



cpview	Generally same as maintrain (show only local SGM)	Configuration and policy	
asg stat [-v]	Security Group status overview (Whole SG)	cpha blade config pull config all <SyncIP>	Pull config from another SGM
asg monitor [-v]	Monitor system status	cpha_blade_config full_sync <SyncIP>	Fix Synchronization pnote
asg resource [-v]	SGM resource use (Disk space, RAM, etc)	>set smo image auto-clone state on	Enable image auto-clone
asg_info - [ f   q   all   c   I   m   a   -user conf   d   h   v   u   uk   e   -list ]	System info collection such cpinfo fo scalable plataforms default located on /var/log/	Turn this off after using. Do not leave image auto-clone running indefinitely	
asg if	System interface info	> show smo image md5sum	Show current image md5sum
asg_bond	System bonding information	asg_policy unload (BE VERY CAREFUL)	Unload policy for all SGMs
asg_route	Routing table information and revision for inconsistencies	asg_policy verify [ -v ]	View installed policy for each SGM
asg perf [ -v -a -p -k]	Monitor system performance	asg alert	Configure Chassis Alerts (SNMP/SMS)
asg_cores_util	Show CPU utilization on all active members	g update conf file <file name> <var>=<value>	Set kernel parameter for all members
drop_monitor	Monitor for dropped packets in real-time (replace asg drop_monitor)	g_all fw ctl set -f int <var>=<value>	Set parameter on the fly and add the entry on fwkern.conf
asg_arp [-v]	Show ARP table per SGMasg_drop_monitor	asg_cores_stats	Affinity config info for all members
asg_serial_info	Show serial numbers	asg stat -i all_sync_ips	Get a list of all sync IP on SG
cat /etc/shmm.cfg   grep CHASSID	Check CMM ID	g_cat /etc/xfer_file_list	File with related configuration
		asg_blade_config get_smo_ip	Get the IP of the Sync interface on the SMO
		Asg_clear_table -b SGM_ID	Delete connection table on SGM
ccp_analyzer	Used to process CCP traffic (-h for usage)	<b>Chassis/SGM Control</b>	
g_cpmq	Check / Set Multi-Queue Configuration Globally	asg stat -i tasks	Used to identify the SMO and more
interface_verify -v	Look for RX and TX drops on interfaces	asg stat -I sgm_info	Displays configured SGMs tasks and information
asg_provision	Review buid and hotfix matching in Whole Security Group	set chassis id <id> admin-state <up down>	Administratively down/up a chassis
core_dump_verifier -v	Review if core dump exist	g_clusterXL_admin -b <SGM_IDs> <up down>	Administratively down/up an SGM
		g_reboot -b <Blade>	Reboot SGM(s) #g_reboot -b chassis1 #g_reboot -b 1_01,1_3,1_5
		asg_hw_monitor	Chassis Only
		set chassis high-availability mode <0-3>	Set chassis HA mode
		set chassis high-availability factors <x>	See admin guide for additional syntax
		set chassis id [1 2] general unique_ip {IP}	Configure UIPC
		[add delete] smo security-group <SGM_IDs>	Modify the current Security Group
		show smo security-group	Show the current Security Group

		asg_mac_resolver	Check to make sure all types of mac are correct (BMAC, VMAC and SMAC)
		smo security-group sgm-weight id {default   0-512}	Display/configure weight per SGM into SG
		set smo security-group sgm-weight apply	Apply configuration for sgm-weight
		set config-lock on override	Protect the Gaia gSlich database
		fw ctl iflist	List all interface on security group using gClish
		fw dbgfile collect -f <Debug Output File> [-buf <Buffer Size>] [-m <Debug Module 1> <Debug Flags 1> [-m <Debug Module 2> <Debug Flags 2>] ... [-m <Debug Module N> <Debug Flags N>]]  Sample: fw dbgfile collect -f <Debug Output File> [-buf <Buffer Size>] [-m <Debug Module 1> <Debug Flags 1> [-m <Debug Module 2> <Debug Flags 2>] ... [-m <Debug Module N> <Debug Flags N>]]	how the Security Group inspect traffic using gclish
		asg_config	Show/save the current configuration on security group.
<b>Distribution Mode Commands</b>		<b>Orchestrator Commands</b>	
dxl stat [-v]	Show distribution perctages	rule_hits all	Distribution rule hits
{set /show } distribution configuration [auto-topology   manually-general]	Display / Change distribution mode	sx_api_ports_dump.py	Ports status (up/down, speed, more)
dxl cal <src><dst><interface>	Calculate the distribution decision Need both direction for correction	orch_stat -p	same as sx_api_ports_dump.py with highlights
{set / show} distribution l4-mode [enable   disabled]	Display / Change L4 mode (must be disabled for all deployments)	sx_api_lag_dump.py	BPETH Bonds status Lagged
dxl dist	Show all interfaces and distribution modes	orch_stat	BPETH Bonds status Lagged
<b>Packet Captures and Troubleshooting</b>		lldpctl	LLDP peers (GW, other MHO)
asg search -v	Search SGM for a specific connection	orch_stat -d	Display information about MHO configuration SiteID, MHOID, more
g_fw ctl zdebug drop	zdebug drop across all UP SGMs	orchd restart	Restart services on Orchestrator
g_fw ctl zdebug -m cluster + correction	Correction debug across all UP SGMs	orchd activate	By default uplink ports are admin down
asg log <audit smd ports> {-b <SGM_IDs>}	View logs from all SGMs	m <SG_ID> <SGM_ID> Example: # m 1 3	Navigate to any SG, SGM from MHO Connect to Security Group 1, SGM3
asg_conns [-b <SGM_IDs>]	Show connections per SGM		
g_tcpdump -ni host <src> and host <destination>	Search SGM for specific connection, TCPDUMP might increase load traffic use CPPCAP sk141412	{show/set } maestro configuration orchestrator-amount	Display / Configure orchestrator amount per site
		{show/set } maestro configuration orchestrator-site-amount	Display / Configure site amount
<b>VSX specific Commands</b>		{show/set } maestro configuration orchestrator-site-id	Display / Configure Site ID

asg_collect_vsx_logs	Collect system-wide VSX-specific logs	{show/set } maestro configuration orchestrators base-vlan	Display / Configure Orchestrator related vlan configuration
asg if vsx_topology	Show VSX-specific topology info	{show/set } maestro configuration orchestrator-member-id	Display / Configure Orchestrator ID
asg_span_port	Span port (bridge mode VS only)	{show/set } maestro lsp [configuration   history status ]	Display / Configure Link State Propagation
asg stat vs {run in vs context too}	info, problems, and SGM states	{show/set } maestro configuration-site-vlan	Display / Configure VLAN ID over site sync
vsx stat -v	Show Virtual Systems info	{show/set } maestro configuration security-appliances inter-site [base-vlan   vlan]	Display / Configure vlan ID for communication inter-sites
set chassis high-availability mode ...	Change HA mode (VSLS is mode 3)	{show/set } maestro port [admin-state   auto-negotiation   mtu   optic-info   qfsp-mode  type  vlans	Display / Configure specific port (in order to change one port type like uplink to mgmt, that port must be unassigned to security group.
vs_all <command>	Run command on each VS	{show/set } maestro security-group [id   verify-new-configuration]	Verifies the new configuration in this Security Group that was not applied yet
		tor_util set_qsfp_auto_config off	In case of 40Gb splitter. Split is off by default, require restart orch services sk169372
		show maestro security-group verify-new-config	Display all changes before to be submitted
		set maestro security-group apply-new-config	Apply new configuration to all security groups
<b>VSLS specific commands</b>		<b>SGM Commands</b>	
show configuration vsls	show vsls configuration		
set chassis vsls default mode	per VS primay chassis override	lldpneighbors	List discovered devices by Link Layer Discovery Protocol [use on SGM]
fwha_mbs_vsls_chassis_sgm_ratio	Kernel param - SGM ratio for chassis failover	smo_rest_util Examples: smo_rest_util -c show-ports-link-state -i ssm2 smo_rest_util -c show-connectivity-test -i ssm[1 2]	Use the SMO REST utility
asg stat vs all	Show active chassis and config on each VS	{show/set } smo security-group site-amount	If Dual site is configured on the MHO is must also be configured on the gateway.
		g_reboot -b <ID>	Reboot specific SGM
<b>Multiple Security Groups (MSG) – For Chassis only, not Maestro</b>		g_reboot -a	Reboot all SGM including DOWN
\$FWDIR/log/cpha_policy.log	Contains important MSG messages	<b>Image Management</b>	
fw ctl zdebug -m cluster + multi_sg	debug flag for MSG flows	show snapshots	List current snapshots (gclish)
cphaprob multi_sg list_active_sync_ips	Show all MSG members	[add   delete] snapshot <name>	Local clish is recommended
sgrm probe	Show IP of current SGRM	watch -d "g_all dbget snap:show:progress"	View snapshot import progress
\$FWDIR/log/blade_config	Contains important boot information	set snapshot export <name> path <paht>	Export snapshot to defined path
show smo multiple-security-groups overview [ interfaces   ssm-conf   system ]	Show MSG related configurations		