

## Cisco IronPort ESA CLI Reference Card

release 20160226, by Jens Roesen

## Default user & password, batch command mode and contacts

The default username is **admin** and it's password is **ironport**. The default IP is 192.168.42.42 on Data1 on C1X0 appliances and Management Interface on all others. For access through serial console use 9600/8-N-1 with hardware flow control.

Send undetected spam to spam@access.ironport.com, false positives to ham@access.ironport.com, missed ads to ads@access.ironport.com and false positive ads to not\_ads@access.ironport.com. Send each as RFC822 MIME encoded attachment. See Knowledge Base article 472.

Basic commands	
help command or h command	View online help for command.
who	Show a list of currently logged in users.
whoami	Show name and groups for current user.
date	View current date and time.
passwd	Change password for the current user.
last	Show list of recently logged in users and session dates.
clear or clearchanges	Abandon all pending configuration changes.
commit	Commit pending configuration changes.
clustermode	Switch between machine, cluster and group mode.
shutdown	Shut down and power-off the appliance.
reboot	Reboot the appliance.
exit or quit or q	Exit CLI. Will warn you about uncommitted changes.

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Infos and status		ı
credits	Show the credits for this AsyncOS version.	]
version	Show brief hardware and software information.	11
ipcheck	Show extended hardware and software information.	11
status detail	View detailed system status.	1
healthcheck	Analyse collected data to determine the health of the appliance.	1
commitdetail	View details about the last commit in the active session.	
showchanges	View pending config changes as nested tree structure.	]
antispamstatus	Show status and latest update for enabled anti-spam engines.	
antivirusstatus	Show status and latest update for active antivirus engines.	
websecuritydiagnostics	View Web Security Service/URL Filtering statistics and errors.	
contentscannerstatus	View content scanner engine version and latest update.	
repengstatus	Show version and latest updates for SBRS engines.	
outbreakstatus	Show status and last update of Virus Outbreak Filters.	]
sbstatus	Show SenderBase status.	]
encryptionstatus	Show PXE engine status and last engine update.	1
dlpstatus	Show status of RSA DLP engine.	1
ecstatus	Show enrollment client version info.	1
showlicense	Display virtual appliance license information.	1
graymailstatus	Display Graymail version information.	1
workqueue status	Display current work queue status.	1
workqueue rate n	Display number of pending, incoming and outgoing mails in the queue and refresh every <i>n</i> seconds.	
topin	View top hosts by number of incoming connections.	
destqueue status dom	Display destination-queue statistics for the domain dom.	]
rate n	Display in/out connections and recipient statistics every <i>n</i> sec.	]
hostrate domain n	Similar to rate but limited to a single destination domain.	
hoststatus domain	View domain statistics including MX settings and latest 5xx error.	
tophosts	View the top 20 destination domains in the mail queue.	
featurekey	View, activate and check for new feature keys.	
dnsstatus	Show DNS statistics since counter reset / last reboot / ever.	
displayalerts n	Display the last <i>n</i> alerts sent by the appliance.	1
supportrequeststatus	Show version and last update of the support request keywords.	1

Test network and o	onfic	ruration .
ping Or ping6	_	network by sending a IPv4/IPv6 ping to a remote host.
traceroute or View traceroute6		v IPv4/IPv6 network path/routing to a remote host.
		et to a remote host. Defaults to port 25, not 23!
dig	_	DNS queries. Supports batch mode.
nslookup	+	DNS queries.
packetcapture	_	t a packet capture in AsyncOS versions up from 7.2.
tcpdump	_	t a packet capture in AsyncOS versions up to 7.1.
tcpservices	_	olay information about running TCP/IP services.
netstat	Disp	lay current network connections, network statistics, interface status, n queue size or routing table.
trace	_	e the mail flow through the system with a virtual test mail.
ldaptest	_	an LDAP query against a configured LDAP server.
ldapflush	_	ir all cached LDAP query results.
dnslisttest	-	nually test an IP against a DNS-based blacklist.
dnsflush	_	h DNS cache.
tlsverify	+	and verify a TLS connection to a remote MTA.
•		and territy a real connection to a remote with.
General configurat		0. 11. 11. 11.
systemsetup		Run the system setup wizard. This will remove any existing listener and associated HAT configuration.
loadlicense		Paste a virtual appliance XML license into CLI or load one from file.
userconfig		View and manage users and external authentication.
adminaccessconf		Configure banner, restrict access on IP basis, configure XSS and CSRF protection and CLI/Web UI timeouts.
interfaceconfig	;	Add, delete and edit IP interface settings (IPv4 and IPv6).
etherconfig		Configure ethernet settings (speed/duplex mode, VLANs , NIC pairing)
diskquotaconfig		Configure disk space quotas for several services.
healthconfig		View and edit system health checks configuration.
sethostname		Set system hostname.
setgateway		Set default gateway.
routeconfig		Configure static network routes.
dnsconfig		Configure DNS servers and domain DNS settings.
dnshostprefs		Configure global or per domain DNS resolver preferences.
dnslistconfig		Configure global settings for DNS blacklist queries.
featurekeyconfi	g	Enable/disable auto-download and activation of feature keys.
ldapconfig		Create, delete and manage LDAP server profiles.
snmpconfig		Enable SNMP, set community string and password, define trap targets.
ntpconfig		Configure NTP Servers and source interface for NTP queries.
sshconfig		Configure sshd settings and view, add, delete or modify SSH user keys.
sslconfig		Configure SSL for SMTP and HTTPS GUI access (SSL Versions, Ciphers).
sslv3config		Enable/disable SSLv3 for EUQ, LDAP, Updater or Websecurity.
settz		Setup time zone.
tzupdate		Update time zone rules.
settime		Set system time and date as MM/DD/YYYY HH:MM:SS
setttymode		Set the TTY mode to interactive or non-interactive.
generalconfig		Configure browser settings (IE compatibility override mode).
reportingconfig		Configure reporting system.
alertconfig		Configure mail alert settings and mail alert recipients.
trackingconfig		Configure message tracking settings.
		Set From: address to be used for mails generated by the system.
fipsconfig		Enable FIPS mode to meet FIPS 140-2 requirements.
resetcounters		Reset all counters of a single machine.

alconfig	Configure browser settings (IE compatibility override mode).	S
tingconfig	Configure reporting system.	a
config	Configure mail alert settings and mail alert recipients.	r
ingconfig	Configure message tracking settings.	0
ssconfig	Set From: address to be used for mails generated by the system.	c
onfig	Enable FIPS mode to meet FIPS 140-2 requirements.	
counters	Reset all counters of a single machine.	u
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Configuring SIVITP	
smtproutes	Add, delete, edit and view SMTP routing.
listenerconfig	Configure and manage public, private or blackhole listeners.
deliveryconfig	Configure mail delivery settings.
destconfig	Configure destination control limits for a specified domain.
exceptionconfig	Configure and manage the domain exception table.
altsrchost	View, create and modify virtual gateway mappings for sender addresses or client IPs.
bounceconfig	Create and modify bounce profiles.
policyconfig	Configure and manage incoming and outgoing mail policies.
textconfig	Configure text blocks for use in disclaimers, anti-virus alerts, DLP, encryption notifications or bounces.
filters	Create, edit and view message filters.
sievechar	Configure Sieve filtering char used in LDAP Accept and Routing.
dictionaryconfig	Create and manage content dictionaries.
sslconfig	Configure SSL for TLS connections (Versions, Ciphers).
certconfig	Manage certificates in PEM format and CRLs and CAs.
callaheadconfig	Configure, edit, view and test SMTP Call-Ahead feature.
smtpauthconfig	Configure and manage SMTP authentication profiles.
addresslistconfig	Configure and manage address lists.
aliasconfig	Configure and manage the alias table.
bvconfig	Configure bounce verification address tagging.
domainkeysconfig	Configure, manage and test tons of DKIM settings.
quarantineconfig	Configure and manage system and outbreak quarantines.
addresslistconfig	Configure and manage addresslists.
slblconfig	Import or export End-User Safelists/Blocklists.
incomingrelayconfig	Manage incoming mail relay settings.
dmarcconfig	Manage DMARC verification profiles and modify global settings.
smimeconfig	Configure S/MIME settings and manage keys.
localeconfig	Manage locale modification and enforcement settings.
ESA configuration files	

ESA configuration files		
showconfig	View XML configuration file as paged output.	
mailconfig	Send XML configuration file via mail.	
saveconfig	Save XML configuration file in the /configuration directory.	
loadconfig	Load XML configuration file from the /configuration directory or paste it directly into the CLI.	
rollbackconfig	Roll back to one of the last 10 saved configurations.	
resetconfig	Reset ALL configurations to factory default.	

$\dashv$	Managing message que	eues and mails
	showrecipients	Show messages from the queue by recipient host name, sender address or all mails in the queue.
	deleterecipients	Delete messages from the queue by recipient host name, sender address or all mails in the queue.
	bouncerecipients	Bounce messages from the queue by recipient host name, sender address or all mails in the queue.
$\dashv$	redirectrecipients	Redirect all mails to a relay host.
$\dashv$	showmessage	Show a complete message by MID in ASCII.
	archivemessage	Archive a message by it's MID as mbox file to the /configuration directory.
4	removemessage	Remove a message from work, retry or destination queue.
4	oldmessage	Display Headers and MID of the oldest message in the queue.
	delivernow	Attempt to deliver pending messages either by domain or simply reschedule all mails.
	unsubscribe	Manage unsubscribe lists for recipient addresses that will always be bounced or dropped.
	stripheaders	Strip all headers by name in this table from all mails.
	resetqueue	Reinitialize queue. DELETES ALL QUEUED MAIL.

Cisco IronPort Support and advanced diagnostics Support request Open a support request with Cisco TAC.		
	Open a support request with Cisco TAC.	
supportrequestupdate	Request immediate update of support request keywords.	
techsupport	Enable/disable a tunnel for Cisco Support to access the appliance.	
diagnostic	Check RAID status, flush DNS/ARP/LDAP caches, test remote SMTP servers, check disk quota and usage or reset configuration.	
tarpit	Configure countermeasures and resource conservation mode.	
setcorewatch	Configure alert-on-core functionality.	
wipedata	Wipe core files from disk and view status from last wipe operation.	
Emergency login with u	ser enablediag if normal login fails. Same password as "admin".	

Working with logs		
grep	Search for a Regular Expression pattern inside a log file.	
findevent	Find an event in the logs matching either a message id, a mail address (From: / To:) or a subject. Menu driven or batch mode.	
tail	Continuously display new entries from the end of a log file.	
rollovernow	Do a rollover on one specific log or simply all log files.	
logconfig	Configure and manage log files and delivery methods (FTP, SCP, Syslog). View public RSA/DSS key from users.	

Managing security services		
updateconfig	Configure update URLs and HTTP/HTTPS proxies to use.	
updatecon 1g	This will also affect AsyncOS updates.	
updatenow updatenow force	Manually update all components. Force updating with the option force. The force option also works with all other update commands.	
antispamconfig	Configure IronPort anti-spam and Intelligent Multi-Scan.	
antispamupdate	Manually request immediate anti-spam rules update.	
antivirusconfig	Configure and view anti-virus settings and scanners.	
antivirusupdate	Manually request immediate anti-virus definitions update.	
contentscannerupdate	Request immediate content scanner engine update.	
scanconfig	Configure scanner options like skipped file types, scanning depth (nesting), maximum scan size, scanner timeout.	
verdictcacheconfig	Configure CASE and SPF verdict caching.	
outbreakconfig	Enable, disable and configure Outbreak Filters.	
outbreakupdate	Request immediate update of CASE rules and engine.	
outbreakflush	Clear the current in-memory and disk-cached Outbreak Rules.	
encryptionconfig	Configure IronPort PXE mail encryption.	
encryptionupdate	Manually request immediate PXE engine update.	
dlpupdate	Manually request immediate RSA DLP engine update.	
dlprollback	Rollback RSA DLP engine and config to the previous version.	
emconfig	Configure RSA Enterprise Manager integration.	
emdiagnostic	RSA Enterprise Manager integration diagnostics.	
ecconfig	Configure enrollment client used to obtain certificates for URL filtering.	
ecupdate	Request immediate update of the enrollment client.	
graymailconfig	Configure Graymail Detection and Safe Unsubscribe settings.	
graymailupdate	Request manual update of graymail files.	
repengupdate	Manually request immediate SBRS engine update.	
senderbaseconfig	Configure SenderBase SBNP statistics sharing status.	
ampconfig	Configure advanced malware scanning and clear file reputation cache.	
websecurityconfig	Configure basic settings for URL filtering. For more advanced configuration use websecurityadvancedconfig.	
webcacheflush	Flush the URL filtering cache.	
urllistconfig	Manage URL whitelists for skipping category and reputation checks.	
imageanalysisconfig	Configure the IronPort Image Analysis settings and thresholds.	
aggregatorconfig	Set the address of the Cisco Aggregator Server.	
slblconfig	Import or export End-User Safelists/Blocklists.	
fulldatasharing	Configure SenderBase statistics-sharing with unhashed filename.	

AsyncOS management		
	Configure update URLs and HTTP/HTTPS proxies to use. This will also affect Anti-Spam and Anti-Virus updates.	
upgrade	List all available AsyncOS versions and perform an upgrade.	
	Revert the appliance to a previously used AsyncOS version. Except network settings ALL configurations and logs will be lost.	

Suspending and resuming receiving and/or delivering mails		
workqueue pause	Pause working queue.	
workqueue resume	Resume working queue.	
suspendlistener	Stop accepting mails on one, several or all listeners.	
resumelistener	Resume accepting mails on one, several or all listeners.	
suspenddel	Suspend delivering mails.	
resumedel	Resume delivering mails.	
suspend	Suspend receiving and delivering all mails.	
resume	Resume receiving and delivering all mails.	

Centralized Management Cluster			
	clusterconfig	Create SSH or CSS clusters, add or remove single ESAs to or from a cluster. Create and manage cluster groups. List machines in cluster and view cluster and connection status.	
	clustercheck	Check configuration databases for inconsistencies and resolve them if necessary.	
$\exists$	clusterdiag	Configure cluster diagnostic settings.	

\_clusterjoin There is nothing to see here, move on.

Message Filter conditions (Excerpt. S	See "ESA User Guide" for more info + examples)
subject	Tests subject against a RegExp.
body-size	Tests size of entire message in bytes.
mail-from	Tests envelope sender against a RegExp.
mail-from-group	Tests envelope sender against LDAP group.
sendergroup	Tests against a HAT sendergroup name.
rcpt-to	Tests envelope recipients against a RegExp.
rcpt-to-group	Tests envelope recipients with LDAP group.
remote-ip	Tests client IP for exact or IP range match.
recv-int or recv-listener	Matches mails received on the named interface/listener.
date	Tests current date against value in US date format: MM/DD/YYYY HH:MM:SS
header( <string>)</string>	Tests the given header against a RegExp.
random( <integer>)</integer>	Compares a random integer to given value.
rcpt-count	Checks recipient count against value.
addr-count()	Compares recipient count from header (To: and/or Cc:) against value.
spf-status	Checks the SPF status.
spf-passed	Checks if SPF verification was successful.
image-verdict	Scans attached images for category match.
workqueue-count	Checks number of mails in the workqueue.
body-contains(< <i>regexp</i> >)	Checks mail and attachments for a RegExp.
only-body-contains(< <i>regexp</i> >)	Checks message body for a RegExp.
encrypted	Tests if a message is S/MIME or PGP encrypted.
attachment- <trait></trait>	Checks if a attachment matches a characteristic <trait>. <trait> can be filename, size, type (MIME signature), filetype (fingerprint) or mimetype (MIME header)</trait></trait>
attachment-protected	Looks for passworded/encrypted attachments.
attachment-unprotected	Looks for unprotected attachments.
attachment-contains()	Tests attachment for the given pattern.
attachment-binary-contains()	Tests raw binary attachment for pattern.
every-attachment-contains()	Tests every attachment of a message for a given pattern.
attachment-size	Matches attachments by size in B, K or M.
dnslist( <server>)</server>	Looks at server for a match in a DNSBL.

Message Filter conditions (Excerpt. See "ESA User Guide" for more info + examples)			
[url-]reputation	Compares sender's SB or a URL reputation to value.		
[url-]no-reputation	True when SB rep. is "none" or a URL rep. is unavailable.		
url-category	Checks all URLs in a message for the specified category.		
dictionary-match( <dict>)</dict>	Look in body for RegExp match from dictionary <dict>.</dict>		
<pre><position>-dictionary- match(<dict>)</dict></position></pre>	Looks in <position> of a message for a RegExp match from the dictionary named <dict>. <position> can be: subject, mail-from, rcpt-to, attachment, body.</position></dict></position>		
header-dictionary- match( <dict>, <header>)</header></dict>	Looks in header < header > for RegExp match from dictionary named < dict > .		
<pre>smtp-auth-id-matches(<header> [, <sieve-char>])</sieve-char></header></pre>	Checks sender in envelope and mail header (From: or Sender:) against the sender's SMTP auth user ID.		
true	True is true and therefore matches all mails.		
valid	Tests mail for complete MIME validity.		
signed	Tests if the message is S/MIME signed.		
<pre>signed-certificate(<field> [<operator> <regexp>])</regexp></operator></field></pre>	Check if the issuer or signer <field> in the certificate of a S/MIME message matches/does not match (== or != as <operator>) a certain <regexp>.</regexp></operator></field>		

١		match (== or != as <operator>) a certain <regexp>.</regexp></operator>
	Message Filter actions (Excerpt. See	"ESA User Guide" for more info + examples)
	alt-src-host()	Deliver mail from this named interface.
	alt-rcpt-to()	Change all recipients of a message.
	alt-mailhost()	Deliver mail via alternate mail host.
	<pre>notify() notify-copy()</pre>	Notify specified recipient about a message (and include a copy of the original message).
	bcc() bcc-scan()	Send a copy of this message to a new recipient. Treat the copy like a new mail and scan again.
l	log-entry()	Add a log message at INFO level to mail logs.
H	quarantine( <name>)</name>	Send this mail to the named quarantine.
	archive( <filename>)</filename>	Save copy of the message in mbox format file.
l	duplicate-quarantine( <name>)</name>	Send copy of this mail to the named quarantine.
l	strip-header()	Look for a header and remove it.
l	insert-header()	Insert a header and its value into the mail.
l	add-footer( <footer>)</footer>	Add the footer named <footer> to the mail.</footer>
	add-heading( <heading>)</heading>	Add text resource <heading> as a heading to a message.</heading>
	bounce-profile()	Apply a bounce profile to the mail.
	encrypt-deferred( <profile>)</profile>	Encrypt message before final delivery.
	tag-message( <name>)</name>	Add tag <name> for RSA DLS policy filtering.</name>
	skip-filters()	Skip all remaining message filters.
	skip- <scanner>()</scanner>	Skip all checks of <scanner> for this mail. <scanner> can be spamcheck, marketingcheck, socialcheck, blukcheck, viruscheck, ampcheck, vofcheck.</scanner></scanner>
	<pre>drop-attachments-by-<trait>()</trait></pre>	Drop attachments matching a characteristic <trait> which can be name, size, type, filetype or mimetype.</trait>
	drop-attachments-where- contains( <regexp>)</regexp>	Drop attachments that match a Regular Expression. Also matches files in archives and drops whole archive.
	<pre>drop-attachments-where- dictionary-match(<dict>)</dict></pre>	Drop attachments that match a term in the dictionary <dict>.</dict>
	html-convert()	Strip all HTML tags from a message.
	edit-header-text()	Substitute a matched RegExp within a header.
	edit-body-text()	Substitute a matched RegExp within a body.
l	deliver()	Deliver the message. Final action.
	drop()	Drop the message. Final action.
	bounce()	Bounce the message. Final action.

## Message Filter example

drop\_huge\_presentations: if (mail-from-group == "Sales") AND (attachment-filename == "(?i)\\.(ppt|pptx)\$") AND (attachment-size >= 10M) { drop-attachments-where-contains ("(?i)\\.(ppt|pptx)\$", "Large presentation

dropped.");