RPM |
      | (9) FAN4          |          N/A | 600 RPM | 12550 RPM |
      | (10) FANA         |          N/A | 600 RPM | 12550 RPM |
      | (11) FANB        |          N/A | 600 RPM | 12550 RPM |
```

3 Commands

This section lists the commands available with SMCIPMITool. You must follow the usage protocol as described in the previous section.

Command(s):

superblade	SuperBlade blade management (13)
microblade	MicroBlade & 8U/4U SuperBlade blade management (6)
ipmi	IPMI device management (30)
sel	IPMI system event log (5)
user	IPMI user management (7)
nm	Node Management V1.5 (16)
nm20	Node Management V2.0/V3.0 (X9/X10 MBs) (35)
nm30	Node Management V3.0 (X10 Grantley MBs) (7)
dcmi	DCMI Management (2)
bios	BIOS update (9)
pminfo [<busId> <SlaAddr>]	Power supply PMBus health
psfruinfo [<busId> <SlaAddr>]	Power supply FRU health
psbbpInfo [<busId> <SlaAddr>]	Battery Backup Power status
ver	SMCIPMITool version
ch	Change managed device in shell mode
list [keyword]	List all or find available commands
exec <file> [loop] [delay]	Execute commands from file
execm <file> [loop] [delay]	Execute commands from file for TaskRun
find [<Start> <End> <netMask>]	Find IPMI device from local or IP range
found	found IPMI devices (6)
host	Host management (6)
hostrun <host group> <command>	Run a command on host or group
mg	Manage group command (8)
trap	IPMI SNMP Trap receiver management (7)
sc	Execute shell command
ukvm	KVM launcher (CMM, SIM, SIM(W), SIM(WA), SIM(X9))
kvm	SIM KVM console (graphic mode)
kvmw	SIM(W) KVM console (graphic mode)
kvmwa	SIM(WA) KVM console (graphic mode)
kvmwx9	SIM(X9) KVM console (graphic mode)
dr	SIM Virtual Media Drive Redirection
vm	SIM Virtual Media Management (4)
vmw	SIM(W) Virtual Media
vmwa	SIM(WA) Virtual Media
prompt <type> <on off>	Config information displayed on prompt
sol	SOL Commands
hdd	HDD status (6)
bbp	Battery Backup Power Management (5)
task	Background Task (13)
tp	TwinPro MCU Information (18)
wsiso	Mount ISO file via Windows Share or SAMBA(for X9,X10) (3)
tas	TAS settings (7)

nvme	NVMe (Non-Volatile Memory Express) (8)
nodekey	Node Product Key (1)
rsc [filename.ext]	iKVM remote screen capture(X9,X10 ATEN firmware) ext:png jpg
rko [filepath]	iKVM remote keyboard operation(X9,X10 ATEN firmware)
diag	Super Diagnostics (3)

3.1 superblade

3.1.1 superblade system

The superblade system command displays the system information. In a blade system, this command will also list the modules present (CMM modules, Gb switches, power supplies, etc.).

Usage: superblade **system**

Example Output:

Blade Module (20/20)

Blade	Power	KVM	UID	Error	BMC	Watt	MB
Blade 1	Off	Selected			Yes	350W	B8DTT
Blade 2	Off				Yes	400W	B8DTT
Blade 3	On				Yes	350W	B8DTT
Blade 4	On				Yes	350W	B8DTT
Blade 5	On				Yes	350W	B8DTT
Blade 6	On				Yes	350W	B8DTT
Blade 7	On				Yes	350W	B8DTT
Blade 8	On				Yes	350W	B8DTT
Blade 9	On				Yes	350W	B8DTT
Blade 10	On				Yes	350W	B8DTT
Blade 11	Off				Yes	400W	B8DTT
Blade 12	Off				Yes	400W	B8DTT
Blade 13	On				Yes	350W	B8DTT
Blade 14	On				Yes	350W	B8DTT
Blade 15	On				Yes	350W	B8DTT
Blade 16	On				Yes	350W	B8DTT
Blade 17	On				Yes	350W	B8DTT
Blade 18	On				Yes	350W	B8DTT
Blade 19	On				Yes	350W	B8DTT
Blade 20	On				Yes	350W	B8DTT

Gigabit Switch Module (1/2)

GBSW	Power	Error	Init	Switch	2.5V	1.25V	Type
GBSW 1	On		Not	61C/142F	2.48V	1.192V	L3 Switch

Power Supply Module (4/4)

PS	Power	Fan 1	Fan 2	Temp.	Watts	DC	AC	F/W	FRU
PS 1	On	5152	5152	56C/133F	2000	N/A	N/A	2.6	01
PS 2	On	5381	5381	54C/129F	2000	N/A	N/A	2.6	01
PS 3	On	5267	5152	57C/135F	2000	N/A	N/A	2.6	01
PS 4	On	7328	7099	54C/129F	2000	N/A	N/A	2.6	01

IBQDR Module (1/2)

IBQDR	Power	Temp. Switch	Temp. Board	3.3V	1.25V
IBQDR 1	On	57C/135F	56C/133F	3.24V	1.18V

```
CMM Module(1/2)
```

```
-----  
CMM   | M/S   | Status  
---   | ---   | -----  
CMM 1 | Master | OK
```

```
CMM 1 is being managed now
```

3.1.2 superblade failure

The failure command brings up a failure report, which lists all failure messages from the system.

Usage: superblade **failure**

3.1.3 superblade blade

The blade command will bring up the following subcommands.

3.1.3.1 *superblade blade status*

This command will display the status of all the blade units in the system.

Usage: superblade **blade status**

Example Output:

```
Blade Module (20/20)
```

```
-----  
Blade   | Power | KVM      | UID | Error | BMC | Watt | MB  
----- | ----- | ---      | --- | ----- | --- | ---- | --  
Blade 1 | Off   | Selected |     |       | Yes | 350W | B8DTT  
Blade 2 | Off   |          |     |       | Yes | 400W | B8DTT  
Blade 3 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 4 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 5 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 6 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 7 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 8 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 9 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 10 | On   |          |     |       | Yes | 350W | B8DTT  
Blade 11 | Off   |          |     |       | Yes | 400W | B8DTT  
Blade 12 | Off   |          |     |       | Yes | 400W | B8DTT  
Blade 13 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 14 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 15 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 16 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 17 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 18 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 19 | On    |          |     |       | Yes | 350W | B8DTT  
Blade 20 | On    |          |     |       | Yes | 350W | B8DTT
```

3.1.3.2 *superblade blade index(es)*

This command is used to check the individual blades in the system. The following subcommands may be used for a specific blade.

3.1.3.2.1 superblade blade <blade number> status

Used to check the status of the individual blade specified.

Usage: superblade **blade** <blade number> **status**

Example Output:

```
[ 1]:
Blade   | Power | KVM       | UID | Error | BMC | Watt | MB
----- | ----- | ---      | --- | ----- | --- | ---- | --
Blade 1 | Off   | Selected  |     |       | Yes | 350W | B8DTT
[ 2]:
Blade   | Power | KVM       | UID | Error | BMC | Watt | MB
----- | ----- | ---      | --- | ----- | --- | ---- | --
Blade 2 | Off   |           |     |       | Yes | 400W | B8DTT
```

3.1.3.2.2 superblade blade <blade number> power

Used to access power control for the individual blade specified.

Usage: superblade **blade** <blade number> **power** [up|down|softshutdown|reset]

Example Output:

```
[ 1]:
Power: Off
Available commands: up, down, softshutdown, reset
[ 2]:
Power: Off
Available commands: up, down, softshutdown, reset
```

3.1.3.2.3 superblade blade <blade number> kvm

Requests a kvm switch for the individual blade specified.

Usage: superblade **blade** <blade number> **kvm**

3.1.3.2.4 superblade blade <blade number> uid

Used to turn a UID LED on or off as specified on an individual blade.

Usage: superblade **blade** <blade number> **uid** <on/off>

3.1.3.2.5 superblade blade <blade number> sensor

Used to get sensor readings from the individual blade specified.

Usage: superblade **blade** <blade number> **sensor**

Example Output:

```
Status | Sensor           | Reading | Low Limit | High Limit |
----- | -----          | ----- | -----   | -----   |
OK      | CPU1 Temp        | 1C/ 34F | N/A       | 80C/176F |
OK      | CPU2 Temp        | 1C/ 34F | N/A       | 80C/176F |
OK      | System Temp      | 64C/147F | N/A       | 80C/176F |
```

OK	CPU1 Vcore		0.95 V		0.6 V		1.38 V	
OK	CPU2 Vcore		0.96 V		0.6 V		1.38 V	
OK	CPU1 DIMM		1.53 V		1.2 V		1.65 V	
OK	CPU2 DIMM		1.53 V		1.2 V		1.65 V	
OK	1.5V		1.52 V		1.34 V		1.65 V	
OK	3.3V		3.16 V		2.96 V		3.63 V	
OK	3.3VSB		3.36 V		2.96 V		3.63 V	
OK	5V		5.06 V		4.49 V		5.5 V	
OK	12V		12.19 V		10.75 V		13.25 V	
OK	VBAT		3.36 V		2.96 V		3.63 V	

3.1.3.2.6 superblade blade <blade number> bmc

This command will bring up the following subcommands related to the BMC of an individual blade.

3.1.3.2.6.1 superblade blade <blade number> ip

Used to get or set the IP address of a blade's BMC.

Usage (to get): superblade **blade** <blade number> **bmc ip**

Usage (to set): superblade **blade** <blade number> **bmc ip** <IP>

3.1.3.2.6.2 superblade blade <blade number> mac

Used to get or set the mac address of a blade's BMC.

Usage (to get): superblade **blade** <blade number> **bmc mac**

Usage (to set): superblade **blade** <blade number> **bmc mac** <mac_address>

3.1.3.2.6.3 superblade blade <blade number> gateway

Used to get or set the gateway of a blade's BMC.

Usage (to get): superblade **blade** <blade number> **bmc gateway**

Usage (to set): superblade **blade** <blade number> **bmc gateway** <gateway IP>

3.1.3.2.6.4 superblade blade <blade number> netmask

Used to get or set the netmask of a blade's BMC.

Usage (to get): superblade **blade** <blade number> **bmc netmask**

Usage (to set): superblade **blade** <blade number> **bmc netmask** <netmask>

3.1.3.2.6.5 superblade blade <blade number> dhcp

Used to enable or disable the DHCP (Dynamic Host Configuration Protocol) of a blade.

Usage: superblade **blade** <blade number> **bmc dhcp** [enable|disable]

3.1.3.2.6.6 superblade blade <blade number> vlan

Used to display or enable or disable an individual blade's VLAN (Virtual LAN).

Usage: superblade **blade** <blade number> **bmc vlan** [<enable|disable> >tag]

3.1.3.2.6.7 *superblade blade* <blade number> *ipmb*

Used to send a raw IPMI command to an individual blade.

Usage: superblade **blade** <blade number> **bmc ipmb** <netFn> <cmd> [data]

3.1.3.2.7 *superblade blade* <blade number> *config*

Used to get the configuration of the individual blade specified.

Usage: superblade **blade** <blade number> **config**

Example Output:

```
MB ID           = BD
Pwr Consumption = 350W
CPUs            = 2
CPU Type       = undefined
CPU Speed      = 2.90Ghz
DIMMs          = 2
Memory Size    = 8192MB
Memory Speed   = 1066Mhz
LANs           = 2
LAN 1 MAC      = 00:30:48:F7:65:CC
LAN 2 MAC      = 00:30:48:F7:65:CD
```

3.1.3.2.8 *superblade blade* <blade number> *sn*

Used to get the MB serial number of the individual blade specified

Usage: superblade **blade** <blade number> **sn**

3.1.4 *superblade gigabit*

Entering the gigabit command will bring up the following subcommands.

3.1.4.1 *superblade gigabit status*

This command will display the status of all the Gb switch units in the system.

Usage: superblade **gigabit status**

Example Output:

```
Gigabit Switch Module (1/2)
-----
GBSW  | Power | Error | Init | Switch | 2.5V | 1.25V | Type
-----|-----|-----|-----|-----|-----|-----|-----
GBSW 1 | On    |       | Not  | 61C/142F | 2.496V | 1.192V | L3 Switch
```

3.1.4.2 *superblade gigabit index(es)*

This command brings up the following commands related to an individual Gb switch in the system as specified.

3.1.4.2.1 `superblade gigabit <gigabit number> status`

Used to display the status of the gigabit switch specified.

Usage: `superblade gigabit <gigabit number> status`

Example Output:

```
GBSW   | Power | Error | Init | Switch | 2.5V | 1.25V | Type
-----|-----|-----|-----|-----|-----|-----|-----
GBSW 1 | On    |       | Not  | 61C/142F | 2.48V | 1.192V | L3 Switch
```

3.1.4.2.2 `superblade gigabit <gigabit number> power`

Used to access power control for the gigabit switch specified.

Usage: `superblade gigabit <gigabit number> power <on|off|reset>`

3.1.4.2.3 `superblade gigabit <gigabit number> wss`

Used to access WSS (WebSuperSmart) web configuration control for the gigabit switch specified.

3.1.4.2.3.1 `superblade gigabit <gigabit number> wss ip`

Used to get or set the IP address of a gigabit switch.

Usage: `superblade gigabit <gigabit number> wss ip [IP]`

3.1.4.2.3.2 `superblade gigabit <gigabit number> wss netmask`

Used to get or set the netmask address of a gigabit switch.

Usage: `superblade gigabit <gigabit number> wss netmask [netmask]`

3.1.4.2.3.3 `superblade gigabit <gigabit number> wss gateway`

Used to get or set the gateway address of a gigabit switch.

Usage: `superblade gigabit <gigabit number> wss gateway [gateway]`

3.1.4.2.3.4 `superblade gigabit <gigabit number> wss datetime`

Used to get or set the date and time settings for a gigabit switch.

Usage: `superblade gigabit <gigabit number> wss datetime [datetime]`

Example Output:

```
12/29/2010 02:56:02
```

3.1.4.2.3.5 `superblade gigabit <gigabit number> wss username`

Used to get or set the WSS web username for a gigabit switch.

Usage: `superblade gigabit <gigabit number> wss username [username]`

3.1.4.2.3.6 *superblade gigabit <gigabit number> wss password*

Used to get or set the WSS web password for a gigabit switch.

Usage: `superblade gigabit <gigabit number> wss password [password]`

3.1.4.2.4 *superblade gigabit <gigabit number> ipmode*

Used to get or set the IP mode of the gigabit switch specified.

Usage (to get): `superblade gigabit <gigabit number> ipmode`

Usage (to set): `superblade gigabit <gigabit number> ipmode <mode>`

3.1.4.2.5 *superblade gigabit <gigabit number> boot*

Used to get or set the boot image of the gigabit switch specified.

Usage: `superblade gigabit <gigabit number> boot [image number]`

3.1.4.2.6 *superblade gigabit <gigabit number> restart*

Used to soft restart the gigabit switch specified.

Usage: `superblade gigabit <gigabit number> restart`

3.1.4.2.7 *superblade gigabit <gigabit number> fd*

Used to reset to factory default for the gigabit switch specified.

Usage: `superblade gigabit <gigabit number> fd`

3.1.5 *superblade power*

Entering the power command will bring up the following subcommands.

3.1.5.1 *superblade power status*

This command will display the status of all the power supply units in the blade system.

Usage: `superblade power status`

Example Output:

```
Power Supply Module (4/4)
-----
PS   | Power | Fan 1 | Fan 2 | Temp.   | Watts | DC | AC | F/W | FRU
--   | -----| -----| -----| -----| -----| -- | -- | --- | ---
PS 1 | On    | 5152  | 5152  | 57C/135F | 2000 | N/A | N/A | 2.6 | 01
PS 2 | On    | 5381  | 5381  | 54C/129F | 2000 | N/A | N/A | 2.6 | 01
PS 3 | On    | 5152  | 5152  | 58C/136F | 2000 | N/A | N/A | 2.6 | 01
PS 4 | On    | 7328  | 7213  | 54C/129F | 2000 | N/A | N/A | 2.6 | 01
```

3.1.5.2 *superblade power index(es)*

This command is used to check the individual power supplies in the blade system and brings up the following commands:

3.1.5.2.1 *superblade power <power number> status*

Used to display the status of the power supply specified.

Usage: `superblade power <power number> status`

Example Output:

PS	Power	Fan 1	Fan 2	Temp.	Watts	DC	AC	F/W	FRU
--	----	-----	-----	-----	-----	--	--	---	---
PS 1	On	5152	5152	56C/133F	2000	N/A	N/A	2.6	01

3.1.5.2.2 *superblade power <power number> power*

Used to access power control for the power supply specified.

Usage: `superblade power <power number> <on|off>`

3.1.5.2.3 *superblade power <power number> fan*

Used to access fan control for the power supply specified.

Usage: `superblade power <power number> fan <1|2|3|4|auto>`

3.1.6 *superblade ib*

Entering the `ib` command will bring up the following subcommands.

3.1.6.1 *superblade ib status*

This command will display the status of all the InfiniBand switches in the system.

Usage: `superblade ib status`

Example Output:

```
IBQDR Module (1/2)
-----
IBQDR | Power | Temp. Switch | Temp. Board | 3.3V | 1.25V
-----|-----|-----|-----|-----|-----
IBQDR 1 | On | 57C/135F | 56C/133F | 3.24V | 1.18V
```

3.1.6.2 *superblade ib index(es)*

This command is used to check the individual InfiniBand switches in the system and will bring up the following subcommands:

3.1.6.2.1 *superblade ib <ib number> status*

Used to display the status of the InfiniBand switch specified.

Usage: superblade **ib** <ib number> **status**

Example Output:

```
IB    | Power | Init |  VDD | 3.3V Aux | 1.2V | 1.8V | 3.3V | Temp.
--    | -----| ----|  ----| -----| ----| ----| ----| -----
IB 1  |  Off  | OK   | 1.92V | 2.85V | 0.78V | 1.48V | 2.85V | 0C/32F
```

3.1.6.2.2 superblade **ib** <ib number> **power**

Used to access power control for the InfiniBand switch specified.

Usage: superblade **ib** <ib number> **power** <on|off|reset>

3.1.7 superblade **cmm**

Entering the **cmm** command will bring up the following subcommands.

3.1.7.1 *superblade cmm status*

This command will display the status of all the CMMs in the system.

Usage: superblade **cmm** **status**

Example Output:

```
CMM Module (1/2)
-----
CMM   | M/S   | Status
---   | ---   | -----
CMM 1 | Master| OK

CMM 1 is being managed now

CMM IP address:
-----
CMM 1 IP: 172.31.100.235
```

3.1.7.2 *superblade cmm index*

This command is used to check the individual CMMs in the system and will bring up the following subcommands:

3.1.7.2.1 *superblade cmm* <cmm number> **status**

Used to display the status of the CMM specified.

Usage: superblade **cmm** <cmm number> **status**

Example Output:

```
CMM   | M/S   | Status
---   | ---   | -----
CMM 1 | Master| OK

CMM 1 is being managed now
```

3.1.7.2.2 superblade cmm <cmm number> dtime

Used to get or set CMM date and time.

Usage: superblade **cmm** <cmm number> **dtime** [datetime]

Example Output:

```
12/29/2010 02:56:02
(Data time format for setting: "MM/dd/yyyy HH:mm:ss")
```

3.1.7.2.3 superblade cmm <cmm number> ntp

Used to synch the time with the NTP servers.

Usage: superblade **cmm** <cmm number> **ntp** <UTC offset> <NTP1> [NTP2]

3.1.7.2.4 superblade cmm <cmm number> reset

Used to reset the CMM specified.

Usage: superblade **cmm** <cmm number> **reset**

3.1.7.2.5 superblade cmm <cmm number> flash

Used to flash CMM firmware to the CMM specified with the filename of the flash upgrade noted.

Usage: superblade **cmm** <cmm number> **flash** <filename>

3.1.7.2.6 superblade cmm <cmm number> ver

Used to display the firmware version in the CMM specified.

Usage: superblade **cmm** **ver**

Example Output:

```
Version:2.2.64 build 5420
```

3.1.7.2.7 superblade cmm <cmm number> ip

Used to get or set the IP address of the CMM specified.

Usage: superblade **cmm** <cmm number> **ip** [IP address]

IP address format: ###.###.###.###

3.1.7.2.8 superblade cmm <cmm number> mac

Used to get or set the MAC address of the CMM specified.

Usage: superblade **cmm** <cmm number> **mac** [mac address]

MAC address format: ###.###.###.###

3.1.7.2.9 superblade cmm <cmm number> gateway

Used to get or set the Gateway address of the CMM specified.

Usage: superblade **cmm** <cmm number> **gateway** [gateway address]

Gateway address format: ###.###.###.###

3.1.7.2.10 superblade cmm <cmm number> netmask

Used to get or set the Netmask IP address of the CMM specified.

Usage: superblade **cmm** <cmm number> **netmask** [netmask address]

Netmask address format: ###.###.###.###

3.1.7.2.11 superblade cmm <cmm number> syncfg

Used to synch the configuration to the slave CMM specified.

3.1.7.2.12 superblade cmm <cmm number> opmode

Used to get or set the operational mode for the CMM specified.

Usage: superblade **cmm** <cmm number> **opmode** [mode]

Mode Choices: 0 = Enterprise 1 = Office

3.1.7.2.13 superblade cmm <cmm number> dhcp

Used to enable or disable the DHCP (Dynamic Host Configuration Protocol) of the CMM.

Usage: superblade **cmm** <cmm number> **dhcp** [enable|disable]

3.1.8 superblade listtemp

Entering the listtemp command will display the temperatures of all the modules in the blade system.

Usage: superblade **listtemp**

Example Output:

Status	Module	Sensor	Reading	High Limit
OK	Blade 3	CPU1 Temp	Low	N/A
OK	Blade 3	CPU2 Temp	Low	N/A
OK	Blade 3	System Temp	56C/133F	80C/176F
OK	Blade 4	CPU1 Temp	Low	N/A
OK	Blade 4	CPU2 Temp	Low	N/A
OK	Blade 4	System Temp	57C/135F	80C/176F
OK	Blade 5	CPU1 Temp	Low	N/A
OK	Blade 5	CPU2 Temp	Low	N/A
OK	Blade 5	System Temp	63C/145F	80C/176F
OK	Blade 6	CPU1 Temp	Low	N/A
OK	Blade 6	CPU2 Temp	Low	N/A
OK	Blade 6	System Temp	64C/147F	80C/176F

OK	Blade 7	CPU1 Temp		Medium		N/A	
OK	Blade 7	CPU2 Temp		Low		N/A	
OK	Blade 7	System Temp		62C/144F		80C/176F	
OK	Blade 8	CPU1 Temp		Low		N/A	
OK	Blade 8	CPU2 Temp		Low		N/A	
OK	Blade 8	System Temp		63C/145F		80C/176F	
OK	Blade 9	CPU1 Temp		Medium		N/A	
OK	Blade 9	CPU2 Temp		Low		N/A	
OK	Blade 9	System Temp		62C/144F		80C/176F	
	Blade 10	CPU1 Temp		N/A		N/A	
OK	Blade 10	CPU2 Temp		Low		N/A	
OK	Blade 10	System Temp		59C/138F		80C/176F	
OK	Blade 13	CPU1 Temp		Low		N/A	
OK	Blade 13	CPU2 Temp		Low		N/A	
OK	Blade 13	System Temp		60C/140F		80C/176F	
OK	Blade 14	CPU1 Temp		Low		N/A	
OK	Blade 14	CPU2 Temp		Low		N/A	
OK	Blade 14	System Temp		60C/140F		80C/176F	
OK	Blade 15	CPU1 Temp		Medium		N/A	
OK	Blade 15	CPU2 Temp		Low		N/A	
OK	Blade 15	System Temp		63C/145F		80C/176F	
OK	Blade 16	CPU1 Temp		Low		N/A	
OK	Blade 16	CPU2 Temp		Low		N/A	
OK	Blade 16	System Temp		61C/142F		80C/176F	
OK	Blade 17	CPU1 Temp		Low		N/A	
OK	Blade 17	CPU2 Temp		Low		N/A	
OK	Blade 17	System Temp		63C/145F		80C/176F	
OK	Blade 18	CPU1 Temp		Medium		N/A	
OK	Blade 18	CPU2 Temp		Medium		N/A	
OK	Blade 18	System Temp		65C/149F		80C/176F	
OK	Blade 19	CPU1 Temp		Low		N/A	
OK	Blade 19	CPU2 Temp		Medium		N/A	
OK	Blade 19	System Temp		62C/144F		80C/176F	
	Blade 20	CPU1 Temp		N/A		N/A	
OK	Blade 20	CPU2 Temp		Low		N/A	
OK	Blade 20	System Temp		62C/144F		80C/176F	
OK	Power 1	Temp.		56C/133F		85C/185F	
OK	Power 2	Temp.		54C/129F		85C/185F	
OK	Power 3	Temp.		57C/135F		85C/185F	
OK	Power 4	Temp.		54C/129F		85C/185F	
OK	GBSW 1	Switch		61C/142F		80C/176F	
OK	InfiniBand 1	Temp.		0C/ 32F		80C/176F	

3.1.9 **superblade allsel <filename>**

Entering this command will save all system event logs to a file in .csv format.

Usage: **superblade allsel <filename>**

3.1.10 **superblade burst**

Entering the burst command will list the following subcommands to control the power of blades.

3.1.10.1 **superblade burst allUp**

Use this command to power burst up all blades.

Usage: **superblade burst allUp**

3.1.10.2 *superblade burst allDown*

Use this command to power burst down all blades.

Usage: `superblade burst allDown`

3.1.10.3 *superblade burst allRest*

Use this command to power burst reset all blades.

Usage: `superblade burst allReset`

3.1.10.4 *superblade burst allSoftshutdown*

Use this command to soft shut down all blades.

Usage: `superblade burst allSoftshutdown`

3.1.10.5 *superblade burst up*

Use this command to power burst up blades.

Usage: `superblade burst up <index(es)>`

3.1.10.6 *superblade burst down*

Use this command to power burst down blades.

Usage: `superblade burst down <index(es)>`

3.1.10.7 *superblade burst reset*

Use this command to power burst reset blades.

Usage: `superblade burst reset <index(es)>`

3.1.10.8 *superblade burst softshutdown*

Use this command to power burst soft shut down blades.

Usage: `superblade burst softshutdown <index(es)>`

3.1.11 *superblade listmac*

Use this command to display the mac address of all the modules in the blade system, including BMC management mac and host mac.

Usage: `superblade listmac`

3.1.12 *superblade midPlaneFRU*

Use this command to display middle plane FRU information.

Usage: `superblade midplaneFRU`

3.1.13 superblade powerconsumption

Display blade power consumption and Enclosure power supply power consumption. Please note that blade power readings only available after B10 series. Otherwise the messages would be “no support”.

Usage: superblade powerconsumption

3.2 microblade

3.2.1 microblade summary

Used to display the MicroBlade system summary.

Usage: **microBlade summary**

Example Output:

```
Blade Module (1/28)
-----
Blade | Error
-----|-----
B5    | Normal
      |
      | Node | BMC IP           | Error
      | ----|-----|-----
      | 1   | 10.133.176.67   | Normal
      | 2   | 10.133.176.106  | Normal
      | 3   | 10.133.176.109  | Normal
      | 4   | 10.133.176.101  | Normal

Switch Module (0/4)
-----
Switch | Status
-----|-----

Power Supply Module (1/8)
-----
Power Suuply | Status
-----|-----
B4           | Normal
```

3.2.2 microblade node

3.2.2.1 *microblade node sensor*

Used to display the MicroBlade node sensor information.

Usage: **microBlade node sensor** [**<bladeIndex>**] [**nodeIndex**]

3.2.2.2 *microblade node status*

Used to display the MicroBlade node status.

Usage: **microBlade node status** [**<bladeIndex>**] [**nodeIndex**]

3.2.2.3 *microblade node power*

Used to get or set the MicroBlade node power status.

Usage: **microBlade node power** <bladeID> <nodeID> [options]

```
For power status options:  
power down: 0  
power up: 1  
power cycle: 2  
power reset: 3  
soft-shutdown: 5
```

3.2.2.4 *microblade node ip*

Used to get or set the MicroBlade node IP address.

Usage:

(to get) **microBlade node ip** <bladeID> <nodeID>

(to set) **microBlade node ip** <bladeID> <nodeID> [IP]

3.2.2.5 *microblade node dhcp*

Used to get or set the MicroBlade node dhcp status.

Usage:

(to get) **microBlade node dhcp** <bladeID> <nodeID>

(to set) **microBlade node dhcp** <bladeID> <nodeID> [static:1 | dhcp:2]

3.2.2.6 *microblade node mac*

Used to get or set MicroBlade node mac status.

Usage:

(to get) **microBlade node mac** <bladeID> <nodeID>

(to set) **microBlade node mac** <bladeID> <nodeID> [MAC]

3.2.2.7 *microblade node mask*

Used to get or set MicroBlade node net Mask.

Usage:

(to get) **microBlade node mask** <bladeID> <nodeID>

(to set) **microBlade node mask** <bladeID> <nodeID> [Subnet Mask]

3.2.2.8 *microblade node gateway*

Used to get or set MicroBlade node gateway IP address.

Usage:

(to get) `microBlade node gateway <bladeID> <nodeID>`

(to set) `microBlade node gateway <bladeID> <nodeID> [gateway]`

3.2.2.9 *microblade node name*

Used to get or set the MicroBlade node name.

Usage:

(to get) `microBlade node name <bladeID> <nodeID>`

(to set) `microBlade node name <bladeID> <nodeID> [name]`

3.2.2.10 *microblade node uid*

Used to get or set the MicroBlade node uid status.

Usage:

(to get) `microBlade node uid <bladeID> <nodeID>`

(to set) `microBlade node uid <bladeID> <nodeID> [on | off]`

3.2.3 *microblade switch*

3.2.3.1 *microblade switch info*

Used to display information about the MicroBlade switch.

Usage: `microBlade switch info [switch index]`

3.2.3.2 *microblade switch power*

Used to display the power status of the MicroBlade switch.

Usage:

(to get) `microBlade switch power <switch index>`

(to set) `microBlade switch power <switch index> [On|Off|Reset]`

3.2.3.3 *microblade switch username*

Used to get or set the MicroBlade switch username.

Usage:

(to get) `microBlade switch username <switch index>`

(to set) `microBlade switch username <switch index> [Username]`

3.2.3.4 *microblade switch lan*

3.2.3.4.1 *microblade switch lan ip*

Used to get or set the MicroBlade switch LAN IP address.

Usage:

(to get) `microBlade switch lan ip <switch index>`

(to set) `microBladeSwitch lan ip <switch index> [IP]`

3.2.3.4.2 *microblade switch lan dhcp*

Used to get or set the MicroBlade switch LAN dhcp status.

Usage:

(to get) `microBlade switch lan dhcp <switch index>`

(to set) `microBlade switch lan dhcp <switch index> [static:1 |dhcp:2]`

3.2.3.4.3 *microblade switch lan mask*

Used to get or set the MicroBlade switch LAN net mask.

Usage:

(to get) `microBlade switch lan mask <switch index>`

(to set) `microBlade switch lan mask <switch index> [Subnet Mask]`

3.2.3.4.4 *microblade switch lan gateway*

Used to get or set the MicroBlade switch gateway LAN IP address.

Usage:

(to get) `microBlade switch lan gateway <switch index>`

(to set) `microBlade switch lan gateway <switch index> [gateway]`

3.2.3.5 *microblade switch getTime*

Used to display the MicroBlade switch time.

Usage: `microBlade switch getTime <switch index>`

3.2.4 microblade psu

3.2.4.1 *microblade psu info*

Used to display information about the MicroBlade power supply.

Usage: `microBlade psu info [psu index]`

3.2.4.2 *microblade psu power*

Used to provide power supply power control.

Usage:

(to get) `microBlade psu power [psu index]`

(to set) `microBlade psu power [psu index] [on]`

3.2.4.3 *microblade psu fanMode*

Used to switch the power supply power to be in fan mode.

Usage:

(to get) `microBlade psu fanMode`

(to set) `microBlade psu fanMode [Auto:0 | Manual:1]`

3.2.4.4 *microblade psu fanSpeed*

Used to provide power supply power for fan speed control.

Usage:

(to get) `microBlade psu fanSpeed`

(to set) `microBlade psu fanMode [Index <1 to 10>]`

3.2.5 microblade fru

3.2.5.1 *microblade fru cmm*

Provide FRU information of the CMM.

3.2.5.2 *microblade fru midplane*

Provide FRU information of the middle plane.

Usage: `microBlade midplane`

Example Output:

```
FRU Device ID: 2
```

Board Info:

```
-----  
Language = English  
Board mfg. Date/Time = 1996/01/01 00:00:00 (00 00 00)  
Board Manufacturer Name = Supermicro  
Board Product Name =  
Board Serial Number =  
Board Part Number =
```

Product Info:

```
-----  
Product Manufacturer Name =  
Product Name =  
Product PartModel Number =  
Product Version =  
Product Serial Number =  
Product Asset Tag =
```

3.2.5.3 *microblade fru switch*

Provide FRU information of the switch.

3.2.5.4 *microblade fru psu*

Provide FRU information of the power supply.

3.2.6 **microblade powerConsumption**

Used to microblade system enclosure power consumption.

Usage: **microBlade powerConsumption**

3.3 sel

Entering the sel command will bring up the following subcommands for the system event log.

3.3.1 sel info

This command gives the information on the system event log.

Usage: **sel info**

Example Output:

```
Total Entries:      2
SEL Version:        1.5
Free Space:         9180bytes
Recent Entry Added: 12/20/2010 22:37:33
Recent Entry Erased: Pre-Init 00:00:00
```

3.3.2 sel list

This command will display the list of entries to the system event log.

Usage: **sel list**

3.3.3 sel csv

This subcommand will save the system event log as a csv file with the name specified in the filename.

Usage: **sel csv <filename>**

3.3.4 sel clear

This command will clear the system event log.

Usage: **sel clear**

allsel

Entering the allsel command will save all blade system event logs as a csv file with the name specified in the filename.

Usage: **allsel <filename>**

3.4 user

Entering the user command will list the following user management subcommands.

3.4.1 user add

Use this command to enter the name of a new user.

Usage: **user add** <user ID> <user name> <password> <privilege>

3.4.2 user list

Entering the list command will display the users.

Usage: **user list**

Example Output:

```
Maximum number of Users          : 10
Count of currently enabled Users : 2
User ID | User Name      | Privilege Level | Enable
-----|-----|-----|-----
      2 | ADMIN         | Administrator   | Yes
```

3.4.3 user delete

Entering the delete command allows you to delete a user.

Usage: **user delete** <user ID>

3.4.4 user level

Entering the level command allows you to update the level of a user.

Usage: **user level** <user ID> <privilege>

The following levels may be assigned:

- 4: Administrator level
- 3: Operator level
- 2: User level
- 1: Callback

3.4.5 user test

Entering the test command allows you to test logging in as a specific user.

Usage: **user test** <user ID> <password>

3.4.6 user setpwd

Entering the user setpwd command allows you to set the password.

Usage: **user setpwd <user ID> <password>**

3.5 vm

Entering the vm command will list the following virtual media management subcommands. Refer to [Appendix B](#) for more on VM commands.



Notes:

* This command only works properly in shell mode.

3.5.1 vm status

Using the status command lists the status of the drives present in the system.

Usage: **vm status**

Example Output:

```
Drive 1
Device Status = CD-ROM image on Windows share set
Image Size = 522766336 (bytes)
Access Mode = Read-Only
Image source = //192.168.10.43/iso/cd1.iso
```

```
Drive 2
Device Status = CD-ROM image on Windows share set
Image Size = 522766336 (byte)
Access Mode = Read-Only
Image source = //192.168.10.43/iso/cd2.iso
```

3.5.2 vm stop

Using the stop command allows you to stop the specified drive.

Usage: **vm stop <drive ID>**

3.5.3 vm floppy

Using the floppy command allows you to upload a floppy image as virtual media.

Usage: **vm floppy <drive ID> <floppy_filename>**

3.5.4 vm iso

Using the iso command allows you to share virtual media via Windows.

Usage: **vm iso** <drive ID> <host IP> <share name> <path to image>
[username] [password]

Example:

```
CMM>vm iso 1 192.168.10.43 iso cd1.iso
done
```

3.6 ipmi

Entering the ipmi command will list the following ipmi device management subcommands.

3.6.1 ipmi sensor

Using the sensor command will display the sensor status and data.

Usage: **ipmi sensor**

Example Output:

```
Getting SDR data ...
Getting sensors ...
  Status | (#)Sensor | Reading | Low Limit | High Limit |
  -----|-----|-----|-----|-----|
  OK     | (7) CPU1 Temp | Low | | |
  OK     | (8) CPU2 Temp | Low | | |
  OK     | (9) System Temp | 63C/145F | -5C/23F | 75C/167F |
  OK     | (10) CPU1 Vcore | 0.92 V | 0.82 V | 1.35 V |
  OK     | (11) CPU2 Vcore | 0.88 V | 0.82 V | 1.35 V |
  OK     | (12) +5V | 5.12 V | 4.48 V | 5.53 V |
  OK     | (13) +5VSB | 5.12 V | 4.48 V | 5.53 V |
  OK     | (14) +12V | 12.19 V | 10.7 V | 13.25 V |
  OK     | (15) -12V | -11.99 V | -12.58 V | -11.22 V |
  OK     | (16) +3.3V | 3.26 V | 2.92 V | 3.64 V |
  OK     | (17) +3.3VSB | 3.24 V | 2.92 V | 3.64 V |
  OK     | (18) VBAT | 3.21 V | 2.92 V | 3.64 V |
  OK     | (19) Fan1 | 4320 RPM | 675 RPM | 34155 RPM |
  OK     | (20) Fan2 | 0 RPM | 675 RPM | 34155 RPM |
  OK     | (21) Fan3 | 4320 RPM | 675 RPM | 34155 RPM |
  OK     | (22) Fan4 | 4185 RPM | 675 RPM | 34155 RPM |
  OK     | (23) Fan5 | 0 RPM | 675 RPM | 34155 RPM |
  OK     | (24) Fan6 | 0 RPM | 675 RPM | 34155 RPM |
  OK     | (25) Fan7 | 0 RPM | 675 RPM | 34155 RPM |
  OK     | (26) Fan8 | 0 RPM | 675 RPM | 34155 RPM |
  OK     | (27) P1-DIMM1A Temp | 47C/117F | -5C/23F | 75C/167F |
  OK     | (28) P1-DIMM1B Temp | N/A | -5C/23F | 75C/167F |
  OK     | (29) P1-DIMM2A Temp | 48C/118F | -5C/23F | 75C/167F |
  OK     | (30) P1-DIMM2B Temp | N/A | -5C/23F | 75C/167F |
  OK     | (31) P1-DIMM3A Temp | 46C/115F | -5C/23F | 75C/167F |
  OK     | (32) P1-DIMM3B Temp | N/A | -5C/23F | 75C/167F |
  OK     | (33) P2-DIMM1A Temp | 38C/100F | -5C/23F | 75C/167F |
  OK     | (34) P2-DIMM1B Temp | N/A | -5C/23F | 75C/167F |
  OK     | (35) P2-DIMM2A Temp | 37C/99F | -5C/23F | 75C/167F |
  OK     | (36) P2-DIMM2B Temp | N/A | -5C/23F | 75C/167F |
  OK     | (37) P2-DIMM3A Temp | 37C/99F | -5C/23F | 75C/167F |
  OK     | (38) P2-DIMM3B Temp | N/A | -5C/23F | 75C/167F |
```

OK		(39) Intrusion		00 C0 00 00		N/A		N/A	
OK		(40) PS Status		00 C0 00 00		N/A		N/A	

3.6.2 ipmi power

Using the power command will list the following power control options.

3.6.2.1 ipmi power status

Use the power status command to display system power status.

Usage: **ipmi power status**

3.6.2.2 ipmi power up

Use the power up command to power up a system.

Usage: **ipmi power up**

3.6.2.3 ipmi power down

Use the power down command to power down a system.

Usage: **ipmi power down**

3.6.2.4 ipmi power softshutdown

Use the softshutdown command to initiate a soft shutdown of a system.

Usage: **ipmi power softshutdown**

3.6.2.5 ipmi power reset

Use the reset command to initiate a reset of a system. Using the PXE option forces the first boot device to be used as PXE in the next boot only.

Usage: **ipmi power reset [PXE]**

3.6.2.6 ipmi power cycle

Use the cycle command to power cycle a system.

Usage: **ipmi power cycle [interval]**

3.6.2.7 ipmi power diag

Use the diag command to initiate a diagnostic interrupt of a system.

Usage: **ipmi power diag**

3.6.2.8 ipmi power bootoption <Index>

Use the bootoption command to set boot device in next boot. Following is the boot option index.

Usage: **ipmi power bootoption**

```

For bootoption index :
1: PXE                2: Hard-drive
3: CD/DVD            4: Bios
5: USB KEY           6: USB HDD
7: USB Floppy        8: USB CD/DVD
9: UEFI Hard-drive   10: UEFI CD/DVD
11: UEFI USB KEY     12: UEFI USB HDD
13: UEFI USB CD/DVD

```

Ex: set power cycle interval as 10 seconds and execute power cycle

3.6.3 ipmi acpi

Using the acpi command will display the ACPI (Advanced Configuration and Power Interface) status.

Usage: **ipmi acpi**

3.6.4 ipmi lan

Using the lan command will list the following LAN (Local Area Network) management subcommands.

Usage: **ipmi lan**

Example Output:

```

ip [ip]                Get/Set IP. Format:###.###.###.###
mac [mac]              Get/Set MAC. Format:##:##:##:##:##:##
gateway [gateway_IP]  Get/Set gateway. Format:###.###.###.###
netmask [netmask]     Get/Set netmask. Format:###.###.###.###
snmp [<seq> <ip> [mac]] Get/Set SNMP destination
snmpcomm [community string] Get/Set SNMP community string
arp [on|off]          On/Off Gratuitous ARP
dhcp [enable|disable] Enable/Disable DHCP
vlan [<enable|disable> <tag>] Display/Enable/Disable VLAN
dns [<Pri._IP> <Sec._IP>] Get/Set DNS server (OEM)

```

3.6.4.1 ipmi lan ip

Use the ip command to get/set the specified ipmi address.

Usage: **ipmi lan ip [ip]**

Address format: **###.###.###.###**

3.6.4.2 ipmi lan mac

Use the ip command to get/set the specified MAC address.

Usage: **ipmi lan mac [mac]**

Address format: **###.###.###.###**

3.6.4.3 ipmi lan gateway

Use the gateway command to get/set the specified Gateway address.

Usage: **ipmi lan gateway [gateway IP]**

Address format: ###.###.###.###

3.6.4.4 *ipmi lan netmask*

Use the netmask command to get/set the specified Netmask.

Usage: **ipmi lan netmask [netmask]**

Address format: ###.###.###.###

3.6.4.5 *ipmi lan snmp*

Use the snmp command to get/set the specified SNMP destination.

Usage: **ipmi lan snmp [<seq> <ip> [mac]]**

Example Output:

Seq	IP	MAC
---	--	---
1	0.0.0.0	00:00:00:00:00:00
2	192.168.12.150	00:00:00:00:00:00
3	0.0.0.0	00:00:00:00:00:00
4	0.0.0.0	00:00:00:00:00:00
5	0.0.0.0	00:00:00:00:00:00
6	0.0.0.0	00:00:00:00:00:00
7	0.0.0.0	00:00:00:00:00:00
8	0.0.0.0	00:00:00:00:00:00
9	0.0.0.0	00:00:00:00:00:00
10	0.0.0.0	00:00:00:00:00:00
11	0.0.0.0	00:00:00:00:00:00
12	0.0.0.0	00:00:00:00:00:00
13	0.0.0.0	00:00:00:00:00:00
14	0.0.0.0	00:00:00:00:00:00
15	0.0.0.0	00:00:00:00:00:00

3.6.4.6 *ipmi lan snmpcomm*

Use the snmpcomm command to get/set the SNMP community string.

Usage: **ipmi lan snmpcomm [community string]**

Example Output:

```
public
```

3.6.4.7 *ipmi lan arp*

Use the arp command to enable BMC-generated gratuitous ARPs.

Usage: **ipmi lan arp [on|off]**

3.6.4.8 *ipmi lan dhcp*

Use the dhcp command to enable or disable DHCP (Dynamic Host Configuration Protocol).

Usage: **ipmi lan dhcp** [**enable|disable**]

3.6.4.9 *ipmi lan vlan*

Use the **vlan** command to enable or disable virtual LAN (vlan).

Usage: **ipmi lan vlan** [**<enable|disable>** **<tag>**]

3.6.5 ipmi fru

Using the **fru** command will list the information on the FRU (Field Replaceable Unit).

Usage: **ipmi fru**

Example Output:

```
Getting FRU ...
Chassis Type                = undefined (00h)
Chassis Part Number         =
Chassis Serial Number       =
Board Manufacturer Name     = Super Micro
Board Product Name          = IPMI2.0
Board Serial Number         =
Board Part Number           = AOC-SIMCM-O-P
Board FRU File ID           =
Product Manufacturer Name   = Super Micro
Product Name                 = IPMI2.0
Product PartModel Number   = SBM-CMM-001
Product Version             = 1.0
Product Serial Number      =
Product Asset Tag           =
Product FRU File ID        =
```

3.6.6 ipmi fruw

Use this command to write FRU to update FRU field with abbreviation and given values.

Usage: **ipmi fruw** **<field>** **<value>**

Example Output:

```
192.168.23.157 X9SCD (S0/G0,6w,v01.39) 14:19 SIM(WA)>ipmi fruw BDT "201210101200"
Board mfg. Date/Time (BDT)    = 2012/10/10 12:00:00 (30 A3 86)
Board Manufacturer Name (BM)  = Supermicro
Board Product Name (BPN)     =
Board Serial Number (BS)     =
Board Part Number (BP)       =
Board FRU File ID            =
Product Manufacturer Name (PM) =
Product Name (PN)            =
Product PartModel Number (PPM) =
Product Version (PV)         =
Product Serial Number (PS)   =
Product Asset Tag (PAT)      =
Product FRU File ID          =
```

```
192.168.23.157 X9SCD (S0/G0,6w,v01.39) 14:20 SIM(WA)>ipmi fruw BS 123456789
```

```
Board mfg. Date/Time (BDT) = 2012/10/10 12:00:00 (30 A3 86)
Board Manufacturer Name (BM) = Supermicro
Board Product Name (BPN) =
Board Serial Number (BS) = 123456789
Board Part Number (BP) =
Board FRU File ID =
Product Manufacturer Name (PM) =
Product Name (PN) =
Product PartModel Number (PPM) =
Product Version (PV) =
Product Serial Number (PS) =
Product Asset Tag (PAT) =
Product FRU File ID =
```

3.6.7 ipmi frubackup

Use this command to back up FRU information as a file.

Usage: `ipmi frubackup <filename>`

3.6.8 ipmi frurestore

Use this command to restore FRU information from a file.

Usage: `ipmi frurestore <filename>`

3.6.9 ipmi oem

Using the oem command will list the following subcommands.

3.6.9.1 ipmi oem clrnt

Use the clrnt command to clear the chassis intrusion detection switch.

Usage: `ipmi oem clrnt`

3.6.9.2 ipmi oem id

Use the id command to display the motherboard ID.

Usage: `ipmi oem id`

3.6.9.3 ipmi oem uid

Use the uid command to turn the UID LED on or off (if supported by the device).

Usage: `ipmi oem uid [on|off]`

3.6.9.4 ipmi oem backup

Use the backup command to backup the configuration file as the filename specified (only available on X7 series motherboards).

Usage: `ipmi oem backup <filename>`

3.6.9.5 *ipmi oem restore*

Use the restore command to restore the configuration from the filename specified (only available on X7 series motherboards).

Usage: **ipmi oem restore <filename> <option>**

3.6.9.6 *ipmi oem backupcfg*

Use the command to back up the configurations to a binary file. Note that this function is only available on motherboard X8, X9 and X10 series with ATEN firmware.

Usage: **ipmi oem backupcfg <filename>**

Example Output:

```
10.133.176.141 X8DTN+-F (S0/G0) 11:09 SIM(WA)>ipmi oem backupcfg 1.bin
Downloading progress:|>>>>| 100%

Download Time: 0 min 2 sec(s)
Download successfully
```

3.6.9.7 *ipmi oem restorecfg*

Use the command to restore the configurations from the binary file. Note that this function is only available on motherboard X8, X9 and X10 series with ATEN firmware.

Usage: **ipmi oem restorecfg <filename>**

Example Output:

```
10.133.176.141 X8DTN+-F (S0/G0) 11:09 SIM(WA)>ipmi oem restorecfg 1.bin
Progress:|>>>>| 100%

Upload Time: 0 min 0 sec(s)
Upload successfully
```

3.6.9.8 *ipmi oem getcfg*

Use the command to back up the configurations to a txt file. Note that this function is only available on motherboard X8, X9 and X10 series with ATEN firmware.

Usage: **ipmi oem getcfg <filename>**

Example Output:

```
10.133.176.141 X8DTN+-F (S0/G0) 11:12 SIM(WA)>ipmi oem getcfg 1.txt
Downloading progress:|>| 100%

Download Time: 0 min 1 sec(s)
Download successfully
```

3.6.9.9 *ipmi oem setcfg*

Use the command to restore the configurations from a txt file. Note that this function is only available on motherboard X8, X9 and X10 series with ATEN firmware.

Usage: **ipmi oem setcfg <filename>**

Example Output:

```
10.133.176.141 X8DTN+-F (S0/G0) 11:23 SIM(WA)>ipmi oem setcfg 1.txt
Progress:|>| 100%

Upload Time: 0 min 0 sec(s)
Upload successfully
```

3.6.9.10 *ipmi oem lani*

Use the `lani` command to interface with the IPMI LAN.

Usage: **ipmi oem lani [0|1|2]**

Example Output:

```
10.133.176.141 X10DRFR (S5/G2) 10:28 ASPD_T>ipmi oem lani 2
done

10.133.176.141 X10DRFR (S5/G2) 10:28 ASPD_T>ipmi oem lani
Current LAN interface is [ Failover ]

Parameter for setting:
0:Dedicated
1:On Board LAN1
2:Failover
```

3.6.9.11 *ipmi oem mac*

Use the command to get the system mac address (Lan 1).

Usage: **ipmi oem mac**

Example Output:

```
10.133.99.62 X9SCD (S0/G0,25w,v01.79) 11:01 SIM(WA)>ipmi oem mac
System MAC Address 1: 00:25:90:60:4B:40
```



Notes:

Following `ipmi oem x10cfg` commands are license required.

3.6.9.12 *ipmi oem x10cfg ldap*

Use this command to configure the LDAP authentication. Note that the available mode options may vary depending on the type of motherboard.

Usage: **ipmi oem x10cfg ldap** [<authentication> <SSL> <port> <ip address> <bind password> <bind DN> <search base>]

Example Output:

```
ASPD_T>ipmi oem x10cfg ldap
LDAP Authentication | Off
LDAP Authentication over SSL | Off
Port | 0
IP Address | 0.0.0.0
Bind Password |
Bind DN |
Bind Search Base |
```

Usage: **ipmi oem x10cfg ldap** [<authentication> <SSL> <port> <ip address> <bind password> <bind DN> <search base>]

For authentication:

On : 1

Off : 0

For SSL:

On : 1

Off : 0

* When SSL is on, port number should be 636; Off, port number should be 389

3.6.9.13 *ipmi oem x10cfg ad*

Use this command to configure the active directory authentication. Note that the available mode options may vary depending on the type of motherboard.

Usage: **ipmi oem x10cfg ad**

Example Output:

```
ASPD_T>ipmi oem x10cfg ad
Command:ipmi oem x10cfg ad
Command(s):
list List active directory server and role group
server <...> Edit Active Directory server
add <...> Add/Edit role group
delete <group id> Delete role group
```

3.6.9.14 *ipmi oem x10cfg radius*

Use this command to configure RADIUS. Note that the available mode options may vary depending on the type of motherboard.

Usage: **ipmi oem x10cfg radius** [<authentication> <port> <ip address> <secret>]

Example Output:

```
ASPD_T>ipmi oem x10cfg radius
RADIUS Authentication      |                               Off
Port                      |                               0
IP Address                 |                               0.0.0.0
Secret                     |
Usage: ipmi oem x10cfg radius [<authentication> <port> <ip address> <secret>]
For authentication:
On   : 1
Off  : 0
* The port number should be 1-65535
```

3.6.9.15 *ipmi oem x10cfg ipCtrl*

Use this command to configure IP access rules. Note that the available mode options may vary depending on the type of motherboard.

Usage: **ipmi oem x10cfg ipCtrl**

Example Output:

```
ASPD_T>ipmi oem x10cfg ipCtrl
Command:ipmi oem x10cfg ipCtrl
Command(s):
list                               List IP access control
status <enable/disable>          Enable/Disable IP access control
add <...>                          Add IP access control
edit <...>                          Edit IP access control
delete <rule no>                  Delete IP access control
```

3.6.9.16 *ipmi oem x10cfg ntp*

Entering the ntp command will list the following NTP management subcommands.

Usage: **ipmi oem x10cfg ntp**

Example Output:

```
list                               List configuration date and time setting
state [enable|disable]            Get/Set NTP state
timezone [-1200 ~ +1400]         Get/Set NTP time zone
daylight [yes|no]                Get/Set NTP daylight saving time
primary [server]                 Get/Set primary NTP server
secondary [server]               Get/Set secondary NTP server
```

3.6.9.16.1 *ipmi oem x10cfg ntp list*

Entering the list command will display the NTP settings.

Usage: **ipmi oem x10cfg ntp list**

Example Output:

```
NTP State           : Disable
Time Zone           : UTC +0000
Primary NTP Server  : localhost
Secondary NTP Server : 127.0.0.1
Daylight Saving Time : No
```

3.6.9.16.2 *ipmi oem x10cfg ntp state*

Use this command to get/set the NTP state.

Usage: **ipmi oem x10cfg ntp state [enable|disable]**

3.6.9.16.3 ipmi oem x10cfg ntp timezone

Use this command to get/set the NTP time zone.

Usage: **ipmi oem x10cfg ntp timezone [-1200 ~ +1400]**

3.6.9.16.4 ipmi oem x10cfg ntp daylight

Use this command to get/set NTP daylight.

Usage: **ipmi oem x10cfg ntp daylight [yes|no]**

3.6.9.16.5 ipmi oem x10cfg ntp primary

Use this command to get/set a specific NTP server.

Usage: **ipmi oem x10cfg ntp primary [server]**

3.6.9.16.6 ipmi oem x10cfg ntp secondary

Use this command to get/set a specific NTP server.

Usage: **ipmi oem x10cfg ntp secondary [server]**

3.6.9.17 ipmi oem x10cfg ddns

Entering the ddns command will list the following DDNS management subcommands.

Usage: **ipmi oem x10cfg ddns**

Example Output:

list	List dynamic DNS configuration setting
state [enable disable]	Get/Set dynamic DNS state
server [ip]	Get/Set dynamic DNS server IP
hostname [name]	Get/Set BMC host name
tsig [enable disable]	Get/Set TSIG authentication

3.6.9.17.1 ipmi oem x10cfg ddns list

Entering the list command will display the DDNS settings.

Usage: **ipmi oem x10cfg ddns list**

Example Output:

```
Dynamic Update State : Enable
Dynamic DNS Server IP : 127.0.0.1
BMC Host Name       : localhost
TSIG Authentication  : Enable
```

3.6.9.17.2 ipmi oem x10cfg ddns state

Use this command to get or set the DDNS state.

Usage: **ipmi oem x10cfg ddns state [enable|disable]**

3.6.9.17.3 ipmi oem x10cfg ddns server

Use this command to get or set the specific DDNS server.

Usage: `ipmi oem x10cfg ddns server [ip]`

3.6.9.17.4 ipmi oem x10cfg ddns hostname

Use this command to get or set the BMC host name.

Usage: `ipmi oem x10cfg ddns hostname [name]`

3.6.9.17.5 ipmi oem x10cfg ddns tsig

Use this command to get or set the TSIG authentication.

Usage: `ipmi oem x10cfg ddns tsig [enable|disable]`

3.6.9.18 ipmi oem x10cfg alert

Entering the alert command will list the following alert management subcommands.

Usage: `ipmi oem x10cfg alert`

Example Output:

<code>list <number></code>	List alert destination settings
<code>level <number> [level]</code>	Get/Set event severity
<code>ip <number> [ip]</code>	Get/Set alert destination IP
<code>mail <number> [mail]</code>	Get/Set alert mail address
<code>subject <number> [subject]</code>	Get/Set alert mail subject
<code>message <number> [message]</code>	Get/Set alert mail message
<code>send <number></code>	Send a test alert mail to destination
<code>delete <number></code>	Delete alert destination

3.6.9.18.1 ipmi oem x10cfg alert list

Entering the list command will display the alert settings.

Usage: `ipmi oem x10cfg alert list [number]`

Example Output:

```
-----  
1. Event Severity      : Disable All  
   Destination Address : 0.0.0.0 & N/A  
   Subject              : N/A  
   Message              : N/A  
-----  
2. Event Severity      : Disable All  
   Destination Address : 0.0.0.0 & N/A  
   Subject              : N/A  
   Message              : N/A  
-----  
3. Event Severity      : Disable All  
   Destination Address : 0.0.0.0 & N/A  
   Subject              : N/A  
   Message              : N/A
```

```

-----
4. Event Severity      : Disable All
   Destination Address : 0.0.0.0 & N/A
   Subject             : N/A
   Message             : N/A
-----
5. Event Severity      : Disable All
   Destination Address : 0.0.0.0 & N/A
   Subject             : N/A
   Message             : N/A
-----
6. Event Severity      : Disable All
   Destination Address : 0.0.0.0 & N/A
   Subject             : N/A
   Message             : N/A
-----
7. Event Severity      : Disable All
   Destination Address : 0.0.0.0 & N/A
   Subject             : N/A
   Message             : N/A
-----
8. Event Severity      : Disable All
   Destination Address : 0.0.0.0 & N/A
   Subject             : N/A
   Message             : N/A
-----
9. Event Severity      : Disable All
   Destination Address : 0.0.0.0 & N/A
   Subject             : N/A
   Message             : N/A
-----
10. Event Severity     : Disable All
   Destination Address : 0.0.0.0 & N/A
   Subject             : N/A
   Message             : N/A
-----
11. Event Severity     : Disable All
   Destination Address : 0.0.0.0 & N/A
   Subject             : N/A
   Message             : N/A
-----
12. Event Severity     : Disable All
   Destination Address : 0.0.0.0 & N/A
   Subject             : N/A
   Message             : N/A
-----
13. Event Severity     : Disable All
   Destination Address : 0.0.0.0 & N/A
   Subject             : N/A
   Message             : N/A
-----
14. Event Severity     : Disable All
   Destination Address : 0.0.0.0 & N/A
   Subject             : N/A
   Message             : N/A
-----
15. Event Severity     : Disable All
   Destination Address : 0.0.0.0 & N/A
   Subject             : N/A
   Message             : N/A
-----

```

```
16. Event Severity      : Disable All
   Destination Address  : 0.0.0.0 & N/A
   Subject              : N/A
   Message              : N/A
```

3.6.9.18.2 ipmi oem x10cfg alert level

Entering the level command allows you to get/set severity as a specific alert.

Usage: `ipmi oem x10cfg alert level <number> [level]`

The following levels may be assigned:

- 1: Disable All
- 2: Information and Above
- 3: Warning and Above
- 4: Critical And Above
- 5: Non-recoverable and Above

3.6.9.18.3 ipmi oem x10cfg alert ip

Entering the ip command allows you to get or set the destination IP as a specific alert.

Usage: `ipmi oem x10cfg alert ip <number> [ip]`

3.6.9.18.4 ipmi oem x10cfg alert mail

Entering the mail command allows you to get or set the destination mail address as a specific alert.

Usage: `ipmi oem x10cfg alert mail <number> [mail]`

3.6.9.18.5 ipmi oem x10cfg alert subject

Entering the subject command allows you to get or set the destination mail subject as a specific alert.

Usage: `ipmi oem x10cfg alert subject <number> [subject]`

3.6.9.18.6 ipmi oem x10cfg alert message

Entering the message command allows you to get or set the destination message as a specific alert.

Usage: `ipmi oem x10cfg alert message <number> [message]`

3.6.9.18.7 ipmi oem x10cfg alert send

Entering the send command allows you to send a specific alert.

Usage: `ipmi oem x10cfg alert send <number>`

3.6.9.18.8 ipmi oem x10cfg alert delete

Entering the delete command allows you to delete a specific alert.

Usage: `ipmi oem x10cfg alert delete <number>`

3.6.9.19 *ipmi oem x10cfg smtp*

Entering the smtp command will list the following SMTP management subcommands.

Usage: **ipmi oem x10cfg smtp**

Example Output:

list	List SMTP mail server configuration
ssl [enable disable]	Get/Set SMTP SSL authentication state
server [enable disable]	Get/Set SMTP server
port [number]	Get/Set SMTP port number
user [name]	Get/Set SMTP user name
password <password>	Set SMTP password
sender <mail>	Get/Set SMTP sender's address

3.6.9.19.1 *ipmi oem x10cfg smtp list*

Entering the list command will display the SMTP settings.

Usage: **ipmi oem x10cfg smtp list**

Example Output:

```
SSL Authentication: Disable
Server              :localhost
Port                : 587
User Name           :Admin
Sender Address      :admin@admin.com
```

3.6.9.19.2 *ipmi oem x10cfg smtp ssl*

Use this command to get or set the SMTP SSL authentication state.

Usage: **ipmi oem x10cfg smtp ssl [enable|disable]**

3.6.9.19.3 *ipmi oem x10cfg smtp server*

Use this command to get or set a specific SMTP server.

Usage: **ipmi oem x10cfg smtp server [server]**

3.6.9.19.4 *ipmi oem x10cfg smtp port*

Use this command to get or set the SMTP port number.

Usage: **ipmi oem x10cfg smtp port [number]**

3.6.9.19.5 *ipmi oem x10cfg smtp user*

Use this command to get or set the SMTP user name.

Usage: **ipmi oem x10cfg smtp name [name]**

3.6.9.19.6 *ipmi oem x10cfg smtp password*

Use this command to get or set the SMTP password.

Usage: **ipmi oem x10cfg smtp password [password]**

3.6.9.19.7 ipmi oem x10cfg smtp mail

Use this command to get or set the SMTP mail address.

Usage: **ipmi oem x10cfg smtp sender [mail]**

3.6.9.20 ipmi oem x10cfg dns

Get/Set dns server IP

Usage: **ipmi oem x10cfg dns [IP]**

3.6.9.21 ipmi oem summary

Display a summary table including IP, Mac address, firmware version ,BIOS version and so on.

Usage: **ipmi oem summary**

Example Output:

```
Summary
-----
IP                : 10.136.176.161
MAC Address       : 00:25:90:5D:2F:63
Firmware Revision : 0.53
Firmware Build Date : 10/16/2015
CPLD Version      : 02.b1.01
System MAC Address 1 : 00:25:90:5D:2F:2C
```

3.6.10 ipmi reset

Using the reset command will reset IPMI.

Usage: **ipmi reset**

3.6.11 ipmi ver

Using the ver command will display the following information relating to the IPMI version in use.

Usage: **ipmi ver**

Example Output:

```
IPMI Version      = 2.0
Firmware Revision = 02.02
Manufacturer ID   = C5 28 00
product ID        = 04 00 00
OEM Version       = 2.2.64 build 5420
OEM Tag           = Dec-15-2010-17-15-CMM
```

3.6.12 ipmi flash

Use the flash command to flash a new version of SIM IPMI firmware as specified by the filename.

Usage: **ipmi flash <filename>**

3.6.13 ipmi flashw

Use the flashw command to flash a new version of SIM(W) or SIMBL(W) IPMI firmware as specified by the filename.

Usage: **ipmi flashw <filename>**

3.6.14 ipmi flashr

Use the flashr command to flash a new version of Renesas (X9 and B9) IPMI firmware.

Usage: **ipmi flashr**

Example Output:

```
192.168.23.17 (S0/G0,55w) 16:08 SIM(X9)>ipmi flashr c:\17.ima
*****
WARNING!
Firmware upgrade must not be interrupted once it is started.
Once you get error after Upgrading, please use local KCS tool
for recovery. (DOS:RKCSFlsh.exe, Linux:RLin32Flsh or
Windows:RWin32Flsh.exe )
*****
Check firmware file... Done (ver:1.10.15)
Check BMC status... Done (ver:1.10.18)
Enter to Flash Mode
Uploading .....100%
Upgrading .....100%
Verifying .....100%
Resetting BMC
Done. (BMC needs 1 minute to restart)
Please reset system for board configuration
Total Elapse Time: 7 min 27 sec(s)
```

3.6.15 ipmi flashh

Use the flashh command to flash the SIM(WA) IPMI firmware (*.bin) specified by the filename.

Usage: **ipmi flashh <filename>**

Example Output:

```
192.168.23.157 (S0/G0,6w) 14:19 SIM(WA)>ipmi flashh c:\160.bin
*****
WARNING!
Firmware upgrade must not be interrupted once it is started.
Once you get error after Upgrading, please use local KCS tool
for recovery.
(DOS:duplicate.exe, Linux:lupdate or Windows:wupdate.exe)
*****
Check firmware file... Done (ver:01.60)
Check BMC status... Done (ver:01.60)
Uploading...Done
Updating.....100%
Resetting BMC
Done. (BMC needs 1 minute to restart)
Total Elapse Time: 2 min 30 sec(s)
```

3.6.16 ipmi flasha

Use the flasha command to flash the ASPEED IPMI firmware (motherboard series X10 and X11 UP, *.bin). The option of keeping the previous configurations is also provided.

0: Do not preserve config

1: Preserve config

Note that this function is only available on firmware version 1.04 or later.

Usage: **flasha** <filename> [**Preserve_opt**]

Example Output:

```
10.133.176.81 X10SLM-F (S0/G0,21w,v09.11) 10:13 ASPD_T>ipmi flasha
c:\smt_x10_031.bin
*****
WARNING!
Firmware upgrade must not be interrupted once it is started.
Once you get error after Upgrading, please use local KCS tool
for recovery.
*****
Check firmware file... Done (ver:0.31)
Check BMC status... Done (ver:09.11)
Uploading...Done
Updating.....100%
Resetting BMC
Done. (BMC needs 1 minute to restart)
Total Elapse Time: 3 min 18 sec(s)
```

3.6.17 ipmi raw

Use the raw command to send an IPMI raw command.

Usage: **ipmi raw** <netFn> <cmd> [**data**]

3.6.18 ipmi ipmb

Use the ipmb command to send an IPMI raw command.

Usage: **ipmi ipmb** <ch> <addr> <netFn> <cmd> [**data**]

3.6.19 ipmi ipmboem

Use the ipmboem command to send an IPMI raw command.

Usage: **ipmi ipmb** <ch> <addr> <netFn> <cmd> [**data**]

3.6.20 ipmi delsdr

Use the delsdr command to delete the SDR.

Usage: **ipmi delsdr** <SDR record ID>

3.6.21 ipmi session info

Use this command to view the information of

Usage: **ipmi sessioninfo**

Example Output:

```
SessionHandler = 16h
Number of possible active sessions = 36
Number of currently active sessions = 6
User ID = 02h
Operating Privilege Level = 04h
Session protocol auxiliary data = 11h
IP Address of remote console = 00 00 00 00 (0.0.0.0)
Mac Address of remote console= 00 00 00 00 00 00 (00:00:00:00:00:00)
Port Number = 00 00 (0)
```

3.6.22 ipmi fan

Use this command to control the fan. Note that the available mode options may vary depending on types of motherboards.

Usage: **ipmi fan**

Example Output:

```
10.133.99.62 X9SCD (S0/G0,23w,v01.79) 10:59 SIM(WA)>ipmi fan
Current Fan Speed Mode is [ Optimal Speed ]

Fan Modes:
0: Standard Speed
1: Full Speed
2: Optimal Speed
3: PUE2 Optimal Speed
4: Heavy IO Speed
```

3.6.23 ipmi watchdog

This command can be used for a number of system timeout functions.

Setting a timeout value of '0' allows the selected timeout action to occur immediately.

3.6.23.1 ipmi watchdog reset

Entering the list command will start and restart the watchdog timer from the initial countdown value.

Usage: **ipmi watchdog reset**

3.6.23.2 ipmi watchdog set

Use the set command to initialize and configure the watchdog timer. The command is also used for stopping the timer.

Usage: **watchdog set <action> <countdown> <interval>**

3.6.23.3 *ipmi watchdog info*

Use the `get` command to retrieve the current settings and present countdown of the watchdog timer.

Usage: **ipmi watchdog info**

Example Output:

Item	Value
-----	-----
Watchdog Timer Use	SMS/OS (0x04)
Watchdog Timer Is	Started/Running
Watchdog Timer Actions	Power Cycle (0x03)
Pre-timeout interval	20 seconds
Timer Expiration Flags	0x00
Initial Countdown	30 sec
Present Countdown	20 sec

3.7 *ver*

Entering the `ver` command will list the version and build of the SMCIPMITool application being used.

Usage: **ver**

Example Output:

```
SMC IPMI Tool V1.7.9(Build 101124) - Super Micro Computer, Inc.
```

3.8 *list*

Entering the `list` command will display all available commands.

Usage: **list**

3.9 *find*

Entering the `find` command will search for and display all IPMI devices.

Usage: **find** [**<Start_IP>** **<End_IP>** **<NetMask>**]

Example Output:

```
Finding IPMI Devices ...
172.31.100.235          IPMI 2.0 (SuperBlade TwinBlade CMM)
172.31.100.242          IPMI 2.0 (SuperBlade CMM)
2 IPMI device(s) found. Use "found" to list found devices
```

3.10 *found*

Entering the `found` command will list or clear all found IPMI devices.

Usage: **found** [**clear**]

3.10.1 **found list**

Use the list command to list all found IPMI devices.

Usage: **found list**

3.10.2 **found clear**

Use the clear command to clear all found IPMI devices.

Usage: **found clear**

3.10.3 **found copy <index1> [index2] [...]**

Use this command to copy the found devices to the default managed group.

Usage: **found copy** <index1> [index2] [...]

3.10.4 **found copyall**

Copy all found devices to the default managed group

Usage: **found copyall**

3.10.5 **found saveAs <filename>**

Use this command to save the results of found IPMI devices to a file.

Usage: **found saveAs**<filename>

3.10.6 **found refresh**

Use this command to refresh the result of found IPMI devices.

Usage: **found refresh**

3.11 **exec**

Entering the exec command will execute the specified command from a file.

Usage: **exec** <filename> <loop> <delay> where

Loop = 0 is for an infinite loop

Delay is in seconds

3.12 **host**

Entering the host command will list the following host-related subcommands.

3.12.1 host list

Use the list command to list the host group and host data.

Usage: **host list**

Example Output:

```
Host:
      Host                IP
      ----                --
      1.112                (192.168.1.112)
      1.119                (192.168.1.119)
      b11                  (192.168.10.243)
      b12                  (192.168.10.244)

Host Group:
      Group Name          Host
      -----
      1                    1.112
                        1.119
      b1                    b11
                        b12
```

3.12.2 host reload

Using the reload command will reload the host data.

Usage: **host reload**

3.12.3 host add

Use the add command to add a host.

Usage: **host add <host> <ip> [username] [password]**

3.12.4 host remove

Use the remove command to remove a host.

Usage: **host remove <host>**

3.12.5 host rename

Use the rename command to rename a host.

Usage: **host rename <old name> <new name>**

3.12.6 host group

Entering the group command will list the following group-related subcommands.

3.12.6.1 host group add

Use the add command to add a host group.

Usage: **host group add** <group> [**host**] ...

3.12.6.2 *host group remove*

Use the `remove` command to remove a host group.

Usage: **host group remove** <group>

3.12.6.3 *host group rename*

Use the `rename` command to rename a host group.

Usage: **host group rename** <old name> <new name>

3.12.6.4 *host group addhost*

Use the `addhost` command to add a host to an existing host group.

Usage: **host group addhost** <group> <host> ...

3.12.6.5 *host group removehost*

Use the `removehost` command to remove a host from an existing host group.

Usage: **host group removehost** <group> <host> ...

3.13 hostrun

Enter the hostrun command to run a command on an entire host or group.

Usage: **hostrun** <host|group> <command>

Example Output:

```
CMM>hostrun bl ipmi power up
[b11:192.168.10.243]
Done

[b12:192.168.10.244]
Done
```

3.14 sc

Enter the sc command to execute a DOS or Linux shell command.

Usage: **sc** <command>

Example Output:

```
CMM>sc dir (execute dir command in Windows OS)
CMM>sc ls (execute ls command in Linux OS)
CMM>sc ping 192.168.10.123 (execute ping command)
```

3.15 pminfo

Entering the pminfo command will display information on the health of the PMBus.

Usage: **pminfo** [<bus ID> <slave address>]

Example Output:

```
192.168.23.80 X9DRW-3F (S0/G0,56w) 14:20 SIM(X9)>pminfo
[SlaveAddress = 78h] [Module 1]
Item | Value
----|-----
Status | [STATUS OK] (01h)
AC Input Voltage | 109.5 V
AC Input Current | 0.51 A
DC 12V Output Voltage | 12.18 V
DC 12V Output Current | 3.5 A
Temperature 1 | 38C/100F
Temperature 2 | 35C/95F
Fan 1 | 6688 RPM
Fan 2 | 0 RPM
DC 12V Output Power | 42 W
AC Input Power | 55 W
PMBus Revision | 0xFFFF
PWS Serial Number | P5041CB02AW0093
PWS Module Number | PWS-504P-RR
PWS Revision |
```

3.16 psfruinfo

This command will display the FRU health information of a power supply.

Usage: **psfruinfo**

Example Output:

```
laveAddress = 70h] [Module 1]
Item                               |                               Value
----                               |                               -----
Status                             |                               On
Temperature                         |                               36C/97F
Fan 1                               |                               6641 RPM
```

3.17 psbbpInfo

Use this command to display the status of backup battery power.

Usage: **psbbpInfo**

Example Output:

```
192.168.12.137 X8DTU (S0/G0,78w,v01.34) 16:06 SIM(WA)>psbbpinfo
[SlaveAddress = 70h] [Module 1]
Item                               |                               Value
----                               |                               -----
Manufacturer                       |                               SUPERMICRO
Model Name                         |                               PWS-206B-1R
Serial Number                      |                               TEST1234567890A
Product Version                    |                               1.2
Firmware version                   |                               1.0
-----
Battery Voltage                    |                               16.13 V
Battery Current                    |                               0 mA
Battery Pack Temp                  |                               31C/88F
Power Wattage                      |                               200W
Cycle Count                        |                               6
-----
Battery Power Status               |                               Normal
Remaining Energy                   |                               96%
Discharge Status                   |                               None
Discharge Setting                  |                               Auto (30 days)
Discharge Remaining Days           |                               29 days
Battery Status                     |                               0xC0E0
                                   |                               [FULLY CHARGED]
                                   |                               [TERMINATE CHARGE]
```

3.18 bbp

Entering the `bbp` command will bring up the following subcommands for battery backup power management.

3.18.1 bbp status

Use this command to display the status of backup battery power.

Usage: `bbp status`

Example Output:

```
192.168.12.137 X8DTU (S0/G0,78w,v01.34) 16:06 SIM(WA)>bbp st
[SlaveAddress = 70h] [Module 1]
Item | Value
----|-----
Manufacturer | SUPERMICRO
Model Name | PWS-206B-1R
Serial Number | TEST1234567890A
Product Version | 1.2
Firmware version | 1.0
-----|-----
Battery Voltage | 16.13 V
Battery Current | 0 mA
Battery Pack Temp | 31C/88F
Power Wattage | 200W
Cycle Count | 6
-----|-----
Battery Power Status | Normal
Remaining Energy | 96%
Discharge Status | None
Discharge Setting | Auto (30 days)
Discharge Remaining Days | 29 days
Battery Status | 0xC0E0
| [FULLY CHARGED]
| [TERMINATE CHARGE]
```

3.18.2 bbp autoDischarge

Use this command to set the battery auto discharge by day.

Usage: `autoDischarge <module> <day>`

3.18.3 bbp discharge

Use this command to manually discharge the battery.

Usage: `discharge <module>`

3.31.4 bbp shutdown

Use this command to set graceful shutdown to On/Off after timeout (power supply failure).

Usage: `bbp hutdown <on|off> [sec]`

3.31.5 `bbp shutdownTimeout`

Use this command to get the timeout value for graceful shutdown.

Usage: `bbp shutdownTimeout`

3.19 `nm`

This command is for Intel Dynamic Power Node Manager V1.5 and is specifically used to test Supermicro X8 series motherboards. Use this command to run tests.

3.19.1 `nm detect`

Use the detect command to detect if ME is present.

Usage: `nm detect`

Example Output:

```
This device supports Node Manager
```

3.19.2 `nm ver`

Use the ver command to display the node manager version.

Usage: `nm ver`

Example Output:

```
Node Manager Version = 1.5  
Firmware Version    = 1.12
```

3.19.3 `nm cap`

Use the cap command to display the node manager capabilities.

Usage: `nm cap`

Example Output:

```
Max concurrent settings      = 10  
Max Power limit value       = 32767 w  
Min Power limit value        = 1 w  
Max Correction Time settable = 600000 ms  
Min Correction Time settable = 6000 ms  
Max Statistics Reporting period = 3600 s  
Min Statistics Reporting period = 1 s  
Limiting type                = CPU power limiting  
Limiting based on            = Wall input power. PSU input power
```

3.19.4 nm status

Use the status command to display or enable or disable the node manager global policy. It get node manager statistics with parameter global =1 , domain =0 and policy =0.

Usage: **nm status [enable:disable]**

Example Output:

```
Node Manager global policy is enabled
```

3.19.5 nm stat

Use the status command to display power statistics (or by policy ID).

Usage: **nm stat [ID]**

Example Output:

```
Global Power statistic
Current = 263 w
Minimum = 0 w
Maximum = 375 w
Average = 259 w
Time = 12/27/2010 04:50:54
Reporting Period = 1 sec
Node Manager is enabled
Measurements in progress
```

3.19.6 nm resetStat

Use the resetStat command to reset the power statistics (or by policy ID).

Usage: **nm resetStat [ID]**

3.19.7 nm pstate

Use the pstate command to get or set the P-state.

Usage: **nm pstate [value]**

Example Output:

```
Current P-State = 7
Number of P-State = 8
```

3.19.8 nm tstate

Use the tstate command to get or set the T-state.

Usage: **nm tstate [value]**

Example Output:

```
Current T-State = 0
```

Number of T-State = 8

3.19.9 nm ptstate

Use the ptstate command to display the P-state and T-state.

Usage: **nm ptstate**

Example Output:

```
P-State : High | _____ # | Low      [7/8] (Current/Number of State)
T-State : High | # _____ | Low     [0/8] (Current/Number of State)
```

3.19.10 nm alert

Use the alert command to get or set the destination for alerts. The node manager will send the alert to the SNMP destination, which can be defined by the “ipmi lan snmp” command.

Usage: **nm alert [destination]**

Example Output:

```
SIM(WA)>ipmi lan snmp
Seq          IP          MAC
---          --          ---
 1           0.0.0.0    00:00:00:00:00:00
 2      192.168.12.150  00:00:00:00:00:00
 3           0.0.0.0    00:00:00:00:00:00
 4           0.0.0.0    00:00:00:00:00:00
 5           0.0.0.0    00:00:00:00:00:00
 6           0.0.0.0    00:00:00:00:00:00
 7           0.0.0.0    00:00:00:00:00:00
 8           0.0.0.0    00:00:00:00:00:00
 9           0.0.0.0    00:00:00:00:00:00
10           0.0.0.0    00:00:00:00:00:00
11           0.0.0.0    00:00:00:00:00:00
12           0.0.0.0    00:00:00:00:00:00
13           0.0.0.0    00:00:00:00:00:00
14           0.0.0.0    00:00:00:00:00:00
15           0.0.0.0    00:00:00:00:00:00
SIM(WA)>nm alert 2
Done
SIM(WA)>nm alert
Destination selector = 2
```

3.19.11 nm scanPolicy

Use the scanPolicy command to get or set the destination for alerts.

Usage: **nm scanPolicy [end]**

Example Output:

```
=====
Policy ID = 0, Power Limit = 32767 w
Policy state:
```

```
Policy enabled
Per Domain Node Manager policy control enabled
Global Node Manager policy control enabled
Exception action:
=====
Policy ID = 2, Power Limit = 200 w
Policy state:
Policy enabled
Per Domain Node Manager policy control enabled
Global Node Manager policy control enabled
Exception action:
```

3.19.12 nm addPolicy

Use the addPolicy command to add a new policy.

Usage: **nm addPolicy** <ID> <limit> <t> <p>

Example Output:

```
SIM(WA)>nm addPolicy 15 150 60000 10
Done
```

3.19.13 nm delPolicy

Use the delPolicy command to delete a policy.

Usage: **nm delPolicy** <ID>

3.19.14 nm getPolicy

Use the getPolicy command to get a policy.

Usage: **nm getPolicy** <ID>

Example:

```
SIM(WA)>nm getPolicy 15
Power Limit = 150 w
Correction Time limit      = 60000 ms
Statistics Reporting Period = 10 s
Policy state:
Policy enabled
Per Domain Node Manager policy control enabled
Global Node Manager policy control enabled
Policy Exception action state:
Send alert
```

3.19.15 nm enablePolicy

Use the enablePolicy command to enable a policy.

Usage: **nm disablepolicy** <ID>

3.19.16 nm disablePolicy

Use the disablePolicy command to disable a policy.

Usage: **nm disablePolicy** <ID>

3.20 kvmwa

Entering the kvmwa command will open a KVM window for ATEN firmware.

Usage: **kvmwa**

3.21 ukvm

Entering the ukvm command will auto-detect the firmware and launch the correct KVM (keyboard/video/mouse) window console.

Usage: **ukvm**

3.22 vmwa

Entering the vmwa command will list the following vmwa subcommands (applies only to devices with ATEN firmware). Refer to [Appendix B](#) for more on VM commands. Please note that this command only works in shell mode.

Usage: **vmwa**



Notes:

- * Supports 2 virtual devices (device 1 & device 2).
Device 1 will be Hard Disk, USB or Floppy.
Device 2 will be CD, DVD or ISO file.
 - * List available devices before mount virtual media when plug in Removable device.
 - * This command only works properly in shell mode.
-

3.22.1 vmwa dev1list

Use the dev1list command to list the available device for virtual device 1.

Usage: **vmwa dev1list**

3.22.2 vmwa dev1drv

Use the dev1drv command to mount the drive for virtual device 1.

Usage: **vmwa dev1drv** <index>

3.22.3 vmwa dev1stop

Use the dev1stop command to stop the virtual device 1.

Usage: **vmwa dev1stop**

3.22.4 **vmwa dev2list**

Use the dev2list command to list the available device for virtual device 2.

Usage: **vmwa dev2list**

3.22.5 **vmwa dev2cd**

Use the dev2cd command to mount the CD/DVD drive for virtual device 2.

Usage: **vmwa dev2cd <index>**

3.22.6 **vmwa dev2iso**

Use the dev2iso command to mount the ISO file for virtual device 2.

Usage: **vmwa dev2iso <filename>**

3.22.7 **vmwa dev2stop**

Use the dev2stop command to stop the virtual device 2.

Usage: **vmwa dev2stop**

3.22.8 **vmwa allstatus**

Use the allstatus command to show all VMWA status.

Usage: **vmwa allstatus**

3.22.9 **vmwa status**

Use the status command to show the status.

Usage: **vmwa status**

Example Output:

```
Device 1: None
Device 2: None
```

3.22.10 **vmwa log**

Use the log command to show the log.

Usage: **vmwa log**

3.23 dcmi

Entering the dcmi command will list the following DCMI management subcommands (applies only to devices that support DCMI management).

3.23.1 dcmi find

Use the find command to search for and display all DCMI devices.

Usage: **dcmi find** [<Start_IP> <End_IP> <NetMask>]

Example Output:

```
Finding DCMI Devices ...
 192.168.12.151      DCMI Ver:0.1
 192.168.12.152      DCMI Ver:0.1
 2 DCMI device(s) found
```

3.23.2 dcmi cap

Use the cap command to list the DCMI capabilities information.

Usage: **dcmi cap**

Example Output:

```
DCMI Version = 0.1
Mandatory Platform capabilities
Temperature Monitor      :Compliant
Chassis Power           :Compliant
SEL logging              :Compliant
Identification Support  :Compliant

Optional Platform capabilities
Power Management        :Not Compliant

Manageability Access Capabilities
VLAN Capable            :Available
SOL Supported           :Available
OOB Primary LAN Channel Available :Available
OOB Secondary LAN Channel Available :Not presnt
OOB Serial TMODE Available :Not presnt
In-Band KCS Channel Available :Available

SEL Attributes
SEL automatic rollover enabled :Not presnt
Number of SEL entries          :0

Identification Attributes
Asset Tag Support             :Available
DHCP Host Name Support       :Not presnt
GUID Support                  :Available

Temperature Monitoring
Baseboard temperature        :At least 1
Processors temperature       :At least 1
Inlet temperature           :At least 1
```

```
Power Management Device Slave Address
7-bit I2C Slave Address of device on IPMB :10

Power Management Controller Channel Number
Channel Number :00
Device Revision :01

Manageability Access Attributes
Mandatory Primary LAN OOB Support(RMCP+ Support Only) :supported
Optional Secondary LAN OOB Support(RMCP+ Support Only):supported
Optional Serial OOB TMODE Capability :supported
```

3.24 dr

Entering the dr command will list the following drive-redirection subcommands (applies only to devices with Peppercorn firmware). Refer to [Appendix B](#) for more on drive-redirection / VM commands.

3.24.1 dr list

Use the list command to list the available local drives.

Usage: **dr list**

Example Output:

```
C: (Hard Disk)
D: (Hard Disk)
E: (CD-ROM)
```

3.24.2 dr iso

Use the iso command to set the redirection for the ISO file.

Usage: **dr iso <drive ID> <path to iso file>**

Example: dr iso c:\cd.iso

This will establish an ISO redirection with your cd.iso



Note: If your path includes a space, please place double quote at begin and end of <path to iso file>.

3.24.3 dr drv

Use the drv command to set the redirection for the local drive.

Usage: **ddr drv <drive ID> <drive Letter> [write ? enable]**

Example 1: dr drv 1 d

This will establish a drive redirection with your local d drive.

The write support is disabled

Example 2: `dr drv 1 e enable`

This will establish a drive redirection with your local e drive.

The write support is enabled.

3.25 kvm

Entering the `kvm` command will open a KVM window for Peppercon firmware.

Usage: `kvm`

3.26 kvmw

Entering the `kvmw` command will open a KVM window for AMI firmware.

Usage: `kvmw`

3.27 kvmwx9

Entering the `kvmwx9` or `ukvm` command will open a `kvm` window for AMI x9 firmware.

Usage: `kvmwx9` (or `ukvm`)

Example Output:

```
kvmwx9                               SIM(X9) KVM console (graphic mode)
```

3.28 vmw

Entering the `vmw` command will list the following `vmw` subcommands (applies only to devices with AMI firmware.) Refer to [Appendix B](#) for more on VM commands.

Usage: `vmw`



Notes:

* This command only works properly in shell mode.

3.28.1 vmw floppy

This command is used to select the floppy image as virtual media.

Usage: **vmw floppy** <image file>

3.28.2 **vmw usbkey**

This command is used to select the USB key as virtual media.

Usage: **vmw usbkey** <drive letter>

3.28.3 **vmw iso**

This command is used to select the ISO file as virtual media.

Usage: **vmw iso** <ISO file>

3.28.4 **vmw cd**

This command is used to select the CD/DVD drive as virtual media.

Usage: **vmw cd** <drive letter>

3.28.5 **vmw stopFloppy**

This command is used to stop the connected floppy.

Usage: **vmw stopFloppy**

3.28.6 **vmw stopUsbkey**

This command is used to stop the connected USB key.

Usage: **vmw stopUsbkey**

3.28.7 **vmw stopISO**

This command is used to stop the connected ISO.

Usage: **vmw stopISO**

3.28.8 **vmw stopCD**

This command is used to stop the connected CD/DVD drive.

Usage: **vmw stopCD**

3.28.9 **vmw status**

This command is used to view the Virtual Media status.

Usage: **vmw status**3.35 sol

3.29 sol

Entering the sol command will list the following SOL subcommands.

3.29.1 sol activate

Use the sol activate command to activate SOL directly in the current text mode. Press the <F12> key to exit.

In order to display the remote text console correctly, the support of ANSI/VT100 terminal control escape sequences is required for the computer terminal or terminal emulator running SMCIPMITool.

Usage: **sol activate**



Note: Command Prompt in Windows doesn't support ANSI/VT100 Terminal Control. If remote text console uses ANSI/VT100 terminal control (i.e., BIOS, Linux text console), please use "sol window" to open a SOL GUI instead.

3.29.2 sol deactivate

Use the sol deactivate command to stop SOL.

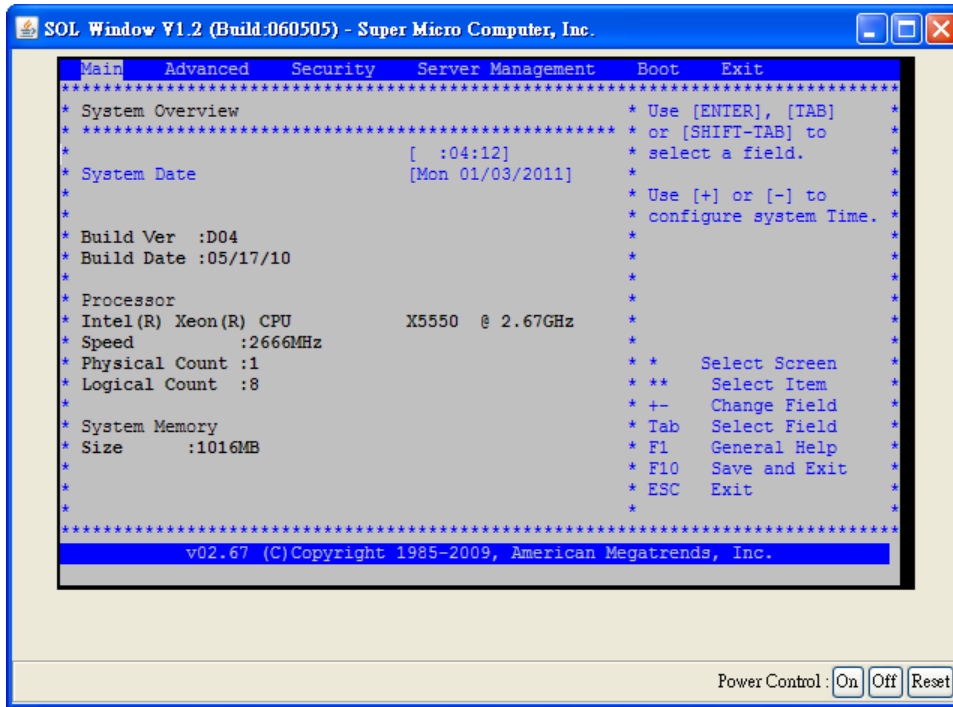
Usage: **sol deactivate**

3.29.3 sol window

Use the sol window command to open a SOL window GUI and activate SOL.

Usage: **sol window**

Example Output:



3.29.4 sol key

Use the sol key command to key map for Linux or Windows.

Usage: `sol key [linux|windows]`

3.29.5 bitrate

Use the sol bitrate command to configure the SOL transmission bit rate.

Usage: `sol bitrate [9.6|19.2|38.4|57.6|115.2]`

3.29.6 retryCount

Use the sol bitrate command to configure the SOL retry counts.

Usage: `sol retryCount [Number]`

3.29.7 retryInterval

Use the sol bitrate command to configure the SOL retry interval. Retry Interval in 10 ms increments. Sets the time that the BMC will wait before the first retry and the time between retries when sending SOL packets to the remote console.

Usage: `sol retryInterval [Interval time]`

3.30 nm20

This command is for Intel Dynamic Power Node Manager V2.0 and specifically used for the testing of motherboards of Supermicro X9 series. Use this command to run tests.

Usage: **nm20**

Example Output:

nmSDR	Display NM SDR
selTime	Get SEL time
deviceID	Get ME Device ID
reset	Reboots ME
reset2Default	Force ME reset to Default
updateMode	Force ME to Update Mode
powerOff	Set ME power state off
selfTest	Get Self Test Results
mode	Get ME running Mode
listImagesInfo	List ME Images information
oemGetPower	OEM Power command for ME
oemGetTemp	OEM Temp. command for ME
globalEnable	Global Enable NM policy control
globalDisable	Global Disable NM policy control
domainEnable <domain ID>	per Domain Enable NM policies
domainDisable <domain ID>	per Domain Disable NM policies
policyEnable <domain ID> <policy ID>	per Policy Enable NM policy
policyDisable <domain ID> <policy ID>	per Policy Disable NM policy
addPowerPolicy <pID> <limit> <t> <p>	Add Power Policy
getPolicy <domain ID> <policy ID>	Get Policy
delPolicy <domain ID> <policy ID>	Delete Policy
scanPolicy	Scan all presented Policies
addPolicy <dID> <pID> <ptt> <agg> <a> <l> <t> <tl> <p>	Add Policy
statistics <mode> <domainID> <policy ID>	NM statistics
resetStatistics <mode> <domain ID> <policy ID>	Reset NM statistics
cap <domain ID> <Trigger Type>	NM Capabilities
ver	NM Version
alert [dest]	NM Alert
pstate [value]	Get/Set Max allowed CPU P-State
tstate [value]	Get/Set Max allowed CPU T-State
ptstate	Show CPU P-State and T-State
cpuCore [cores]	Get/Set max allowed logical processors
totalPower <domainID> [watts]	Get/Set Total Power Budget

3.30.1 nm20 nmSDR

Use this command to display NM SDR.

Usage: **nm20 nmSDR**

Example Output:

Record ID	= 1C 00
SDR Version	= 51h
Record Type	= C0h
Record Length	= 0Bh
OEM ID	= 57 01 00 h
Record Subtype	= 0Dh

```
SubType Version      = 01h
Slave Address       = 2Ch
Channel             = 00h
Health Event Sensor Number      = 1Dh
Exception Event Sensor Number   = 1Eh
Operational Capabilities Sensor Number = 1Fh
Alert Threshold Exceeded Sensor Number = 20h
```

3.30.2 nm20 selTime

Use this command to find out SEL time.

Usage: **nm20 selTime**

Example Output:

```
Device ID           = 50h (Intel Management Engine)
Firmware Version    = 2.1.5.73
IPMI Version        = 2.0
Manufacturer ID     = 57 01 00
product ID Minor Ver = Romley platform
firmware implemented version = NM Revision v2.0
Image Flag = operational image 1
raw = 50 01 02 15 02 21 57 01 00 02 0B 02 07 30 01
```

3.30.3 nm20 deviceID

Use this command to get the ME Device ID.

3.30.4 nm20 reset

Use this command to reboot ME.

3.30.5 nm20 reset2Default

Use this command to force ME to reset to default settings.

3.30.6 nm20 updateMode

Use this command to force ME to enter the Update Mode.

3.30.7 nm20 powerOff

Use this command to set ME to the power-off state. Please note that if the bmc status is S0/S1, users can not turn off ME immediately. It will display "not support in present state" message to remind user. To power off ME, you should turn off the chassis power first.

Usage: **nm20 powerOff**

3.30.8 nm20 selfTest

Use this command to get the Self Test results.

3.30.9 nm20 mode

Use this command to get the ME running mode.

Usage: **nm20 mode**

Example Output:

```
ME is in NORMAL mode
```

3.30.10 nm20 listImagesInfo

Use this command to display the information of ME images.

Usage: **nm20 listImagesInfo**

Example Output:

```
Recovery Image:
Image Type = recovery image
raw = 57 01 00 02 01 02 07 35 00

1st operational Image:
Image Type = operational image 1 (This Image is currently running)
raw = 57 01 00 02 01 02 07 35 05

2nd operational Image:
Image Type = operational image 2
raw = 57 01 00 02 01 02 07 35 02
```

3.30.11 nm20 oemGetPower

Use this command to get power.

Usage: **nm20 oemGetPower**

Example Output:

```
56 watts
```

3.30.12 nm20 oemGetTemp

Use this command to run temporary commands.

Usage: **nm20 oemGetTemp**

Example Output:

```
56 (c)
```

3.30.13 nm20 globalEnable

Use this command for Global Enable NM policy control.

3.30.14 nm20 globalDisable

Use this command for Global Disable NM policy control.

3.30.15 nm20 domainEnable

Use this command for per Domain Enable NM policies.

Usage: **nm20 domainEnable** <domain ID>

3.30.16 nm20 domainDisable

Use this command for per Domain Disable NM policies.

Usage: **nm20 domainDisable** <domain ID>

3.30.17 nm20 policyEnable

Use this command for per Policy Enable NM policy.

Usage: **nm20 policyEnable** <domain ID> <policy ID>

3.30.18 nm20 policyDisable

Use this command for per Policy Disable NM policy.

Usage: **nm20 policyDisable** <domain ID> <policy ID>

3.30.19 nm20 addPowerPolicy

Use this command to add power policy.

Usage: **addPowerPolicy** <pID> <limit> <t> <p>

pID: Policy ID

limit: Policy Target Limit

t: Correction Time Limit (ms)

p: Statistics Reporting Period in seconds

* domainID will be 0 (Entire platform) for this command

ex: nm20 addPowerPolicy 1 100 6000 10

3.30.20 nm20 getPolicy

Use this command to get policy.

Usage: **nm20 getPolicy** <domain ID> <policy ID>

3.30.21 nm20 delPolicy

Use this command to delete policy.

Usage: **nm20 delPolicy** <domain ID> <policy ID>

3.30.22 nm20 scanPolicy

Use this command to scan all presented policies.

Usage: **nm20 scanPolicy**

Example Output:

```
=====
Domain ID = 0 , Policy ID = 0
=====
Values:
Power Limit                = 32767 w
Correction Time limit      = 600000 ms
Statistics Reporting Period = 60 s
Policy Trigger Limit      = 0
Domain ID:
    Entire platform
Policy state:
    Policy(Enabled)  Domain(Enabled)  Global(Enabled)
Policy Trigger Type:
    No Policy Trigger
Aggressive CPU Power correction:
    Backward compatible with NMV1.5
Policy Exception action state:
    Send alert
raw = 57 01 00 70 10 01 FF 7F C0 27 09 00 00 00 3C 00

Total Policies = 1
```

3.30.23 nm20 addPolicy

Use this command to add policy.

Usage: **addPolicy <dID> <pID> <ptt> <agg> <a> <l> <t> <tl> <p>**

dID: Domain ID
0 - Entire platform
1 - CPU subsystem
2 - Memory subsystem
4 - High Power I/O subsystem
pID: Policy ID
ptt: Policy Trigger Type:
0 - No Policy Trigger
1 - Inlet Temperature Limit Policy Trigger in [Celsius]
2 - Missing Power Reading Timeout in 1/10th of second
3 - Time After Host Reset Trigger in 1/10th of second
4 - Boot time policy
agg: Aggressive CPU Power Correction:
0 - Automatic mode (default).
1 - Force non-aggressive mode
2 - Force aggressive mode
a: Policy Exception Actions
1 - send alert
2 - shutdown system
3 - send alert & shutdown system
l: Policy Target Limit
t: Correction Time Limit (ms)
tl: Policy Trigger Limit
p: Statistics Reporting Period in seconds

3.30.24 nm20 statistics

Use this command to display statistics.

Usage: `nm20 statistics <mode> <domainID> <policy ID>`

3.30.25 nm20 resetStatistics

Use this command to reset NM statistics.

Usage: `nm20 resetStatistics <mode> <domain ID> <policy ID>`

3.30.26 nm20 cap

Use this command to view capabilities.

Usage: `nm20 cap <domain ID> <Trigger Type>`

Example Output:

```
Max concurrent settings           = 8
Max Power limit value            = 32767 w
Min Power limit value            = 1 w
Max Correction Time settable      = 600000 ms
Min Correction Time settable      = 6000 ms
Max Statistics Reporting period   = 3600 s
Min Statistics Reporting period   = 1 s
Limiting type                    = platform power limiting
Limiting based on                 = DC power - PSU output power or bladed system
```

3.30.27 nm20 ver

Use this command to show the version.

Usage: `nm20 ver`

Example Output:

```
Node Manager Version = 2.0
Firmware Version     = 2.09
```

3.30.28 nm20 alert

Use this command for NM Alert. Refer to [3.26.10 alert](#) for details.

Usage: `nm20 alert [dest]`

3.30.29 nm20 pstate

Use this command get or set the maximum CPU P-State.

Usage: `nm20 pstate [value]`

Example Output:

```
Current max allowed P-State = 0
Number of P-State = 20
```

3.30.30 nm20 tstate

Use this command get or set the maximum CPU T-State.

Usage: **nm20 tstate [value]**

Example Output:

```
Current max allowed T-State = 0
Number of T-State = 8
```

3.30.31 nm20 ptstate

Use this command to display both the CPU P-State and C-State.

Usage: **nm20 ptstate**

Example Output:

```
P-State : High |# _____ | Low [0/20] (Current/# of State)
T-State : High |# _____ | Low [0/8] (Current/# of State)
```

3.30.32 nm20 cpuCore

Use this command to view or set the maximum allowed logical processors.

Usage: **nm20 cpuCore [cores]**

Example Output:

```
Current Max allowed cores = 8
Number of logical processors on the platform = 8
Number of installed processor packages = 1
Number of logical cores on each processor = 8
```

3.30.33 nm20 cpuMemTemp

Use this command to view the CPU or memory temperature.

Usage: **nm20 cpuMemTemp**

Example Output:

```
CPU#0 = 31(c) (TJmax = 95,DTS = 64)
CPU#1 = 33(c) (TJmax = 95,DTS = 62)
[CPU#0]CHANNEL#0, DIMM#0 (P1_DIMMA1) = 27 (c)
[CPU#0]CHANNEL#1, DIMM#0 (P1_DIMMB1) = 27 (c)
[CPU#0]CHANNEL#2, DIMM#0 (P1_DIMMC1) = 27 (c)
[CPU#0]CHANNEL#3, DIMM#0 (P1_DIMMD1) = 26 (c)
[CPU#1]CHANNEL#0, DIMM#0 (P2_DIMME1) = 26 (c)
[CPU#1]CHANNEL#1, DIMM#0 (P2_DIMMF1) = 26 (c)
[CPU#1]CHANNEL#2, DIMM#0 (P2_DIMMG1) = 26 (c)
[CPU#1]CHANNEL#3, DIMM#0 (P2_DIMMH1) = 26 (c)
```

3.30.34 nm20 hostCpuData

Use this command to display the host CPU data.

Usage: **nm20 hostCpuData**

Example Output:

```
Host CPU data:
End of POST notification was received
Host CPU discovery data is valid
Number of P-States = 16
Number of T-States = 15
Number of installed CPUs/socket = 2
Processor Discovery Data-1 = 26 24 24 22 22 21 21 21
Processor Discovery Data-2 = 00 1D 01 64 00 0C 00 00
```

3.30.35 nm20 totalPower

Use this command to get or set the Total Power Budget.

Usage: **nm20 totalPower <domainID> [watts]**

3.31 nm30

This command is for Intel Dynamic Power Node Manager V3.0 and specifically used for testing Supermicro X10 series motherboards. Use this command to run tests.

Usage: **nm30**

Example Output:

```
 cupsCap           CUPS Capability
 cupsData          CUPS Data
 cupsConfig        CUPS Configuration
 cupsPolicy        CUPS Policies
 cupsCore          Core CUPS Utilization
 cupsIO            IO CUPS Utilization
 cupsMem           Memory CUPS Utilization
```

3.31.1 nm30 cupsCap

Use this command to display CUPS capability.

Usage: **nm30 cupsCap**

Example Output:

```
10.133.176.73 X10DRG-Q (S0/G0,v1.77) 11:28 ASPD_T>nm30 cupsCap
CUPS Capabilities: CUPS feature is enabled
CUPS Policy       : CUPS policies configuration available
CUPS version      : 1
```

3.31.2 nm30 cupsData

Use this command to display CUPS data.

Usage: **nm30 cupsData**

Example Output:

```
10.133.176.73 X10DRG-Q (S0/G0,v1.77) 11:31 ASPD_T>nm30 cupsData
CUPS Index: 17

CUPS Dynamic Load Factors:
  CPU CUPS dynamic Load factor      : 100
  Memory CUPS dynamic Load factor    : 0
  IO CUPS dynamic Load factor        : 0

Base Utilization:
  Base CPU CUPS utilization value     : 41 E5 8E 05 00 00 00 00
  Base Memory CUPS utilization value  : 6B 62 C3 00 00 00 00 00
  Base IO CUPS utilization value      : 00 00 00 00 00 00 00 00

Aggregate utilization values:
  Aggregate CPU CUPS utilization value : 0C 41 9F 13 00 00 00 00
  Aggregate Memory CUPS utilization value : D6 F0 02 00 00 00 00 00
  Aggregate IO CUPS utilization value    : 00 00 00 00 00 00 00 00

Utilization Average:
  Utilization average for the core domain : 17% (11 00 00 00 00 00 00 00 )
  Utilization average for the memory domain : 0% (00 00 00 00 00 00 00 00 )
  Utilization average for the IO domain    : 0% (00 00 00 00 00 00 00 00 )
```

3.31.3 nm30 cupsConfig

Use this command to display CUPS configurations.

Usage: **nm30 cupsConfig**

Example Output:

```
10.133.176.73 X10DRG-Q (S0/G0,v1.77) 11:32 ASPD_T>nm30 cupsConfig
CUPS Feature Enabled Status : CUPS feature is enabled
Load Factor Configuration   : Dynamic
Static Core Load Factor     : 1
Static Memory Load Factor   : 1
Static IO Load Factor       : 1
```

3.31.4 nm30 cupsPolicy

Use this command to display CUPS policy.

Usage: **nm30 cupsPolicy**

Example Output:

```

10.133.176.73 X10DRG-Q (S0/G0,v1.77) 11:33 ASPD_T>nm30 cupsPolicy
CUPS Policy ID      : Core Domain
Target identifier   : BMC
Policy Status       : Policy Enabled
Policy Storage      : Persistent storage
Policy Excursion Actions : Sending of alert enabled
CUPS Threshold      : 0
Averaging Window in sec : 6

CUPS Policy ID      : Memory Domain
Target identifier   : BMC
Policy Status       : Policy Enabled
Policy Storage      : Persistent storage
Policy Excursion Actions : Sending of alert enabled
CUPS Threshold      : 0
Averaging Window in sec : 6

CUPS Policy ID      : IO Domain
Target identifier   : BMC
Policy Status       : Policy Enabled
Policy Storage      : Persistent storage
Policy Excursion Actions : Sending of alert enabled
CUPS Threshold      : 0
Averaging Window in sec : 6

CUPS Policy ID      : Core Domain
Target identifier   : Remote Console
Policy Status       : Policy Enabled
Policy Storage      : Persistent storage
Policy Excursion Actions : Sending of alert enabled
CUPS Threshold      : 0
Averaging Window in sec : 6

CUPS Policy ID      : Memory Domain
Target identifier   : Remote Console
Policy Status       : Policy Enabled
Policy Storage      : Persistent storage
Policy Excursion Actions : Sending of alert enabled
CUPS Threshold      : 0
Averaging Window in sec : 6

CUPS Policy ID      : IO Domain
Target identifier   : Remote Console
Policy Status       : Policy Enabled
Policy Storage      : Persistent storage
Policy Excursion Actions : Sending of alert enabled
CUPS Threshold      : 0
Averaging Window in sec : 6

```

3.31.5 nm30 cupsCore

Use this command to display Core CUPS utilization.

Usage: **nm30 cupsCore**

Example Output:

```

10.133.176.73 X10DRG-Q (S0/G0,v1.77) 11:34 ASPD_T>nm30 cupsCore
Core CUPS = 43

```

3.31.6 nm30 cupsIO

Use this command to display IO CUPS utilization.

Usage: **nm30 cupsIO**

Example Output:

```
10.133.176.73 X10DRG-Q (S0/G0,v1.77) 11:34 ASPD_T>nm30 cupsIO
IO CUPS = 0
```

3.31.7 nm30 cupsMem

Use this command to display memory CUPS utilization.

Usage: **nm30 cupsMem**

Example Output:

```
10.133.176.73 X10DRG-Q (S0/G0,v1.77) 11:35 ASPD_T>nm30 cupsMem
Memory CUPS = 0
```

3.32 hdd

Enter the hdd command to display the physical and logical HDD status . Please note that the command is hardware-dependent.



Notes:

* These set of commands only works with mega RAID 2108,2208 and 3108 devices.

3.32.1 hdd map

Use this command to display the HDD present or error status.

Usage: **hdd map**

Example Output:

```
172.31.11.86 X9DR3-LN4F+ (S0/G0) 17:22 SIM(WA)>hdd map
Device: 0, Enclosure Set: 1
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
-----
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 - -
```

```

Device: 0, Enclosure Set: 2
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
-----
O O - - - - - - - - - - - - - - - - - - - - - -

Device: 0, Enclosure Set: 6
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
-----
O - - - - - - - - - - - - - - - - - - - - - -

O: OK
X: Error
-: Not Present

```

3.32.2 hdd info

Use this command to display HDD information.

Usage: **hdd info** [device id]

device id: option (Default = 0)

Example Output:

```

172.31.11.86 X9DR3-LN4F+ (S0/G0) 17:22 SIM(WA)>hdd info
Device ID: 0

```

Index	Vendor	Name	Ver	Speed	Size	Temp	EID	Status
0	SEAGATE	ST31000424SS	0003	6.0Gb/s	930.4 GB	N/A	4	SYSTEM
1	SEAGATE	ST31000424SS	0003	6.0Gb/s	930.4 GB	N/A	4	SYSTEM
2	SEAGATE	ST32000444SS	0005	6.0Gb/s	1.8 TB	N/A	4	SYSTEM
3	SEAGATE	ST31000424SS	0003	6.0Gb/s	930.4 GB	N/A	4	SYSTEM
4	SEAGATE	ST31000424SS	0003	6.0Gb/s	930.4 GB	N/A	4	SYSTEM
5	SEAGATE	ST31000424SS	0003	6.0Gb/s	930.4 GB	N/A	4	SYSTEM
6	SEAGATE	ST31000424SS	0003	6.0Gb/s	930.4 GB	N/A	4	SYSTEM
7	SEAGATE	ST31000424SS	0003	6.0Gb/s	930.4 GB	N/A	4	SYSTEM
8	SEAGATE	ST3500414SS	0005	6.0Gb/s	464.7 GB	N/A	4	SYSTEM
9	SEAGATE	ST31000424SS	0003	6.0Gb/s	930.4 GB	N/A	4	SYSTEM
10	SEAGATE	ST31000424SS	0003	6.0Gb/s	930.4 GB	N/A	4	SYSTEM
11	SEAGATE	ST31000424SS	0003	6.0Gb/s	930.4 GB	N/A	4	SYSTEM
12	TOSHIBA	MBF2600RC	0108	6.0Gb/s	557.9 GB	32	2	SYSTEM
13	TOSHIBA	MBF2600RC	0108	6.0Gb/s	557.9 GB	31	2	SYSTEM
14	TOSHIBA	MBF2600RC	0108	6.0Gb/s	557.9 GB	31	2	SYSTEM
15	TOSHIBA	MBF2600RC	0108	6.0Gb/s	557.9 GB	32	2	SYSTEM
16	TOSHIBA	MBF2600RC	0108	6.0Gb/s	557.9 GB	32	2	SYSTEM
17	TOSHIBA	MBF2600RC	0108	6.0Gb/s	557.9 GB	31	2	SYSTEM
18	TOSHIBA	MBF2600RC	0108	6.0Gb/s	557.9 GB	31	2	SYSTEM
19	TOSHIBA	MBF2600RC	0107	6.0Gb/s	557.9 GB	31	2	SYSTEM
20	TOSHIBA	MBF2600RC	0108	6.0Gb/s	557.9 GB	31	2	SYSTEM
21	TOSHIBA	MBF2600RC	0107	6.0Gb/s	557.9 GB	32	2	SYSTEM
22	TOSHIBA	MBF2600RC	0107	6.0Gb/s	557.9 GB	31	2	SYSTEM
23	TOSHIBA	MBF2600RC	0108	6.0Gb/s	557.9 GB	32	2	SYSTEM

3.32.3 hdd disk

Use this command to display detailed HDD information by index.

Usage: **hdd disk** <index> [device id]

device id: option (Default = 0)

Example Output:

```
172.31.11.86 X9DR3-LN4F+ (S0/G0) 17:22 SIM(WA)>hdd disk 1
Device ID: 0
Field                | Value
-----|-----
Vendor                | SEAGATE
Name                  | ST31000424SS
revision              | 0003
Media Err Count       | 0
Other Err Count       | 0
Pred Fail Count       | 0
last Pred Fail Seq    | 0
FW state               | Unconfigured good drive
link Speed             | 6.0Gb/s
Coerced Size           | 930.4 GB
Temperature            | N/A
Enclosure ID          | 4
```

```
172.31.11.86 X10DSC+ (S0/G0,750w) 18:28 ASPD_T>hdd disk 0 1
Device ID: 1
Field                | Value
-----|-----
Vendor                | HGST
Name                  | HUH721008AL4200
revision              | A21D
Media Err Count       | 0
Other Err Count       | 0
Pred Fail Count       | 0
last Pred Fail Seq    | 0
FW state               | drive is exposed and controlled by host
link Speed             | 12.0Gb/s
Coerced Size           | 7.3 TB
Temperature            | 31C/ 88F
Enclosure ID          | 1
```

3.32.4 **lmap**

Use this command to display logical HDD present status.

Usage: **hdd lmap**

3.32.5 **linfo**

Use this command to display logical HDD information.

Usage: **hdd linfo**

3.32.6 **ldisk**

Use this command to display the detailed information of logical HDDs by index.

Usage: **hdd ldisk <index>**

3.34.4 **mg default**

Use this command to manage the default group.

Usage: `mg default`

3.34.5 **mg found**

Use this command to manage the found group.

Usage: mg **found**

3.34.6 **mg sort**

Use this command to sort the currently managed devices.

Usage: mg **sort**

3.34.7 **mg clear**

Use this command to clear all currently managed devices.

Usage: mg **clear**

3.34.8 **mg refresh**

Use this command to refresh the managed devices.

Usage: mg **refresh**

3.35 **found**

Use this command to save the found BMC devices and copy them to the default group.

3.35.1 **found list**

Use this command to list the found IPMI devices.

Usage: found **list**

3.35.2 **found clear**

Use this command to clear the found IPMI devices.

Usage: found **clear**

3.35.3 **found copy**

Use this command to copy the found devices to the default managed group.

Usage: found **copy** <index1> [index2] [...]

3.35.4 **found copyall**

Use this command to copy all found devices to the default managed group.

Usage: found **copyall**

3.35.5 found saveAs

Use this command to save the found IPMI devices to a file.

Usage: found **saveAs** <filename>

3.35.6 found refresh

Use this command to refresh the found IPMI devices to a file.

Usage: found **refresh**

3.36 task

Use Task commands to create and perform tasks in the background. Various task commands on multiple server systems can be run at the same time. This function is ideal for long tasks such as updating BIOS or firmware.

Usage: **task**



Notes:

* This command set only works properly in shell mode.

3.36.1 task run

Use this command to execute a command in the background.

Usage: task **run** <IP> <ID> <PW> <Cmd. . .>

Example Output:

```
SIM(WA)>task run 10.133.176.208 ADMIN ADMIN bios update C:\x9drw3.219
Task ID = 1
```

3.36.2 task command

Use this command to display the executed command specified by its task ID.

Usage: task **command** <taskID>

3.36.3 task startTime

Use this command to get the start time of a task.

Usage: task **startTime** <taskID>

3.36.8 task remove

Use this command to remove a task.

Usage: task **remove** <taskID>

3.36.9 task message2file

Use this command to save the task messages to a file.

Usage: task **message2file** <taskID> <file>

3.36.10 task removeAll

Use this command to remove all executed tasks having a state indication of "END".

Usage: task **removeAll**

3.36.11 task getTaskIDs

Use this command to get all task IDs.

Usage: task **getTaskIDs**

3.36.12 task status

Use this command to display the performed task status.

Usage: task **status**

Example Output:

```
SIM(WA)>task status
TaskID | Start Time      | End Time      | Elapse  | Status | Exit | Command
-----|-----|-----|-----|-----|-----|-----
      1 | 03/28 11:51:18 | 03/28 11:51:18 | 00:00:00 | END    | 180 | 10.133.176.208 ADMIN ***** bio
update C:\x9drw3.219
      2 | 03/28 11:52:08 |                | 00:02:05 | RUNNING |      | 10.133.176.209 ADMIN ***** bios
update C:\x9drw3.219
      3 | 03/28 11:54:09 |                | 00:00:04 | RUNNING |      | 10.133.99.70 ADMIN ***** bios
update C:\x9drw3.219
```

3.36.13 task limit

Use this command to limit the number of tasks to be performed at once.

Usage: task **limit** <number>

3.37 tp

Use this command to manage TwinPro MCU information.

Usage: **tp**

Example Output:

```

10.133.176.73 X10DRG-Q (S0/G0,v1.77) 11:51 ASPD_T> tp
Command:tp
Command(s):
info                Get MCU Info
nodeID              Get Node ID
systemName [data]   Get/Set System Name
systemPN            Get System P/N
systemSN            Get System S/N
chassisPN           Get Chassis P/N
chassisSN           Get Chassis S/N
backPlanePN        Get BackPlane P/N
backPlaneSN        Get BackPlane S/N
chassisLocation [data] Get/Set Chassis Location (Hex Value)
bpLocation          Get BackPlane Location (FatTwin only, 1:Right
2:Left)
nodePN              Get NodeP/N
nodeSN              Get NodeS/N
mcuUpdate <filename> Update MCU firmware (Twin Backplane)

```

3.37.1 tp info

Use this command to display MCU information.

Usage: **tp info**

Example Output:

```

Node | Power | IP | Watts | Current | CPU1 | CPU2 | System
----|-----|---|-----|-----|-----|-----|-----
  1 | Active | 10.138.33.131 | 112W | 9.2A | 43C | 39C | 24C
  2 | Active | 10.138.33.132 | 90W | 7.5A | 36C | 35C | 24C

Node | Node P/N | Node S/N
----|-----|-----
  1 | X10DRFR-NT | VM155S028212
  2 | X10DRFR-NT | VM155S028210

onfiguration ID : 2
urrent Node ID : 1
ystem Name : (Empty)
ystem P/N : SYS-F628R3-RC0BPT+
ystem S/N : S188314X5811348
hassis P/N : CSE-F424AS-R1K28BP
hassis S/N : CF424AE19N60085
ackplane P/N : BPN-PDB-F424
ackplane S/N : EB154S008729
hassis Location : FF FF FF FF FF
P Location : Left
CU Version : 1.08
PN Revision : 2.00

```

3.37.2 tp nodeID

Use this command to get the Node ID.

Usage: **tp nodeID**

3.37.3 tp systemName

Use this command to get/set the system name.

Usage: **tp systemName [data]**

3.37.4 **tp systemPN**

Use this command to get the system product number.

Usage: **tp systemPN**

3.37.5 **tp systemSN**

Use this command to get the system serial number.

Usage: **tp systemSN**

3.37.6 **tp chassisPN**

Use this command to get the chassis product number.

Usage: **tp chassisPN**

3.37.7 **tp chassisSN**

Use this command to get the chassis serial number.

Usage: **tp chassisSN**

3.37.8 **tp backPlanePN**

Use this command to get the plane product number.

Usage: **tp backPlanePN**

3.37.9 **tp backPlaneSN**

Use this command to get the plane serial number.

Usage: **tp backPlaneSN**

3.37.10 **tp chassisLocation**

Use this command to get the chassis location value.

Usage: **tp chassisLocation [data]**

3.37.11 **tp bpLocation**

Use this command to get back the plane location. It is FatTwin system only. (1: Right, 2:Left)

Usage: **tp bpLocation**

3.37.12 **tp bpnID**

Use this command to get the BPN ID.

Usage: **tp bpnID**

Usage: **wiso**

Example Output:

```
10.134.15.187 X9DRT-P (S0/G0,76w,v3.32) 13:48 SIM(WA)>wiso
Command:wiso
Command(s):
status                               Status of Virtual Media
mount <...>                           mount ISO file
umount                                umount ISO file
```

3.38.1 **wiso status**

Use this command to display the virtual media status.

Usage: **wiso status**

3.38.2 **wiso mount**

Use this command to mount an ISO file.

Usage: **wiso mount <IP> <path> [username] [password]**

```
IP: IP or domain name of share host
path: path to iso file
username: username of share host (optional)
password: password of share host (optional)
```

```
Ex 1: mount linux.iso
wiso mount 192.168.1.100 /iso/linux.iso
Ex 2: mount linux.iso with username and password
wiso mount 192.168.1.100 /iso/linux.iso admin admin
```

* Use one ISO file at a time. Make sure umount existing ISO before mount new ISO file

* This command is available for X9 and X10 platform with SFT-OOB-LIC node product key

3.38.3 **wiso umount**

Use this command to unmount an ISO file.

Usage: **wiso umount**

3.39 **tas**

3.39.1 **tas info**

This command provides TAS version, status and other information.

Example Output:

72.31.3.105 X10DRH-C (S0/G0,197w) 15:50 ASPD_T>tas info

Item	Value
----	-----
Version	1.4.0
Build data	170502
Protocol version	0x01
Status	Running
TAS start time	2017/05/11 11:19:27
Last Update Time	2017/05/11 15:48:35

3.39.2 **tas pause**

Use this command to pause the TAS service.

Usage: **tas pause**

3.39.3 **tas resume**

Use this command to resume the TAS service.

Usage: **tas resume**

3.39.4 **tas refresh**

Use this command to trigger TAS to recollect data.

Usage: **tas refresh**

3.39.5 **tas clear**

Use this command to clear the collected TAS data in the BMC.

Usage: **tas clear**

3.39.6 **tas period**

Use this command to get or set the TAS update period in seconds (time limit is from 5 to 60 seconds).

Usage:

(to get) **tas period**

(to set) **tas period [sec]**

3.39.7 **tas exec**

Execute a user's specified command by TAS. Users can specify a Windows or Linux executable file that exists in the target OS. TAS executes it as an agent.(No result provided)

Usage: **tas exec <cmd>**

3.40 nvme

This is a NVMe command set which provide nvme information and management

Usage: **nvme**

Example Output:

Command(s) :	
list	NVME Summary
info	PCIe SSD NVME Info
rescan	Rescan all devices by in band
insert <aoc> <group> <slot>	Insert SSD by out of band
locate <HDD Name>	Locate SSD
stopLocate <HDD Name>	Stop Locate SSD
remove <HDD Name>	Remove NVME device
smartData [HDD Name]	NVME SMART Data

3.40.1 nvme list

Use this command to display the nvme summary information, including in band and out of band

Usage: **nvme list**

3.40.2 nvme info

Use this command to display the nvme out of band detail

Usage: **nvme info**

Example Output:

```
10.163.55.95 (S0/G0) 17:56 ASPD_T>nvme info
[AOC Number:0] [Firmware Info:E8 05]
Item | Value
----|-----
Slot | 0
Located | No
Temperature | 34 C
Class Code | 02 08 01
ID | 80 86
Serial Number | CVFT4182001K400GGN
Model Number | INTEL SSDPE2MD400G4
Port0 Max Link Speed | 8.0 GT/s
Port0 Max Link Width | x4
Port1 Max Link Speed | 8.0 GT/s
Port1 Max Link Width | x4
Init Power Requirement | 10 Watts
Max Power Requirement | 25 Watts

Item | Value
----|-----
Slot | 1
Located | No
Temperature | 35 C
Class Code | 02 08 01
ID | 80 86
```

Serial Number		CVFT41820018400GGN
Model Number		INTEL SSDPE2MD400G4
Port0 Max Link Speed		8.0 GT/s
Port0 Max Link Width		x4
Port1 Max Link Speed		8.0 GT/s
Port1 Max Link Width		x4
Init Power Requirement		10 Watts
Max Power Requirement		25 Watts

3.40.3 nvme rescan

This command will rescan all nvme device by rescanning from OS.

Usage: **nvme rescan**

3.40.4 nvme insert

Use this command to insert SSD

Usage: **nvme insert** <aoc> <group> <slot>

3.40.5 nvme locate

Use this command to locate SSD. This command can specify HDD name or slot location

Usage: **nvme locate** <HDD Name>

nvme locate <aoc> <group> <slot>

3.40.6 nvme stopLocate

Use this command to stop locate SSD. This command can specify HDD name or slot location

Usage: **nvme stoplocate** <HDD Name>

nvme stoplocate <aoc> <group> <slot>

3.40.7 nvme remove

Use this command to remove SSD This command can specify HDD name or slot location

Usage: **nvme remove** <HDD name> [option]

option 0: Do eject after remove (Default)

option 1: Do not eject after remove

nvme remove <aoc> <group> <slot>

3.40.8 nvme smartData

Use this command to display the nvme in band detail

Usage: **nvme smartData** <HDD name>

Example Output:

Item	Value
----	-----
Device name	nvme1
Critical warning	0
IB Temp.	28 C
Available spare	100%
Available spare threshold	10%
Percentage used	0%
Data units read (512k bytes)	25,943
Data units written (512k bytes)	1
Host read commands	3,246,438
Host write commands	3
Controller busy time (minutes)	0
Power cycles	79
Power on hours	195
Unsafe shutdowns	3
Media errors	0
Error log entries	0

3.41 nodeKey

This command manages the currently activated node product key.

Usage: **nodekey**

Example Output:
172.31.10.31 B9DRG-E (S0/G0,16w) 14:01 SIMBL(W)>nodekey
Command:nodekey
Command(s):
list List Node Product Key

3.41.1 nodekey list

Use this command to list the node product key.

Usage: **nodekey list**

Example Output:

```
172.31.10.31 X10DRT (S0/G0,17w) 14:13 ASPT>nodekey list
SFT-OOB-LIC activated
```

3.42 rsc

This command allows capturing remote screenshots of a managed system and saving the image file locally. (Available on X9 ,X10 and X11 series ATEN boards). Files in .png and .jpg formats are supported.

Usage: **rsc** [filename.ext]

Example Output:

```
10.134.15.187 X9DRT-P (S0/G0,62w,v3.32) 13:53 SIM(WA)>rsc
Write file "10.134.15.187-20141113-142720.png" done
```



Notes:

- * this command requires a node product key.
 - * This command works on command mode.
-

3.43 rko

This command allows sending series of keyboard action to a managed system. (Available on X9 ,X10 and X11 series ATEN boards). Writing a keyboard script in a file and send by rko command.

Usage: **rko [filepath]**

Please refer following help for keyboard definition.

```
=====
|                               Remote Keyboard Operation Help                               |
=====
Keyboard Operation Parameters List
-----
Alphanumeric Keys : A-Z, a-z, 0-9, Symbols Keys (example: ,./!#%& ... etc)
Modifier Keys    : [Shift], [Ctrl], [Alt], [Win]
Navigation Keys  : [Up], [Down], [Left], [Right], [PageUp], [PageDown],
                  [Home], [End]
Editing Keys     : [Enter], [Backspace], [Insert], [Delete], [Tab], [Space]
Miscellaneous Keys: [PrtSc], [Pause], [Esc], [F1]-[F12]
Macro Key example: [Ctrl+Alt+Delete], [Alt+F4], [Ctrl+v] ... etc
Delay Parameter  : [Delay=?h?m?s], [Delay=?m?s], [Delay=?s]

Keyboard Operation File Sample
-----
[Ctrl+Alt+Delete][Delay=5s]
password[Enter][Delay=10s]
cmd[Enter][Delay=1s]
ipconfig[Enter]
```



Notes:

- * this command requires a node product key.
 - * This command works on command mode.
-

3.44 diag

Diag command sets allow user to run bios diagnostic functions remotely.

Usage: **diag**

Example Output:

```
Command(s) :
start <diag Image>           Start Diagnostics on target system
download <filename>         Download diagnostic result
display <JSON file>         Display diagnostic result from file
```

3.44.1 **diag start**

Usage: **diag start drv <index>**

diag start iso <ISO Image>

There are two methods to run the SMCIPMITool remotely. You can run the tool with either a pen drive or a ISO image. The SMCIPMITool can be run on different platforms, and refer to the commands below to start the SMCIPMITool in shell mode.

With a Pen Drive:

- Download and unzip the file “USBForSuperDiag.zip” from <https://www.supermicro.com/sms>
- Save the file to a pen drive and insert it in the system.
- Type “vmwa dev1list” to locate the pen drive.
- Type “diag start drv <index>” to start the tool.

Example output:

```
10.136.33.151 X10DRU-i+ (S0/G0,115w) 13:55 ASPD_T>vmwa dev1list
2: [F: USB Flash]
3: [C: IDE HD]
4: [D: IDE HD]
10.136.33.151 X10DRU-i+ (S0/G0,117w) 13:55 ASPD_T>diag start drv 2
```

With a ISO Image

- Download and unzip the file “ISOForSuperDiag.zip” from <https://www.supermicro.com/sms> in the system .
- Type “diag start iso <image>” to start the Tool.

The following steps illustrate how this command is executed

1. Virtual Media is started to mount the diagnostics image.
2. The boot option is set to UEFI.
3. The remote system is powered off.
4. About 10 seconds later, the remote system is powered on.
5. The diagnostics tool is started to run the check-up.

-
- SMCIPMITool will monitor the diagnostics . Once it is finished, "done" is shown on the screen of the local system.



Notes:

- * This command only works properly in shell mode.
-

3.44.2 **diag download**

Usage: **diag download <filename>**

The following steps illustrate how this command is executed.

- The command generalFileDownload is executed to download the JSON file.
- The JSON file is saved in the local system.

3.44.3 **diag display**

Usage: **diag display <filename>**

The following steps illustrate how this command is executed.

- The JSON file is retrieved from the local system.
- The JSON file is parsed, and the result is displayed.

To display the specific diagnostic results, you can use the parameters “pass,” “fail” or “info” as filter criteria.

Parameter	Description
pass	Displays the items that have passed the diagnostics.
fail	Displays the items that have failed the diagnostics.
info	Displays the items and their basic information.

Usage Examples:

Diag display <JSON file> pass

Diag display <JSON file> fail

Diag display <JSON file> info

To specify the amount of displaying lines, you can use additional parameter “line” as following:

Parameter	Description
line	Limit display lines. Press any key to scroll pages and ctrl+d to terminate the display console.

Usage Examples:

Diag display <JSON file> line 15

Diag display <JSON file> info line 20

Appendix A Command Categories

Refer to the chart below to determine the command sets supported by the stated configurations.

V: Supported

O: Supported and IPMI FW dependent.

Command Set	Blade w/ CMM	Server w/ ATEN IPMI Firmware	Server w/ AMI IPMI Firmware	Server w/ Peppercon IPMI Firmware	Server w/ ATEN or AMI IPMI FW, ME enabled BIOS and PMBus power supply
Superblade Management	O				
MicroBlade Management	O				
IPMI Management	V	V	V	V	V
KVM and Virtual Media for Peppercon, AMI, ATEN		O	O	O	O
Group Management	V	V	V	V	V
Shell and Command Mode	V	V	V	V	V
Trap Receiver	V	V	V	V	V
Node Management for ME-enabled MB					V
DCMI Management		V	V		V
PMBus Health					V

IPMI Device Discovery	V	V	V	V	V
Script	V	V	V	V	V

Refer to the chart below for the command set categories of the primary commands.

Category	Commands
Superblade Management	superblade
Microblade Management	microblade
IPMI Management	sel, user, ipmi, ver, sol
KVM and Virtual Media for Peppercon, AMI, ATEN	Peppercon: dr, kvm, vm AMI: kvmw, vmw, kvmwx9 ATEN: kvmwa, vmwa, wsiso, rsc, rko
Group Management	host, hostrun
Shell and Command Mode	ch
Trap Receiver	trap
Node Management for ME-enabled MB	nm, nm20, nm30
DCMI Management	dcmi
Power Supply Health	pminfo, psfruInfo, bbp, psbbpinfo
IPMI Device Discovery	find, found
Script	exec, task
Hdd	hdd, nvme
Firmware Update	bios, ipmi flash(w,r,h,a)
Twin MultiNode	tp
Node Product Key	nodekey
Auxiliary	shell, list, mg, sc, prompt, tagloc

Appendix B VM Command Examples

B.1 AMI IPMI Firmware

Available commands:

<code>vmw floppy <image file></code>	Floppy image as virtual media
<code>vmw usbkey <drive letter></code>	USB key as virtual media
<code>vmw iso <ISO file></code>	ISO file as virtual media
<code>vmw cd <drive letter></code>	CD/DVD drive as virtual media
<code>vmw stopFloppy</code>	Stop connected floppy
<code>vmw stopUsbkey</code>	Stop connected USBKey
<code>vmw stopISO</code>	Stop connected ISO
<code>vmw stopCD</code>	Stop connected CD/DVD
<code>vmw status(st)</code>	Virtual Media status

Example of using a floppy image as virtual media:

```
SIMBL(W)>vmw floppy c:\DOS50.img
```

```
Connecting ...Done
```

```
SIMBL(W)>vmw stopFloppy
```

```
Disconnecting ...Done
```

Example of using a USB key as virtual media:

```
SIMBL(W)>vmw usbkey h
```

```
Connecting ...Done
```

```
SIMBL(W)>vmw stopUsbkey
```

```
Disconnecting ...Done
```

Example of using an ISO file as virtual media:

```
SIMBL(W)>vmw iso c:\fdoem.iso
```

```
Connecting ...Done
```

```
SIMBL(W)>vmw stopISO
```

```
Disconnecting ...Done
```

Example of using a CD/DVD drive as virtual media:

```
SIMBL(W)>vmw cd e
```

```
Connecting ...Done
```

```
SIMBL(W)>vmw stopCD
```

```
Disconnecting ...Done
```

Example of displaying the Virtual Media status:

```
SIMBL(W)>vmw status
```

```
IP           : 192.168.12.163
```

```
Target Drive : Virtual Floppy
```

```
Read Bytes   : n/a
```

```
Status       : Not Connected
```

```
Connected to :
```

```
Target Drive : Virtual CD
```

```
Read Bytes   : n/a
```

```
Status       : Not Connected
```

```
Connected to :
```

B.2 ATEN IPMI Firmware

Available commands:

vmwa dev1list	List available devices for virtual device 1
vmwa dev1drv <index>	Mount drive for virtual device 1
vmwa dev1stop	Stop virtual device 1
vmwa dev2list	List available devices for virtual device 2
vmwa dev2cd <index>	Mount CD/DVD for virtual device 2
vmwa dev2iso <filename>	Mount ISO file for virtual device 2
vmwa dev2stop	Stop virtual device 2
vmwa allstatus	Show all VMWA status
vmwa status	Show status
vmwa log	Show log



Notes:

- * Supports two virtual devices (device 1 & device 2)
 - Device 1 will be Hard Disk, USB or floppy
 - Device 2 will be CD,DVD or ISO file
 - * List available devices before mounting virtual media.
-

Examples of using a USB key as virtual media:

SIM(WA)>vmwa dev1list

```
2: [H: USB Flash]
3: [G: USB HD]
4: [I: USB HD]
5: [C: IDE HD]
6: [D: IDE HD]
```

SIM(WA)>vmwa dev1drv 2

```
Mounting H: USB Flash
Device 1 :VM Plug-In OK!!
```

SIM(WA)>vmwa dev1stop

```
done
```

Examples of using a CD-ROM as virtual media:

SIM(WA)>vmwa dev2list

```
2: [E: IDE CDROM]
3: [F: SCSI CDROM]
```

SIM(WA)>vmwa dev2cd 2

```
Mounting E: IDE CDROM
Device 2 :VM Plug-In OK!!
SIM(WA)>vmwa dev2stop
Done
```

Examples of using an ISO image file as virtual media:

SIM(WA)>vmwa dev2iso c:\fdoem.iso

```
Mounting ISO file: c:\fdoem.iso
Device 2 :VM Plug-In OK!!
```

SIM(WA)>vmwa dev2stop

```
Done
```

Examples of showing all VMWA status and log:

SIM(WA)>vmwa allstatus

```
[192.168.12.151]:
Device 1: H: USB Flash
Device 2: None
```

SIM(WA)>vmwa status

```
Device 1: None
Device 2: ISO File [c:\fdoem.iso]
```

SIM(WA)>vmwa log

```
Device 1 :Don't access file on Local storage device
Device 1 :VM Plug-In OK!!
Device 1 :VM Plug-Out OK!! Stop!!
Device 2 :VM Plug-In OK!!
Device 2 :VM Plug-Out OK!! Stop!!
Device 2 :VM Plug-In OK!!
```

B.3 Peppercon IPMI Firmware

Available commands for ISO / drive redirection:

```
dr list                               List available local drive
dr iso <drive ID> <path to iso file>   Set ISO redirection
dr drv <drive ID> <drive Letter> [write ? enable] Set drive redirection
```

Example of using an ISO image redirection:

```
SIMBL>dr iso 1 c:\fdoem.iso
```

```
Connecting Drive Redirection to 192.168.12.123
MSP: trying connection to 192.168.12.123:443
MSP: connected successfully to 192.168.12.123:443
Done
```



Note: ISO redirection will stop once you quit the shell mode.

Examples of using drive redirection:

```
SIMBL>dr list
```

```
A: (Removable)
C: (Hard Disk)
D: (Hard Disk)
E: (CD-ROM)
F: (CD-ROM)
G: (Hard Disk)
I: (Hard Disk)
```

```
SIMBL>dr drv 1 G
```

```
Connecting Drive Redirection to 192.168.12.123
MSP: trying connection to 192.168.12.123:443
MSP: connected successfully to 192.168.12.123:443
Done
```



Note: The drive redirection will stop once you quit shell mode.

Available commands for virtual media:

vm status(st)	Virtual media status
vm stop	Stop virtual media
vm floppy	Upload a floppy image as virtual media
vm iso	Virtual media via windows share

Examples of using a floppy image and an ISO image as virtual media:

SIMBL>vm floppy 1 c:\dos50.img

Uploading floppy

.....
.....

Done

SIMBL>vm iso 2 192.168.12.158 blade /ISO/XPE.iso

Done

SIMBL>vm status

Drive 1

Device Status = Internal image set

Image Size = 1474560 (bytes)

Access Mode = Writable

Image source = dos50.img

Drive 2

Device Status = CD-ROM image on Windows share set

Image Size = 89565184 (bytes)

Access Mode = Read-Only

Image source = //192.168.12.158/blade//ISO/XPE.iso

Appendix C Trap Receiver

Available commands:

trap start	Start trap receiver
trap stop	Stop trap receiver
trap status(st)	Trap receiver status
trap list	List the received traps
trap clear	Clear the received traps
trap save	Save the received traps to file
trap savepet	Save as the IPMIView TrapReceiver PET format

Examples of using Trap Receiver:

SIM(WA)>ipmi lan snmp

Seq	IP	MAC
---	--	---
1	192.168.12.174	00:00:00:00:00:00
2	0.0.0.0	00:00:00:00:00:00
3	0.0.0.0	00:00:00:00:00:00
4	0.0.0.0	00:00:00:00:00:00
5	0.0.0.0	00:00:00:00:00:00
6	0.0.0.0	00:00:00:00:00:00
7	0.0.0.0	00:00:00:00:00:00
8	0.0.0.0	00:00:00:00:00:00
9	0.0.0.0	00:00:00:00:00:00
10	0.0.0.0	00:00:00:00:00:00
11	0.0.0.0	00:00:00:00:00:00
12	0.0.0.0	00:00:00:00:00:00
13	0.0.0.0	00:00:00:00:00:00
14	0.0.0.0	00:00:00:00:00:00
15	0.0.0.0	00:00:00:00:00:00

SIM(WA)>trap status

Trap Receiver status: Stopped
Trap Received : 0

SIM(WA)>trap start

Trap Receiver Started
(Trap receiver is started by default. See SMCIPMITool.properties)

(If the trap receiver gets an SNMP trap, a notice will be displayed.)

SIM(WA) [!Trap(1)]>Info: Use "trap" command for detail.

SIM(WA) [!Trap(1)]>trap list

Trap (1)
Sender = 192.168.12.151
Community = public
Sensor = FAN 3
Local Time Stamp = 2011/01/03 00:25:32 Mon
Description :
Event Dir : De-assertion
Lower Non-recoverable - going low

SIM(WA) [!Trap(1)]>trap save snmp.txt

"snmp.txt" file saved

SIM(WA) [!Trap(1)]>trap savepet snmp.pet

"snmp.pet" file saved

SIM(WA) [!Trap(1)]>trap clear

Trap cleared

SIM(WA)>trap stop

Trap Receiver stopped

SIM(WA)>trap status

Trap Receiver status: Stopped

Trap Received : 0

Appendix D Node Product Key Functions

The node product key, including SFT-OOB-LIC, SFT-SUM-LIC and SFT-DCMS-Single, is used with the following commands:

- bios update
- bios ver
- wsiso mount
- wsiso status
- wsiso umount
- rsc
- rko
- x10cfg commands

Appendix E Exit Codes

All exit codes are listed below.

STATUS_UNDEFINED	144
STATUS_DONE	0
STATUS_CONNECT_FAILED	145
STATUS_LOGIN_FAILED	146
STATUS_EXECUTE_PARAMETER_VALIDATE_FAILED	147
STATUS_EXECUTE_EXCEPTION_OCCURRED	148
STATUS_EXECUTE_FAILED	149
STATUS_EXECUTE_ON_SLAVE_CMM_OR_UNAVAILABLE	150
STATUS_EXECUTE_MODULE_NOT_PRESENT	151
STATUS_EXECUTE_ONLY_FOR_CMM_CONNECTED	152
STATUS_EXECUTE_NOT_SUPPORTED_DEVICE	153
STATUS_COMMAND_NOT_FOUND	180
STATUS_COMMAND_IP_FORMAT_ERROR	181
STATUS_COMMAND_PARAMETER_LENGTH_INVALID	182
STATUS_RESULT_NOT_ENOUGH_POWER	215

Appendix F Software compability matrix

Model	version
A1SA2-2750F	V2.14.0
A1SA7-2550F	V2.14.0
A1SA7-2750F	V2.14.0
A1SAI-2550F	V2.14.0
A1SAI-2750F	V2.14.0
A1SAM-2550F	V2.14.0
A1SAM-2750F	V2.14.0
A1SRI-2558F	V2.14.0
A1SRI-2758F	V2.14.0
A1SRM-2558F	V2.14.0
A1SRM-2758F	V2.14.0
A1SRM-LN5F-2358	V2.14.0
A1SRM-LN7F-2358	V2.14.0
A1SRM-LN7F-2758	V2.14.0
B10DRC	V2.14.0 (SuperCMM)
B10DRI	V2.14.0 (SuperCMM)
B10DRT-IBF	V2.14.0 (SuperCMM)
B10DRT-IBF2	V2.14.0 (SuperCMM)
B10DRT-TP	V2.14.0 (SuperCMM)
B1DRI	V2.14.0 (MicroCMM)
B1SA4-2550F	V2.14.0 (MicroCMM)
B1SA4-2750F	V2.14.0 (MicroCMM)
B1SA4-F	V2.14.0 (MicroCMM)
B1SL1-F	V2.14.0 (MicroCMM)
B9DR7	V2.13.0 (SuperCMM)
B9DRG	V2.13.0 (SuperCMM)
B9DRG-3M	V2.13.0 (SuperCMM)
B9DRG-E	V2.13.0 (SuperCMM)
B9DRI	V2.13.0 (SuperCMM)
B9DRP	V2.13.0 (SuperCMM)
B9DRT	V2.13.0 (SuperCMM)
B9QR7	V2.13.0 (SuperCMM)
B9QR7-TP	V2.13.0 (SuperCMM)
C7X99-OCE-F	V2.14.0
C7Z97-M	V2.14.0
C7Z97-MF	V2.14.0

X10DBT-T	V2.14.0
X10DDW-I	V2.14.0
X10DDW-I3	V2.14.0
X10DDW-IN	V2.14.0
X10DGQ	V2.14.0
X10DRC-LN4+	V2.14.0
X10DRC-T4+	V2.14.0
X10DRD-I	V2.14.0
X10DRD-INT	V2.14.0
X10DRD-INTP	V2.14.0
X10DRD-IT	V2.14.0
X10DRD-ITP	V2.14.0
X10DRD-L	V2.14.0
X10DRD-LT	V2.14.0
X10DRD-LTP	V2.14.0
X10DRFF	V2.14.0
X10DRFF-C	V2.14.0
X10DRFR	V2.14.0
X10DRFR-N	V2.14.0
X10DRFR-NT	V2.14.0
X10DRFR-T	V2.14.0
X10DRG-H	V2.14.0
X10DRG-HT	V2.14.0
X10DRG-O+-CPU	V2.14.0
X10DRG-OT+-CPU	V2.14.0
X10DRG-Q	V2.14.0
X10DRH-C	V2.14.0
X10DRH-CT	V2.14.0
X10DRH-I	V2.14.0
X10DRH-IT	V2.14.0
X10DRI	V2.14.0
X10DRI-LN4+	V2.14.0
X10DRI-T	V2.14.0
X10DRI-T4+	V2.14.0
X10DRL-C	V2.14.0
X10DRL-CT	V2.14.0
X10DRL-I	V2.14.0
X10DRL-IT	V2.14.0
X10DRS	V2.14.0
X10DRT-H	V2.14.0
X10DRT-HIBF	V2.14.0
X10DRT-L	V2.14.0
X10DRT-LIBF	V2.14.0
X10DRT-LIBQ	V2.14.0

X10DRT-P	V2.14.0
X10DRT-PIBF	V2.14.0
X10DRT-PIBQ	V2.14.0
X10DRT-PT	V2.14.0
X10DRU-I+	V2.14.0
X10DRU-X	V2.14.0
X10DRU-XLL	V2.14.0
X10DRW-E	V2.14.0
X10DRW-ET	V2.14.0
X10DRW-I	V2.14.0
X10DRW-IT	V2.14.0
X10DRW-N	V2.14.0
X10DRW-NT	V2.14.0
X10DRX	V2.14.0
X10QBI	V2.14.0
X10SDV-4C-TLN2F	V2.14.0
X10SDV-8C+-LN2F	V2.14.0
X10SDV-8C-TLN4F	V2.14.0
X10SDV-F	V2.14.0
X10SDV-TLN4F	V2.14.0
X10SL7-F	V2.14.0
X10SLA-F	V2.14.0
X10SLD-F	V2.14.0
X10SLD-HF	V2.14.0
X10SLE-DF	V2.14.0
X10SLE-F	V2.14.0
X10SLE-HF	V2.14.0
X10SLH-F	V2.14.0
X10SLL+-F	V2.14.0
X10SLL-F	V2.14.0
X10SLL-S	V2.14.0
X10SLL-SF	V2.14.0
X10SLL-SF	V2.14.0
X10SLM+-F	V2.14.0
X10SLM+-LN4F	V2.14.0
X10SLM-F	V2.14.0
X10SLQ-L	V2.14.0
X10SLV-Q	V2.14.0
X10SRA-F	V2.14.0
X10SRD-F	V2.14.0
X10SRG-F	V2.14.0
X10SRH-CF	V2.14.0
X10SRH-CLN4F	V2.14.0
X10SRI-F	V2.14.0

X10SRL-F	V2.14.0
X10SRW-F	V2.14.0
X11SAE-F	V2.14.0
X11SAT-F	V2.14.0
X11SBA-F	V2.14.0
X11SBA-LN4F	V2.14.0
X11SSA-F	V2.14.0
X11SSH-F	V2.14.0
X11SSH-LN4F	V2.14.0
X11SSH-TF	V2.14.0
X11SSI-LN4F	V2.14.0
X11SSL-CF	V2.14.0
X11SSL-F	V2.14.0
X11SSL-F	V2.14.0
X11SSL-NF	V2.14.0
X11SSM-F	V2.14.0
X11SSW-F	V2.14.0
X11SSZ-F	V2.14.0
X11SSZ-QF	V2.14.0
X11SSZ-TLN4F	V2.14.0
X9DAX-7F	V2.13.0
X9DAX-7F-HFT	V2.13.0
X9DAX-7TF	V2.13.0
X9DAX-IF	V2.13.0
X9DAX-IF-HFT	V2.13.0
X9DAX-ITF	V2.13.0
X9DB3-F	V2.13.0
X9DB3-TPF	V2.13.0
X9DBI-F	V2.13.0
X9DBI-TPF	V2.13.0
X9DBL-3F	V2.13.0
X9DBL-IF	V2.13.0
X9DBS-F	V2.13.0
X9DBS-F-2U	V2.13.0
X9DBU-3F	V2.13.0
X9DBU-IF	V2.13.0
X9DR3-F	V2.13.0
X9DR3-LN4F+	V2.13.0
X9DR7-JLN4F	V2.13.0
X9DR7-LN4F	V2.13.0
X9DR7-LN4F-JBOD	V2.13.0
X9DR7-TF+	V2.13.0
X9DRD-7JLN4F	V2.13.0
X9DRD-7LN4F	V2.13.0

X9DRD-7LN4F-JBOD	V2.13.0
X9DRD-7LN4F-SSG	V2.13.0
X9DRD-CNT+	V2.13.0
X9DRD-CT+	V2.13.0
X9DRD-CT+	V2.13.0
X9DRD-EF	V2.13.0
X9DRD-IF	V2.13.0
X9DRD-IT+	V2.13.0
X9DRD-IT+	V2.13.0
X9DRD-LF	V2.13.0
X9DRE-LN4F	V2.13.0
X9DRE-TF+	V2.13.0
X9DRFF	V2.13.0
X9DRFF-7	V2.13.0
X9DRFF-7	V2.13.0
X9DRFF-7+	V2.13.0
X9DRFF-7G+	V2.13.0
X9DRFF-7T+	V2.13.0
X9DRFF-7TG+	V2.13.0
X9DRFF-I+	V2.13.0
X9DRFF-IG+	V2.13.0
X9DRFF-IT+	V2.13.0
X9DRFF-ITG+	V2.13.0
X9DRFR	V2.13.0
X9DRG-HF	V2.13.0
X9DRG-HF+	V2.13.0
X9DRG-HF+II	V2.13.0
X9DRG-HF-CLG	V2.13.0
X9DRG-HTF	V2.13.0
X9DRG-HTF+	V2.13.0
X9DRG-HTF+II	V2.13.0
X9DRG-OF-CPU	V2.13.0
X9DRG-O-PCIE	V2.13.0
X9DRG-OTF-CPU	V2.13.0
X9DRG-QF	V2.13.0
X9DRH-7F	V2.13.0
X9DRH-7TF	V2.13.0
X9DRH-IF	V2.13.0
X9DRH-IF-NV	V2.13.0
X9DRH-ITF	V2.13.0
X9DRI-F	V2.13.0
X9DRI-LN4F+	V2.13.0
X9DRL-3F	V2.13.0
X9DRL-7F	V2.13.0

X9DRL-EF	V2.13.0
X9DRL-IF	V2.13.0
X9DRT-F	V2.13.0
X9DRT-H6F	V2.13.0
X9DRT-H6IBFF	V2.13.0
X9DRT-H6IBQF	V2.13.0
X9DRT-HF	V2.13.0
X9DRT-HF+	V2.13.0
X9DRT-HIBFF	V2.13.0
X9DRT-HIBQF	V2.13.0
X9DRT-IBFF	V2.13.0
X9DRT-IBQF	V2.13.0
X9DRT-P	V2.13.0
X9DRW-3F	V2.13.0
X9DRW-3LN4F+	V2.13.0
X9DRW-3TF+	V2.13.0
X9DRW-7TPF	V2.13.0
X9DRW-7TPF+	V2.13.0
X9DRW-CF31	V2.13.0
X9DRW-CTF31	V2.13.0
X9DRW-ITPF	V2.13.0
X9DRW-ITPF+	V2.13.0
X9DRX+-F	V2.13.0
X9QR7-TF	V2.13.0
X9QR7-TF+	V2.13.0
X9QR7-TF-JBOD	V2.13.0
X9QRI-F	V2.13.0
X9QRI-F+	V2.13.0
X9SBAA-F	V2.13.0
X9SCA	V2.13.0
X9SCD+-F	V2.13.0
X9SCE-F	V2.13.0
X9SCFF-F	V2.13.0
X9SCL+-F	V2.13.0
X9SCM-IIF	V2.13.0
X9SPU-F	V2.13.0
X9SPV-F	V2.13.0
X9SRD-F	V2.13.0
X9SRE-3F	V2.13.0
X9SRE-F	V2.13.0
X9SRG-F	V2.13.0
X9SRH-7F	V2.13.0
X9SRH-7TF	V2.13.0
X9SRI-3F	V2.13.0

X9SRI-F	V2.13.0
X9SRL-F	V2.13.0
X9SRW-F	V2.13.0

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