



---

## Numerics

### 12.1 and 12.2

managing routers [60-2](#)

### 3DES encryption algorithm

in IKE proposals [26-6](#)

### 802.1x

802.1x Policy page [63-5](#)

defining policies [63-4](#)

interface authorization states [63-2](#)

on Cisco IOS routers [63-1](#)

supported topologies [63-3](#)

understanding device roles [63-2](#)

---

## A

### AAA

about [48-1](#)

#### Cisco IOS routers

AAA Policy page [62-6](#)

Accounting tab [62-10](#)

Authentication tab [62-6](#)

Authorization tab [62-7](#)

Command Accounting dialog box [62-12](#)

Command Authorization dialog box [62-9](#)

defining services [62-4](#)

overview [62-2](#)

supported accounting types [62-3](#)

supported authorization types [62-2](#)

understanding method lists [62-3](#)

configuring access control for IPS [36-21](#)

configuring on firewall devices [48-1](#)

credentials for device access [3-4](#)

device administration [48-4](#)

local fallback [48-3](#)

network access [48-4](#)

PIX/ASA/FWSM [48-5](#)

Accounting tab [48-8](#)

Authentication tab [48-5](#)

Authorization tab [48-7](#)

support [48-2](#)

VPN access [48-4](#)

#### AAA authentication groups

predefined [6-30](#)

#### AAA firewall

MAC exempt lists [15-26](#)

#### AAA Firewall page

Advanced Setting tab [15-20](#)

#### AAA firewall policy

advanced settings [15-20](#)

configuring [15-6](#)

#### AAA page [15-28](#)

#### AAA rules

ACL naming conventions [12-5](#)

#### combining rules

example [12-27](#)

interpreting results [12-25](#)

procedure [12-22](#)

configuring AAA firewall settings  
(PIX/ASA/FWSM) [15-6](#)

configuring AuthProxy settings (IOS) [15-9](#)

configuring cut-through proxy (ASA) [13-23](#)

configuring for ASA/PIX/FWSM devices [15-4](#)

configuring for IOS devices [15-7](#)

configuring identity aware [13-21](#)

configuring in Map view [35-23](#)

- configuring security group aware [14-17](#)
- configuring settings
  - for IOS devices in Map view [35-24](#)
  - for PIX/ASA/FWSM in Map view [35-24](#)
- converting IPv4 [12-28](#)
- deleting [12-9](#)
- disabling [12-20](#)
- editing [12-10](#)
- enabling [12-20](#)
- managing [15-1](#)
- moving [12-19](#)
- preserving ACL names [12-4](#)
- properties [15-13](#)
- understanding [15-1](#)
- understanding how users authenticate [15-2](#)
- understanding NAT effects [12-3](#)
- understanding processing order [12-2](#)
- AAA Rules page [15-10](#)
- AAA server group objects
  - attributes [6-49](#)
  - creating [6-48](#)
  - default server groups on IOS devices [6-31](#)
  - predefined authentication groups [6-30](#)
  - understanding [6-27](#)
- AAA server objects
  - creating [6-32](#)
  - HTTP-FORM settings [6-44](#)
  - Kerberos settings [6-39](#)
  - LDAP settings [6-40](#)
  - NT settings [6-43](#)
  - RADIUS settings [6-35](#)
  - SDI settings [6-43](#)
  - supported additional types for ASA/PIX/FWSM [6-28](#)
  - supported types [6-28](#)
  - TACACS+ settings [6-38](#)
  - understanding [6-27](#)
- AAA servers
  - supported types on ASA, PIX, FWSM devices [6-28](#)
- Abort the Job dialog box [8-55](#)
- About Configuration Manager command [1-39](#)
- ABR
  - definition [55-75](#)
- access control list objects
  - creating [6-53](#)
  - extended objects [6-54](#)
  - standard objects [6-56](#)
  - unified objects [6-58](#)
  - web objects [6-57](#)
- access control lists
  - GET VPN security policies [29-10](#)
  - policy discovery [5-14](#)
- access control lists (ACLs)
  - names preserved during discovery [12-4](#)
  - naming conventions [12-5](#)
  - resolving naming conflicts [12-6](#)
- access controls
  - configuring ACL names [16-23](#)
  - configuring settings [16-23](#)
  - configuring settings in Map view [35-24](#)
- Access Control Settings page [16-24](#)
- Access Group tab (IGMP) [54-5](#)
- Access Interface Configuration dialog box (ASA) [31-47](#)
- access permissions
  - Event Viewer [68-4](#)
  - Health and Performance Monitor [70-3](#)
  - maps [35-8](#)
  - Report Manager [69-5](#)
- access policies
  - configuring [31-49](#)
  - reference [31-44](#)
  - understanding [31-43](#)
- access ports
  - Create and Edit Interface dialog boxes-Access Port mode [67-9](#)
  - understanding [67-5](#)
- access rule
  - look up
    - from device managers [71-17](#)

- access rules
  - access control settings [16-24, 16-26](#)
  - Access Rules page [16-10](#)
  - ACL naming conventions [12-5](#)
  - address requirements [16-5](#)
  - Advanced dialog box [16-17](#)
  - combining rules
    - example [12-27](#)
    - interpreting results [12-25](#)
    - procedure [12-22](#)
  - configuring [16-7](#)
  - configuring access control settings [16-23](#)
  - configuring identity aware [13-21](#)
  - configuring in Map view [35-23](#)
  - configuring security group aware [14-17](#)
  - controlling non-IP layer-2 traffic [23-1](#)
  - deleting [12-9](#)
  - detecting conflicts [16-28](#)
  - disabling [12-20](#)
  - editing [12-10](#)
  - enabling [12-20](#)
  - examples of event analysis
    - user access to server blocked [68-57](#)
  - expiration dates [16-22](#)
  - finding from CS-MARS events [71-45](#)
  - finding from Event Viewer events [68-53](#)
  - generating analysis reports [16-34](#)
  - hit counts
    - details [16-36](#)
  - how deployed [16-5](#)
  - identity-aware rules
    - requirements [13-3](#)
  - import examples [16-44](#)
  - importing [16-40](#)
  - IPS blocking, affect of [43-4](#)
  - managing [16-1](#)
  - moving [12-19](#)
  - optimizing during deployment [16-46](#)
  - packet tracer, analyzing with [71-23](#)
  - preserving ACL names [12-4](#)
  - Report Manager reports
    - firewall traffic reports [69-14](#)
  - resolving conflicts [16-34](#)
  - rule attributes [16-14](#)
  - sharing ACLs among interfaces [11-18](#)
  - syslog messages supported for look-up [71-46](#)
  - understanding [16-1](#)
  - understanding device-specific behavior [16-4](#)
  - understanding global [16-3](#)
  - understanding NAT effects [12-3](#)
  - understanding processing order [12-2](#)
  - understanding requirements when using inspection [17-4](#)
  - understanding the automatic conflict detection user interface [16-30](#)
  - viewing related CS-MARS events [71-42](#)
  - viewing related events in Event Viewer [68-55](#)
- Accounting
  - Cisco IOS routers
    - settings [62-10](#)
- accounts and credentials
  - Cisco IOS routers
    - overview [62-13](#)
  - PIX/ASA/FWSM
    - user accounts [51-7](#)
    - user accounts, add/edit [51-7](#)
- accounts and credentials policies
  - Accounts and Credentials Policy page [62-15](#)
  - User Accounts dialog box [62-17](#)
- ACLs
  - configuring names [16-23](#)
- ACS user authorization
  - configuring notifications when unavailable [1-26](#)
  - Event Viewer [68-4](#)
  - Health and Performance Monitor [70-3](#)
  - how permissions affect what you can do [1-11](#)
  - Report Manager [69-5](#)
- Active/Active failover

- about [50-2](#)
- command replication [50-4](#)
- configuration synchronization [50-3](#)
- Active/Standby failover [50-2](#)
- Active Directory (AD)
  - collecting user statistics [13-25](#)
  - configuring agent communication options [13-15](#)
  - enabling for identity-aware firewall [13-8](#)
  - identifying AD servers and agents [11-38, 13-8](#)
  - requirements for identity-aware firewall [13-3](#)
- activities
  - accessing functions [4-8, 4-9](#)
  - Activity Manager window [4-10](#)
  - Approved state [4-5](#)
  - approving [4-3, 4-21](#)
  - benefits of [4-2](#)
  - closing [4-16](#)
  - creating [4-14](#)
  - discarding [4-22](#)
  - Edit state [4-4](#)
  - locking [4-3](#)
  - managing [4-1](#)
  - multiple users [4-4](#)
  - opening [4-15](#)
  - overview [1-20](#)
  - rejecting [4-21](#)
  - responding to the Activity Required dialog box [4-14](#)
  - states [4-4](#)
  - Submitted state [4-5](#)
  - submitting for approval [4-20](#)
  - understanding [4-1](#)
  - validating [4-18](#)
  - viewing change reports [4-16](#)
  - viewing status and history [4-23](#)
  - working with [4-7](#)
- Activities command [1-34](#)
- Activities menu [1-36](#)
- Activity Manager window [4-10](#)
- Activity Required dialog box [4-14](#)
- Add/Edit Action Configuration dialog box [53-7](#)
- Add/Edit AnyConnect Client Image dialog box (ASA) [31-65](#)
- Add/Edit AnyConnect Custom Attributes dialog box (ASA) [31-69, 31-70](#)
- Add/Edit Applet dialog box [53-4](#)
- Add/Edit Collector dialog box [53-2](#)
- Add/Edit Content Rewrite dialog box (ASA) [31-53](#)
- Add/Edit DAP Entry Dialog Box > Device [32-30](#)
- Add/Edit File Encoding dialog box [31-54](#)
- Add/Edit Multicast Route dialog box [54-8, 54-10](#)
  - description [54-9](#)
- Add/Edit PIM Neighbor Filter dialog box [54-13](#)
- Add/Edit Proxy Bypass dialog box [31-58](#)
- Add/Edit Syslog Configuration dialog box [53-6](#)
- Add AAA Rule dialog box [15-13](#)
- Add AAA Server dialog box [6-33](#)
- Add AAA Server Group dialog box [6-49](#)
- Add Access List dialog box (Allowed Hosts policy) [36-7](#)
- Add Access Rule dialog box [16-14](#)
- Add an Entry dialog box [39-30](#)
- Add AOL Class Map dialog box [17-27, 21-19](#)
- Add A Port Forwarding Entry dialog box [34-41](#)
- Add ASA Group Policies dialog box
  - client configuration settings [34-7](#)
  - client firewall attributes [34-7](#)
  - connection settings [34-33](#)
  - DNS/WINS settings [34-29, 34-30](#)
  - hardware client attributes [34-9](#)
  - IPSec settings [34-11](#)
  - overview [34-1](#)
  - split tunneling settings [34-31](#)
  - SSL VPN clientless settings [34-13](#)
  - SSL VPN full client settings [34-19](#)
  - SSL VPN settings [34-25](#)
  - Technology settings [34-1](#)
- Add A Smart Tunnel Entry dialog box [34-66, 34-69](#)
- Add AS Path Entry dialog box [55-152](#)
- Add AS Path Object dialog box [55-151](#)

- Add Auto Signon Rules dialog box [34-27](#)
- Add Cat6k Block Vlan dialog box [43-16](#)
- Add Certificate dialog box [11-24](#)
- Add Certificate Filter dialog box [25-57](#)
- Add Cisco Secure Desktop Configuration dialog box [34-34](#)
- Add Client Access Rules dialog box [34-12](#)
- Add Client Update dialog box [34-80](#)
- Add Column dialog box [34-60](#)
- Add Community List Entry dialog box [55-154, 55-155](#)
- Add Community List Object dialog box [55-153](#)
- Add Custom Pane dialog box [34-61](#)
- Add Custom Signature dialog box [39-15](#)
- Add DCE/RPC Map dialog box [17-28](#)
- Add Destinations dialog box [12-11](#)
- Add Device from Network wizard
  - Device Credentials page [3-45](#)
- Add Devices to Group command [1-31](#)
- Add Devices to Group dialog box [3-63](#)
- Add DNS Class Map dialog box [17-27](#)
- Add DNS Map dialog box
  - Filtering tab [17-33](#)
  - overview [17-31](#)
  - Protocol Conformance tab [17-32](#)
- Add eDonkey Class Map dialog box [17-27, 21-19](#)
- Add ESMTP Map dialog box [17-37](#)
- Add Extended Access Control Entry dialog box [6-61](#)
- Add Extended Access List dialog box [6-59](#)
- Add External Filter dialog box [21-41](#)
- Add FastTrack Class Map dialog box [17-27, 21-19](#)
- Add File Object dialog box [34-36](#)
- Add FlexConfig dialog box [7-30](#)
- Add FTP Class Map dialog box [17-27](#)
- Add FTP Map dialog box [17-40](#)
- Add Gnutella Class Map dialog box [17-27, 21-19](#)
- Add Group dialog box [3-62](#)
- Add Group Member dialog box [29-19](#)
- Add GTP Map dialog box [17-43](#)
- Add H.323 Class Map dialog box [17-27, 21-19](#)
- Add H.323 Map dialog box [17-48, 21-34](#)
- Add HSI Endpoint IP Address dialog box [17-51](#)
- Add HSI Group dialog box [17-50](#)
- Add HTTP Class Map dialog box [17-27, 21-19](#)
- Add HTTP Map dialog box [21-34](#)
  - ASA 7.1.x, PIX 7.1.x, FWSM 3.x, IOS devices
    - Entity Length tab [17-55](#)
    - Extension Request Method tab [17-58](#)
    - General tab [17-54](#)
    - overview [17-53](#)
    - Port Misuse tab [17-59](#)
    - RFC Request Method tab [17-57](#)
    - Transfer Encoding tab [17-60](#)
  - ASA 7.2+ and PIX 7.2+ devices [17-61](#)
- Add ICQ Class Map dialog box [17-27, 21-19](#)
- Add IKEv1 Proposal dialog box [26-10](#)
- Add IKEv2 Proposal dialog box [26-13](#)
- Add IMAP Class Map dialog box [17-27, 21-19](#)
- Add IMAP Map dialog box [21-34](#)
- Add IM Class Map dialog box [17-27](#)
- Add IM Map dialog box [21-34](#)
  - ASA and PIX device [17-67](#)
  - IOS device [17-70](#)
- Add Inspect/Application FW Rule wizard
  - Address and Port page [17-12](#)
  - Inspected Protocol page [17-16](#)
  - Match Traffic page [17-10](#)
- Add Inspect Parameter Map dialog box [21-31](#)
- Add Interfaces dialog box [12-13](#)
- Add IP Options Map dialog box [17-71](#)
- Add IPsec Pass Through Map dialog box [17-77](#)
- Add IPsec Transform Set dialog box [26-26](#)
- Add IPv4 Pool Object dialog box [6-92](#)
- Add IPv6 Map dialog box [17-74, 17-88](#)
- Add IPv6 Pool Object dialog box [6-93](#)
- Add Kazaa2 Class Map dialog box [17-27, 21-19](#)
- Add Key Server dialog box [29-19](#)
- Add Language dialog box [34-55](#)
- Add LDAP Attribute Map dialog box [6-46](#)

- Add LDAP Attribute Map Value dialog box [6-47](#)
- Add Link command [1-33](#)
- Add Link dialog box [35-20](#)
- Add Local Rules command [1-32](#)
- Add Local Web Filter Class Map dialog box [17-27, 21-19](#)
- Add Local Web Filter Parameter Map dialog box [21-38](#)
- Add MAC Address Pool Object dialog box [6-94](#)
- Add Map Object command [1-33](#)
- Add Map Object dialog box [35-17](#)
- Add Map Value dialog box [6-47](#)
- Add Match Condition and Action dialog box
  - DNS policy maps [17-34](#)
  - ESMTP policy maps [17-38](#)
  - FTP policy maps [17-41](#)
  - GTP policy maps [17-46](#)
  - H.323 (IOS) policy maps [21-35](#)
  - H.323 policy maps [17-51](#)
  - HTTP (Zone Based IOS) policy maps [21-35](#)
  - HTTP policy maps [17-62](#)
  - IM (Zone Based IOS) policy maps [21-35](#)
  - IMAP policy maps [21-35](#)
  - IM policy maps [17-68](#)
  - IPv6 policy maps [17-75, 17-89](#)
  - P2P policy maps [21-35](#)
  - POP3 policy maps [21-35](#)
  - SIP (IOS) policy maps [21-35](#)
  - SIP policy maps [17-82, 17-92](#)
  - Skinny policy maps [17-86](#)
  - SMTP policy maps [21-35](#)
  - Sun RPC policy maps [21-35](#)
  - Web Filter policy maps [21-35](#)
- Add Match Criterion dialog box
  - AOL class maps [21-21](#)
  - DNS class maps [17-34](#)
  - eDonkey class maps [21-21](#)
  - FastTrack class maps [21-21](#)
  - FTP class maps [17-41](#)
  - Gnutella class maps [21-21](#)
  - H.323 (IOS) class maps [21-22](#)
  - H.323 class maps [17-51](#)
  - HTTP (IOS) class maps [21-22](#)
  - HTTP class maps [17-62](#)
  - ICQ class maps [21-21](#)
  - IMAP class maps [21-24](#)
  - IM class maps [17-68](#)
  - Kazaa2 class maps [21-21](#)
  - Local Web Filter class maps [21-29](#)
  - MSN Messenger class maps [21-21](#)
  - N2H2 class maps [21-30](#)
  - POP3 class maps [21-24](#)
  - SIP (IOS) class maps [21-25](#)
  - SIP class maps [17-82, 17-92](#)
  - SMTP class maps [21-26](#)
  - Sun RPC class maps [21-29](#)
  - Websense class maps [21-30](#)
  - Windows Messenger class maps [21-21](#)
  - Yahoo Messenger class maps [21-21](#)
- Add MSN Messenger Class Map dialog box [17-27, 21-19](#)
- Add N2H2 Parameter Map dialog box [21-39](#)
- Add N2H2 Web Filter Class Map dialog box [17-27, 21-19](#)
- Add NAT Rule dialog box
  - ASA 8.3+ [24-36](#)
- Add NetBIOS Map dialog box [17-78](#)
- Add Network/Host dialog box
  - General tab [6-83](#)
  - NAT tab [24-42](#)
- Add New Device wizard
  - Device Credentials page [3-45](#)
- Add New Security Association dialog box [25-57](#)
- Add or Edit Plug-in Entry dialog box (ASA) [31-59](#)
- Add Other Devices dialog box [8-58](#)
- Add P2P Map dialog box [21-34](#)
- Add Permit Response dialog box [17-45](#)
- Add Per-Session NAT Rule dialog box [24-47](#)
- Add PIX/ASA/FWSM Web Filter Rule dialog box [18-5](#)
- Add PKI Enrollment dialog box
  - CA Information tab [26-58](#)
  - Certificate Subject Name tab [26-65](#)

- Enrollment Parameters tab [26-62](#)
  - overview [26-56](#)
  - Trusted CA Hierarchy tab [26-66](#)
- Add Policy List Object dialog box [55-143](#)
- Add POP3 Class Map dialog box [17-27, 21-19](#)
- Add Port Forwarding List dialog box [34-39](#)
- Add Port List dialog box [6-101](#)
- Add Prefix List Entry dialog box [55-148, 55-150](#)
- Add Prefix List Object dialog box [55-146, 55-148](#)
- Add Protocol Info Parameter Map dialog box [21-33](#)
- Add Regular Expression dialog box [17-105](#)
- Add Regular Expression Group dialog box [17-105](#)
- Address Pools
  - PIX/ASA/FWSM [24-18](#)
    - add/edit [24-18](#)
- address pools
  - overriding in connection profiles [30-8](#)
- Add Route Map Entry dialog box [55-137](#)
- Add Route Map Object dialog box [55-136](#)
- Add Row command [1-31](#)
- Add Rule Section dialog box [12-22](#)
- Add Server dialog box
  - Protocol Info Parameter maps [21-34](#)
- Add Service dialog box [6-103](#)
- Add Services dialog box [12-13](#)
- Add Single Sign On Server dialog boxes [34-41](#)
- Add SIP Class Map dialog box [17-27, 21-19](#)
- Add SIP Map dialog box [17-80, 17-90, 21-34](#)
- Add Skinny Map dialog box [17-84](#)
- Add SLA Monitor dialog box [51-10](#)
- Add Smart Tunnel Auto Signon Entry dialog box [34-71](#)
- Add Smart Tunnel Auto Signon Lists dialog box [34-70](#)
- Add Smart Tunnel Lists dialog box [34-65, 34-68](#)
- Add SMTP Class Map dialog box [17-27, 21-19](#)
- Add SMTP Map dialog box [21-34](#)
- Add SNMP Map dialog box [17-87](#)
- Add Sources dialog box [12-11](#)
- Add SSL VPN Customization dialog box [34-50](#)
  - Applications [34-59](#)
  - Copyright Panel [34-57](#)
  - Custom Panes [34-60](#)
  - Full Customization [34-58](#)
  - Home Page [34-61](#)
  - Informational Panel [34-56](#)
  - Language [34-53](#)
  - Logon Form [34-55](#)
  - Logout Page [34-62](#)
  - Title Panel [34-52](#)
  - Toolbar [34-58](#)
- Add SSL VPN Gateway dialog box [34-63](#)
- Add Standard Access Control Entry dialog box [6-64](#)
- Add Standard Access List dialog box [6-59](#)
- Add Sun RPC Class Map dialog box [17-27, 21-19](#)
- Add Sun RPC Map dialog box [21-34](#)
- Add TCP Map dialog box [57-22](#)
- Add TCP Option Range Dialog Box [57-25](#)
- Add Text Object dialog box [7-32](#)
- Add Time Range dialog box [6-71](#)
- Add Traffic Flow dialog box [57-18](#)
- Add Transparent Firewall Rule dialog box [23-5](#)
- Add Trend Content Filter Class Map dialog box [17-27, 21-19](#)
- Add Trend Parameter Map dialog box [21-42](#)
- Add Unified Access Control Entry dialog box [6-67](#)
- Add URL Domain Name dialog box [21-45](#)
- Add URLF Glob Parameter Map dialog box [21-45](#)
- Add URL Filter Parameter Map dialog box [21-43](#)
- Add User dialog box [12-12, 36-19](#)
- Add User Group dialog box
  - Advanced PIX 6.3 settings [34-81](#)
  - Browser Proxy settings [34-86](#)
  - Client (IOS) settings [34-77](#)
  - Clientless settings [34-82](#)
  - Client VPN Software Update (IOS) settings [34-80](#)
  - DNS/WINS settings [34-76](#)
  - General settings [34-74](#)
  - IOS Xauth Options settings [34-79](#)
  - overview [34-72](#)

- Split Tunneling settings (Easy VPN/remote access IPSec VPN) [34-76](#)
- SSL VPN Connection settings [34-87](#)
- SSL VPN Full Tunnel settings [34-83](#)
- SSL VPN Split Tunneling settings [34-85](#)
- Technology settings [34-72](#)
- Thin Client settings [34-83](#)
- Add User Profile dialog box [43-12](#)
- Add VDI Server dialog box [34-16](#)
- Add Virtual Sensor dialog box [38-7, 38-8](#)
- Add Web Access Control Entry dialog box [6-65](#)
- Add Web Filter Map dialog box [21-47](#)
- Add WebSense Parameter Map dialog box [21-39](#)
- Add Websense Web Filter Class Map dialog box [17-27, 21-19](#)
- Add Web Type Access List dialog box [6-59](#)
- Add Windows Messenger Class Map dialog box [17-27, 21-19](#)
- Add WINS Server dialog box [34-89](#)
- Add WINS Server List dialog box [34-88](#)
- Add Yahoo Messenger Class Map dialog box [17-27, 21-19](#)
- Add Zones dialog box [12-13](#)
- admin context [58-1](#)
- administration
  - selecting policies to manage [5-11](#)
- administrative settings, configuring [11-1](#)
- admin password, changing [10-24](#)
- ADSL
  - ADSL Policy page [61-36](#)
  - ADSL Settings dialog box [61-37](#)
  - defining settings [61-35](#)
  - supported operating modes [61-34](#)
- ADSL policies
  - unable to deploy [9-15](#)
- Advanced dialog box
  - access rules [16-17](#)
- Advanced NAT Options
  - PIX/ASA/FWSM
    - add/edit [24-29](#)
- Advanced settings
  - interface configuration
    - PIX/ASA/FWSM [46-68](#)
- AES encryption algorithm
  - in IKE proposals [26-6](#)
- AIM-IPS interfaces
  - IPS Module Interface Settings page [61-22](#)
- AIP-SSM/SSC
  - ASA [57-15](#)
- Alarm Indication Signal (AIS) cells [61-50](#)
- allowed hosts, configuring for IPS [36-7](#)
- Allowed Hosts policy [36-7](#)
- Analysis Engine global variables
  - configuring [36-30](#)
- analysis reports
  - generating [16-34](#)
- anomaly detection
  - configuring [41-6](#)
  - configuring histograms [41-11](#)
  - configuring learning accept mode [41-8](#)
  - configuring signatures [41-4](#)
  - configuring thresholds [41-11](#)
  - managing [41-1](#)
  - modes [41-2](#)
  - understanding [41-1](#)
  - understanding histograms [41-9](#)
  - understanding thresholds [41-9](#)
  - understanding worms [41-2](#)
  - when to turn off [41-4](#)
  - zones
    - overview [41-3](#)
- anti-spoofing [56-2](#)
- AnyConnect
  - client images [31-61, 31-63](#)
  - profiles [31-61, 31-63](#)
    - editing [31-62](#)
- AnyConnect Client Image dialog box (ASA) [31-63](#)
- AnyConnect custom attributes [31-69, 31-70](#)
- AnyConnect Profile Editor [31-62](#)
- AOL class map objects



- creating [21-16](#)
  - match criteria [21-21](#)
- applet
  - embedded event manager [53-3](#)
- Apply IPS Update command [1-35](#)
- Apply IPS Update wizard [44-7](#)
- Approve Activity command [1-36](#)
- Approve Activity dialog box [4-21](#)
- Approved activity state [4-5](#)
- Approve Deployment Job dialog box [8-20, 8-39](#)
- Area Border Router
  - See ABR [55-75](#)
- ARP
  - PIX/ASA/FWSM
    - configuration [47-4](#)
    - inspection [47-5](#)
    - inspection, enable/disable [47-6](#)
    - table [47-3](#)
- ARP table
  - static entry [47-3, 47-4](#)
- ASA
  - ASDM [71-15](#)
  - CX [57-16](#)
    - Auth Proxy Configuration [57-17](#)
  - CX module
    - detecting [71-21](#)
  - Failover
    - Add Failover Group [50-24](#)
    - edit bridge group [50-16](#)
  - FirePOWER module
    - detecting [71-21](#)
  - IPS, QoS, and Connection Rules
    - ASA CX Auth Proxy Configuration [57-17](#)
  - IPS modules [57-15](#)
  - policy discovery [5-13](#)
  - rollback, commands to recover from failover misconfiguration [8-68](#)
  - rollback command conflicts [8-67](#)
  - rollback restrictions for failover devices [8-65](#)
  - rollback restrictions for multiple context mode [8-64](#)
  - security contexts
    - allocate interfaces [58-11](#)
    - configuration [58-9](#)
    - viewing allocated interfaces [58-12](#)
  - setting up AUS or CNS [2-8](#)
  - setting up SSL (HTTPS) [2-3](#)
  - TCP State Bypass [57-3](#)
- ASA 5505
  - Management IPv6 [47-10](#)
  - ports and interfaces [46-6](#)
- ASA 8.3+
  - NAT policies
    - Add/Edit NAT rules dialog boxes [24-36](#)
    - Translation Rules page [24-34](#)
- ASA Cluster Load Balance page [31-5](#)
- ASA CX
  - CX
    - about [57-16](#)
- ASA devices
  - 5505
    - hardware port configuration [46-61](#)
  - AAA support [6-28](#)
  - about [46-1](#)
  - adding or changing modules [3-40](#)
  - adding SSL thumbprints manually [9-5](#)
  - Bridge Groups
    - add/edit [46-62](#)
  - Catalyst Service Module [46-1](#)
  - changing those selected for reports [69-22](#)
  - configuring for event management [68-28](#)
  - configuring for report management [69-3](#)
  - configuring IKE and IPsec policies [26-1](#)
  - configuring IKEv2 authentication [26-67](#)
  - configuring transparent firewall rules [23-1](#)
  - Easy VPNs
    - connection profiles [28-13](#)
  - Event Viewer support [68-4](#)
  - FlexConfig object samples [7-20](#)

- global access rules [16-3](#)
- identity-aware services
  - configuring to provide [13-7, 14-8](#)
- interfaces [46-26](#)
  - add/edit [46-31](#)
  - Advanced tab [46-41](#)
  - configuring [46-3](#)
  - edit EtherChannel-assigned interface [46-11](#)
  - EtherChannels [46-9, 46-13](#)
  - General tab [46-33](#)
  - IP Type [46-58](#)
  - IPv6 [46-47, 46-72, 46-73](#)
  - IPv6, add/edit [46-52](#)
  - IPv6, add/edit prefixes [46-54, 46-56](#)
  - LACP [46-11](#)
  - MAC address [46-60](#)
  - PPPoE Users [46-71](#)
  - VPDN groups [46-71](#)
- licenses [2-11](#)
- monitoring service level agreements [51-8](#)
- object group search [16-25](#)
- packet capture, using [71-30](#)
- packet tracer, using [71-23](#)
- remote access SSL VPNs
  - advanced settings [31-71](#)
  - Anyconnect client settings [31-61, 31-63](#)
  - browser plug-ins [31-59](#)
  - configuring HTTP/HTTPS proxies and proxy bypass [31-56](#)
  - content rewrite rules [31-53](#)
  - encoding rules [31-54](#)
  - Kerberos Constrained Delegation (KCD) [31-66, 31-68](#)
  - other settings [31-50](#)
  - performance settings [31-51](#)
  - server certificate verification settings [31-30, 31-32, 31-72](#)
  - shared license [31-73](#)
  - shared license clients (ASA) [31-74](#)
  - shared license servers (ASA) [31-75](#)
- remote access VPNs
  - access policies (ASA), configuring [31-49](#)
  - access policies (ASA), reference [31-44](#)
  - access policies (ASA), understanding [31-43](#)
  - AnyConnect client image settings (ASA) [31-65](#)
  - AnyConnect custom attributes (ASA) [31-69, 31-70](#)
  - certificate to connection profile map policy (IKEv1) [31-36](#)
  - certificate to connection profile map rules (IKEv1 IPsec) [31-37](#)
  - cluster load balancing [31-5](#)
  - configuring bookmarks [31-81](#)
  - configuring portal appearance [31-76](#)
  - configuring WINS servers for file system access [31-86](#)
  - connection profiles [31-7, 31-8](#)
  - creating IPsec [30-25](#)
  - creating SSL [30-14](#)
  - customizing [31-76](#)
  - device support [30-8](#)
  - dynamic access policies [32-1, 32-2](#)
  - dynamic access policy (DAP) attributes [32-4, 32-7](#)
  - Dynamic Access policy page (ASA) [32-11](#)
  - fragmentation settings [26-30, 26-43](#)
  - group policies, configuring [31-26](#)
  - group policies, creating [31-28](#)
  - group policies, understanding [31-27](#)
  - IKE proposals [26-9](#)
  - IKEv2 settings [26-36](#)
  - IPsec proposals [31-41](#)
  - ISAKMP/IPsec settings [26-32](#)
  - managing [31-1](#)
  - NAT settings [26-41](#)
  - policy overview [31-2](#)
  - post URL method and macro substitutions in bookmarks [31-83](#)
  - proxy bypass rules (ASA) [31-58](#)
  - Public Key Infrastructure (PKI) [26-55](#)
  - secure desktop manager policies [32-9](#)
  - smart tunnels [31-84](#)

- understanding IKE [26-5](#)
  - understanding NAT settings [26-40](#)
  - wizard [30-13](#)
- Report Manager reports
  - firewall summary botnet reports [69-15](#)
  - firewall traffic reports [69-14](#)
  - general VPN reports [69-16](#)
  - VPN top reports [69-16](#)
- selecting for Event Viewer [68-33](#)
- selecting policy types to manage [5-11](#)
- SSL certificate configuration [11-22](#)
- ASA group policies objects
  - client configuration settings [34-7](#)
  - client firewall attributes [34-7](#)
  - connection settings [34-33](#)
  - DNS/WINS settings [34-29](#), [34-30](#)
  - hardware client attributes [34-9](#)
  - IPSec settings [34-11](#)
  - split tunneling settings [34-31](#)
  - SSL VPN clientless settings [34-13](#)
  - SSL VPN full client settings [34-19](#)
  - SSL VPN settings [34-25](#)
  - technology settings [34-1](#)
- ASA Image Management [72-16](#), [72-32](#)
- ASAv
  - about [46-1](#)
- ASBR
  - definition [55-75](#)
- ASCII limitations for text [1-50](#)
- ASDM
  - access rule look-up [71-18](#)
  - device manager [71-15](#)
- AS path objects
  - properties [55-151](#)
- ASR
  - zone-based firewall
    - global parameters [21-50](#)
    - restrictions [21-3](#)
- assignment overview [1-20](#)
- Assignments tab, Policy view [5-54](#)
- Assign Shared Policy command [1-32](#)
- Assign Shared Policy dialog box [5-44](#)
- Asymmetric Digital Subscriber Line (ADSL)
  - on Cisco IOS routers [61-33](#)
- Asymmetric Routing Groups [46-6](#)
- Asynchronous Transfer Mode (ATM) [61-46](#)
- ATM [61-46](#)
  - virtual channel connections (VCCs) [61-46](#)
  - virtual channel identifier (VCI) [61-46](#)
  - virtual path connections (VPCs) [61-46](#)
  - virtual path identifier (VPI) [61-46](#)
- Attack Response Controller [43-1](#)
- attacks
  - broadcast [17-4](#)
  - Denial of Service (DoS) [17-4](#)
  - spoofing [17-4](#)
  - SYN flooding [17-4](#)
- audit logs
  - configuring default settings [11-62](#)
  - purging entries [10-23](#)
  - understanding [10-19](#)
  - working with [10-19](#)
- Audit Message Detail dialog box [10-21](#)
- Audit Report command [1-34](#)
- audit reports
  - generating and viewing [10-20](#)
  - understanding [10-19](#)
  - working with [10-19](#)
- Audit Report window [10-21](#)
- AUS
  - deploying configurations [8-41](#)
  - deployment method [8-10](#)
  - setting up [2-7](#)
  - setting up on PIX Firewall and ASA devices [2-8](#)
- Authentication
  - Cisco IOS routers
    - settings [62-6](#)
- authentication

- routing protocols [55-75](#)
- Authentication-Authorization-Accounting
  - see AAA [48-1](#)
- Authentication Header (AH) encryption algorithm [26-29](#)
- authentication methods
  - certificates (RSA signatures) [26-8](#)
  - in IKE proposals [26-8](#)
  - preshared keys [26-8](#)
- authentication testing
  - SSH [2-5](#)
- Authorization
  - Cisco IOS routers
    - settings [62-7](#)
- authorization proxy (AuthProxy)
  - configuring AAA rules [15-7](#)
- AuthProxy
  - configuring settings in Map view [35-24](#)
- Auth Proxy Configuration
  - ASA CX [57-17](#)
- AuthProxy dialog box [15-19](#)
- AuthProxy settings policy
  - configuring [15-9](#)
- autolink
  - omitting reserved networks from maps [11-3](#)
- automatic conflict detection
  - resolving conflicts [16-34](#)
  - understanding [16-28](#)
  - understanding the user interface [16-30](#)
  - using [16-28](#)
- autonomous system paths
  - See AS paths
- auto signon rules
  - ASA group policy objects [34-27](#)
- Auto Update Server (AUS)
  - adding [3-36](#)
  - licensing [10-17](#)
  - PIX/ASA/FWSM [52-1](#)
    - add/edit server [52-3](#)
  - troubleshooting deployment [9-18](#)

- Auto Update Server Properties dialog box [3-38](#)
- Available Bit Rate (ABR) [61-47](#)
- Available Servers dialog box [3-39](#)

---

## B

- background image, map
  - deleting [35-13](#)
  - importing [35-13](#)
  - scale and position [35-13](#)
  - setting [35-13](#)
- backup
  - event data store [68-35](#)
- backup.pl command [10-25](#)
- Backup command [1-35](#)
- backups, Security Manager database [10-25](#)
- bandwidth
  - VPN user reports [69-16](#)
- banners
  - configuring on firewall devices [48-9](#)
- benefits of product [1-2](#)
- BGP routing
  - BGP Routing Policy page [66-4](#)
  - defining routes [66-2](#)
  - Neighbors dialog box [66-6](#)
  - on Cisco IOS routers [66-1](#)
  - PIX/ASA/FWSM [55-2, 55-3](#)
    - General tab [55-5](#)
    - IPv4 Family - Aggregate Address configuration [55-9, 55-22](#)
    - IPv4 Family - Filter configuration [55-10](#)
    - IPv4 Family - General tab [55-7, 55-21](#)
    - IPv4 Family - Neighbor configuration [55-11, 55-24](#)
    - IPv4 Family - Network configuration [55-17, 55-29](#)
    - IPv4 Family - Redistribution configuration [55-18, 55-30](#)
    - IPv4 Family - Route Injection configuration [55-19, 55-31](#)
    - IPv4 Family tab [55-6, 55-20](#)

- redistributing routes [66-3](#)
- Redistribution Mapping dialog box [66-7](#)
- Redistribution tab [66-6](#)
- Setup tab [66-4](#)
- Bidirectional Neighbor Filter [54-14](#)
- Bidirectional Neighbor Filter tab
  - PIM [54-13](#)
- blocking, IPS
  - configuring [43-7](#)
  - configuring ARC [43-1](#)
  - configuring blocking devices [43-14](#)
  - configuring master blocking sensors [43-13](#)
  - configuring never block hosts and networks [43-17](#)
  - configuring router blocking interfaces [43-15](#)
  - configuring user profiles [43-12](#)
  - configuring VLAN blocking interfaces [43-16](#)
  - general options [43-10](#)
  - master blocking sensor [43-6](#)
  - policy [43-8](#)
  - rate limiting [43-4](#)
  - router and switch blocking devices [43-4](#)
  - strategies [43-3](#)
  - understanding [43-1](#)
- Blocking page [43-8](#)
- Boot image/configuration
  - PIX/ASA [48-10](#)
    - add/edit [48-12](#)
- bootstrap configuration
  - Failover [50-26](#)
- Botnet Traffic Filter Drop Rules Editor [19-13](#)
- botnet traffic filter rules
  - adding static entries [19-5](#)
  - blocking blacklisted traffic [19-6](#)
  - configuring DNS snooping [17-18](#)
  - configuring in Map view [35-23](#)
  - configuring the dynamic database [19-4](#)
  - configuring with IPS global correlation [42-1](#)
  - databases [19-1](#)
  - Device Blacklist dialog box [19-15](#)
  - Device Whitelist dialog box [19-15](#)
  - Drop Rules Editor [19-13](#)
  - Dynamic Blacklist Configuration tab [19-10](#)
  - enabling DNS snooping [19-6](#)
  - field definitions [19-9](#)
  - illustrations [19-1](#)
  - mitigating botnet activity [68-63](#)
  - monitoring
    - activity using ASDM [68-63](#)
    - activity using Event Viewer [68-60, 68-62](#)
    - overview [68-60](#)
    - understanding botnet syslog events [68-60](#)
  - overview [19-1](#)
  - preserving ACL names [12-4](#)
  - Report Manager reports
    - firewall summary botnet reports [69-15](#)
  - task flow [19-2](#)
  - traffic classification [19-6](#)
  - Traffic Classification dialog box [19-12](#)
  - Traffic Classification tab [19-11](#)
  - understanding [19-1](#)
  - understanding NAT effects [12-3](#)
  - understanding processing order [12-2](#)
  - Whitelist/Blacklist tab [19-14](#)
- bridge group
  - failover
    - editing [50-16](#)
- Bridge Groups
  - ASA/FWSM
    - add/edit [46-62](#)
- bridge groups
  - defining [62-20](#)
  - FWSM 3.1 [47-3](#)
- Bridging
  - ASA 5505
    - Management IPv6 [47-10](#)
  - PIX/ASA/FWSM
    - ARP configuration [47-4](#)
    - ARP Inspection [47-5](#)

- ARP Inspection, enable/disable [47-6](#)
  - ARP Table [47-3](#)
  - MAC Address, add/edit [47-8](#)
  - MAC Address Table [47-7](#)
  - MAC Learning [47-8](#)
  - MAC Learning, enable/disable [47-9](#)
  - Management IP address [47-10](#)
- bridging
- Cisco IOS routers
    - Bridge Group dialog box [62-21](#)
    - Bridging Policy page [62-20](#)
    - BVI interfaces [62-19](#)
    - overview [62-18](#)
  - configuring transparent firewall rules [23-1](#)
  - PIX/ASA/FWSM
    - about [47-1](#)
    - configuring on [47-1](#)
- broadcast attacks, preventing [17-4](#)
- broadcasts
- enabling directed on routers [61-20](#)
- browser plug-ins
- configuring [31-59](#)
- Bundles [72-13](#)
- bypass mode
- configuring for IPS [37-12](#)
- 
- C**
- CA server authentication methods
- SCEP (Simple Certificate Enrollment Protocol) [26-50](#)
- Cat6k Device dialog box [43-14](#)
- Catalyst 6500/7600 devices
- configuring FWSM in site-to-site VPNs [25-46](#)
  - configuring SSH [2-6](#)
  - default transport protocol [11-22](#)
  - deployment [8-28](#)
  - FlexConfig object samples [7-22](#)
  - IPS blocking devices [43-4](#)
  - policy discovery for FWSM [5-13](#)
  - rollback restrictions [8-65](#)
  - Service Modules [46-1](#)
- Catalyst 6500/7600 switches
- including in deployment jobs [8-28](#)
- Catalyst devices
- policy discovery [5-13](#)
  - remote access VPNs
    - Dynamic VTI/VRF Aware IPsec settings [33-7](#)
    - high availability [33-11](#)
    - IPsec proposals [33-4](#)
    - user group policies [33-13](#)
    - VPNSM/VPN SPA/VSPA settings [33-6](#)
- Catalyst platform policies
- IDS settings policy
    - Create and Edit IDS Data Port VLANs dialog boxes [67-49](#)
    - Create and Edit IDS EtherChannel VLANs dialog boxes [67-49](#)
    - IDS Settings page [67-47](#)
    - IDS Slot-Port Selector dialog box [67-50](#)
  - interfaces/VLANs policy
    - Access Port Selector dialog box [67-30](#)
    - Create and Edit Interface dialog boxes-Access Port mode [67-9](#)
    - Create and Edit Interface dialog boxes-Dynamic Port mode [67-18](#)
    - Create and Edit Interface dialog boxes-Other mode [67-24](#)
    - Create and Edit Interface dialog boxes-Routed Port mode [67-12](#)
    - Create and Edit Interface dialog boxes-subinterfaces [67-22](#)
    - Create and Edit Interface dialog boxes-Trunk Port mode [67-14](#)
    - Create and Edit VLAN dialog boxes [67-28](#)
    - Create and Edit VLAN Group dialog boxes [67-34](#)
    - Interfaces tab [67-7](#)
    - Service Module Slot Selector dialog box [67-35](#)
    - Summary tab [67-3](#)
    - Trunk Port Selector dialog box [67-31](#)
    - VLAN Groups tab [67-33](#)

- VLAN Selector dialog box [67-35](#)
- VLANs tab [67-27](#)
- VLAN access lists policy
  - Create and Edit VLAN ACL Content dialog boxes [67-41](#)
  - Create and Edit VLAN ACL dialog boxes [67-41](#)
  - VLAN Access Lists page [67-39](#)
- Catalyst Summary Info command [1-35](#)
- Catalyst switches
  - configuring SSH [2-6](#)
  - default transport protocol [11-22](#)
  - showing modules, security contexts, and virtual sensors [3-56](#)
- Catalyst switches/7600 routers
  - troubleshooting deployment [9-16](#)
- Catalyst switches and 7600 devices
  - IDSM mode support [67-43](#)
  - interface deployment failure [9-16](#)
  - internal VLAN deployment failure [9-16](#)
  - supported VTP modes [67-1](#)
- Catalyst switches and 7600 Series routers
  - access ports [67-5](#)
  - Catalyst Summary Info page [67-2](#)
  - defining IDSM Data Port VLANs [67-46](#)
  - defining IDSM EtherChannel VLANs [67-44](#)
  - defining ports [67-5](#)
  - defining VACLs [67-37](#)
  - defining VLAN groups [67-32](#)
  - defining VLANs [67-26](#)
  - deleting IDSM Data Port VLANs [67-47](#)
  - deleting IDSM EtherChannel VLANs [67-45](#)
  - deleting ports [67-7](#)
  - deleting VACLs [67-38](#)
  - deleting VLAN groups [67-33](#)
  - deleting VLANs [67-27](#)
  - discovering policies [67-1](#)
  - generating interface names [67-6](#)
  - IDSM settings [67-43](#)
  - IDSM Settings page [67-47](#)
  - interfaces [67-5](#)
  - managing [67-1](#)
  - routed ports [67-5](#)
  - trunk ports [67-5](#)
  - viewing interface and VLAN summary [67-3](#)
  - VLAN Access Lists page [67-39](#)
  - VLAN ACLs (VACLs) [67-36](#)
  - VLAN groups [67-31](#)
  - VLANs [67-25](#)
- Catalyst VPN Service Port Adapters (VSPAs)
  - configuring [25-41](#)
- Catalyst VPN Services Module (VPNSM)
  - configuring [25-41](#)
  - configuring in remote access VPNs [33-6](#)
- Catalyst VPN Shared Port Adapter (VPN SPA)
  - configuring [25-41](#)
  - configuring in remote access VPNs [33-6](#)
- categories
  - using [6-13](#)
- cautions
  - significance of [iii-lxiii](#)
- CCO settings [11-4](#)
- CDP
  - configuring mode for IPS [37-12](#)
- CEF Interface Settings dialog box [61-26](#)
- CEF interface settings policies [61-24](#)
- certificates
  - accepting [11-4, 11-52](#)
  - retrieving [11-4, 11-52](#)
  - viewing [11-4, 11-52](#)
- certificates, SSL
  - adding thumbprints manually [9-5](#)
  - configuring default settings for how handled [11-22](#)
  - managing IPS [44-10](#)
- certificates for ASA image downloads [11-4](#)
- certificates for IPS package downloads [11-52](#)
- certificate to connection profile map policies
  - configuring policy [31-36](#)
  - configuring rules [31-37](#)

- certificate trust management [11-4, 11-52](#)
- Change Report dialog box [4-18](#)
- change reports
  - selecting session in non-Workflow mode [4-18](#)
  - viewing [4-16](#)
- Change Reports command [1-34](#)
- Checkpoint migration
  - configuring object group search on ASA 8.3+ devices [16-25](#)
- Choose a file dialog box [34-38](#)
- Cisco 7600 Series routers
  - managing [67-1](#)
- Cisco AnyConnect Profile Editor [31-62](#)
- Cisco Configuration Engine
  - troubleshooting device setup and deployment [9-18](#)
- Cisco Discovery Protocol (CDP)
  - enabling CDP on router interfaces [61-18](#)
- Cisco Express Forwarding (CEF)
  - CEF Interface Settings policy [61-25](#)
  - CEF router interface settings policies [61-24](#)
  - importance for QoS [65-2](#)
- Cisco IOS IPS
  - affect of load balancing [45-8](#)
  - configuration files [45-3](#)
  - configuration overview [45-4](#)
  - configuring [45-1](#)
  - configuring general settings [45-7](#)
  - configuring interface rules [45-9](#)
  - getting started [36-1](#)
  - initial preparation of router [45-5](#)
  - lightweight signature engines [45-2](#)
  - limitations and restrictions [45-3](#)
  - selecting signature category [45-6](#)
  - understanding [45-1](#)
  - understanding subsystems and revisions [45-2](#)
- Cisco IOS Routers
  - configuring IOS IPS [45-1](#)
  - IPS blocking devices [43-4](#)
- Cisco IOS routers
  - 802.1x [63-1](#)
  - AAA [62-2](#)
  - accounts and credentials [62-13](#)
  - ADSL [61-33](#)
  - advanced interface settings [61-13](#)
  - available interface types [61-2](#)
  - basic interface settings [61-1](#)
  - BGP routing [66-1](#)
  - CNS call-home mode [2-10](#)
  - CNS event-bus mode [2-9](#)
  - configuring SSH [2-6](#)
  - CPU settings [62-25](#)
  - default AAA server groups [6-31](#)
  - deploying configurations using TMS [8-43](#)
  - dialer interfaces [61-27](#)
  - discovering policies [60-3](#)
  - Domain Name System (DNS) [62-74](#)
  - Dynamic Host Configuration Protocol (DHCP) [62-87](#)
  - EIGRP routing [66-8](#)
  - host and domain names [62-77](#)
  - HTTP [62-28](#)
  - interface deployment failure [9-14](#)
  - IOS 12.1 and 12.2 [60-2](#)
  - licenses [2-12](#)
  - line access [62-35](#)
  - managing [60-1](#)
  - memory settings [62-78](#)
  - NAT [24-5](#)
    - designating interfaces [24-6](#)
    - dynamic rules [24-10](#)
    - static rules [24-6](#)
    - timeouts [24-13](#)
  - NetFlow [64-1, 64-5, 64-12](#)
  - Network Admission Control (NAC) [63-8](#)
  - Network Time Protocol (NTP) [62-96](#)
  - optional SSH settings [62-63](#)
  - OSPF routing [66-19](#)
  - permanent virtual connections (PVCs) [61-46](#)
  - platform policies [60-1](#)



- Point-to-Point Protocol (PPP) [61-70](#)
  - policy discovery [5-13](#)
  - quality of service (QoS) [65-1](#)
  - RIP routing [66-42](#)
  - Secure Device Provisioning (SDP) [62-81](#)
  - setting up SSL (HTTPS) [2-4](#)
  - SHDSL [61-40](#)
  - SNMP [62-66](#)
  - static routing [66-50](#)
  - syslog logging [64-1](#)
  - time zone settings [62-22](#)
  - transparent bridging [62-18](#)
- Cisco IOS Software
  - FlexConfig object samples [7-22](#)
  - selecting policy types to manage [5-11](#)
- Cisco Prime Security Manager
  - see PRSM [71-20, 71-21](#)
- Cisco Secure Desktop configuration objects
  - creating [33-18](#)
- Cisco Security Management Suite server
  - logging into or exiting [1-11](#)
- Cisco Technical Assistance Center
  - creating diagnostic file [10-28](#)
  - generating data [10-28](#)
  - generating deployment or discovery status reports [10-30](#)
  - generating partial database backup [10-30](#)
- Cisco Trust Agent (CTA) [63-9](#)
- CiscoWorks Common Services
  - backing up and restoring Security Manager [10-24](#)
  - logging into or exiting [1-11](#)
- CiscoWorks user authorization, affect on what you can do [1-11](#)
- Class-Based Policing [65-6](#)
- class maps
  - understanding [6-77](#)
- Clear Connection Configuration dialog box [15-25](#)
- clear xlate
  - PIX/ASA/FWSM platform [59-1](#)
- CLI commands
  - FlexConfig objects [7-2](#)
- client applications [71-2](#)
- client connection characteristics
  - configuration modes [28-3](#)
  - configuring policies for Easy VPN [28-7](#)
  - extended authentication (xauth) [28-4](#)
- clientless access mode [30-4](#)
- client settings
  - configuring AnyConnect [31-63](#)
  - understanding AnyConnect [31-61](#)
- client-side file browsing [1-50](#)
  - enabling or disabling [11-10](#)
- CLI prompt
  - configuring on firewall devices [48-12](#)
- Clock
  - PIX/ASA/FWSM [48-14](#)
- clock
  - Cisco IOS routers
    - overview [62-22](#)
- clock settings
  - Cisco IOS routers
    - Clock Policy page [62-23](#)
- Clone Device command [1-30](#)
- Clone Policy Bundle dialog box [5-58](#)
- Clone Policy command [1-32](#)
- Clone Policy dialog box [5-47](#)
- Close Activity command [1-36](#)
- Close All Reports command (Report Manager) [69-8](#)
- Close Report command (Report Manager) [69-8](#)
- Close Ticket command [1-37](#)
- cluster, server
  - managing [10-2](#)
  - overview [10-2](#)
  - splitting server [10-3](#)
  - synchronizing shared policies [10-5](#)
- Cluster Information page, device properties [3-50](#)
- clustering [3-9](#)
- cluster load balancing

- configuring [31-5](#)
- understanding [31-5](#)
- understanding FQDN redirection [31-5](#)
- CNS
  - call-home mode [2-10](#)
  - deploying configurations [8-41](#)
  - deployment method [8-10](#)
  - event-bus mode [2-9](#)
  - setting up on PIX Firewall and ASA devices [2-8](#)
- color rules, configuring in Event Viewer [68-39](#)
- Combine Rules Selection Summary dialog box [12-24](#)
- commands
  - Activities menu [1-36](#)
  - Edit menu (Configuration Manager) [1-31](#)
  - Event Viewer File menu [68-9](#)
  - Event Viewer View menu [68-10](#)
  - File menu (Configuration Manager) [1-29](#)
  - Help menu (Configuration Manager) [1-38](#)
  - Launch menu [1-37](#)
  - Manage menu [1-33](#)
  - Map menu [1-32](#)
  - Policy menu (Configuration Manager) [1-32](#)
  - Report Manager menus [69-8](#)
  - Tickets menu [1-36](#)
  - Tools menu (Configuration Manager) [1-34](#)
  - View menu (Configuration Manager) [1-31](#)
- Common Services
  - licensing [10-17](#)
- communication, device
  - troubleshooting [9-8](#)
- community list objects
  - properties [55-153](#)
- configurable dashboard for IPS and FW [71-1](#)
- configuration
  - initial Security Manager [1-25](#)
  - understanding rollback [8-63](#)
- Configuration Archive
  - adding configurations from devices [8-59](#)
  - overview [8-15](#)
  - rolling back to archived configuration files [8-70](#)
  - rolling back when deploying to file [8-71](#)
  - settings [11-6](#)
  - version viewer [8-60](#)
  - viewing and comparing configuration versions [8-59](#)
  - viewing transcripts [8-62](#)
  - window [8-23](#)
- Configuration Archive command [1-34](#)
- Configuration Archive page [11-6](#)
- Configuration Engine
  - adding [3-36](#)
  - CNS call-home mode [2-10](#)
  - CNS event-bus mode [2-9](#)
  - setting up [2-7](#)
- Configuration Engine Properties dialog box [3-38](#)
- configuration files
  - deploying in non-Workflow mode [8-28](#)
  - deploying in Workflow mode [8-34, 8-39](#)
  - deploying to [8-11](#)
  - deploying to an AUS or CNS [8-41](#)
  - deploying to a TMS [8-43](#)
  - deployment process overview [8-1](#)
  - factory-default configurations [46-2](#)
  - previewing [8-44](#)
  - redeploying to devices [8-53](#)
  - rolling back after deploying to file [8-71](#)
  - rolling back to archived configurations [8-70](#)
  - rolling back to devices [8-69](#)
  - selecting [1-50](#)
  - web VPN policy discovery restrictions [3-8](#)
- configuration location, configuring for IOS IPS [45-7](#)
- Configuration Manager
  - overview [1-14](#)
  - using [1-13](#)
- configurations
  - adding to the Configuration Archive [8-59](#)
  - avoiding out-of-band changes [8-47](#)
  - detecting out-of-band changes [8-45](#)

- rollback, commands to recover from failover misconfiguration [8-68](#)
- rollback command conflicts [8-67](#)
- rolling back [8-63](#)
- rolling back Catalyst 6500/7600 [8-65](#)
- rolling back failover devices [8-65](#)
- rolling back IPS and IOS IPS [8-66](#)
- rolling back multiple context mode [8-64](#)
- understanding out-of-band changes [8-12](#)
- viewing and comparing [8-59](#)
- configuration session
  - selecting session for change reports [4-18](#)
  - viewing change reports [4-16](#)
- configuration sessions
  - discarding [4-22](#)
- configuration views [1-14](#)
- Configure dialog box [17-21](#)
- Configure DNS dialog box [17-18](#)
- Configure ESMTP dialog box [17-19](#)
- Configure Fragments dialog box [17-19](#)
- Configure Hardware Ports
  - ASA 5505 [46-61](#)
- Configure IMAP dialog box [17-20](#)
- Configure POP3 dialog box [17-20](#)
- Configure RPC dialog box [17-20](#)
- Configure SMTP dialog box [17-19](#)
- Config Version Viewer (Preview Configuration) dialog box [8-44](#)
- conflict analysis reports
  - generating [16-34](#)
- conflict detection
  - resolving conflicts [16-34](#)
  - understanding [16-28](#)
  - understanding the user interface [16-30](#)
  - using [16-28](#)
- connection
  - PIX/ASA/FWSM
    - identity-aware rules [13-21](#)
    - rules [57-5](#)
  - Connection Alias dialog box [31-25, 31-34](#)
  - Connection Profile dialog box
    - AAA tab [31-13](#)
    - General tab [31-10](#)
    - IPSec tab [31-19](#)
    - Secondary AAA tab [31-17](#)
    - SSL tab [31-22](#)
  - connection profiles
    - configuring [31-7](#)
    - configuring for Easy VPN [28-13](#)
    - properties
      - AAA [31-13](#)
      - general [31-10](#)
      - IPSec [31-19](#)
      - policy overview [31-8](#)
      - secondary AAA [31-17](#)
      - SSL [31-22](#)
    - sharing among multiple ASAs [30-8](#)
  - Connection Profiles page [31-8](#)
  - Connection Settings
    - MPC rule wizard
      - tab [57-8](#)
  - connection timeout
    - device communication settings [11-22](#)
  - Connection URL dialog box [31-25](#)
  - connectivity, testing device [9-1](#)
  - console
    - Cisco IOS routers
      - AAA tab [62-44](#)
      - Accounting tab [62-47](#)
      - Authentication tab [62-44](#)
      - Authorization tab [62-45](#)
      - Console Policy page [62-42](#)
      - Setup tab [62-42](#)
  - console port
    - Cisco IOS routers
      - defining AAA settings [62-37](#)
      - defining setup parameters [62-35](#)
  - Console timeout

- PIX/ASA/FWSM [49-1](#)
- Constant Bit Rate (CBR) [61-47](#)
- contained modules
  - showing [3-56](#)
- content rewrite rules
  - defining for SSL VPN on ASA [31-53](#)
- Context-Based Access Control
  - choosing interfaces [17-2](#)
  - configuring [17-5](#)
  - configuring identity aware [13-21](#)
  - preventing DoS attacks on IOS devices [17-4](#)
  - selecting protocols [17-3](#)
  - understanding [17-1](#)
  - understanding access rule requirements [17-4](#)
- Context Editor dialog box (IOS) [33-15](#)
- contexts
  - see “security contexts” [58-1](#)
- continuity check (CC) cells [61-50](#)
- control plane (CP)
  - defining QoS on [65-12](#)
  - policing on [65-9](#)
- Control Plane Policing [65-9](#)
- conventions [iii-lxiii](#)
- cookie challenges [26-36](#)
- Copy command [1-31, 12-9](#)
- Copy Policies Between Devices command [1-32](#)
- Copy Policies wizard [5-33](#)
- CPU settings
  - defining utilization settings [62-25](#)
  - overview [62-25](#)
- CPU Throttling Policy [11-33](#)
- CPU utilization
  - CPU Policy page [62-26](#)
- Create a Clone of Device dialog box [3-56](#)
- Create Activity dialog box [4-14](#)
- Create a Policy dialog box [5-54](#)
- Create Discovery Task dialog box [5-18](#)
- Create Extranet VPN Topology wizard
  - overview [25-65](#)
- Create Filter dialog box [1-46](#)
- Create Group Policy wizard
  - Clientless and Thin Client Access Modes page [30-24](#)
  - Full Tunnel page [30-21](#)
  - Group Policy page [30-20](#)
  - using [30-20](#)
- Create Overrides for Device dialog box [6-20](#)
- Create Policy Bundle dialog box [5-57](#)
- Create Text Object dialog box [7-32](#)
- Create Ticket dialog box [4-14](#)
- Create VPN Topology wizard
  - Device Selection page [25-32](#)
  - Edit Endpoints dialog box [25-34](#)
  - Endpoints page [25-34](#)
  - GET VPN Group Encryption page [25-53](#)
  - GET VPN Peers page [25-59](#)
  - High Availability page [25-51](#)
  - Name and Technology page [25-30](#)
  - overview [25-28](#)
  - VPN Defaults page [25-61](#)
- credential objects
  - attributes [28-9](#)
- credentials
  - configuring on firewall devices [48-15](#)
  - device manager validation [71-14](#)
  - IPS module [3-20](#)
  - service module [3-19](#)
  - testing [9-1](#)
  - understanding device [3-4](#)
- Credentials page
  - HTTPS port number
    - overriding with HTTP policy [3-47](#)
- Credentials page, device properties [3-45](#)
- crypto maps
  - understanding [26-18](#)
- CSC
  - MPC rule wizard
    - tab [57-8](#)
- CSDM Policy Editor dialog box [32-46](#)

- CS-MARS
    - access to Security Manager [71-37](#)
    - configuring servers [11-7](#)
    - discovering or changing controller used by device [71-39](#)
    - events
      - historical and real-time lookup [71-41](#)
      - looking up [71-41](#)
    - integrating with Security Manager [71-36](#)
    - integration with Security Manager [71-36](#)
    - looking up Security Manager policies based on events [71-45](#)
    - NetFlow [71-47](#)
    - query
      - troubleshooting [71-40](#)
    - registering in Security Manager [71-38](#)
    - supported log messages [71-46](#)
    - viewing access rule events [71-42](#)
    - viewing IPS signature events [71-44](#)
  - CS-MARS page [11-7](#)
  - CSMDiagnostics.zip
    - setting debug options [11-11](#)
  - CSMDiagnostics.zip file, creating [10-28](#)
  - CSM Mobile [71-11](#)
    - settings page [11-9](#)
  - CSM Monitor widget [71-7](#)
  - CSM tab, Licensing page [11-57](#)
  - CSV (comma-separated values) files
    - supported formats for device inventory [10-9](#)
  - CSV file
    - export HPM data as [70-29](#)
  - Customize Desktop Settings page [11-10](#)
  - Customized Toolbar command [1-32](#)
  - Custom Protocol dialog box [17-21](#)
  - Custom Report List command (Report Manager) [69-9](#)
  - Cut command [1-31, 12-9](#)
  - cut-through proxy, configuring [13-23](#)
  - CX
    - ASA module
      - detecting [71-21](#)
  - CXSC
    - MPC rule wizard
      - tab [57-8](#)
- 
- D**
- Dashboard
    - CSM Mobile settings page [11-9](#)
  - Dashboard tabs
    - default view [71-8](#)
    - re-arranging [71-8](#)
  - Dashboard widgets for device health trends [71-2](#)
  - database
    - backing up [10-25](#)
    - backing up and restoring [10-24](#)
    - generating partial backups for TAC [10-30](#)
    - restoring [10-27](#)
  - DCE/RPC policy map objects
    - creating [17-21](#)
    - properties [17-28](#)
  - DCS.properties file
    - DCS.doSerialAccessForFWSMVCs property [9-17](#)
    - DCS.FWSM.checkThreshold property [9-17](#)
    - SSH settings [9-7](#)
    - warning message expression properties [9-10](#)
  - DDNS
    - PIX/ASA/FWSM [52-18](#)
      - add interface rules [52-19](#)
      - update methods [52-19](#)
      - update methods, add/edit [52-20](#)
  - dead-peer detection (DPD) [26-32](#)
  - debugging
    - configuring debug levels [11-11](#)
  - Debug Options page [11-11](#)
  - Default Report Settings command (Report Manager) [69-9](#)
  - defaults, configuring [11-1](#)
  - Delete Device command [1-30](#)
  - Delete Map command [1-33](#)

- Delete Map dialog box [35-10](#)
- Delete Row command [1-31](#)
- Denial of Service (DoS)
  - preventing in SMTP using zone based firewall [21-26](#)
- denial of service (DoS)
  - preventing using unicast reverse path forwarding (RFP) [61-20](#)
- Denial of Service (DoS) attacks
  - configuring inspection settings to mitigate [17-108](#)
  - preventing on IOS devices using inspection [17-4](#)
- denial of service (DoS) attacks
  - preventing using IKEv2 cookie challenge [26-36](#)
- deny
  - inspection
    - rules [17-5](#)
- Deploy command [1-30](#)
- Deploy Job dialog box [8-39](#)
- deployment
  - Add Other Devices dialog box [8-58](#)
  - Auto Update Server [8-41](#)
  - Catalyst 6500/7600 devices [8-28](#)
  - changes not deployed when using schedules [8-55](#)
  - changing device message severity level to ignore errors [9-10](#)
  - changing FWSM multiple-context deployment to serial [9-17](#)
  - Cisco Networking Services configuration engine [8-41](#)
  - clearing XLATE on [59-1](#)
  - configuration files, to [8-11](#)
  - configurations [8-28](#)
  - creating jobs in Workflow mode [8-35](#)
  - creating or editing schedules [8-55](#)
  - Deployment Manager window [8-16](#)
  - device communication settings [9-4](#)
  - devices, directly to [8-9](#)
  - devices, through intermediate server [8-10](#)
  - Edit Deploy Method dialog box [8-30](#)
  - Edit Selected Deployment Method dialog box [8-30](#)
  - error attempting to remove unreferenced object [9-12](#)
  - errors
    - OS version mismatches [8-13](#)
    - generating status report [10-30](#)
    - handling OS version mismatches [8-13](#)
    - managing [8-1](#)
    - methods [8-8](#)
    - minimum memory errors for ASA 8.3+ [9-12](#)
    - non-Workflow mode [8-3](#)
    - optimizing access rules [16-46](#)
    - out-of-band changes
      - avoiding [8-47](#)
      - detecting and analyzing [8-45](#)
      - understanding [8-12](#)
    - process overview [8-1](#)
    - rolling back archived configurations [8-70](#)
    - rolling back configurations [8-63](#)
    - rolling back configurations, Catalyst 6500/7600 [8-65](#)
    - rolling back configurations, command conflicts [8-67](#)
    - rolling back configurations, commands to recover from failover misconfiguration [8-68](#)
    - rolling back configurations, failover devices [8-65](#)
    - rolling back configurations, IPS and IOS IPS devices [8-66](#)
    - rolling back configurations, multiple context mode [8-64](#)
    - rolling back configuration when deploying to file [8-71](#)
    - rolling back to last deployed configuration [8-69](#)
    - setting debug options [11-11](#)
    - suspending or resuming schedules [8-58](#)
    - system settings [11-13](#)
  - task flow
    - non-Workflow mode [8-3](#)
    - Workflow mode [8-5](#)
  - tips for successful jobs [8-27](#)
  - TMS server [8-43](#)
  - troubleshooting [9-1, 9-9](#)
    - ADSL or PVC deployment failures [9-15](#)
    - AUS problems [9-18](#)
    - Catalyst interface settings [9-16](#)

- Catalyst internal VLANs [9-16](#)
- Catalyst switch and modules [9-16](#)
- Configuration Engine problems [9-18](#)
- Error Writing to Server messages [9-15](#)
- HTTP Response Code 500 messages [9-15](#)
- layer 2 interfaces [9-15](#)
- mixing deployment methods with routers and VPNs [9-14](#)
- router interface settings [9-14](#)
- routers [9-14](#)
- Security Manager cannot contact device [9-12](#)
- VPNs with routing processes [9-13](#)
- troubleshooting device communication [9-8](#)
- troubleshooting router connection failures [2-2](#)
- troubleshooting SSL certificate errors [9-5](#)
- troubleshooting VRF-aware IPsec on Catalyst 6500/7600 devices [25-17](#)
- understanding [8-1](#)
- understanding configuration rollback [8-63](#)
- using a Cisco Networking Services (CNS) server [8-41](#)
- viewing device details [8-26](#)
- viewing job summary [8-26](#)
- viewing status and history for jobs and schedules [8-26](#)
- viewing transcripts [8-62](#)
- Warning - Partial VPN Deployment dialog box [8-32](#)
- Workflow mode [8-5, 8-34, 8-39](#)
- working with [8-25](#)
- Deployment—Create or Edit a Job dialog box [8-35](#)
- deployment jobs
  - aborting [8-55](#)
  - approval [8-7](#)
  - approving [8-39](#)
  - creating and editing in non-Workflow mode [8-28](#)
  - creating and editing in Workflow mode [8-35](#)
  - Deployment Manager [8-16](#)
  - discarding [8-41](#)
  - including devices in [8-8](#)
  - multiple users [8-8](#)
  - redeploying [8-53](#)
  - rejecting [8-39](#)
  - states
    - non-Workflow mode [8-4](#)
    - Workflow mode [8-6](#)
  - submitting [8-38](#)
  - viewing history [8-26](#)
- Deployment Manager
  - overview [8-15, 8-16](#)
- Deployment Manager window [8-16](#)
  - Deployment Schedules tab [8-21](#)
- Deployment page
  - PIX/ASA/FWSM Platform
    - clear xlate [59-1](#)
- Deployment Schedules tab [8-21](#)
- Deployments command [1-34](#)
- Deployment Settings page [11-13](#)
- Deployment Status Details dialog box [8-32](#)
- Deployment Workflow Commentary dialog boxes [8-20](#)
- Deploy Saved Changes dialog box [8-28](#)
- DES encryption algorithm
  - in IKE proposals [26-6](#)
- Designated Router
  - PIX/ASA/FWSM [54-12](#)
- Destination Contents dialog box [12-14](#)
- Dest Port Map dialog box [41-12](#)
- Detect Out of Band Changes command [1-35](#)
- device
  - AAA administration [48-4](#)
  - firewall types [46-1](#)
  - viewing inventory status [71-12](#)
- Device Access
  - FWSM
    - Resources, add/edit [51-3](#)
  - PIX/ASA/FWSM [49-1](#)
    - console timeout [49-1](#)
    - host name [51-1](#)
    - HTTP configuration [49-3](#)
    - HTTP page [49-2](#)

- ICMP rules [49-4](#)
- ICMP rules, add/edit [49-5](#)
- Management Access interface [49-6](#)
- Secure Shell, add/edit host [49-8](#)
- Secure Shell (SSH) [49-7](#), [49-8](#)
- Server Access [52-1](#)
- SNMP host access [49-23](#)
- SNMP page [49-17](#)
- SNMP Trap configuration [49-19](#)
- Telnet configuration [49-30](#)
- Telnet page [49-30](#)
- user accounts [51-7](#)
- user accounts, add/edit [51-7](#)
- device access policies
  - defining [62-14](#)
- Device Admin
  - FWSM
    - Resources [51-3](#)
- device administration policies
  - configuring on firewall devices [48-1](#)
- device authentication
  - adding SSL thumbprints manually [9-5](#)
  - SSL certificate default configuration [11-22](#)
- Device Blacklist dialog box [19-15](#)
- device clusters [3-9](#)
- device communication
  - changing device message severity level [9-10](#)
  - managing settings [9-4](#)
  - routers without K8/K9 crypto image [9-8](#)
  - Security Manager cannot contact device after deployment [9-12](#)
  - troubleshooting failures [9-8](#)
- Device Communication page [11-21](#)
- device communications
  - troubleshooting [9-1](#)
- device communication settings
  - connection timeout [11-22](#)
  - retry count [11-22](#)
  - socket read timeout [11-22](#)
- Device Connectivity Test dialog box [9-3](#)
- device credentials
  - understanding [3-4](#)
- Device Credentials page [3-45](#)
- Device Delete Validation dialog box [3-58](#)
- device groups [3-59](#), [3-62](#)
  - adding or removing devices [3-63](#)
  - creating group types [3-61](#)
  - deleting groups or types [3-62](#)
  - understanding [3-59](#)
- Device Groups page [3-49](#), [11-24](#)
- device health trends in Dashboard [71-2](#)
- Device Information page - Add Device from File [3-33](#)
- Device Information page - Configuration File [3-23](#)
- Device Information page - Network [3-14](#)
- Device Information page- New Device [3-27](#)
- device inventory
  - exporting
    - DCR, CS-MARS, Security Manager formats [10-6](#)
    - device with policies [10-6](#)
    - overview [10-6](#)
    - supported CSV formats [10-9](#)
    - using command line utility [10-10](#)
  - importing
    - device with policies [10-13](#)
  - importing with policies [10-13](#)
  - managing [3-1](#)
  - sharing with PRSM [71-22](#)
  - testing device connectivity [9-1](#)
  - understanding [3-1](#)
  - understanding contents [3-3](#)
  - understanding device clusters [3-9](#)
  - understanding generic devices [3-8](#)
  - working with [3-36](#)
- device manager
  - access rule look up [71-17](#)
  - ASDM [71-15](#)
    - access rule look-up [71-18](#)



- credentials [71-14](#)
- IDM [71-15](#)
- PDM [71-15](#)
- prerequisites [71-16](#)
- SDM [71-16](#)
  - access rule look-up [71-19](#)
- starting from HPM [70-3, 70-26](#)
- starting from Security Manager [71-14](#)
- troubleshooting [71-16](#)
- xdm-launcher.exe [71-16](#)
- Device Manager command [1-37](#)
- Device Properties
  - Cluster Information page [3-50](#)
  - Credentials page [3-45](#)
  - Device Groups page [3-49](#)
  - General page [3-41](#)
  - Policy Object Override pages
    - general reference [3-51](#)
- device properties
  - changes with policy effects [3-53](#)
  - changing critical [3-52](#)
  - image version changes with no policy effects [3-52](#)
  - understanding [3-6](#)
  - viewing or changing [3-40](#)
- Device Properties command [1-34](#)
- Device Properties page
  - creating object overrides [6-19](#)
  - deleting overrides [6-21](#)
  - overview [3-40](#)
- device response
  - to appear as an error message [9-10](#)
- devices
  - adding [3-6](#)
  - adding configurations to the Configuration Archive [8-59](#)
  - adding from configuration files [3-21](#)
  - adding from inventory file [3-31](#)
  - adding from network [3-12](#)
  - adding local rules to shared policies [5-45](#)
  - adding manually [3-26](#)
  - adding or changing modules [3-40](#)
  - assigning shared policies [5-44](#)
  - avoiding out-of-band changes [8-47](#)
  - changing critical properties [3-52](#)
  - changing those selected for reports [69-22](#)
  - cloning or duplicating [3-56](#)
  - cloning shared policies [5-47](#)
  - communication requirements [2-1](#)
  - communication settings and certificates [9-4](#)
  - configuring ASA licenses [2-11](#)
  - configuring IOS licenses [2-12](#)
  - configuring local policies [5-31](#)
  - copying policies between [5-33](#)
  - creating policy object overrides [6-19](#)
  - deleting from inventory [3-57](#)
  - deleting policy object overrides [6-21](#)
  - deployment through intermediate server [8-10](#)
  - deployment to [8-9](#)
  - detecting out-of-band changes [8-45](#)
  - discovering or changing CS-MARS controller [71-39](#)
  - discovering policies [5-12](#)
  - discovering policies on existing devices [5-15](#)
  - dynamic IP addresses [3-36](#)
  - image version changes with no policy effects [3-52](#)
  - including in deployment jobs or schedules [8-8](#)
  - including unmanaged or non-Cisco in a VPN [25-11](#)
  - inheriting policy rules [5-47](#)
  - maps
    - adding existing managed [35-16](#)
    - adding new managed [35-16](#)
    - displaying devices from Device View [35-16](#)
    - displaying managed [35-16](#)
    - removing managed [35-16](#)
    - showing containment for Catalyst switches, ASA, PIX, IPS devices [35-16](#)
  - modifying policy assignment [5-49](#)
  - modifying shared policies [5-49](#)
  - naming conventions [3-3](#)

- overview of monitoring [1-7](#)
  - policy status icons [5-30](#)
  - preparing for management [2-1](#)
  - property changes with policy effects [3-53](#)
  - redeploying configuration files to [8-53](#)
  - redeploying configurations to replaced hardware [8-53](#)
  - renaming policies [5-48](#)
  - replacing policies [5-44](#)
  - rolling back configurations [8-69, 8-70, 8-71](#)
  - selecting in site-to-site VPNs [25-32](#)
  - selecting multiple [1-45](#)
  - sharing multiple policies [5-42](#)
  - sharing with PRSM [71-22](#)
  - showing contained modules [3-56](#)
  - system variables [7-7](#)
  - testing connectivity [9-1](#)
  - troubleshooting communication [9-8](#)
  - troubleshooting communication and deployment [9-1](#)
  - troubleshooting device discovery failures [3-7](#)
  - unassigning policies [5-36](#)
  - understanding out-of-band changes [8-12](#)
  - unsharing policies [5-43](#)
  - using global search to find specific devices [1-42](#)
  - what counts as a device [3-3](#)
- device selector
- filtering [1-45](#)
- Device Selector dialog box [1-45](#)
- Device Server Assignment dialog box [9-9](#)
- device status view
- working with [3-63](#)
- Device Status View command [1-31](#)
- Device view
- adding local rules to shared policies [5-45](#)
  - assigning shared policies [5-44](#)
  - cloning shared policies [5-47](#)
  - configuring local policies [5-31](#)
  - configuring VPN topologies [25-19](#)
  - copying policies between devices [5-33](#)
  - inheriting policies [5-47](#)
  - managing policies [5-30](#)
  - modifying policy assignments [5-49](#)
  - modifying shared policies [5-49](#)
  - overview [1-14](#)
  - policy banner [5-38](#)
  - policy shortcut menu [5-40](#)
  - policy status icons [5-30](#)
  - renaming policies [5-48](#)
  - sharing local policies [5-41](#)
  - sharing multiple policies [5-42](#)
  - unassigning policies [5-36](#)
  - understanding basic policy management [5-31](#)
  - understanding shared policies [5-37](#)
  - unsharing policies [5-43](#)
- device view
- understanding [3-1](#)
- Device View command [1-31](#)
- Device Whitelist dialog box [19-15](#)
- DHCP
- Cisco IOS routers
    - defining address pools [62-91](#)
    - defining policies [62-90](#)
    - DHCP Database dialog box [62-94](#)
    - DHCP Policy page [62-92](#)
    - IP Pool dialog box [62-94](#)
    - overview [62-87](#)
    - understanding database agents [62-88](#)
    - understanding option 82 [62-89](#)
    - understanding relay agents [62-88](#)
    - understanding secured ARP [62-89](#)
  - configuring passthrough for IOS devices [23-3](#)
  - PIX/ASA/FWSM [52-10](#)
    - add/edit servers [52-12](#)
    - advanced configuration [52-13](#)
    - configuring DHCP servers [52-10](#)
    - server options [52-13](#)
  - traffic blocked [9-15](#)
- DHCP relay

- interface-specific [46-41](#)
- Option 82 [46-41, 52-5](#)
- PIX/ASA/FWSM [52-5, 52-7](#)
  - add/edit agent [52-6](#)
  - add/edit server [52-7](#)
- Trusted Interface (Option 82) [46-41, 52-5](#)
- DHCPv6 relay
  - PIX/ASA/FWSM
    - add/edit agent [52-9](#)
    - add/edit server [52-9](#)
- diagnostics
  - setting debug options [11-11](#)
- diagnostics file, creating [10-28](#)
- dial backup
  - configuring in Easy VPN [28-2](#)
  - configuring in VPN [25-39](#)
  - configuring VPN advanced settings [25-40](#)
- Dial Backup Settings dialog box [25-40](#)
- dialer interfaces
  - defining BRI properties [61-29](#)
  - defining profiles [61-27](#)
  - Dialer Physical Interface dialog box [61-32](#)
  - Dialer Policy page [61-30](#)
  - Dialer Profile dialog box [61-31](#)
  - on Cisco IOS routers [61-27](#)
- Diffie-Hellman groups
  - in IKE proposals [26-7](#)
- Digital Subscriber Line (DSL) [61-33](#)
- digital subscriber line-access multiplexer (DSLAM) [61-34](#)
- directed broadcasts
  - enabling [61-20](#)
- Disable/enable NAT rules [24-34, 24-46](#)
- Discard Activity command [1-36](#)
- Discard Activity dialog box [4-22](#)
- Discard command [1-30](#)
- Discard Deployment Job dialog box [8-20](#)
- Discard Ticket command [1-37](#)
- Discard Ticket dialog box [4-22](#)
- discovering
  - remote access VPNs [30-12](#)
  - site-to-site VPNs [25-24](#)
- Discover Policies on Device command [1-32](#)
- Discover VPN Policies command [1-32](#)
- Discover VPN Policies wizard [25-24](#)
- discovery
  - default behavior settings [11-25](#)
  - generating status report [10-30](#)
  - invalid certificate error [9-7](#)
  - overview [1-20](#)
  - security certificate error [9-5, 9-6](#)
  - setting debug options [11-11](#)
- Discovery Settings page [11-25](#)
- Discovery Status dialog box [5-23](#)
- discovery task
  - frequently asked questions [5-27](#)
  - starting [5-15](#)
  - viewing status [5-22](#)
- disk space, monitoring event data store [68-34](#)
- Display Actual Size command [1-33](#)
- Distributed Traffic Shaping (DTS) [65-7](#)
- DMVPN (Dynamic Multipoint VPN)
  - advantages of using with GRE [27-11](#)
  - configuring [27-12](#)
  - configuring GRE modes [27-12](#)
  - large scale DMVPNs
    - configuring [27-16](#)
    - configuring server load balancing [27-17](#)
  - overview [27-1, 27-9](#)
  - spoke-to-spoke connections [27-10](#)
  - supported platforms [25-9](#)
  - understanding [27-10](#)
- DNS
  - configuring for inspection rules [17-18](#)
- PIX/ASA/FWSM
  - add/edit server group [52-16](#)
  - add server [52-17](#)
  - servers page [52-14](#)

- DNS class map objects
  - creating [17-21](#)
  - match criteria [17-34](#)
- DNS policy map objects
  - creating [17-21](#)
  - match conditions and actions [17-34](#)
  - properties [17-31](#)
- DNS servers
  - configuring for IPS global correlation [36-24](#)
- DNS snooping [19-6](#)
- dock
  - report windows [69-29](#)
  - view windows [68-37](#)
- Dock Map View command [1-33](#)
- documentation
  - conventions [iii-lxiii](#)
- Domain AD Server dialog box [13-10](#)
- Domain Name System (DNS)
  - Cisco IOS routers
    - defining policies [62-75](#)
    - DNS Policy page [62-76](#)
    - IP Host dialog box [62-76](#)
    - overview [62-74](#)
- do not ask warnings, resetting [11-10](#)
- drill-down reports [69-26](#)
- DSLAM [61-34](#)
- duration
  - VPN user reports [69-16](#)
- dynamic access policies
  - attributes [32-4](#), [32-7](#)
  - configuring [32-2](#)
  - managing [32-1](#)
  - understanding [32-1](#)
- dynamic access policies (DAP) [32-30](#)
- Dynamic Access Policy page
  - Add/Edit Dynamic Access Policy dialog box
    - Add/Edit DAP Entry dialog box [32-21](#)
    - Add/Edit DAP Entry dialog box > AAA Attributes Cisco [32-22](#)
    - Add/Edit DAP Entry dialog box > AAA Attributes LDAP [32-24](#)
    - Add/Edit DAP Entry dialog box > AAA Attributes RADIUS [32-25](#)
    - Add/Edit DAP Entry dialog box > Anti-Spyware [32-26](#)
    - Add/Edit DAP Entry dialog box > Anti-Virus [32-27](#)
    - Add/Edit DAP Entry dialog box > AnyConnect Identity [32-28](#)
    - Add/Edit DAP Entry dialog box > Application [32-29](#)
    - Add/Edit DAP Entry dialog box > File [32-31](#)
    - Add/Edit DAP Entry dialog box > NAC [32-32](#)
    - Add/Edit DAP Entry dialog box > Operating System [32-33](#)
    - Add/Edit DAP Entry dialog box > Personal Firewall [32-34](#)
    - Add/Edit DAP Entry dialog box > Policy [32-35](#)
    - Add/Edit DAP Entry dialog box > Process [32-36](#)
    - Add/Edit DAP Entry dialog box > Registry [32-37](#)
    - Advanced Expressions tab [32-44](#)
    - Logical Operations tab [32-42](#)
    - Main tab [32-14](#)
  - Dynamic Access Policy page (ASA) [32-11](#)
    - Cisco Secure Desktop Manager Policy Editor dialog box [32-46](#)
  - Dynamic Access policy page (ASA) > Add/Edit Dynamic Access Policy dialog box [32-12](#)
  - Dynamic Blacklist Configuration tab [19-10](#)
  - dynamic crypto maps [26-18](#)
  - dynamic filter snooping (DNS)
    - enabling [17-18](#)
  - Dynamic Multipoint VPN (DMVPN)
    - mandatory and optional policies [25-6](#)
  - dynamic NAT
    - Cisco IOS routers [24-10](#)
  - Dynamic Translation Rule
    - PIX/ASA/FWSM [24-22](#)
      - add/edit [24-22](#)
  - dynamic VTI
    - configuring in Easy VPN [28-12](#)

in remote access VPNs [33-7](#)  
 understanding use in Easy VPN [28-2](#)

## E

### Easy VPN

configuration modes [28-3](#)  
 configuration overview [28-5](#)  
 configuring client connection characteristics [28-7](#)  
 configuring dial backup [28-2](#)  
 configuring dynamic VTI [28-12](#)  
 configuring high availability [28-2](#)  
 connection profile policies [28-13](#)  
 connection profiles (ASA, PIX 7+) [31-8](#)  
 extended authentication (xauth) [28-4](#)  
 important configuration notes [28-6](#)  
 IPsec proposals [28-10](#)  
 mandatory and optional policies [25-6](#)  
 overview [28-1](#)  
 supported platforms [25-9](#)  
 understanding [28-1](#)  
 understanding dynamic VTI [28-2](#)  
 user group policies [28-14](#)

### ECMP [22-4](#)

Edit AAA Option dialog box [15-19](#)  
 Edit AAA Rule dialog box [15-13](#)  
 Edit AAA Server dialog box [6-33](#)  
 Edit AAA Server Group dialog box [6-49](#)  
 Edit Access Rule dialog box [16-14](#)  
 Edit Actions dialog box [39-12](#)  
 Edit activity state [4-4](#)  
 Edit AOL Class Map dialog box [17-27, 21-19](#)  
 Edit A Port Forwarding Entry dialog box [34-41](#)  
 Edit ASA Group Policies dialog box  
   client configuration settings [34-7](#)  
   client firewall attributes [34-7](#)  
   connection settings [34-33](#)  
   DNS/WINS settings [34-29, 34-30](#)  
   hardware client attributes [34-9](#)

IPsec settings [34-11](#)  
 overview [34-1](#)  
 split tunneling settings [34-31](#)  
 SSL VPN clientless settings [34-13](#)  
 SSL VPN full client settings [34-19](#)  
 SSL VPN settings [34-25](#)  
 technology settings [34-1](#)

Edit A Smart Tunnel Entry dialog box [34-66, 34-69](#)  
 Edit AS Path Entry dialog box [55-152](#)  
 Edit AS Path Object dialog box [55-151](#)  
 Edit Auto Signon Rules dialog box [34-27](#)  
 Edit Auto Update Settings dialog box [11-54](#)  
 Edit Category dialog box [12-14](#)  
 Edit Cisco Secure Desktop Configuration dialog box [34-34](#)  
 Edit Client Access Rules dialog box [34-12](#)  
 Edit Client Update dialog box [34-80](#)  
 Edit Column dialog box [34-60](#)  
 Edit Community List Entry dialog box [55-154, 55-155](#)  
 Edit Community List Object dialog box [55-153](#)  
 Edit Custom Pane dialog box [34-61](#)  
 Edit DCE/RPC Map dialog box [17-28](#)  
 Edit Deploy Method dialog box [8-30](#)  
 Edit Description dialog box [12-14](#)  
 Edit Destinations dialog box [12-11](#)  
 Edit Device Groups command [1-30](#)  
 Edit Device Groups dialog box [3-61](#)  
 Edit DNS Class Map dialog box [17-27](#)  
 Edit DNS Map dialog box  
   Filtering tab [17-33](#)  
   overview [17-31](#)  
   Protocol Conformance tab [17-32](#)  
 Edit eDonkey Class Map dialog box [17-27, 21-19](#)  
 Edit Endpoints dialog box  
   FWSM tab [25-46](#)  
   overview [25-34](#)  
   Protected Networks tab [25-45](#)  
   VPN Interface tab [25-36, 25-49](#)

- VPNSM/VPN SPA/VSPA settings, VPN Interface tab [25-41](#)
- VRF Aware IPsec tab [25-47](#)
- Edit ESMTP Map dialog box [17-37](#)
- Edit Extended Access Control Entry dialog box [6-61](#)
- Edit Extended Access List dialog box [6-59](#)
- Edit External Filter dialog box [21-41](#)
- Edit Extranet VPN dialog box
  - overview [25-65](#)
- Edit FastTrack Class Map dialog box [17-27, 21-19](#)
- Edit Fidelity dialog box [39-13](#)
- Edit File Object dialog box [34-36](#)
- Edit FlexConfig dialog box [7-30](#)
- Edit FTP Class Map dialog box [17-27](#)
- Edit FTP Map dialog box [17-40](#)
- Edit Gnutella Class Map dialog box [17-27, 21-19](#)
- Edit Group Member dialog box [29-21](#)
- Edit GTP Map dialog box [17-43](#)
- Edit H.323 Class Map dialog box [17-27, 21-19](#)
- Edit H.323 Map dialog box [17-48, 21-34](#)
- Edit HSI Endpoint IP Address dialog box [17-51](#)
- Edit HSI Group dialog box [17-50](#)
- Edit HTTP Class Map dialog box [17-27, 21-19](#)
- Edit HTTP Map dialog box [21-34](#)
  - ASA 7.1.x, PIX 7.1.x, FWSM 3.x, IOS devices
    - Entity Length tab [17-55](#)
    - Extension Request Method tab [17-58](#)
    - General tab [17-54](#)
    - overview [17-53](#)
    - Port Misuse tab [17-59](#)
    - RFC Request Method tab [17-57](#)
    - Transfer Encoding tab [17-60](#)
  - ASA 7.2+ and PIX 7.2+ devices [17-61](#)
- Edit ICQ Class Map dialog box [17-27, 21-19](#)
- Edit IKEv1 Proposal dialog box [26-10](#)
- Edit IKEv2 Proposal dialog box [26-13](#)
- Edit IMAP Class Map dialog box [17-27, 21-19](#)
- Edit IMAP Map dialog box [21-34](#)
- Edit IM Class Map dialog box [17-27](#)
- Edit IM Map dialog box [21-34](#)
  - ASA and PIX device [17-67](#)
  - IOS device [17-70](#)
- Edit Inspect/Application FW Rule wizard
  - Address and Port page [17-12](#)
  - Inspected Protocol page [17-16](#)
  - Match Traffic page [17-10](#)
- Edit Inspect Parameter Map dialog box [21-31](#)
- Edit Interfaces dialog box [12-13](#)
- Edit IP Options Map dialog box [17-71](#)
- Edit IPsec Pass Through Map dialog box [17-77](#)
- Edit IPsec Transform Set dialog box [26-26](#)
- Edit IPv4 Pool Object dialog box [6-92](#)
- Edit IPv6 Map dialog box [17-74, 17-88](#)
- Edit IPv6 Pool Object dialog box [6-93](#)
- Edit Kazaa2 Class Map dialog box [17-27, 21-19](#)
- Edit Key Server dialog box [29-19](#)
- Edit Language dialog box [34-55](#)
- Edit LDAP Attribute Map dialog box [6-46](#)
- Edit LDAP Attribute Map Value dialog box [6-47](#)
- Edit Load Balancing Parameters dialog box [27-17](#)
- Edit Local Web Filter Class Map dialog box [17-27, 21-19](#)
- Edit Local Web Filter Parameter Map dialog box [21-38](#)
- Edit MAC Address Pool Object dialog box [6-94](#)
- Edit Map Value dialog box [6-47](#)
- Edit Match Condition and Action dialog box
  - DNS policy maps [17-34](#)
  - ESMTP policy maps [17-38](#)
  - FTP policy maps [17-41](#)
  - GTP policy maps [17-46](#)
  - H.323 (IOS) policy maps [21-35](#)
  - H.323 policy maps [17-51](#)
  - HTTP (Zone Based IOS) policy maps [21-35](#)
  - HTTP policy maps [17-62](#)
  - IM (Zone Based IOS) policy maps [21-35](#)
  - IMAP policy maps [21-35](#)
  - IM policy maps [17-68](#)
  - IPv6 policy maps [17-75, 17-89](#)
  - P2P policy maps [21-35](#)

- POP3 policy maps [21-35](#)
- SIP (IOS) policy maps [21-35](#)
- SIP policy maps [17-82, 17-92](#)
- Skippy policy maps [17-86](#)
- SMTP policy maps [21-35](#)
- Sun RPC policy maps [21-35](#)
- Web Filter policy maps [21-35](#)
- Edit Match Criterion dialog box
  - AOL class maps [21-21](#)
  - DNS class maps [17-34](#)
  - eDonkey class maps [21-21](#)
  - FastTrack class maps [21-21](#)
  - FTP class maps [17-41](#)
  - Gnutella class maps [21-21](#)
  - H.323 (IOS) class maps [21-22](#)
  - H.323 class maps [17-51](#)
  - HTTP (IOS) class maps [21-22](#)
  - HTTP class maps [17-62](#)
  - ICQ class maps [21-21](#)
  - IMAP class maps [21-24](#)
  - IM class maps [17-68](#)
  - Kazaa2 class maps [21-21](#)
  - Local Web Filter class maps [21-29](#)
  - MSN Messenger class maps [21-21](#)
  - N2H2 class maps [21-30](#)
  - POP3 class maps [21-24](#)
  - SIP (IOS) class maps [21-25](#)
  - SIP class maps [17-82, 17-92](#)
  - SMTP class maps [21-26](#)
  - Sun RPC class maps [21-29](#)
  - Websense class maps [21-30](#)
  - Windows Messenger class maps [21-21](#)
  - Yahoo Messenger class maps [21-21](#)
- Edit menu
  - Configuration Manager [1-31](#)
- Edit MSN Messenger Class Map dialog box [17-27, 21-19](#)
- Edit N2H2 Parameter Map dialog box [21-39](#)
- Edit N2H2 Web Filter Class Map dialog box [17-27, 21-19](#)
- Edit NAT Rule dialog box
  - ASA 8.3+ [24-36](#)
- Edit NetBIOS Map dialog box [17-78](#)
- Edit Network/Host dialog box
  - General tab [6-83](#)
  - NAT tab [24-42](#)
- Edit Options dialog box [16-17](#)
- Edit P2P Map dialog box [21-34](#)
- Edit Permit Response dialog box [17-45](#)
- Edit Per-Session NAT Rule dialog box [24-47](#)
- Edit PIX/ASA/FWSM Web Filter Rule dialog box [18-5](#)
- Edit PKI Enrollment dialog box
  - CA Information tab [26-58](#)
  - Certificate Subject Name tab [26-65](#)
  - Enrollment Parameters tab [26-62](#)
  - overview [26-56](#)
  - Trusted CA Hierarchy tab [26-66](#)
- Edit Policy Assignments command [1-32](#)
- Edit Policy List Object dialog box [55-143](#)
- Edit POP3 Class Map dialog box [17-27, 21-19](#)
- Edit Port Forwarding List dialog box [34-39](#)
- Edit Port List dialog box [6-101](#)
- Edit Prefix List Entry dialog box [55-148, 55-150](#)
- Edit Prefix List Object dialog box [55-146, 55-148](#)
- Edit Protocol Info Parameter Map dialog box [21-33](#)
- Edit Regular Expression dialog box [17-105](#)
- Edit Regular Expression Group dialog box [17-105](#)
- Edit Route Map Entry dialog box [55-137](#)
- Edit Route Map Object dialog box [55-136](#)
- Edit Row command [1-31](#)
- Edit Rule Section dialog box [12-22](#)
- Edit Security Association Dialog Box [25-57](#)
- Edit Selected Deployment Method dialog box [8-30](#)
- Edit Server dialog box
  - Protocol Info Parameter maps [21-34](#)
- Edit Server Group dialog box [15-19](#)
- Edit Service dialog box [6-103](#)
- Edit Services dialog box [12-13](#)
- Edit Signature dialog box [39-15](#)

- Edit Signature Parameter—Component List dialog box [39-29](#)
- Edit Signature Parameters dialog box [39-24](#)
- Edit Single Sign On Server dialog boxes [34-41](#)
- Edit SIP Class Map dialog box [17-27, 21-19](#)
- Edit SIP Map dialog box [17-80, 17-90, 17-99, 17-100, 21-34](#)
- Edit Skinny Map dialog boxes [17-84](#)
- Edit SLA Monitor dialog box [51-10](#)
- Edit Smart Tunnel Auto Signon Entry dialog box [34-71](#)
- Edit Smart Tunnel Auto Signon Lists dialog box [34-70](#)
- Edit Smart Tunnel Lists dialog box [34-65, 34-68](#)
- Edit SMTP Class Map dialog box [17-27, 21-19](#)
- Edit SMTP Map dialog box [21-34](#)
- Edit SNMP Map dialog box [17-87](#)
- Edit Sources dialog box [12-11](#)
- Edit SSL VPN Customization dialog box [34-50](#)
  - Applications [34-59](#)
  - Copyright Panel [34-57](#)
  - Custom Panes [34-60](#)
  - Full Customization [34-58](#)
  - Home Page [34-61](#)
  - Informational Panel [34-56](#)
  - Language [34-53](#)
  - Logon Form [34-55](#)
  - Logout Page [34-62](#)
  - Title Panel [34-52](#)
  - Toolbar [34-58](#)
- Edit SSL VPN Gateway dialog box [34-63](#)
- Edit Standard Access Control Entry dialog box [6-64](#)
- Edit Standard Access List dialog box [6-59](#)
- Edit Sun RPC Class Map dialog box [17-27, 21-19](#)
- Edit Sun RPC Map dialog box [21-34](#)
- Edit TCP Map dialog box [57-22](#)
- Edit TCP Option Range Dialog Box [57-25](#)
- Edit Text Object dialog box [7-32](#)
- Edit Time Range dialog box [6-71](#)
- Edit Traffic Flow dialog box [57-18](#)
- Edit Translated Address dialog box [24-28](#)
- Edit Transparent EtherType dialog box [23-6](#)
- Edit Transparent Firewall Rule dialog box [23-5](#)
- Edit Transparent Mask dialog box [23-7](#)
- Edit Trend Content Filter Class Map dialog box [17-27, 21-19](#)
- Edit Trend Parameter Map dialog box [21-42](#)
- Edit Unified Access Control Entry dialog box [6-67](#)
- Edit Update Server Settings dialog box [11-52](#)
- Edit URL Domain Name dialog box [21-45](#)
- Edit URLF Glob Parameter Map dialog box [21-45](#)
- Edit URL Filter Parameter Map dialog box [21-43](#)
- Edit User Credentials dialog box [36-19](#)
- Edit User dialog box [12-12](#)
- Edit User Group dialog box
  - Advanced PIX 6.3 settings [34-81](#)
  - Browser Proxy settings [34-86](#)
  - Client (IOS) settings [34-77](#)
  - Clientless settings [34-82](#)
  - Client VPN Software Update (IOS) settings [34-80](#)
  - DNS/WINS settings [34-76](#)
  - General settings [34-74](#)
  - IOS Xauth Options settings [34-79](#)
  - overview [34-72](#)
  - Split Tunneling settings (Easy VPN/remote access IPsec VPN) [34-76](#)
  - SSL VPN Connection settings [34-87](#)
  - SSL VPN Full Tunnel settings [34-83](#)
  - SSL VPN Split Tunneling settings [34-85](#)
  - Technology settings [34-72](#)
  - Thin Client settings [34-83](#)
- Edit VDI Server dialog box [34-16](#)
- Edit Virtual Sensor dialog box [38-7, 38-8](#)
- Edit VPN dialog box
  - Device Selection tab [25-32](#)
  - Edit Endpoints dialog box [25-34](#)
  - Endpoints tab [25-34](#)
  - High Availability tab [25-51](#)
  - Name and Technology tab [25-30](#)
  - overview [25-28](#)
- Edit Web Access Control Entry dialog box [6-65](#)



- Edit Web Filter Map dialog box [21-47](#)
- Edit Web Filter Options dialog box [18-9](#)
- Edit Web Filter Type dialog box [18-8](#)
- Edit Websense Parameter Map dialog box [21-39](#)
- Edit Websense Web Filter Class Map dialog box [17-27, 21-19](#)
- Edit Web Type Access List dialog box [6-59](#)
- Edit Windows Messenger Class Map dialog box [17-27, 21-19](#)
- Edit WINS Server dialog box [34-89](#)
- Edit WINS Server List dialog box [34-88](#)
- Edit Yahoo Messenger Class Map dialog box [17-27, 21-19](#)
- Edit Zones dialog box [12-13](#)
- eDonkey class map objects
  - creating [21-16](#)
  - match criteria [21-21](#)
- EIGRP routing
  - defining interface properties [66-10](#)
  - defining routes [66-9](#)
  - EIGRP Routing Policy page [66-13](#)
  - Interface dialog box [66-16](#)
  - Interfaces tab [66-15](#)
  - on Cisco IOS routers [66-8](#)
  - PIX/ASA/FWSM
    - advanced settings [55-34](#)
    - Filter Rule configuration [55-40](#)
    - Filter Rules tab [55-39](#)
    - Interface configuration [55-48](#)
    - Interfaces tab [55-47](#)
    - neighbor configuration [55-42](#)
    - Neighbors tab [55-41](#)
    - policy [55-32](#)
    - redistribution configuration [55-44](#)
    - Redistribution tab [55-42](#)
    - Setup tab [55-36](#)
    - Summary Address configuration [55-46](#)
    - Summary Address tab [55-45](#)
  - redistributing routes [66-12](#)
  - Redistribution Mapping dialog box [66-18](#)
  - Redistribution tab [66-17](#)
  - Setup dialog box [66-14](#)
  - Setup tab [66-13](#)
- e-mail
  - blocking spam using zone-based firewall rules [21-26](#)
  - preventing DoS attacks [21-26](#)
- e-mail notifications
  - configuring SMTP server [1-26](#)
  - PIX/ASA/FWSM
    - recipient set-up [53-8](#)
    - syslog messages [53-8](#)
- embedded event manager
  - add/edit action configuration [53-7](#)
  - add/edit applet [53-4](#)
  - add/edit syslog configuration [53-6](#)
  - ASA [53-3](#)
- Enable/disable NAT rules [24-34, 24-46](#)
- Enable PIM and IGMP
  - PIX/ASA/FWSM [54-1](#)
- Encapsulating Security Protocol (ESP) encryption algorithm [26-28](#)
- encoding rules
  - defining for SSL VPN (ASA) [31-54](#)
- encryption algorithms
  - 3DES (Triple DES) [26-6](#)
  - AES (Advanced Encryption Standard) [26-6](#)
  - DES (Data Encryption Standard) [26-6](#)
  - in IKE proposals [26-6](#)
- endpoints and protected networks
  - configuring dial backup [25-39](#)
  - defining in GET VPN topologies [25-59](#)
  - defining in VPN topologies [25-34](#)
  - VPN Interface tab [25-36, 25-49](#)
- equal-cost multi-path [22-4](#)
- Error Writing to Server deployment errors [9-15](#)
- ESMTP
  - configuring for inspection rules [17-19](#)
- ESMTP policy map objects
  - creating [17-21](#)

- match conditions and actions [17-38](#)
- properties [17-37](#)
- EtherChannel
  - Create and Edit IDSM EtherChannel VLANs dialog boxes [67-49](#)
  - defining IDSM VLANs [67-44](#)
  - deleting IDSM VLANs [67-45](#)
- EtherChannels
  - ASA [46-9](#)
    - edit assigned interface [46-11](#)
    - LACP [46-11](#)
    - load balancing [46-13](#)
- evaluation license
  - upgrading to permanent license [10-16](#)
- event
  - lists [53-9](#)
    - add/edit [53-10](#)
  - syslog class
    - add/edit [53-11](#)
  - syslog message ID
    - add/edit [53-11](#)
- Event Action Filters page [40-7](#)
- Event Action Overrides page [40-13](#)
- event actions, IPS
  - configuring filter rules [40-4](#)
  - configuring network information [40-17](#)
  - configuring OS maps [40-21](#)
  - configuring overrides [40-13](#)
  - configuring settings [40-23](#)
  - configuring target value ratings [40-17](#)
  - example filter rule [68-65](#)
  - filter rule attributes [40-9](#)
  - filter rules policy [40-7](#)
  - filter rules tips [40-6](#)
  - overview [40-1](#)
  - possible actions [40-2](#)
  - process overview [40-1](#)
- Event Management page [11-27, 11-35](#)
  - CPU Throttling Policy dialog box [11-33](#)
- event manager applet [53-3](#)
- Event Manager service
  - configuring [68-30](#)
  - managing [68-30](#)
  - monitoring event store disk space [68-34](#)
  - monitoring status [68-31](#)
  - selecting devices to monitor [68-33](#)
  - starting and stopping [68-30](#)
  - status icon colors [68-31](#)
- events
  - archiving (backing up) the event data store [68-35](#)
  - configuring firewall devices (ASA, FWSM) [68-28](#)
  - configuring IPS devices [68-29](#)
  - copying [68-52](#)
  - CS-MARS [71-46](#)
    - looking up [71-41](#)
    - looking up policies based on related events [71-45](#)
    - Netflow support for policy lookup [71-47](#)
    - viewing access rule events [71-42](#)
    - viewing IPS signature events [71-44](#)
  - ensuring time synchronization [68-27](#)
- Event Viewer
  - clearing filters [68-47](#)
  - context menu [68-48](#)
  - cross-launching from HPM [68-57](#)
  - filtering by column [68-44](#)
  - filtering by events [68-46](#)
  - filtering overview [68-42](#)
  - looking up [68-54](#)
  - looking up policies based on related events [68-53](#)
  - refreshing event table [68-43](#)
  - selecting time range [68-42](#)
  - text searches (quick filter) [68-46](#)
  - using time slider with filtering [68-43](#)
  - viewing access rule events [68-55](#)
  - viewing IPS signature events [68-56](#)
- examining details [68-51](#)
- examples of analysis
  - mitigating botnet activity [68-63](#)

- monitoring and mitigating botnet activity [68-60](#)
- monitoring botnet activity using ASDM [68-63](#)
- monitoring botnet activity using Event Viewer [68-60](#)
- monitoring botnet activity using Report Manager [68-62](#)
- monitoring identity-aware firewall policies [13-27](#)
- monitoring TrustSec policies [14-17](#)
- overview [68-57](#)
- removing false positive IPS events [68-65](#)
- understanding botnet syslog events [68-60](#)
- user access to server blocked [68-57](#)
- performing operations on [68-48](#)
- properties [68-18](#)
- recovering the event data store [68-35](#)
- saving to a file [68-52](#)
- understanding Event Viewer access control [68-4](#)
- viewing [68-1](#)
- Event Viewer
  - archiving (backing up) the event data store [68-35](#)
  - arranging views [68-37](#)
  - ASA devices, configuring to provide events [68-28](#)
  - columns [68-18](#)
  - configuring color rules [68-39](#)
  - configuring Event Manager service [68-30](#)
  - copying events [68-52](#)
  - creating custom views [68-40](#)
  - cross-launching from HPM [68-57](#)
  - deleting custom views [68-42](#)
  - editing view name and description [68-40](#)
  - ensuring time synchronization [68-27](#)
  - Event Monitoring window [68-14](#)
  - events
    - context menu [68-48](#)
    - historical and real-time lookup [68-54](#)
    - looking up [68-54](#)
  - event table
    - customizing appearance [68-38](#)
    - event details pane [68-26](#)
    - refreshing [68-43](#)
    - time slider [68-25](#)
    - toolbar [68-16](#)
  - examining event details [68-51](#)
  - examples of analysis
    - mitigating botnet activity [68-63](#)
    - monitoring and mitigating botnet activity [68-60](#)
    - monitoring botnet activity [68-60](#)
    - monitoring identity-aware firewall policies [13-27](#)
    - monitoring TrustSec policies [14-17](#)
    - overview [68-57](#)
    - removing false positive IPS events [68-65](#)
    - understanding botnet syslog events [68-60](#)
    - user access to server blocked [68-57](#)
  - features
    - historical views [68-2](#)
    - overview [68-1](#)
    - policy navigation [68-3](#)
    - real-time views [68-2](#)
    - views and filters [68-3](#)
  - File menu reference [68-9](#)
  - filters
    - advantages of using network/host objects [68-66](#)
    - clearing [68-47](#)
    - column based [68-44](#)
    - event based [68-46](#)
    - overview [68-42](#)
    - submission requirements for policy objects [68-66](#)
    - text searches (quick filter) [68-46](#)
    - time range [68-42](#)
    - time slider [68-43](#)
  - floating views [68-37](#)
  - FWSM devices, configuring to provide events [68-28](#)
  - IPS devices, configuring to provide events [68-29](#)
  - limits of [68-4](#)
  - looking up Security Manager policies based on events [68-53](#)
  - managing service [68-30](#)
  - monitoring event store disk space [68-34](#)

- monitoring status [68-31](#)
- opening views [68-37](#)
- overview [68-7](#)
- performing operations on [68-48](#)
- preparation for use [68-27](#)
- recovering the event data store [68-35](#)
- saving events [68-52](#)
- saving views [68-41](#)
- selecting devices to monitor [68-33](#)
- settings [11-27, 11-35](#)
- starting or stopping the Event Manager service [68-30](#)
- status icon colors [68-31](#)
- switching between IP addresses and host object names [68-38](#)
- switching between real-time and historical views [68-41](#)
- syslogs [68-6](#)
- troubleshooting
  - Event Viewer Unavailable message [11-27, 11-36, 68-30](#)
  - policy objects not available for filtering [68-66](#)
- understanding access control [68-4](#)
- using [68-36](#)
- using views [68-36](#)
- viewing access rule events [68-55](#)
- viewing IPS signature events [68-56](#)
- view list [68-12](#)
- View menu reference [68-10](#)
- Event Viewer command [1-38](#)
- exclusive domains
  - configuring for IOS devices [18-10](#)
- Exit command [1-31](#)
- Exit command (Report Manager) [69-8](#)
- exiting
  - Cisco Security Management Suite server [1-11](#)
  - CiscoWorks Common Services [1-11](#)
  - Security Manager [1-10, 1-12](#)
- expiration dates
  - configuring for access rules [16-22](#)
- export

- device inventory
  - DCR, CS-MARS, Security Manager formats [10-6](#)
  - device with policies [10-6](#)
  - overview [10-6](#)
  - supported CSV formats [10-9](#)
- HPM data [70-29](#)
- IPS event action overrides [40-13](#)
- IPS event filter rules [40-4, 40-7](#)
- policy objects [6-23](#)
- reports [69-28](#)
- shared policies [10-12](#)
- Export Devices or Policies commands [1-30](#)
- Export Inventory dialog box [10-6](#)
- Export Map command [1-33](#)
- External Product Interface dialog box [36-27](#)
- External Product Interface policy [36-26](#)

---

## F

- factory-default configurations [46-2](#)
- failover
  - Active/Active
    - command replication [50-4](#)
    - configuration synchronization [50-3](#)
  - add new context to group 2 [50-8](#)
  - configuring in site-to-site VPN [25-51](#)
  - edit bridge group [50-16](#)
  - FWSM [50-12](#)
    - advanced settings [50-15](#)
  - PIX/ASA [50-17](#)
    - Add Failover Group [50-24](#)
    - settings [50-20](#)
  - PIX/ASA/FWSM [50-10](#)
    - active/active [50-2, 50-3](#)
    - active/standby [50-2](#)
    - bootstrap configuration [50-26](#)
    - configuration basics [50-5](#)
    - configuring [50-1](#)

- interface configuration [50-23](#)
  - interface MAC address [50-22](#)
  - security context [50-25](#)
  - stateful [50-3](#), [50-4](#)
  - stateless [50-3](#)
  - types of [50-2](#)
  - understanding [50-1](#)
- PIX 6.3 [50-10](#)
  - interface configuration [50-11](#)
  - stateful in site-to-site VPN [25-53](#)
- false negatives
  - definition of [39-23](#)
- false positives
  - definition of [39-23](#)
- FastTrack class map objects
  - creating [21-16](#)
  - match criteria [21-21](#)
- feature sets [1-4](#)
- File menu
  - Configuration Manager [1-29](#)
  - Event Viewer [68-9](#)
  - Report Manager [69-8](#)
- file objects
  - attributes [34-36](#)
  - selecting [34-38](#)
- files
  - deploying to [8-11](#)
  - selecting or specifying [1-50](#)
- Filter Item dialog box [40-9](#)
- filter rules, event action (IPS)
  - attributes [40-9](#)
  - configuring [40-4](#)
  - example rule [68-65](#)
  - exporting [40-4](#)
  - policy [40-7](#)
  - tips [40-6](#)
- filters
  - Event Viewer
    - clearing [68-47](#)
  - column based [68-44](#)
  - context menu [68-48](#)
  - event based [68-46](#)
  - overview [68-42](#)
  - refreshing event list [68-43](#)
  - selecting time range [68-42](#)
  - text searches (quick filter) [68-46](#)
  - using time slider [68-43](#)
- filtering selectors [1-45](#)
- filtering tables [1-48](#)
- HPM
  - column based [70-17](#)
  - custom [70-17](#)
- filters (Event Viewer)
  - advantages of using network/host objects [68-66](#)
  - overview [68-3](#)
  - submission requirements for policy objects [68-66](#)
- Find and Replace dialog box [12-17](#)
- find and replace in rules policies [12-16](#)
- Find Map Node command [1-33](#)
- Find Node dialog box [35-12](#)
- FirePOWER
  - ASA module
    - detecting [71-21](#)
- FireSIGHT Management Center
  - starting from Security Manager [71-20](#)
- FireSIGHT Management Center command [1-37](#)
- Firewall
  - AAA IOS Timeout Values [15-30](#)
- firewall
  - AAA firewall
    - advanced settings [15-20](#)
    - configuring [15-6](#)
    - MAC exempt lists [15-26](#)
  - AAA firewall policy
    - advanced settings [15-20](#)
    - configuring [15-6](#)
  - AAA page [15-28](#)
  - AAA rules

- configuring AAA firewall settings [15-6](#)
- configuring AuthProxy settings [15-9](#)
- configuring cut-through proxy (ASA) [13-23](#)
- configuring for ASA/PIX/FWSM devices [15-4](#)
- configuring for IOS devices [15-7](#)
- configuring identity aware [13-21](#)
- configuring security group aware [14-17](#)
- managing [15-1](#)
- properties [15-13](#)
- understanding [15-1](#)
- understanding how users authenticate [15-2](#)
- Access Control page [16-24](#)
- access controls
  - per user downloadable ACLs [16-27](#)
- access control settings
  - configuring settings [16-23](#)
- access rule
  - event analysis example, user access blocked [68-57](#)
  - finding from CS-MARS events [71-45](#)
  - finding from Event Viewer events [68-53](#)
  - viewing related CS-MARS events [71-42](#)
  - viewing related events [68-55](#)
- access rules
  - address requirements [16-5](#)
  - configuring [16-7](#)
  - configuring expiration dates [16-22](#)
  - configuring identity aware [13-21](#)
  - configuring security group aware [14-17](#)
  - how deployed [16-5](#)
  - import examples [16-44](#)
  - importing [16-40](#)
  - IPS blocking, affect of [43-4](#)
  - managing [16-1](#)
  - optimizing during deployment [16-46](#)
  - sharing ACLs among interfaces [11-18](#)
  - understanding [16-1](#)
  - understanding device-specific behavior [16-4](#)
  - understanding global [16-3](#)
  - understanding requirements when using inspection [17-4](#)
- ACL naming conventions [12-5](#)
- adding rules [12-9](#)
- analysis reports [16-34](#)
- AuthProxy
  - configuring [15-9](#)
- AuthProxy settings policy
  - configuring [15-9](#)
- botnet traffic filter rules [19-9](#)
- combining rules
  - example [12-27](#)
  - interpreting results [12-25](#)
  - procedure [12-22](#)
- configuring policies in Map view [35-23](#)
- configuring settings [18-15](#)
- configuring settings policies in Map view [35-23](#)
- conflict detection [16-28](#)
- converting IPv4 rules [12-28](#)
- deleting rules [12-9](#)
- device types [46-1](#)
- disabling rules [12-20](#)
- editing rules [12-10](#)
- enabling rules [12-20](#)
- finding and replacing items in rules policies [12-16](#)
- Firewall ACL Setting dialog box [16-26](#)
- identity-aware policies
  - collecting user statistics [13-25](#)
  - configuring [13-7](#)
  - configuring cut-through proxy [13-23](#)
  - configuring identity options [13-15](#)
  - configuring rules [13-21](#)
  - configuring the ASA [13-7, 14-8](#)
  - enabling [13-8](#)
  - filtering VPN traffic [13-26](#)
  - identifying AD servers and agents [11-38, 13-8](#)
  - managing [13-1](#)
  - monitoring [13-27](#)
  - overview [13-1](#)

- requirements [13-3](#)
- user identity acquisition [13-2](#)
- Inspection page [17-108](#)
- inspection rules
  - add/edit rule wizard [17-10, 17-12, 17-16](#)
  - choosing interfaces [17-2](#)
  - configuring [17-5](#)
  - configuring identity aware [13-21](#)
  - configuring security group aware [14-17](#)
  - managing [17-1](#)
  - preventing DoS attacks on IOS devices [17-4](#)
  - selecting protocols [17-3, 17-16](#)
  - understanding [17-1](#)
  - understanding access rule requirements [17-4](#)
- inspection settings
  - configuring for IOS devices [17-108](#)
- introduction [12-1](#)
- IPv6 access rules
  - configuring expiration dates [16-22](#)
  - sharing ACLs among interfaces [11-18](#)
  - understanding global [16-3](#)
- MAC exempt lists, AAA firewall [15-26](#)
- managing rules tables [12-7](#)
- moving rules [12-19](#)
- object groups
  - expanding during discovery [12-35](#)
- optimizing network object groups during deployment [12-35](#)
- overview [12-1](#)
- per user downloadable ACLs [16-27](#)
- policy discovery [5-13](#)
- policy query
  - example report [12-34](#)
  - generating reports [12-28](#)
  - interpreting results [12-32](#)
- preserving ACL names [12-4](#)
- reference information for AAA rules [15-20](#)
- resolving access rule conflicts [16-34](#)
- resolving ACL naming conflicts [12-6](#)
- rule table sections [12-20](#)
- security group aware policies
  - configuring ISE settings [11-56](#)
  - configuring rules [14-17](#)
- security group-aware policies
  - configuring [14-7](#)
  - managing [14-1](#)
- system variables [7-9](#)
- transparent rules
  - adding or editing a rule [23-5](#)
  - configuring [23-1](#)
  - configuring passthrough for IOS devices [23-3](#)
  - editing the EtherType [23-6](#)
  - editing the mask [23-7](#)
  - managing [23-1](#)
  - Transparent Rules page [23-3](#)
- TrustSec firewall policies
  - configuring [14-7](#)
  - managing [14-1](#)
  - overview [14-1](#)
- TrustSec policies
  - monitoring [14-17](#)
- understanding NAT effects [12-3](#)
- understanding rule order [12-19](#)
- understanding rule processing order [12-2](#)
- using rules tables [12-7](#)
- Web Filter page [18-16](#)
- web filter rules
  - configuring for ASA, PIX, FWSM devices [18-2](#)
  - configuring for IOS devices [18-10](#)
  - managing [18-1](#)
  - understanding [18-1](#)
- zone-based firewall
  - add/edit zones [21-53](#)
  - advanced options [21-67](#)
  - configuring PAM [21-69](#)
  - configuring rules [21-13, 21-62](#)
  - configuring settings [21-49](#)
  - Content Filter tab [21-52](#)

- designing network zones [21-1](#)
- development overview [21-12](#)
- Global Parameters tab [21-50](#)
- page [21-50](#)
- protocol selection [21-68](#)
- rules table [21-58](#)
- tabs [21-49](#)
- VPN tab [21-50](#)
- WAAS tab [21-50](#)
- Zones tab [21-50](#)
- zone-based firewalls
  - changing the default drop rule [21-48](#)
  - general recommendations [21-12](#)
  - IPSec VPN [21-6](#)
  - logging [21-1](#)
  - overview [21-1](#)
  - restrictions [21-3](#)
  - Self zone [21-5](#)
  - troubleshooting [21-54](#)
  - understanding [21-3](#)
  - understanding permit/deny and action [21-8](#)
  - understanding services and protocols [21-11](#)
  - VRF [21-7](#)
- Firewall AAA IOS Timeout Value Setting dialog box [15-30](#)
- Firewall AAA MAC Exempt Setting dialog box [15-27](#)
- Firewall ACL Setting dialog box [16-26](#)
- Firewall Device dialog box [43-14](#)
- Firewall Services Module
  - see FWSM [47-1](#)
- Fit to Window command [1-33](#)
- FlexConfig objects
  - adding to policies [7-35](#)
  - ASA samples [7-20](#)
  - Catalyst 6500/7600 samples [7-22](#)
  - changing order in policies [7-35](#)
  - changing variable values [7-35](#)
  - Cisco IOS Software samples [7-22](#)
  - CLI commands [7-2](#)
  - configuring [7-25](#)
  - configuring AAA for administrative introducers [62-84](#)
  - creating [7-28](#)
  - creating text objects [7-32](#)
  - deleting variables [7-28](#)
  - PIX firewall samples [7-23](#)
  - previewing CLI [7-35](#)
  - properties [7-30](#)
  - property selector [7-34](#)
  - removing from policies [7-35](#)
  - router samples [7-24](#)
  - samples [7-19](#)
  - scripting language
    - example of looping [7-3](#)
    - example of looping with if/else statements [7-4](#)
    - example of two-dimensional looping [7-3](#)
    - understanding [7-3](#)
  - system variables
    - device [7-7](#)
    - firewalls [7-9](#)
    - remote access VPN [7-19](#)
    - router [7-13](#)
    - understanding [7-7](#)
    - VPN [7-14](#)
  - undefined variables [7-33](#)
  - understanding [7-2](#)
  - variables [7-5](#)
  - variables, example [7-6](#)
- FlexConfig policies
  - adding objects [7-35](#)
  - changing object order [7-35](#)
  - changing variable values [7-35](#)
  - configuring [7-25](#)
  - configuring AAA for administrative introducers [62-84](#)
  - editing [7-35](#)
  - previewing CLI [7-35](#)
  - removing objects [7-35](#)



- understanding [7-2](#)
- FlexConfig Policy page [7-36](#)
- FlexConfig Preview dialog box [7-38](#)
- FlexConfigs
  - creating (scenario) [7-25](#)
  - managing [7-1](#)
  - troubleshooting [7-38](#)
- FlexConfig Undefined Variables dialog box [7-33](#)
- float
  - report windows [69-29](#)
  - view windows [68-37](#)
- floodguard [56-2](#)
- FQDN objects
  - creating [6-82](#)
  - understanding [6-79](#)
- fragmentation
  - configuring settings in VPNs [26-30, 26-43](#)
- fragments settings [56-2](#)
- frequently asked questions
  - policy discovery [5-27](#)
- FTP class map objects
  - creating [17-21](#)
  - match criteria [17-41](#)
- FTP policy map objects
  - creating [17-21](#)
  - match conditions and actions [17-41](#)
  - properties [17-40](#)
- full mesh topologies
  - description [25-4](#)
  - partial mesh [25-5](#)
- full tunnel client access mode [30-5](#)
- FWSM
  - AAA support [6-28](#)
  - about [46-1](#)
  - adding SSL thumbprints manually [9-5](#)
  - adding when using multiple-context mode [3-7](#)
  - adding when using non-default HTTPS (SSL) port [3-7](#)
  - Asymmetric Routing Groups [46-6](#)
- Bridge Groups
  - add/edit [46-62](#)
  - bridge groups [47-3](#)
  - changing deployment method to serial for multiple-context mode [9-17](#)
  - configuring for event management [68-28](#)
  - configuring FWSM endpoints in site-to-site VPNs [25-46](#)
  - configuring transparent firewall rules [23-1](#)
  - credentials [3-19](#)
  - deleting security contexts [58-7](#)
  - deployment failures after changing interface policies [9-16](#)
  - deployment failures in multiple-context mode [9-16](#)
  - deployment failures with large ACLs [9-17](#)
- Device Access
  - managing Resources [51-2](#)
  - Resources [51-3](#)
  - Resources, add/edit [51-3](#)
- discovering failover modules [3-7](#)
- Event Viewer support [68-4](#)
- Failover [50-12](#)
  - advanced settings [50-15](#)
  - edit bridge group [50-16](#)
- including in deployment jobs [8-28](#)
- interfaces
  - add/edit [46-31](#)
  - configuring [46-3](#)
  - General tab [46-33](#)
  - IPv6 [46-47, 46-72, 46-73](#)
  - IPv6, add/edit [46-52](#)
  - IPv6, add/edit prefixes [46-54, 46-56](#)
  - managing [46-26](#)
- packet capture, using [71-30](#)
- PDM [71-15](#)
- policy discovery [5-13](#)
- rollback, commands to recover from failover misconfiguration [8-68](#)
- rollback command conflicts [8-67](#)
- rollback restrictions for failover devices [8-65](#)

- rollback restrictions for multiple context mode [8-64](#)
- security contexts
  - configuration [58-8](#)
- selecting policy types to manage [5-11](#)
- setting up SSL (HTTPS) [2-3](#)
- SSL certificate configuration [11-22](#)
- TCP State Bypass [57-3](#)
- troubleshooting deployment [9-16](#)

## G

### General

- PIX/ASA/FWSM
  - security policies [56-1](#)

- General Configuration tab, SNMP policy for IPS [36-10](#)

- General page, device properties [3-41](#)

- General tab, IPS blocking policy [43-10](#)

- General tab (Translation Rules)

- PIX/ASA/FWSM [24-31](#)

- generic routers [3-8](#)

### GET VPN

- anti-replay, time based [29-11](#)
- configuring [29-12](#)
- configuring global ISAKMP and IPsec settings [29-16](#)
- configuring group members [29-20](#)
- cooperative key servers [29-7](#)
- defining group encryption [25-53](#)
- generating, synchronizing RSA keys [29-13](#)
- group members
  - adding [29-19](#)
  - editing [29-21](#)
- IKE proposal [29-15](#)
- key servers
  - adding [29-19](#)
  - editing [29-19](#)
- mandatory and optional policies [25-6](#)
- migrating to [29-23](#)
- overview [29-1](#)
- receive-only SAs [29-23](#)

- registration
  - choosing the rekey transport mechanism [29-6](#)
  - configuring fail-close mode [29-8](#)
- registration process [29-4](#)
- SAs
  - passive SA mode [29-23](#)
  - receive-only mode [29-23](#)
- security policy [29-10](#)
- supported platforms [25-9](#)
- troubleshooting [29-25](#)
- understanding [29-2](#)

### GET VPNs

- group encryption policies
  - certificate authorization [25-57](#)
  - security associations [25-57](#)

### global correlation

- configuring [42-1](#)
- configuring DNS servers [36-24](#)
- configuring HTTP proxy server [36-24](#)
- configuring inspection and reputation [42-5](#)
- configuring network participation [42-7](#)
- configuring with Botnet Traffic Filtering [42-1](#)
- data collected [42-3](#)
- requirements and limitations [42-4](#)
- understanding [42-1](#)
- understanding network participation [42-3](#)
- understanding reputation [42-2](#)

### Global Search

- using [1-42](#)

- Global Search command [1-31](#)

### global settings

- remote access VPN
  - configuring [26-29](#)

### Gnutella class map objects

- creating [21-16](#)
- match criteria [21-21](#)

### GRE (generic routing encapsulation) VPN

- advantages of IPsec tunneling with GRE [27-3](#)
- configuring [27-5](#)

- configuring GRE modes [27-6](#)
  - dynamically addressed spokes [27-5](#)
  - implementation [27-3](#)
  - overview [27-1, 27-2](#)
  - prerequisites for successful configuration [27-3](#)
  - supported platforms [25-9](#)
  - understanding [27-2](#)
  - GRE Dynamic IP
    - mandatory and optional policies [25-6](#)
  - GRE Modes Page
    - DMVPN properties [27-12](#)
    - GRE or GRE Dynamic IP properties [27-6](#)
    - overview [27-1](#)
  - Group Domain of Interpretation (GDOI) protocol [29-3](#)
  - group encryption
    - defining in GET VPN topologies [25-53](#)
  - Group Encryption Policy page (GET VPN) [25-53](#)
  - group members
    - adding [29-19](#)
    - communication flow [29-2](#)
    - configuring fail-close mode [29-8](#)
    - editing [29-21](#)
    - GET VPN
      - registration process [29-4](#)
      - security policy ACLs [29-10](#)
  - group members (GET VPN)
    - configuring [29-20](#)
  - Group Members page (GET VPN) [29-20](#)
  - group policies
    - configuring [31-26](#)
    - creating [31-28](#)
    - understanding [31-27](#)
  - VPNs
    - configuring bookmarks [31-81](#)
    - configuring portal appearance [31-76](#)
    - configuring WINS servers for file system access [31-86](#)
    - customizing [31-76](#)
    - post URL method and macro substitutions in bookmarks [31-83](#)
    - smart tunnels [31-84](#)
  - Group Policies page [31-26](#)
  - groups
    - adding or removing devices [3-63](#)
    - creating [3-62](#)
    - deleting [3-62](#)
    - understanding [3-59](#)
    - working with [3-59](#)
  - group types
    - creating [3-61](#)
    - deleting [3-62](#)
  - GTP map objects
    - Add Country Network Codes dialog box [17-45](#)
    - Edit Country Network Codes dialog box [17-45](#)
  - GTP Map Timeouts dialog box [17-46](#)
  - GTP policy map objects
    - creating [17-21](#)
    - match conditions and actions [17-46](#)
    - properties [17-43](#)
- 
- ## H
- H.323 class map objects
    - IOS
      - creating [21-16](#)
      - match criteria [21-22](#)
      - match criteria [17-51](#)
  - H.323 policy map objects
    - ASA/PIX/FWSM
      - creating [17-21](#)
      - properties [17-48](#)
    - IOS
      - creating [21-16](#)
      - match conditions and actions [21-35](#)
      - match conditions and actions [17-51](#)
  - hash algorithms
    - in IKE proposals [26-6](#)

- MD5 [26-7](#)
- SHA [26-6](#)
- Health & Performance Monitor command [1-38](#)
- Health and Performance Monitor
  - see HPM [70-1](#)
  - viewing related events in Event Viewer [68-57](#)
- Health and Performance Monitor in Dashboard [71-2](#)
- help
  - accessing [1-52](#)
- Help About This Page command [1-38](#)
- helper addresses [61-14](#)
- Help menu
  - Configuration Manager [1-38](#)
- Help Topics command [1-38](#)
- Hide Navigation Window command [1-33](#)
- high availability (HA groups)
  - configuring in Easy VPN [28-2](#)
  - configuring in site-to-site VPN [25-51](#)
  - stateful/stateless failover [25-53](#)
- high availability policies
  - configuring in remote access VPNs [33-11](#)
- Histogram dialog box [41-13](#)
- histograms
  - configuring anomaly detection [41-11](#)
  - understanding anomaly detection [41-9](#)
- Hit Count Details
  - example [16-38](#)
- Hit Count Details page [16-36](#)
- Hit Count Selection Summary Dialog Box [16-20](#)
- Hostname
  - PIX/ASA/FWSM [51-1](#)
- hostnames
  - Cisco IOS routers
    - defining [62-77](#)
    - Hostname Policy page [62-78](#)
    - overview [62-77](#)
- HPM
  - access control [70-3](#)
  - Alerts
    - firewall [70-35](#)
    - IPS [70-34](#)
    - VPN [70-37](#)
    - VPN, SNMP configuration [70-38](#)
  - alerts [70-31](#)
    - acknowledging [70-40](#)
    - clearing [70-40](#)
    - configuring [70-33](#)
    - history [70-41](#)
    - viewing [70-39](#)
  - application window [70-6](#)
    - Alerts display [70-31](#)
    - Monitoring display [70-24](#)
  - columns
    - Alert table [70-16](#)
    - Device-related [70-8](#)
    - showing/hiding [70-8](#)
    - sorting [70-8](#)
    - VPN-related [70-12](#)
  - configuring for [70-4](#)
  - custom views [70-23](#)
  - device
    - monitoring [70-20](#)
    - monitoring multiple contexts [70-3](#)
    - priority monitoring [70-31](#)
    - views [70-21](#)
  - Device Manager
    - launching [70-3, 70-26](#)
  - device manager
    - cross-launch [70-31](#)
  - devices
    - managing [70-5](#)
  - email notifications
    - configuring [70-33](#)
  - export data [70-29](#)
  - filters
    - column based [70-17](#)
  - introduction [70-1](#)
  - launching [70-4](#)

- List Filter [70-19](#)
- monitoring
  - device details [70-27](#)
  - device status list [70-26](#)
  - RA and S2S views [70-29](#)
  - Summary [70-26](#)
  - VPN details [70-27](#)
  - VPN Summary list [70-26](#)
- overview [70-1](#)
- read time-out [2-3, 70-4](#)
- Remote Access
  - log-off user [70-29](#)
- settings page [11-36](#)
- tables
  - showing/hiding columns [70-8](#)
  - sorting columns [70-8](#)
- trending [70-2](#)
- viewing related events in Event Viewer [68-57](#)
- views
  - closing [70-22](#)
  - custom [70-23](#)
  - docking [70-23](#)
  - floating [70-23](#)
  - list [70-21](#)
  - opening [70-22](#)
  - tiling [70-22](#)
- HTML file
  - export HPM data as [70-29](#)
- HTTP
  - Cisco IOS routers
    - AAA tab [62-32](#)
    - Command Authorization Override dialog box [62-34](#)
    - defining policies [62-29](#)
    - HTTP Policy page [62-31](#)
    - overview [62-28](#)
    - Setup tab [62-31](#)
  - PIX/ASA/FWSM [49-2](#)
    - configuration [49-3](#)
  - HTTP (ASA, PIX) class map objects
    - creating [17-21](#)
  - HTTP (ASA7.1.x/PIX7.1.x/FWSM3.x/IOS) policy map objects
    - creating [17-21](#)
    - properties [17-53](#)
  - HTTP (ASA7.2+/PIX7.2+) policy map objects
    - creating [17-21](#)
    - properties [17-61](#)
  - HTTP (IOS) class map objects
    - creating [21-16](#)
    - creating for zone-based firewall content filtering [21-36](#)
    - match criteria [21-22](#)
  - HTTP (Zone Based IOS) policy map objects
    - creating [21-16, 21-36](#)
    - match conditions and actions [21-35](#)
  - HTTP class map objects
    - match criteria [17-62](#)
  - HTTP-FORM
    - settings in AAA server objects [6-44](#)
  - HTTP policy
    - overriding HTTPS port number [3-47](#)
    - sharing
      - HTTPS port number [3-47](#)
  - HTTP policy map objects
    - match conditions and actions [17-62](#)
  - HTTP proxy server
    - configuring for IPS global correlation [36-24](#)
  - HTTP Response Code 500 deployment errors [9-15](#)
  - HTTPS
    - setting up [2-3](#)
    - troubleshooting certificate errors [9-5](#)
  - hub-and-spoke topology
    - description [25-2](#)
    - joined hub-and-spoke topology [25-5](#)
    - tiered hub-and-spoke topologies [25-5](#)

## ICMP rules

PIX/ASA/FWSM [49-4](#)add/edit [49-5](#)

## ICMP settings

configuring on IOS routers [61-18](#)

## icons

Configuration Manager toolbar reference [1-39](#)event table toolbar reference [68-16](#)Event Viewer status color code [68-31](#)map elements [35-14](#)

## ICQ class map objects

creating [21-16](#)match criteria [21-21](#)

## identity-aware firewall policies

collecting user statistics [13-25](#)configuring [13-7](#)configuring cut-through proxy [13-23](#)configuring identity options [13-15](#)configuring layer 2 SGT imposition [46-44](#)configuring rules [13-21](#)configuring security group tagging [46-44](#)configuring the ASA [13-7, 14-8](#)enabling [13-8](#)filtering VPN traffic [13-26](#)identifying AD servers and agents [11-38, 13-8](#)managing [13-1](#)monitoring [13-27](#)overview [13-1](#)requirements [13-3](#)user identity acquisition [13-2](#)

## Identity Configuration wizard

Active Directory Agent Settings [13-13](#)Active Directory Settings [13-11](#)Preview [13-15](#)Identity Settings page [11-38](#)

## identity user group objects

creating [13-19](#)selecting [13-21](#)user identity acquisition [13-2](#)idle timeout, Security Manager client [11-10](#)

## IDM

device manager [71-15](#)

## IDSM

adding when using non-default HTTPS (SSL)  
port [3-7](#)Create and Edit IDSM Data Port VLANs dialog  
boxes [67-49](#)Create and Edit IDSM EtherChannel VLANs dialog  
boxes [67-49](#)credentials [3-19](#)defining Data Port VLANs [67-46](#)defining EtherChannel VLANs [67-44](#)deleting Data Port VLANs [67-47](#)deleting EtherChannel VLANs [67-45](#)deployment failures when changing data port VLAN  
running mode [9-16](#)IDSM Settings page [67-47](#)IDSM Slot-Port Selector dialog box [67-50](#)mode support limitations [67-43](#)troubleshooting deployment [9-16](#)understanding settings on Catalyst devices [67-43](#)IE 10 security settings [10-2](#)

## IGMP

## PIX/ASA/FWSM

Access Group parameters [54-5](#)Access Group tab [54-5](#)enable [54-1](#)Join Group parameters [54-7](#)Join Group tab [54-7](#)page [54-2](#)parameters [54-4](#)Protocol tab [54-3](#)Static Group parameters [54-6](#)Static Group tab [54-6](#)ignore error message, configure Security Manager to [9-10](#)

## IKE (Internet Key Exchange)

comparing version 1 and 2 [26-4](#)

- configuring IKE and IPsec policies [26-1](#)
- configuring IKEv2 authentication [26-67](#)
- configuring proposal [26-9](#)
- Diffie-Hellman modulus groups [26-7](#)
- encryption algorithms [26-6](#)
- hash algorithms [26-6](#)
- IKEv2 Authentication policy [26-69](#), [26-71](#)
- overview [26-2](#)
- selecting the IKE version for devices in site to site VPNs [26-25](#)
- understanding [26-5](#)
- IKE keepalive
  - understanding [26-32](#)
- IKE proposal objects
  - v1 properties [26-10](#)
  - v2 properties [26-13](#)
- IKE proposals (policies)
  - in GET VPNs [29-15](#)
- IKEv2 Authentication dialog box [26-71](#)
- IKEv2 Authentication page [26-69](#)
- IKEv2 settings
  - configuring [26-36](#)
  - configuring cookie challenges [26-36](#)
- IM (ASA7.2+/PIX7.2+) policy map objects
  - creating [17-21](#)
  - properties [17-67](#)
- IM (IOS) policy map objects
  - creating [17-21](#)
  - properties [17-70](#)
- IM (Zone Based IOS) policy map objects
  - creating [21-16](#)
  - match conditions and actions [21-35](#)
- IM (Zone based IOS) policy map objects
  - creating [21-16](#)
- Image Management [72-1](#)
  - supported versions [72-2](#)
- Image Manager [72-9](#), [72-16](#)
  - abort installation job [72-35](#)
  - Add Image [72-11](#)
  - Bootstrapping Devices [72-8](#)
  - bundled images [72-30](#)
  - bundles [72-13](#)
    - create [72-13](#)
    - delete [72-15](#)
    - rename [72-15](#)
    - view images [72-14](#)
  - compatible images [72-17](#)
  - configuring install location [72-19](#)
  - device memory [72-18](#)
  - devices [72-16](#)
  - Getting Started [72-1](#)
  - Installation Job Summary [72-33](#)
  - installation wizard [72-26](#)
  - installing compatible images on devices [72-30](#)
  - installing images on selected devices [72-31](#)
  - job approval workflow [72-36](#)
  - jobs [72-32](#)
  - RAM [72-17](#)
  - Repository [72-9](#)
  - retry on installation failure [72-35](#)
  - roll back [72-35](#)
  - settings [11-41](#)
  - supported image types [72-5](#)
  - supported platforms [72-2](#)
  - Troubleshooting [72-37](#)
  - update validation [72-23](#)
  - updating images on devices [72-20](#)
  - Using [72-1](#)
    - Admin Settings [72-6](#)
    - View All Images [72-10](#)
    - view device information [72-16](#)
    - view installation job details [72-34](#)
- Image Manager command [1-38](#)
- images
  - view [72-10](#)
- image updates [72-20](#)
- IMAP
  - configuring for inspection rules [17-20](#)

- IMAP class map objects
  - creating [21-16](#)
  - match criteria [21-24](#)
- IM applications
  - match conditions for zone-based firewalls [21-21](#)
  - protocol information for IM application inspection [21-33](#)
- IMAP policy map objects
  - creating [21-16](#)
  - match conditions and actions [21-35](#)
- IM class map objects
  - creating [17-21](#)
  - match criteria [17-68](#)
- IM policy map objects
  - match conditions and actions [17-68](#)
- import
  - device inventory [3-31](#)
    - device with policies [10-13](#)
  - policy objects [6-23](#)
- Import Background Image dialog box [35-13](#)
- Import Rules wizard
  - Enter Parameters page [16-41](#)
  - Preview page [16-43](#)
  - Status page [16-42](#)
- inheritance
  - inheriting rules [5-47](#)
  - understanding [5-4](#)
  - understanding signature policies [39-3](#)
  - versus assignment [5-6](#)
- Inherit Rules command [1-32](#)
- Inherit Rules dialog box [5-47](#)
- Inspect/Application FW Rule wizard
  - Address and Port page [17-12](#)
  - Inspected Protocol page [17-16](#)
  - Match Traffic page [17-10](#)
- inspection
  - deny rules [17-5](#)
  - global correlation (IPS)
    - configuring [42-5](#)
- inspection map objects
  - understanding [6-77](#)
- inspection rules
  - ACL naming conventions [12-5](#)
  - add/edit rule wizard [17-10, 17-12, 17-16](#)
  - choosing interfaces [17-2](#)
  - configuring [17-5](#)
  - configuring custom protocol name [17-21](#)
  - configuring DNS settings [17-18](#)
  - configuring ESMTP settings [17-19](#)
  - configuring fragment inspection [17-19](#)
  - configuring identity aware [13-21](#)
  - configuring in Map view [35-23](#)
  - configuring RPC settings [17-20](#)
  - configuring security group aware [14-17](#)
  - configuring settings for IOS devices [17-108](#)
  - configuring settings in Map view [35-24](#)
  - configuring SMTP settings [17-19](#)
  - deep inspection options
    - IMAP [17-20](#)
    - POP3 [17-20](#)
  - deleting [12-9](#)
  - disabling [12-20](#)
  - editing [12-10](#)
  - enabling [12-20](#)
  - Inspection Rules page [17-7](#)
  - managing [17-1](#)
  - moving [12-19](#)
  - preserving ACL names [12-4](#)
  - preventing DoS attacks on IOS devices [17-4](#)
  - selecting protocols [17-3, 17-16](#)
  - understanding [17-1](#)
  - understanding access rule requirements [17-4](#)
  - understanding NAT effects [12-3](#)
  - understanding processing order [12-2](#)
- Inspection Rules page [17-7](#)
- Inspection settings page [17-108](#)
- inspect maps
  - policy maps



- Add Country Network Codes dialog box [17-45](#)
  - Edit Country Network Codes dialog box [17-45](#)
- Inspect parameter map objects
  - properties [21-31](#)
- Inspect Parameters map objects
  - creating [21-16, 21-36](#)
- installing
  - Security Manager client [1-12](#)
- Integrated Local Management Interface (ILMI) [61-49](#)
- Interactive Authentication Configuration dialog box [15-24](#)
- Interface Name Conflict dialog box [6-77](#)
- Interface Properties dialog box [35-18](#)
- Interface Role Contents dialog box [12-14](#)
- interface role objects
  - creating [6-73](#)
  - defining subinterfaces [6-76](#)
  - distinguishing from interfaces [6-75](#)
  - handling conflicts between role and interface names [6-77](#)
  - Interface Role dialog box [6-74](#)
  - specifying during policy definition [6-75](#)
  - understanding [6-72](#)
  - use when a single interface name is allowed [6-76](#)
- interfaces
  - adding or changing modules [3-40](#)
  - ASA
    - edit EtherChannel-assigned interface [46-11](#)
    - EtherChannels [46-9, 46-13](#)
    - LACP [46-11](#)
  - ASA/FWSM
    - IPv6 [46-47, 46-72, 46-73](#)
    - IPv6, add/edit [46-52](#)
    - IPv6, add/edit prefixes [46-54, 46-56](#)
  - ASA 5505 [46-6](#)
  - ASA devices
    - Advanced tab [46-41](#)
    - IP Type [46-58](#)
  - Catalyst switches and 7600 Series routers
    - Access Port Selector dialog box [67-30](#)
    - Create and Edit Interface dialog boxes-Access Port mode [67-9](#)
    - Create and Edit Interface dialog boxes-Dynamic Port mode [67-18](#)
    - Create and Edit Interface dialog boxes-Other mode [67-24](#)
    - Create and Edit Interface dialog boxes-Routed Port mode [67-12](#)
    - Create and Edit Interface dialog boxes-subinterfaces [67-22](#)
    - Create and Edit Interface dialog boxes-Trunk Port mode [67-14](#)
    - Create and Edit VLAN dialog boxes [67-28](#)
    - Create and Edit VLAN Group dialog boxes [67-34](#)
    - defining ports [67-5](#)
    - deleting ports [67-7](#)
    - generating names [67-6](#)
    - Interfaces/VLANs page-Interfaces tab [67-7](#)
    - Interfaces/VLANs page-Summary tab [67-3](#)
    - Interfaces/VLANs page-VLAN Groups tab [67-33](#)
    - Interfaces/VLANs page-VLANs tab [67-27](#)
    - Service Module Slot Selector dialog box [67-35](#)
    - Trunk Port Selector dialog box [67-31](#)
    - understanding [67-5](#)
    - VLAN Selector dialog box [67-35](#)
- Cisco IOS routers
  - Advanced Interface Settings dialog box [61-16](#)
  - Advanced Interface Settings page [61-15](#)
  - available types [61-2](#)
  - Create Router Interface dialog box [61-8](#)
  - defining advanced settings [61-13](#)
  - defining basic settings [61-3](#)
  - defining CEF interface settings [61-24](#)
  - defining IPS module settings [61-22](#)
  - deleting from [61-6](#)
  - generating names [61-4](#)
  - Interface Auto Name Generator dialog box [61-12](#)
  - overview [61-1](#)
  - Router Interfaces page [61-7](#)

- understanding helper addresses [61-14](#)
- configuring IOS IPS rules [45-9](#)
- configuring multiple contexts [58-3](#)
- distinguishing from interface roles [6-75](#)
- failover
  - MAC address [50-22](#)
  - PIX/ASA/FWSM [50-23](#)
  - PIX 6.3 [50-11](#)
- IPS
  - configuring [37-6](#)
  - configuring bypass mode [37-12](#)
  - configuring CDP mode [37-12](#)
  - configuring inline interface pairs [37-13](#)
  - configuring inline VLAN pairs [37-14](#)
  - configuring physical [37-9](#)
  - configuring VLAN groups [37-15](#)
  - deploying VLAN groups [37-5](#)
  - inline interface mode [37-3](#)
  - inline VLAN pair mode [37-3](#)
  - interfaces policy [37-6](#)
  - managing interface configurations [37-1](#)
  - physical interface properties [37-10](#)
  - promiscuous mode [37-2](#)
  - roles [37-1](#)
  - sensing modes overview [37-2](#)
  - understanding [37-1](#)
  - viewing summary [37-8](#)
  - VLAN group mode [37-4](#)
- IP Type
  - PIX 6.3 [46-30](#)
- PIX/ASA
  - allocation in security contexts [58-11](#)
  - IP Type [46-58](#)
  - PPPoE Users [46-71](#)
  - redundant [46-8](#)
  - subinterfaces [46-7, 46-15](#)
  - VPDN groups [46-71](#)
- PIX/ASA/FWSM
  - add/edit [46-31](#)
  - Advanced settings [46-68](#)
  - configuring [46-3](#)
  - contexts [46-5](#)
  - DDNS update rules [52-19](#)
  - enabling traffic between same security levels [46-70](#)
  - General tab [46-33](#)
  - manage [46-26](#)
  - management access [49-6](#)
  - understanding [46-3](#)
- PIX/ASA 7+ devices
  - MAC address [46-60](#)
- PIX 6.3
  - add/edit [46-28](#)
  - routed and transparent [46-5](#)
  - specifying during policy definition [6-75](#)
  - specifying subinterfaces [6-76](#)
  - throughput delay [61-18](#)
- Interface Selector dialog box (VLAN ACL Content) [67-42](#)
- Interfaces page (IPS) [37-6](#)
- Interface Specific Authentication Server Groups dialog box [31-16](#)
- Interface Specific Client Address Pools dialog box [31-12](#)
- inventory
  - deleting devices from [3-57](#)
  - export devices
    - DCR, CS-MARS, Security Manager formats [10-6](#)
    - device with policies [10-6](#)
    - overview [10-6](#)
    - supported CSV formats [10-9](#)
    - using command line utility [10-10](#)
  - import devices
    - device with policies [10-13](#)
- inventory, device
  - adding devices [3-6](#)
  - adding devices from configuration files [3-21](#)
  - adding devices from inventory file [3-31](#)
  - adding devices from network [3-12](#)
  - adding devices manually [3-26](#)

- device status view
    - working with [3-63](#)
  - managing [3-1](#)
  - testing device connectivity [9-1](#)
  - troubleshooting device discovery failures [3-7](#)
  - understanding [3-1](#)
  - understanding contents [3-3](#)
  - understanding device clusters [3-9](#)
  - understanding generic devices [3-8](#)
  - viewing inventory status [71-12](#)
  - working with [3-36](#)
- Inventory Status command [1-35](#)
- Inventory Status window [71-13](#)
- Inverse ARP [61-60](#)
- inverse multiplexing over ATM (IMA) [61-39](#)
- IOS devices
- configuring transparent firewall rules [23-1](#)
  - remote access IPsec VPNs
    - user group policies [33-13](#)
  - remote access IPsec VPNs
    - creating using wizard [30-36](#)
  - remote access SSL VPNs
    - configuring bookmarks [31-81](#)
    - configuring WINS servers for file system access [31-86](#)
    - creating using wizard [30-32](#)
  - remote access VPNs
    - configuring SSL VPN policies [33-14](#)
    - Context Editor dialog box (IOS) [33-15](#), [33-16](#)
    - Dynamic VTI/VRF Aware IPsec settings [33-7](#)
    - high availability [33-11](#)
    - IPsec proposals [33-4](#)
- SDM [71-16](#)
- IOS IPS
- affect of load balancing [45-8](#)
  - comparing to IPS appliances and service modules [36-1](#)
  - configuration files [45-3](#)
  - configuration overview [45-4](#)
  - configuring [45-1](#)
  - configuring general settings [45-7](#)
  - configuring interface rules [45-9](#)
  - configuring target value ratings [40-17](#)
  - event actions
    - filter rule attributes [40-9](#)
    - filter rules [40-4](#), [40-7](#)
    - filter rules tips [40-6](#)
    - network information [40-17](#)
    - overrides [40-13](#)
    - overview [40-1](#)
    - possible actions [40-2](#)
    - process overview [40-1](#)
    - settings [40-23](#)
  - getting started [36-1](#)
  - initial preparation of router [45-5](#)
  - lightweight signature engines [45-2](#)
  - limitations and restrictions [45-3](#)
  - selecting signature category [45-6](#)
  - signatures
    - adding custom [39-19](#)
    - cloning [39-21](#)
    - configuring [39-4](#)
    - defining [39-1](#)
    - detailed information [39-2](#)
    - editing [39-14](#)
    - editing Meta engine component list [39-29](#)
    - editing or tuning parameters [39-23](#)
    - enabling or disabling [39-14](#)
    - engines [39-20](#)
    - exporting [39-9](#)
    - inheritance [39-3](#)
    - parameters list [39-24](#)
    - policy [39-4](#)
    - shortcut menu [39-10](#)
    - understanding [39-1](#)
    - viewing update level [39-9](#), [39-13](#)
  - understanding [45-1](#)
  - understanding subsystems and revisions [45-2](#)

- IOS Software Release 12.1 and 12.2
  - managing routers [60-2](#)
- IOS Web Filter Exclusive Domain Name dialog box [18-14](#)
- IOS Web Filter Rule and Applet Scanner dialog box [18-13](#)
- IP address
  - supporting dynamic [3-36](#)
- IP addresses
  - network masks [6-80](#)
  - specifying in policies [6-87](#)
- IP Intelligence
  - settings [11-41](#)
- IP Intelligence dialog box [71-35](#)
- IP Intelligence in Report Manager [71-35](#)
- IP Intelligence Settings in Dashboard [71-2](#)
- IP Intelligence using Quick Launch [71-35](#)
- IP Intelligence widget [71-35](#)
- IP Options policy map objects
  - creating [17-21](#)
  - properties [17-71](#)
- IPS
  - IPS Module router interface settings policies [61-22](#)
  - MPC rule wizard
    - tab [57-8](#)
  - PIX/ASA/FWSM
    - identity-aware rules [13-21](#)
    - rules [57-5](#)
- IPS alerts
  - properties [68-18](#)
- IPS Certificates dialog box [44-10](#)
- IPS command [1-34](#)
- IPS Devices
  - selecting for Event Viewer [68-33](#)
- IPS devices
  - adding SSL thumbprints manually [9-5](#)
  - allowed hosts [36-7](#)
  - anomaly detection
    - configuring [41-6](#)
    - configuring histograms [41-11](#)
    - configuring learning accept mode [41-8](#)
    - configuring signatures [41-4](#)
    - configuring thresholds [41-11](#)
    - detection zones [41-3](#)
    - managing [41-1](#)
    - modes [41-2](#)
    - understanding [41-1](#)
    - understanding histograms [41-9](#)
    - understanding thresholds [41-9](#)
    - understanding worms [41-2](#)
    - when to turn off [41-4](#)
- blocking
  - configuring [43-7](#)
  - configuring ARC [43-1](#)
  - configuring blocking devices [43-14](#)
  - configuring master blocking sensors [43-13](#)
  - configuring never block hosts and networks [43-17](#)
  - configuring router blocking interfaces [43-15](#)
  - configuring user profiles [43-12](#)
  - configuring VLAN blocking interfaces [43-16](#)
  - general options [43-10](#)
  - master blocking sensor [43-6](#)
  - policy [43-8](#)
  - rate limiting [43-4](#)
  - router and switch blocking devices [43-4](#)
  - strategies [43-3](#)
  - understanding [43-1](#)
- capturing network traffic [36-2](#)
- certificates [44-10](#)
- changing those selected for reports [69-22](#)
- configuration overview [36-5](#)
- configuration overview for IOS IPS [45-4](#)
- configuring AAA [36-21](#)
- configuring Analysis Engine global variables [36-30](#)
- configuring DNS servers [36-24](#)
- configuring for event management [68-29](#)
- configuring for report management [69-3](#)
- configuring HTTP proxy server [36-24](#)
- configuring NTP [36-23](#)

- configuring OS maps [40-21](#)
- configuring SNMP [36-8](#)
- configuring target value ratings [40-17](#)
- configuring the external product interface [36-26](#)
- configuring user accounts [36-18](#)
- credentials, IPS router modules [3-20](#)
- deployment of passwords [36-17](#)
- deployment topology [36-4](#)
- discovery of passwords [36-17](#)
- event actions
  - example filter rule [68-65](#)
  - filter rule attributes [40-9](#)
  - filter rules [40-4, 40-7](#)
  - filter rules tips [40-6](#)
  - network information [40-17](#)
  - overrides [40-13](#)
  - overview [40-1](#)
  - possible actions [40-2](#)
  - process overview [40-1](#)
  - settings [40-23](#)
- Event Viewer support [68-4](#)
- getting started [36-1](#)
- global correlation
  - configuring [42-1](#)
  - configuring inspection and reputation [42-5](#)
  - configuring network participation [42-7](#)
  - data collected [42-3](#)
  - requirements and limitations [42-4](#)
  - understanding [42-1](#)
  - understanding network participation [42-3](#)
  - understanding reputation [42-2](#)
- initializing [2-12](#)
- interfaces
  - configuring [37-6](#)
  - configuring bypass mode [37-12](#)
  - configuring CDP mode [37-12](#)
  - configuring inline interface pairs [37-13](#)
  - configuring inline VLAN pairs [37-14](#)
  - configuring physical [37-9](#)
  - configuring VLAN groups [37-15](#)
  - deploying VLAN groups [37-5](#)
  - inline interface mode [37-3](#)
  - inline VLAN pair mode [37-3](#)
  - interfaces policy [37-6](#)
  - managing interface configurations [37-1](#)
  - physical interface properties [37-10](#)
  - promiscuous mode [37-2](#)
  - roles [37-1](#)
  - sensing modes overview [37-2](#)
  - understanding [37-1](#)
  - viewing summary [37-8](#)
  - VLAN group mode [37-4](#)
- IPS modules for ASA [57-15](#)
- license, exporting [11-59](#)
- licenses
  - automating [44-3](#)
  - managing [44-1](#)
  - redeploying [44-2](#)
  - updating [44-1](#)
- looking up signature policies for CS-MARS events [71-45](#)
- looking up signature policies for Event Viewer events [68-53](#)
- managing [44-1](#)
- managing user accounts and passwords [36-15](#)
- monitoring
  - removing false positive IPS events [68-65](#)
- passive OS fingerprinting [40-19](#)
- password requirements [36-20](#)
- policy discovery [5-14](#)
- rebooting [44-12](#)
- Report Manager reports
  - general VPN reports [69-18](#)
  - IPS top reports [69-17](#)
- rollback restrictions [8-66](#)
- showing containment [3-56](#)
- signatures
  - adding custom [39-19](#)

- cloning [39-21](#)
- configuring [39-4](#)
- configuring settings [39-30](#)
- defining [39-1](#)
- detailed information [39-2](#)
- editing [39-14](#)
- editing Meta engine component list [39-29](#)
- editing or tuning parameters [39-23](#)
- enabling or disabling [39-14](#)
- engines [39-20](#)
- exporting [39-9](#)
- inheritance [39-3](#)
- parameters list [39-24](#)
- policy [39-4](#)
- shortcut menu [39-10](#)
- understanding [39-1](#)
- viewing update level [39-9, 39-13](#)
- SSL certificate configuration [11-22](#)
- traffic flow notifications [36-30](#)
- tuning recommendations [36-4](#)
- understanding managed and unmanaged passwords [36-16](#)
- understanding network sensing [36-1](#)
- understanding user roles [36-15](#)
- updates
  - automatically applying [44-6](#)
  - checking for and downloading [44-5](#)
  - configuring server [44-4](#)
  - managing [44-4](#)
  - manually applying [44-7](#)
- user account attributes [36-19](#)
- viewing signature events in CS-MARS [71-44](#)
- viewing signature events in Event Viewer [68-56](#)
- virtual sensors
  - advantages [38-3](#)
  - assigning interfaces [38-4](#)
  - attributes [38-7](#)
  - configuring [38-1, 38-5](#)
  - deleting [38-10](#)
  - editing policies [38-9](#)
  - identifying [38-5](#)
  - inline TCP session tracking mode [38-3](#)
  - Normalizer mode [38-4](#)
  - renaming [38-8](#)
  - restrictions [38-3](#)
  - understanding [38-1](#)
- IPsec
  - remote access VPNs
    - access policies for IKEv2 (ASA), configuring [31-49](#)
    - access policies for IKEv2 (ASA), reference [31-44](#)
    - access policies for IKEv2 (ASA), understanding [31-43](#)
    - certificate to connection profile map policy (IKEv1) [31-36](#)
    - certificate to connection profile map rules (IKEv1) [31-37](#)
    - cluster load balancing [31-5](#)
    - configuring IKE and IPsec policies [26-1](#)
    - connection profiles [31-7](#)
    - connection profiles (ASA, PIX 7+) [31-8](#)
    - creating on ASA/PIX 7.0+ [30-25](#)
    - creating on IOS/PIX 6.3+ [30-36](#)
    - dynamic access policies [32-1, 32-2](#)
    - dynamic access policy (DAP) attributes [32-4, 32-7](#)
    - Dynamic Access policy page (ASA) [32-11](#)
    - Dynamic VTI/VRF Aware IPsec settings [33-7](#)
    - fragmentation settings [26-30, 26-43](#)
    - global settings [26-29](#)
    - group policies, configuring [31-26](#)
    - group policies, creating [31-28](#)
    - group policies, understanding [31-27](#)
    - high availability policies [33-11](#)
    - IKE proposals [26-9](#)
    - IKEv2 settings [26-36](#)
    - ISAKMP/IPsec settings [26-32](#)
    - NAT settings [26-41](#)
    - public key infrastructure (PKI) policies [26-55](#)
    - secure desktop manager policies [32-9](#)

- understanding [30-2](#)
  - understanding IKE [26-5](#)
  - understanding NAT settings [26-40](#)
  - user group policies [33-13](#)
  - VPNSM, VPN SPA, VSPA settings [33-6](#)
  - wizard [30-13](#)
- IPsec/GRE VPN
  - advantages of IPsec tunneling with GRE [27-3](#)
  - configuring [27-5](#)
  - configuring GRE modes [27-6](#)
  - dynamically addressed spokes [27-5](#)
  - implementation [27-3](#)
  - overview [27-1, 27-2](#)
  - prerequisites for successful configuration [27-3](#)
  - supported platforms [25-9](#)
  - understanding [27-2](#)
- IPsec Client Software Update dialog box [31-21](#)
- IPsec Pass Through policy map objects
  - creating [17-21](#)
  - properties [17-77](#)
- IPsec Proposal Editor dialog box
  - ASA and PIX 7.0+ devices [31-41](#)
  - IOS and PIX 6.3 devices [33-4](#)
- IPsec proposals
  - configuring for Easy VPN [28-10](#)
  - configuring for remote access VPNs
    - attributes for ASA and PIX 7.0+ devices [31-41](#)
    - attributes for IOS and PIX 6.3 devices [33-4](#)
  - configuring in site-to-site VPNs [26-21](#)
  - overview [26-2](#)
  - remote access VPNs
    - attributes for ASA and PIX 7.0+ devices [31-41](#)
    - attributes for IOS and PIX 6.3 devices [33-4](#)
    - configuring for ASA and PIX 7.0+ devices [31-40](#)
    - configuring for IOS and PIX 6.3 devices [33-3](#)
  - selecting the IKE version for devices [26-25](#)
  - understanding [26-17](#)
  - understanding crypto maps [26-18](#)
  - understanding site-to-site [26-18](#)
  - understanding transform sets [26-19](#)
  - using reverse route injection [26-20](#)
- IPsec technologies
  - defining [25-30](#)
  - mandatory and optional policies [25-6](#)
  - policies [25-5](#)
  - supported platforms [25-9](#)
  - supported platforms for remote access VPNs [30-8](#)
  - understanding [25-5](#)
- IPsec transform set objects
  - attributes [26-26](#)
  - understanding [26-19](#)
- IPsec VPN
  - zone-based firewalls [21-6](#)
- IPS event
  - definition of [40-1](#)
- IPS Health Monitor page in Dashboard [71-2](#)
- IPS interfaces
  - IPS Monitoring Information dialog box [61-23](#)
- IPS module
  - credentials [3-20](#)
- IPS Module Discovery dialog box [3-20](#)
- IPS Module interface settings policies [61-22](#)
- IPS Rules dialog box [45-10](#)
- IPS sensor
  - IDM [71-15](#)
- IPS sensors
  - default transport protocol [11-22](#)
- IPS signatures
  - finding from CS-MARS events [71-45](#)
  - finding from Event Viewer events [68-53](#)
  - tuning [68-65](#)
  - viewing related CS-MARS events [71-44](#)
  - viewing related events in Event Viewer [68-56](#)
- IPS tab, Licensing page [11-58](#)
- IPS Updates page [11-47](#)
- IP Type
  - interface configuration
    - ASA and PIX 7+ [46-58](#)

PIX 6.3 [46-30](#)

IPv4 pool objects

- attributes [6-92](#)

IPv6

- interfaces
  - add/edit [46-52](#)
  - add/edit prefixes [46-54, 46-56](#)
  - ASA/FWSM [46-47, 46-72, 46-73](#)
- management IPv4 address requirements [1-8](#)
- Neighbor cache [47-7](#)
- specifying addresses in policies [6-87](#)
- support in Security Manager [1-8](#)

IPv6 access rules

- ACL naming conventions [12-5](#)
- deleting [12-9](#)
- disabling [12-20](#)
- editing [12-10](#)
- enabling [12-20](#)
- expiration dates [16-22](#)
- identity-aware rules
  - requirements [13-3](#)
- moving [12-19](#)
- preserving ACL names [12-4](#)
- sharing ACLs among interfaces [11-18](#)
- understanding global [16-3](#)
- understanding processing order [12-2](#)

IPv6 policy map objects

- match conditions and actions [17-75, 17-89](#)
- properties [17-74, 17-88](#)

IPv6 pool objects

- attributes [6-93](#)

IPv6 static routes

- PIX/ASA/FWSM
  - configuration [55-131](#)

ISAKMP/IPsec settings

- configuring [26-32](#)

ISE Settings page [11-56](#)

ISR

- zone-based firewall

restrictions [21-3](#)

---

## J

job deployment methods

- understanding [8-8](#)

jobs

- aborting [8-55](#)
- approving [8-39](#)
- creating and editing deployment in non-Workflow mode [8-28](#)
- creating and editing deployment in Workflow mode [8-35](#)
- Deployment Manager [8-16](#)
- discarding [8-41](#)
- including devices in [8-8](#)
- rejecting [8-39](#)
- states
  - Workflow mode [8-6](#)
  - submitting [8-38](#)
- joined hub-and-spoke topology [25-5](#)
- Join Group tab (IGMP) [54-7](#)
- JumpStart [1-24](#)
- Jumpstart command [1-38](#)

---

## K

Kazaa2 class map objects

- creating [21-16](#)
- match criteria [21-21](#)

Kerberos

- configuring constrained delegation (KCD) [31-68](#)
- description [6-28](#)
- settings in AAA server objects [6-39](#)
- understanding constrained delegation (KCD) [31-66](#)

key encryption key (KEK), GET VPN [29-4](#)

key servers

- adding [29-19](#)
- choosing the rekey transport mechanism [29-6](#)



- communication flow [29-2](#)
- cooperative, for redundancy [29-7](#)
- editing [29-19](#)
- generating, synchronizing RSA keys [29-13](#)
- registration failures [29-8](#)
- registration process [29-4](#)
- security policy ACLs [29-10](#)
- key servers (GET VPN)
  - configuring [29-18](#)
- Key Servers page (GET VPN) [29-18](#)
- Key Servers Selection dialog box [29-21](#)
- knowledge base structure (IPS) [41-8](#)

---

## L

- LACP
  - interface assigned to an EtherChannel [46-11](#)
- large scale Dynamic Multipoint VPN (DMVPN)
  - mandatory and optional policies [25-6](#)
- Launch menu [1-37](#)
  - Report Manager [69-8](#)
- layer 2 SGT imposition [46-44](#)
- LDAP
  - settings in AAA server objects [6-40](#)
- LDAP Attribute Map objects
  - attributes [6-46](#)
- learning accept mode (IPS), configuring [41-8](#)
- licenses
  - configuring for ASA devices [2-11](#)
  - configuring for IOS devices [2-12](#)
  - exporting IPS [11-59](#)
  - IPS
    - automating [44-3](#)
    - managing [44-1](#)
    - redeploying [44-2](#)
    - updating [44-1](#)
  - Security Manager [10-16](#)
- License Update Status Details dialog box [11-61](#)
- licensing
  - Settings page [11-57](#)
- Lightweight Directory Access Protocol (LDAP)
  - description [6-29](#)
- lightweight signature engines [45-2](#)
- line access
  - Cisco IOS routers
    - Console Policy page [62-42](#)
    - overview [62-35](#)
    - VTY Policy page [62-50](#)
- Link Aggregation Control Protocol [46-11](#)
- Link Properties dialog box [35-20](#)
- load balancing
  - configuring in large scale DMVPN [27-16, 27-17](#)
  - configuring IOS IPS deny actions [45-8](#)
  - server attributes in large scale DMVPN [27-17](#)
- Local Policy Will Be Replaced dialog box [5-44](#)
- Local Web Filter class map objects
  - match criteria [21-29](#)
- Local web filter class map objects
  - creating [21-36](#)
- Local Web Filter parameter map objects
  - properties [21-38](#)
- Local web filter parameter map objects
  - creating [21-36](#)
- locking
  - activities [4-3](#)
  - devices and policies [5-9](#)
  - objects [5-10](#)
  - understanding [5-8](#)
  - VPN topologies [5-10](#)
- Log Buffer window [71-18](#)
- logging
  - Cisco IOS routers
    - defining NetFlow interfaces [64-15](#)
    - defining NetFlow parameters [64-6](#)
    - defining syslog servers [64-3](#)
    - Logging Setup Policy page [64-7](#)
    - NetFlow policy page [64-12](#)
    - overview [64-1](#)

- Syslog Server dialog box [64-11](#)
- Syslog Servers Policy page [64-10](#)
- syslog setup parameters [64-1](#)
- syslog severity levels [64-4](#)
- PIX/ASA/FWSM [53-1](#)
  - email notifications [53-8](#)
  - email recipients [53-8](#)
  - embedded event manager [53-3](#)
  - event lists [53-9](#)
  - event lists, add/edit [53-10](#)
  - filters [53-12](#)
  - filters, editing [53-13](#)
  - levels [53-23](#)
  - logging setup [53-14](#)
  - message classes and IDs [53-9](#)
  - message editing [53-24](#)
  - message limits [53-18](#)
  - message limits, add/edit [53-18](#)
  - NetFlow [53-1](#)
  - NetFlow, add/edit collector [53-2](#)
  - rate limit levels [53-17](#)
  - rate limits, add/edit [53-19](#)
  - server [53-21](#)
  - server setup [53-20](#)
  - set-up [53-15](#)
  - syslog class [53-11](#)
  - syslog message ID [53-11](#)
  - syslog servers [53-25](#), [53-26](#)
  - syslog servers, add/edit [53-27](#)
- syslog messages supported for CS-MARS queries [71-46](#)
- logging in to
  - Cisco Security Management Suite server [1-11](#)
  - CiscoWorks Common Services [1-11](#)
- logging into
  - Security Manager [1-10](#), [1-12](#)
- Logging page, IPS platform [36-30](#)
- logs
  - configuring audit log default settings [11-62](#)

- configuring debug levels [11-11](#)
- Logs page [11-62](#)
- loopback cells [61-50](#)
- low-latency queuing (LLQ) [65-5](#)

---

## M

- MAC address
  - interface configuration
    - ASA and PIX 7+ [46-60](#)
  - PIX/ASA/FWSM
    - add/edit [47-8](#)
    - interface [50-22](#)
    - learning [47-8](#)
    - learning, enable/disable [47-9](#)
    - table [47-7](#)
- MAC address pool objects
  - attributes [6-94](#)
- MAC exempt lists
  - configuring [15-7](#), [15-26](#)
  - rule attributes [15-27](#)
- Maintenance Operation Protocol (MOP), enabling [61-19](#)
- Management Access
  - PIX/ASA/FWSM
    - interface [49-6](#)
- management address
  - requirements for IPv6 devices [1-8](#)
- Management Center for Cisco Security Agents
  - configuring connection to IPS devices [36-26](#)
  - connection attributes [36-27](#)
  - posture ACLs [36-29](#)
- Management IP address
  - PIX/ASA/FWSM [47-10](#)
- Management IPv6
  - ASA 5505 [47-10](#)
- Manage menu [1-33](#)
- Map menu [1-32](#)
- map objects
  - class maps

- creating for inspection rules [17-21](#)
  - creating for zone-based firewall content filtering [21-36](#)
  - creating for zone-based firewall inspection [21-16](#)
- parameter maps
  - creating for zone-based firewall content filtering [21-36](#)
  - creating for zone-based firewall inspection [21-16](#)
  - Inspect properties [21-31](#)
  - Local Web Filter properties [21-38](#)
  - N2H2 properties [21-39](#)
  - Protocol Info properties [21-33](#)
  - Trend properties [21-42](#)
  - URLF Glob properties [21-45](#)
  - URL Filter properties [21-43](#)
  - Websense properties [21-39](#)
- policy maps
  - creating for inspection rules [17-21](#)
  - creating for zone-based firewall content filtering [21-36](#)
  - creating for zone-based firewall inspection [21-16](#)
  - DCE/RPC properties [17-28](#)
  - DNS properties [17-31](#)
  - ESMTP properties [17-37](#)
  - FTP properties [17-40](#)
  - GTP properties [17-43](#)
  - H.323 (ASA/PIX/FWSM) properties [17-48](#)
  - HTTP (ASA7.1.x/PIX7.1.x/FWSM3.x/IOS) properties [17-53](#)
  - HTTP (ASA7.2+/PIX7.2+) properties [17-61](#)
  - IM (ASA7.2+/PIX7.2+) properties [17-67](#)
  - IM (IOS) properties [17-70](#)
  - IP Options properties [17-71](#)
  - IPsec Pass Through properties [17-77](#)
  - IPv6 properties [17-74, 17-88](#)
  - NetBIOS properties [17-78](#)
  - regular expression group properties [17-105](#)
  - regular expression properties [17-105](#)
  - SIP (ASA/PIX/FWSM) properties [17-80, 17-90, 17-99, 17-100](#)
  - Skinny properties [17-84](#)
  - SNMP properties [17-87](#)
  - TCP Map properties [57-22](#)
  - Web Filter properties [21-47](#)
- regular expression objects
  - metacharacters [17-106](#)
  - understanding [6-77](#)
- Map Properties command [1-33](#)
- Map Rule dialog box
  - connection profile map matching rules [31-39](#)
  - connection profile maps [31-39](#)
- maps
  - access permissions [35-8](#)
  - adding existing managed devices [35-16](#)
  - adding new managed devices [35-16](#)
  - arranging elements [35-11](#)
  - background color [35-13](#)
  - background images
    - deleting [35-13](#)
    - importing [35-13](#)
    - scale and position [35-13](#)
    - setting [35-13](#)
  - centering elements [35-11](#)
  - changing the zoom level [35-11](#)
  - class maps
    - Class Map dialog box [17-27, 21-19](#)
  - creating [35-9](#)
  - default map [35-9](#)
  - deleting [35-10](#)
  - displaying devices from Device View [35-16](#)
  - displaying managed devices [35-16](#)
  - displaying your network [35-14](#)
  - elements, understanding [35-14](#)
  - excluding private and reserved networks [11-3](#)
  - exporting [35-11](#)
  - icons [35-14](#)
  - layer 3 links
    - autolink settings [11-3](#)
    - creating [35-19](#)

- deleting [35-19](#)
  - layouts, using [35-13](#)
  - linking maps [35-13](#)
  - navigation window [35-4](#)
  - objects
    - adding [35-17](#)
    - deleting [35-17](#)
  - opening [35-10](#)
  - overview [35-1](#)
  - panning [35-11](#)
  - refreshing [35-1](#)
  - removing managed devices [35-16](#)
  - renaming [35-10](#)
  - saving [35-10](#)
  - searching for nodes [35-12](#)
  - selecting elements [35-12](#)
  - setting background [35-13](#)
  - showing containment for Catalyst, ASA, PIX, IPS devices [35-16](#)
  - understanding [35-1](#)
  - undocking window [35-2](#)
  - working with [35-8](#)
- Map Settings dialog box [35-13](#)
- Map View
- cloning devices [35-22](#)
  - configuring firewall policies [35-23](#)
  - configuring firewall settings policies [35-23](#)
  - context menu
    - Layer 3 link [35-7](#)
    - managed device node [35-5](#)
    - map background [35-7](#)
    - map objects [35-7](#)
    - selected nodes [35-6](#)
    - VPN connection [35-6](#)
  - device policies, managing [35-22](#)
  - discovering device configurations [35-22](#)
  - icons for elements [35-14](#)
  - main page [35-2](#)
  - menus, context [35-5](#)
  - navigation window [35-4](#)
  - performing basic policy management [35-22](#)
  - previewing device configurations [35-22](#)
  - sharing device policies [35-22](#)
  - toolbar reference [35-4](#)
  - VPNs
    - creating [35-21](#)
    - displaying existing [35-21](#)
    - editing or showing peers [35-22](#)
    - editing policies [35-22](#)
    - managing [35-20](#)
- Map view
- Autolink Settings page [11-3](#)
  - copying between devices [35-22](#)
  - overview [1-17, 35-1](#)
- Map View command [1-31](#)
- master blocking sensor [43-6](#)
- Master Blocking Sensor dialog box [43-13](#)
- maximum receive reconstructed unit (MRRU) [61-81](#)
- maximum segment size (MSS) [61-17](#)
- MBoundary
- PIX/ASA/FWSM
    - configuration [54-9](#)
    - interface configuration [54-10](#)
- MD5 hash algorithm [26-7](#)
- memory-allocation lite [62-80](#)
- memory settings
- Cisco IOS routers
    - defining [62-78](#)
    - overview [62-78](#)
  - Memory Policy page [62-79](#)
- menu reference
- Activities [1-36](#)
  - Configuration Manager overview [1-29](#)
  - Edit (Configuration Manager) [1-31](#)
  - File (Configuration Manager) [1-29](#)
  - File (Event Viewer) [68-9](#)
  - File (Report Manager) [69-8](#)
  - Help (Configuration Manager) [1-38](#)

- Launch [1-37](#)
- Launch (Report Manager) [69-8](#)
- Manage [1-33](#)
- Map [1-32](#)
- Policy (Configuration Manager) [1-32](#)
- Tickets [1-36](#)
- Tools (Configuration Manager) [1-34](#)
- Tools (Report Manager) [69-8](#)
- View (Configuration Manager) [1-31](#)
- View (Event Viewer) [68-10](#)
- message
  - editing
    - PIX/ASA/FWSM [53-24](#)
  - PIX/ASA/FWSM
    - limits [53-18](#)
    - limits, add/edit [53-18](#)
    - rate limits, add/edit [53-19](#)
- message classes and IDs
  - PIX/ASA/FWSM [53-9](#)
- metacharacters
  - URLF Glob parameter maps [21-46](#)
- Mobile application for CSM [71-11](#)
- Modify Access List dialog box (Allowed Hosts policy) [36-7](#)
- Modify Physical Interface Map dialog box [37-10](#)
- monitoring
  - CS-MARS
    - integrating with Security Manager [71-36](#)
  - device managers, using [71-14](#)
  - device status [71-1](#)
  - network activities [71-1](#)
  - PRSM, launching [71-20](#)
- monitoring widget for server [71-7](#)
- mount point
  - PIX/ASA
    - add/edit [48-18](#)
- mount point configuration
  - ASA [48-17](#)
- Move Row Down command [1-31](#)
- Move Row Up command [1-31](#)
- MPC
  - a.k.a. Modular Policy Framework [57-6](#)
- MRoute
  - PIX/ASA/FWSM
    - configuration [54-8](#)
- MRoute page
  - description [54-8](#)
- MSN Messenger class map objects
  - creating [21-16](#)
  - match criteria [21-21](#)
- multicast
  - PIX/ASA/FWSM
    - Enable PIM and IGMP [54-1](#)
    - IGMP Access Group parameters [54-5](#)
    - IGMP Access Group tab [54-5](#)
    - IGMP Join Group parameters [54-7](#)
    - IGMP Join Group tab [54-7](#)
    - IGMP parameters [54-4](#)
    - IGMP Protocol tab [54-3](#)
    - IGMP Static Group parameters [54-6](#)
    - IGMP Static Group tab [54-6](#)
    - MBoundary configuration [54-9](#)
    - MBoundary interface configuration [54-10](#)
    - MRoute configuration [54-8](#)
    - Multicast Boundary Filter page [54-9](#)
    - Multicast Group, add/edit [54-19, 54-21](#)
    - Multicast Group rule [54-17](#)
    - PIM Bidirectional Neighbor Filter [54-14](#)
    - PIM Bidirectional Neighbor Filter tab [54-13](#)
    - PIM Neighbor Filter [54-13](#)
    - PIM Neighbor Filter tab [54-12](#)
    - PIM page [54-11](#)
    - PIM Protocol dialog box [54-12](#)
    - PIM Protocol tab [54-11](#)
    - PIM Rendezvous Point, add/edit [54-16](#)
    - PIM Rendezvous Points tab [54-15](#)
    - PIM Request Filter tab [54-18, 54-20](#)
    - PIM Route Tree tab [54-17](#)

## Multicast Boundary Filter page

description [54-9](#)multicast rekey in GET VPN [29-6](#)

## multicast routing

## PIX/ASA/FWSM

configuring on [54-1](#)IGMP [54-2](#)multicast boundary filters [54-9](#)multicast routes [54-8](#)PIM [54-11](#)Multiclass Multilink PPP (MCMP) [61-74](#)multilink PPP (MLP) [61-70](#)defining bundles [61-74](#)

## multiple users

activities [4-4](#)tickets [4-4](#)**N**

## N2H2 (Smartfilter)

configuring for web filter rules policies [18-15, 18-19](#)configuring for zone based firewall rules policies [21-36, 21-39, 21-41](#)

## N2H2 class map objects

creating [21-36](#)match criteria [21-30](#)

## N2H2 parameter map objects

creating [21-36](#)properties [21-39](#)

## NAC

posture validation not occurring [9-15](#)

## NAT

VPN traffic sent unencrypted [9-15](#)

## NAT policies

Add/Edit Per-Session NAT rules dialog boxes [24-47](#)

## NBAR

enabling protocol discovery [61-19](#)Neighbor cache [47-7](#)

## Neighbor Filter

## PIM

PIX/ASA/FWSM [54-13](#)

## Neighbor Filter tab

PIM [54-12](#)

## NetBIOS logout probe

configuring [13-15](#)requirements [13-5](#)

## NetBIOS policy map objects

creating [17-21](#)properties [17-78](#)

## NetFlow

Cisco IOS routers [64-1, 64-5](#)interface settings [64-15](#)

## configuring

on Cisco IOS routers [64-6](#)CS-MARS query [71-47](#)IOS routers [64-12](#)PIX/ASA/FWSM [53-1](#)add/edit collector [53-2](#)

## network/host objects

attributes [6-83](#)attributes, NAT [24-42](#)creating [6-82](#)naming when provisioned as object groups [6-106](#)network masks [6-80](#)optimizing when deploying firewall rules [12-35](#)understanding [6-79](#)unspecified value objects [6-86](#)using in Event Viewer filters [68-66](#)network access device (NAD) [63-9](#)

## Network Address Translation (NAT)

Add/Edit Per-Session NAT rules dialog boxes [24-47](#)

## ASA 8.3+

Add/Edit NAT rules dialog boxes [24-36](#)Translation Rules page [24-34](#)understanding [24-3](#)ASA 8.3 devices [24-33](#)Cisco IOS routers [24-5](#)Dynamic Rule dialog box [24-11](#)

- dynamic rules [24-10](#)
- Interface Specification [24-6](#)
- Static Rule dialog box [24-7](#)
- static rules [24-6](#)
- Static Rules tab [24-6](#)
- timeouts [24-13](#)
- configuring global options for VPNs [26-41](#)
- non-ASA 8.3 devices [24-17](#)
- No Proxy ARP [24-39, 24-45](#)
- PAT pool [24-41](#)
- Per-session NAT rules [24-46](#)
- PIX/ASA/FWSM
  - Address Pool dialog box [24-18](#)
  - Address Pools page [24-18](#)
  - Advanced NAT Options dialog box [24-29](#)
  - clearing XLATE on deployment [59-1](#)
  - configuring on [24-15](#)
  - configuring translation rules [24-19](#)
  - Dynamic Rules dialog box [24-22](#)
  - Dynamic Rules tab [24-22](#)
  - General tab [24-31](#)
  - non ASA 8.3 [24-17](#)
  - Policy Dynamic Rules dialog box [24-25](#)
  - Policy Dynamic Rules tab [24-24](#)
  - Select Address Pool [24-23](#)
  - Static Rules dialog box [24-27](#)
  - Static Rules tab [24-26](#)
  - Translation Exemptions (NAT 0 ACL) dialog box [24-20](#)
  - Translation Exemptions (NAT 0 ACL) tab [24-20](#)
  - Translation Options page [24-15, 24-16](#)
  - Translation Rules page [24-19](#)
  - translation types [24-3](#)
  - transparent mode [24-15](#)
  - understanding [24-2](#)
- round robin allocation [24-41](#)
- understanding NAT effects on firewall rules [12-3](#)
- understanding NAT settings for VPNs [26-40](#)
- understanding NAT traversal [26-40](#)
- Network Admission Control (NAC)
  - Cisco Trust Agent [63-9](#)
  - components [63-9](#)
  - defining identity parameters [63-13](#)
  - defining interface parameters [63-11](#)
  - defining setup parameters [63-10](#)
  - Identities tab [63-18](#)
  - Identity Action dialog box [63-19](#)
  - Identity Profile dialog box [63-19](#)
  - Interface Configuration dialog box [63-17](#)
  - Interfaces tab [63-16](#)
  - NAC Policy page [63-14](#)
  - network access device (NAD) [63-9](#)
  - on Cisco IOS routers [63-8](#)
  - Setup tab [63-14](#)
  - supported platforms [63-8](#)
  - understanding system flow [63-9](#)
- Network Information page (IPS) [40-17](#)
- network masks
  - discontiguous [6-81](#)
  - discovering [6-81](#)
  - displaying [6-81](#)
  - understanding [6-80](#)
- network participation, IPS
  - configuring [42-7](#)
  - data collected [42-3](#)
  - requirements and limitations [42-4](#)
  - understanding [42-3](#)
  - understanding global correlation [42-1](#)
  - understanding reputation [42-2](#)
- network sensing
  - capturing network traffic [36-2](#)
  - deployment topology [36-4](#)
  - overview [36-1](#)
  - tuning recommendations [36-4](#)
- Network Time Protocol (NTP)
  - Cisco IOS routers
    - creating NTP servers [62-97](#)
    - NTP Policy page [62-98](#)

- NTP Server dialog box [62-99](#)
  - overview [62-96](#)
- Never Block Host dialog box [43-17](#)
- Never Block Network dialog box [43-17](#)
- New Activity command [1-36](#)
- New Device command [1-30](#)
- New Device Groups command [1-31](#)
- New Device wizard
  - Choose Method page [3-6](#)
  - Device Grouping page [3-49](#)
  - Device Information page - Add Device from File [3-33](#)
  - Device Information page - Configuration File [3-23](#)
  - Device Information page - Network [3-14](#)
  - Device Information page - New Device [3-27](#)
- New Map command [1-33](#)
- New or Edit CS-MARS Device dialog box [11-8](#)
- New Ticket command [1-37](#)
- NHRP
  - DMVPN spoke-to-spoke connections [27-11](#)
- Node Properties dialog box [35-17](#)
- Non-Workflow mode
  - viewing
    - device details [8-26](#)
- non-Workflow mode
  - changing modes [1-27](#)
  - comparing with Workflow mode [1-22](#)
  - configuration files
    - deploying [8-28](#)
    - previewing [8-44](#)
  - configurations
    - rolling back [8-69](#)
  - creating tickets [4-14](#)
  - deployment [8-3](#)
  - deployment jobs
    - aborting [8-55](#)
  - Deployment Status Details dialog box [8-32](#)
  - opening tickets [4-15](#)
  - taking over another user session [10-23](#)
  - understanding [1-22](#)

- No Proxy ARP
  - NAT rule [24-39, 24-45](#)
  - PIX/ASA/FWSM Platform [55-1](#)
- notifications, e-mail
  - configuring SMTP server [1-26](#)
- NS Lookup [71-25, 71-29](#)
- NT
  - settings in AAA server objects [6-43](#)
- NTP
  - PIX/ASA/FWSM [52-21](#)
    - server configuration [52-21](#)
- NTP policy, IPS platform [36-23](#)
- NTP server
  - configuring for IPS devices [36-23](#)
- null0 [55-128](#)

---

## O

- object groups
  - policy discovery [5-14](#)
- object group search
  - ASA 8.3+ devices [16-25](#)
  - PIX 6.3 devices [16-27](#)
- objects
  - AAA server
    - HTTP-FORM settings [6-44](#)
    - Kerberos settings [6-39](#)
    - LDAP settings [6-40](#)
    - NT settings [6-43](#)
    - RADIUS settings [6-35](#)
    - SDI settings [6-43](#)
    - TACACS+ settings [6-38](#)
  - AAA server groups
    - attributes [6-49](#)
    - creating [6-48](#)
    - default server groups on IOS devices [6-31](#)
    - predefined authentication groups [6-30](#)
    - understanding [6-27](#)
  - AAA servers



- creating [6-32](#)
  - supported additional types for ASA/PIX/FWSM [6-28](#)
  - supported types [6-28](#)
  - understanding [6-27](#)
- access control lists
  - creating [6-53](#)
  - extended objects [6-54](#)
  - standard objects [6-56](#)
  - unified objects [6-58](#)
  - web objects [6-57](#)
- ASA group policies
  - client configuration settings [34-7](#)
  - client firewall attributes [34-7](#)
  - connection settings [34-33](#)
  - DNS/WINS settings [34-29](#), [34-30](#)
  - hardware client attributes [34-9](#)
  - IPSec settings [34-11](#)
  - split tunneling settings [34-31](#)
  - SSL VPN clientless settings [34-13](#)
  - SSL VPN full client settings [34-19](#)
  - SSL VPN settings [34-25](#)
  - technology settings [34-1](#)
- AS paths
  - properties [55-151](#)
- basic procedures [6-9](#)
- categories, using [6-13](#)
- changes in Security Manager 4.4 [1-10](#)
- Cisco Secure Desktop configuration
  - creating [33-18](#)
- class map
  - creating for inspection rules [17-21](#)
  - creating for zone-based firewall content filtering [21-36](#)
  - creating for zone-based firewall inspection [21-16](#)
- cloning (duplicating) [6-14](#)
- community lists
  - properties [55-153](#)
- configuring for ASA routing policies [55-132](#)
- configuring for remote access VPN [34-1](#)
- creating [6-9](#)
- credentials
  - attributes [28-9](#)
- DCE/RPC policy map
  - properties [17-28](#)
- deleting [6-16](#)
- DNS policy map
  - properties [17-31](#)
- editing [6-12](#)
- ESMTP policy map
  - properties [17-37](#)
- exporting [6-23](#)
- file objects
  - attributes [34-36](#)
  - selecting [34-38](#)
- FlexConfig
  - creating text objects [7-32](#)
  - properties [7-30](#)
  - property selector [7-34](#)
  - undefined variables [7-33](#)
- FlexConfigs
  - adding to policies [7-35](#)
  - changing order in policies [7-35](#)
  - changing variable values [7-35](#)
  - configuring [7-25](#)
  - configuring AAA for administrative introducers [62-84](#)
  - creating [7-28](#)
  - previewing CLI [7-35](#)
  - removing from policies [7-35](#)
  - system variables [7-7](#)
  - understanding [7-2](#)
  - variables [7-5](#), [7-6](#)
- FTP policy map
  - properties [17-40](#)
- generating usage reports [6-15](#)
- GTP policy map
  - properties [17-43](#)

- H.323 (ASA/PIX/FWSM) policy map
  - properties [17-48](#)
- HTTP (ASA7.1.x/PIX7.1.x/FWSM3.x/IOS) policy map
  - properties [17-53](#)
- HTTP (ASA7.2+/PIX7.2+) policy map
  - properties [17-61](#)
- identity user group
  - creating [13-19](#)
  - selecting [13-21](#)
  - user identity acquisition [13-2](#)
- IKE proposals
  - v1 properties [26-10](#)
  - v2 properties [26-13](#)
- IM (ASA7.2+/PIX7.2+) policy map
  - properties [17-67](#)
- IM (IOS) policy map
  - properties [17-70](#)
- importing [6-23](#)
- Inspect parameter map
  - properties [21-31](#)
- interface roles
  - creating [6-73](#)
- IP Options policy map
  - properties [17-71](#)
- IPsec Pass Through policy map
  - properties [17-77](#)
- IPSec transform sets
  - attributes [26-26](#)
  - understanding [26-19](#)
- IPv6 policy map
  - properties [17-74, 17-88](#)
- LDAP attribute map objects
  - attributes [6-46](#)
- Local Web Filter parameter map
  - properties [21-38](#)
- locking
  - effects on activities [4-3](#)
- managing [6-1](#)
- maps
  - understanding [6-77](#)
- N2H2 parameter map
  - properties [21-39](#)
- NetBIOS policy map
  - properties [17-78](#)
- network/host
  - optimizing when deploying firewall rules [12-35](#)
  - understanding [6-79](#)
  - using in Event Viewer filters [68-66](#)
- network/host objects
  - naming when provisioned as object groups [6-106](#)
- networks/hosts
  - creating [6-82](#)
  - unspecified value objects [6-86](#)
- object selectors [6-2](#)
- overrides
  - allowing [6-18](#)
  - creating for multiple devices [6-19](#)
  - creating for single device [6-19](#)
  - deleting [6-21](#)
  - managing [6-17](#)
  - understanding [6-18](#)
- overview [1-20](#)
- parameter map
  - creating for zone-based firewall content filtering [21-36](#)
  - creating for zone-based firewall inspection [21-16](#)
- PKI enrollments
  - defining CA server properties [26-58](#)
  - defining certificate attributes [26-65](#)
  - defining enrollment parameters [26-62](#)
  - defining trusted CA hierarchy [26-66](#)
  - properties [26-56](#)
- policy lists
  - properties [55-143](#)
- policy map
  - creating for inspection rules [17-21](#)

- creating for zone-based firewall content filtering [21-36](#)
  - creating for zone-based firewall inspection [21-16](#)
- port forwarding lists
  - properties [34-39](#)
- port list objects
  - naming when provisioned as object groups [6-106](#)
- port lists
  - creating [6-100](#)
  - properties [6-101](#)
- prefix lists
  - properties [55-146, 55-148](#)
- Protocol Info parameter map
  - properties [21-33](#)
- provisioning as object groups [6-105](#)
- regular expression group policy map
  - properties [17-105](#)
- regular expression objects
  - metacharacters [17-106](#)
- regular expression policy map
  - properties [17-105](#)
- route maps [55-136](#)
  - creating [55-132](#)
  - understanding [55-132](#)
- security group
  - creating [14-14](#)
- selecting for policies [6-2](#)
- service objects
  - naming when provisioned as object groups [6-106](#)
  - provisioning as object groups [6-107](#)
- services
  - creating [6-100](#)
- single sign-on server
  - properties [34-41](#)
- SIP (ASA/PIX/FWSM) policy map
  - properties [17-80, 17-90, 17-99, 17-100](#)
- Skinny policy map
  - properties [17-84](#)
- SLA monitors
  - attributes [51-10](#)
  - configuring [51-9](#)
  - understanding [51-8](#)
- SNMP policy map
  - properties [17-87](#)
- SSL VPN Bookmark
  - configuring [31-81](#)
  - post URL method and macro substitutions [31-83](#)
- SSL VPN Customization
  - configuring [31-76](#)
  - creating custom Logon page [31-80](#)
  - localizing [31-79](#)
- SSL VPN gateway
  - properties [34-63](#)
- SSL VPN smart tunnel auto sign-on list
  - attributes [34-70](#)
- SSL VPN smart tunnel list
  - attributes [34-65, 34-68](#)
  - configuring [31-84](#)
- TCP Map policy map
  - properties [57-22](#)
- text
  - creating [7-32](#)
- time ranges
  - attributes for recurring ranges [6-72](#)
  - configuring [6-71](#)
- traffic flow
  - default inspection traffic [57-20](#)
  - properties [57-18](#)
- Trend parameter map
  - properties [21-42](#)
- TrustSec security group
  - selecting [14-16](#)
- URLF Glob parameter map
  - properties [21-45](#)
- URLF Glob parameter maps
  - metacharacters [21-46](#)
- URL Filter parameter map
  - properties [21-43](#)

- user groups
  - advanced PIX 6.3 settings [34-81](#)
  - browser proxy settings [34-86](#)
  - clientless settings [34-82](#)
  - client VPN software update (IOS) settings [34-80](#)
  - DNS/WINS settings [34-76](#)
  - general settings [34-74](#)
  - IOS client settings [34-77](#)
  - IOS Xauth settings [34-79](#)
  - split tunneling settings (Easy VPN/remote access IPSec VPN) [34-76](#)
  - SSL VPN connection settings [34-87](#)
  - SSL VPN full tunnel settings [34-83](#)
  - SSL VPN split tunneling settings [34-85](#)
  - technology settings [34-72](#)
  - thin client settings [34-83](#)
- using global search to find specific objects [1-42](#)
- viewing details [6-14](#)
- Web Filter policy map
  - properties [21-47](#)
- Websense parameter map
  - properties [21-39](#)
- WINS server lists
  - attributes [34-89](#)
  - creating [31-86](#)
- object selectors [6-2](#)
- Object Usage dialog box [6-15](#)
- Obsoletes dialog box [39-30](#)
- OOB (Out of Band) Changes dialog box [8-48](#)
- OOB (out of band changes)
  - avoiding [8-47](#)
  - detecting and analyzing [8-45](#)
  - understanding [8-12](#)
- Openable Activities dialog box [4-15](#)
- Openable Tickets dialog box [4-15](#)
- Open Activity command [1-36](#)
- Open command (Report Manager) [69-8](#)
- Open Map command [1-33](#)
- Open Map dialog box [35-10](#)
- Open Ticket command [1-37](#)
- OS Identifications tab, IPS Network Information policy [40-21](#)
- OS Map dialog box [40-22](#)
- OSPF
  - interaction with NAT [55-75](#)
  - LSAs [55-75](#)
- OSPF interfaces
  - blocking LSA flooding [66-27](#)
  - defining on Cisco IOS routers [66-25](#)
  - disabling MTU mismatch detection [66-27](#)
  - Interface dialog box [66-31](#)
  - OSPF Interface Policy page [66-30](#)
  - understanding
    - authentication [66-29](#)
    - cost [66-26](#)
    - network types [66-29](#)
    - priority [66-26](#)
    - timer settings [66-28](#)
- OSPF parameters
  - dead interval [55-100, 55-116](#)
  - hello interval [55-99](#)
  - hello multiplier [55-100](#)
  - retransmit interval [55-100, 55-116](#)
  - transmit delay [55-100, 55-116](#)
- OSPF redistribution
  - defining mappings [66-22](#)
  - defining maximum prefix values [66-23](#)
  - understanding [66-22](#)
- OSPF routing
  - Cisco IOS routers
    - Area dialog box [66-37](#)
    - Area tab [66-36](#)
    - defining area settings [66-21](#)
    - defining interface settings [66-25](#)
    - defining setup parameters [66-20](#)
    - Edit Interfaces dialog box [66-36](#)
    - Max Prefix Mapping dialog box [66-41](#)
    - OSPF Process Policy page [66-34](#)

- overview [66-19](#)
- redistributing routes [66-22](#)
- Redistribution Mapping dialog box [66-39](#)
- Redistribution tab [66-38](#)
- Setup dialog box [66-35](#)
- Setup tab [66-35](#)

PIX/ASA/FWSM

- advanced settings [55-77](#)
- Area/Area networks [55-82](#)
- Area Range [55-84](#)
- Area tab [55-81](#)
- Filtering configuration [55-93](#)
- Filtering tab [55-92](#)
- Filter Rule configuration [55-94](#)
- Filter Rule tab [55-94](#)
- General tab [55-76](#)
- Interface configuration [55-98](#)
- Interface tab [55-96](#)
- Neighbors tab [55-85](#)
- policy [55-75](#)
- Range tab [55-84](#)
- Redistribution rule [55-87](#)
- Redistribution tab [55-86](#)
- static neighbor [55-85](#)
- Summary Address configuration [55-96](#)
- Summary Address tab [55-95](#)
- Virtual Link configuration [55-90](#)
- Virtual Link MD5 configuration [55-91](#)
- Virtual Link tab [55-89](#)

## OSPFv3

- LSAs [55-101](#)

## OSPFv3 routing

### PIX/ASA/FWSM

- advanced settings [55-104](#)
- Area/Area networks [55-108](#)
- Area Range [55-110](#)
- Area tab [55-108](#)
- Interface configuration [55-114](#)
- Interface tab [55-114](#)

- policy [55-100](#)
- Process tab [55-103](#)
- Redistribution rule [55-112](#)
- static neighbor [55-118](#)
- Summary Prefix configuration [55-113](#)
- Virtual Link configuration [55-111](#)

## OS version mismatches

- handling [8-13](#)

## other settings

- configuring for SSL VPN (ASA) [31-50](#)

## out-of-band changes

- avoiding [8-47](#)
- detecting and analyzing [8-45](#)
- understanding [8-12](#)

## overrides

- allowing overrides [6-18](#)
- creating for multiple devices [6-19](#)
- creating for single device [6-19](#)
- deleting [6-21](#)
- managing [6-17](#)
- understanding [6-18](#)

## overview

- activities [1-20](#)
- device monitoring [1-7](#)
- IPv6 support [1-8](#)
- policies [1-20](#)
- ticketing [1-20](#)
- user permissions [1-11](#)
- workflow [1-20](#)

## P

### P2P applications

- match conditions for zone-based firewalls [21-21](#)

### P2P policy map objects

- creating [21-16](#)
- match conditions and actions [21-35](#)

- packageMonitorInterval [44-6](#)

- packet capture [71-30](#)

- Packet Capture Wizard command [1-35](#)
- packet tracer [71-23](#)
- Pair dialog box [45-10](#)
- PAM
  - zone-based firewall
    - configuring [21-69](#)
- parameter maps
  - understanding [6-77](#)
- partial\_backup.pl command [10-30](#)
- partial mesh topologies [25-5](#)
- participation, network
  - configuring [42-7](#)
  - data collected [42-3](#)
  - requirements and limitations [42-4](#)
  - understanding [42-3](#)
  - understanding global correlation [42-1](#)
  - understanding reputation [42-2](#)
- passive OS fingerprinting on IPS sensors
  - configuring [40-21](#)
  - understanding [40-19](#)
- Password Requirements policy, IPS platform [36-20](#)
- passwords
  - admin, changing [10-24](#)
  - configuring IPS requirements [36-20](#)
  - configuring IPS user account [36-18](#)
  - discovery and deployment of IPS [36-17](#)
  - managing IPS requirements [36-15](#)
  - understanding managed and unmanaged IPS passwords [36-16](#)
- Paste command [1-31, 12-9](#)
- PAT
  - pools [24-41](#)
- PDF file
  - export HPM data as [70-29](#)
- PDM
  - device manager [71-15](#)
- Peers page [25-34](#)
- performance settings
  - configuring for SSL VPN (ASA) [31-51](#)
- performance tuning [44-6](#)
- permanent virtual connections (PVC)
  - Define Mapping dialog box [61-64](#)
  - PVC Advanced Settings dialog box [61-65](#)
  - PVC dialog box [61-55](#)
  - PVC Policy page [61-54](#)
- permanent virtual connections (PVCs)
  - defining ATM PVCs [61-50](#)
  - defining OAM management [61-53](#)
  - on Cisco IOS routers [61-46](#)
  - understanding
    - ATM management protocols [61-48](#)
    - ATM service classes [61-47](#)
    - ILMI [61-49](#)
    - Operation, Administration, and Maintenance (OAM) [61-50](#)
    - virtual paths and channels [61-46](#)
- per-session NAT rules [24-46](#)
  - Add/Edit Per-Session NAT rules dialog boxes [24-47](#)
- PIM
  - configuring on firewall devices [54-11](#)
  - PIX/ASA/FWSM
    - Bidirectional Neighbor Filter [54-14](#)
    - Bidirectional Neighbor Filter tab [54-13](#)
    - enable [54-1](#)
    - Multicast Group, add/edit [54-19, 54-21](#)
    - Multicast Group rule [54-17](#)
    - Neighbor Filter [54-13](#)
    - Neighbor Filter tab [54-12](#)
    - page [54-11](#)
    - PIM Protocol dialog box [54-12](#)
    - Protocol tab [54-11](#)
    - Rendezvous Point, add/edit [54-16](#)
    - Rendezvous Points tab [54-15](#)
    - Request Filter tab [54-18, 54-20](#)
    - Route Tree tab [54-17](#)
- ping [71-25, 71-26](#)
- Ping, TraceRoute and NSLookup command [1-35](#)
- PIX

- PDM [71-15](#)
- PIX/ASA
  - boot image/configuration [48-10](#)
    - add/edit [48-12](#)
  - failover [50-17](#)
    - settings [50-20](#)
  - interfaces
    - Advanced tab [46-41](#)
    - IP Type [46-58](#)
    - MAC address [46-60](#)
    - PPPoE Users [46-71](#)
    - redundant [46-8](#)
    - subinterfaces [46-7, 46-15](#)
    - VPDN groups [46-71](#)
  - mount point
    - add/edit [48-18](#)
  - mount point configuration [48-17](#)
  - security contexts
    - allocate interfaces [58-11](#)
    - configuration [58-9](#)
    - viewing allocated interfaces [58-12](#)
- PIX/ASA/FWSM
  - AAA [48-5](#)
    - Authentication tab [48-5](#)
  - about AAA [48-1](#)
  - bridging [47-1](#)
  - clock settings [48-14](#)
  - configuring banners [48-9](#)
  - configuring CLI prompt [48-12](#)
  - credentials [48-15](#)
  - Device Access
    - Server Access [52-1](#)
  - device administration policies [48-1](#)
  - Failover
    - bootstrap configuration [50-26](#)
    - interface MAC address [50-22](#)
  - failover
    - active/active [50-3](#)
    - interface configuration [50-23](#)
  - security context [50-25](#)
  - understanding [50-1](#)
  - interfaces
    - add/edit [46-31](#)
    - Advanced settings [46-68](#)
    - configuring [46-3](#)
    - contexts [46-5](#)
    - General tab [46-33](#)
    - managing [46-26](#)
    - operating modes [46-5](#)
    - understanding [46-3](#)
  - security contexts
    - about [58-1](#)
  - Server Access
    - AUS, add/edit server [52-3](#)
    - AUS page [52-1](#)
    - DDNS interface rule [52-19](#)
    - DDNS page [52-18](#)
    - DDNS update methods [52-19](#)
    - DDNS update methods, add/edit [52-20](#)
    - DHCP Relay, add/edit agent [52-6](#)
    - DHCP Relay, add/edit server [52-7](#)
    - DHCP Relay page [52-5](#)
    - DHCP Server, add/edit [52-12](#)
    - DHCP Server, advanced configuration [52-13](#)
    - DHCP Server, options [52-13](#)
    - DHCP Server page [52-10](#)
    - DHCPv6 Relay, add/edit agent [52-9](#)
    - DHCPv6 Relay, add/edit server [52-9](#)
    - DHCPv6 Relay page [52-7](#)
    - DNS page [52-14](#)
    - DNS server, add [52-17](#)
    - DNS server group [52-16](#)
    - NTP page [52-21](#)
    - NTP server configuration [52-21](#)
    - SMTP page [52-22](#)
    - TFTP server page [52-23](#)
  - stateful
    - stateful [50-4](#)

## PIX/ASA/FWSM Platform

## AAA

Accounting tab [48-8](#)Authorization tab [48-7](#)anti-spoofing [56-2](#)ARP configuration [47-4](#)ARP Inspection [47-5](#)enable/disable [47-6](#)ARP Table [47-3](#)configuring DHCP servers [52-10](#)configuring multicast routing [54-1](#)configuring routing [55-1](#)Device Access [49-1](#)console timeout [49-1](#)host name [51-1](#)HTTP configuration [49-3](#)HTTP page [49-2](#)ICMP rules [49-4](#)ICMP rules, add/edit [49-5](#)Management Access interface [49-6](#)Secure Shell, add/edit host [49-8](#)Secure Shell (SSH) [49-7](#), [49-8](#)SNMP host access [49-23](#)SNMP page [49-17](#)SNMP Trap configuration [49-19](#)Telnet configuration [49-30](#)Telnet page [49-30](#)user accounts [51-7](#)user accounts, add/edit [51-7](#)failover [50-10](#)failover configuration [50-1](#)failover configuration basics [50-5](#)floodguard [56-2](#)identity-aware IPS, QoS, and Connection Rules [13-21](#)

IPS, QoS, and Connection Rules

wizard [57-6](#), [57-8](#)logging [53-1](#)email notifications [53-8](#)email recipients [53-8](#)embedded event manager [53-3](#)embedded event manager, add/edit action configuration [53-7](#)embedded event manager, add/edit applet [53-4](#)embedded event manager, add/edit syslog configuration [53-6](#)event lists [53-9](#)event lists, add/edit [53-10](#)filters [53-12](#)filters, editing [53-13](#)levels [53-23](#)message classes and IDs [53-9](#)message editing [53-24](#)message limits [53-18](#)message limits, add/edit [53-18](#)NetFlow [53-1](#)NetFlow, add/edit collector [53-2](#)rate limits, add/edit [53-19](#)server [53-21](#)set-up [53-15](#)syslog class [53-11](#)syslog message ID [53-11](#)syslog servers [53-26](#)syslog servers, add/edit [53-27](#)

## MAC Address

add/edit [47-8](#)MAC Address Table [47-7](#)MAC learning [47-8](#)enable/disable [47-9](#)Management IP address [47-10](#)

## multicast

Enable PIM and IGMP [54-1](#)group, add/edit [54-19](#), [54-21](#)IGMP Access Group parameters [54-5](#)IGMP Access Group tab [54-5](#)IGMP Join Group parameters [54-7](#)IGMP Join Group tab [54-7](#)IGMP page [54-2](#)IGMP parameters [54-4](#)



- IGMP Protocol tab [54-3](#)
- IGMP Static Group parameters [54-6](#)
- IGMP Static Group tab [54-6](#)
- MBoundary configuration [54-9](#)
- MBoundary interface configuration [54-10](#)
- MRoute configuration [54-8](#)
- Multicast Boundary Filter page [54-9](#)
- Multicast Group rule [54-17](#)
- Multicast Routes page [54-8](#)
- PIM Bidirectional Neighbor Filter [54-14](#)
- PIM Bidirectional Neighbor Filter tab [54-13](#)
- PIM Neighbor Filter [54-13](#)
- PIM Neighbor Filter tab [54-12](#)
- PIM page [54-11](#)
- PIM Protocol dialog box [54-12](#)
- PIM Protocol tab [54-11](#)
- PIM Rendezvous Point, add/edit [54-16](#)
- PIM Rendezvous Points tab [54-15](#)
- PIM Request Filter tab [54-18, 54-20](#)
- PIM Route Tree tab [54-17](#)
- NAT policies [24-17](#)
  - Address Pools dialog box [24-18](#)
  - Address Pools page [24-18](#)
  - Advanced NAT Options dialog box [24-29](#)
  - Dynamic Rules dialog box [24-22](#)
  - Dynamic Rules tab [24-22](#)
  - General tab [24-31](#)
  - Policy Dynamic Rules dialog box [24-25](#)
  - Policy Dynamic Rules tab [24-24](#)
  - Select Address Pool [24-23](#)
  - Static Rules dialog box [24-27](#)
  - Static Rules tab [24-26](#)
  - Translation Exemptions (NAT 0 ACL) dialog box [24-20](#)
  - Translation Exemptions (NAT 0 ACL) tab [24-20](#)
  - Translation Options page [24-15, 24-16](#)
  - Translation Rules page [24-19](#)
- policy configuration [46-1](#)
- priority queues [57-4](#)
- priority queues configuration [57-4](#)
- routing
  - BGP [55-2, 55-3](#)
  - BGP - General tab [55-5](#)
  - BGP - IPv4 Family - Aggregate Address configuration [55-9, 55-22](#)
  - BGP - IPv4 Family - Filter configuration [55-10](#)
  - BGP - IPv4 Family - General tab [55-7, 55-21](#)
  - BGP - IPv4 Family - Neighbor configuration [55-11, 55-24](#)
  - BGP - IPv4 Family - Network configuration [55-17, 55-29](#)
  - BGP - IPv4 Family - Redistribution configuration [55-18, 55-30](#)
  - BGP - IPv4 Family - Route Injection configuration [55-19, 55-31](#)
  - BGP - IPv4 Family tab [55-6, 55-20](#)
  - EIGRP [55-32](#)
  - EIGRP - advanced settings [55-34](#)
  - EIGRP - Filter Rule configuration [55-40](#)
  - EIGRP - Filter Rules tab [55-39](#)
  - EIGRP - Interface configuration [55-48](#)
  - EIGRP - Interfaces tab [55-47](#)
  - EIGRP - neighbor configuration [55-42](#)
  - EIGRP - Neighbors tab [55-41](#)
  - EIGRP - redistribution configuration [55-44](#)
  - EIGRP - Redistribution tab [55-42](#)
  - EIGRP - Setup tab [55-36](#)
  - EIGRP - Summary Address configuration [55-46](#)
  - EIGRP - Summary Address tab [55-45](#)
  - IPv6 Static Route configuration [55-131](#)
  - IPv6 Static Route page [55-131](#)
  - No Proxy ARP [55-1](#)
  - OSPF [55-75](#)
  - OSPF - advanced settings [55-77](#)
  - OSPF - Area/Area networks [55-82](#)
  - OSPF - Area Range [55-84](#)
  - OSPF - Area tab [55-81](#)
  - OSPF - Filtering configuration [55-93](#)
  - OSPF - Filtering tab [55-92](#)

- OSPF - Filter Rule configuration [55-94](#)
- OSPF - Filter Rule tab [55-94](#)
- OSPF - General tab [55-76](#)
- OSPF - Interface configuration [55-98](#)
- OSPF - Interface tab [55-96](#)
- OSPF - Neighbors tab [55-85](#)
- OSPF - Range tab [55-84](#)
- OSPF - Redistribution rule [55-87](#)
- OSPF - Redistribution tab [55-86](#)
- OSPF - static neighbor [55-85](#)
- OSPF - Summary Address configuration [55-96](#)
- OSPF - Summary Address tab [55-95](#)
- OSPFv3 [55-100](#)
- OSPFv3 - advanced settings [55-104](#)
- OSPFv3 - Area/Area networks [55-108](#)
- OSPFv3 - Area Range [55-110](#)
- OSPFv3 - Area tab [55-108](#)
- OSPFv3 - Interface configuration [55-114](#)
- OSPFv3 - Interface tab [55-114](#)
- OSPFv3 - Process tab [55-103](#)
- OSPFv3 - Redistribution rule [55-112](#)
- OSPFv3 - static neighbor [55-118](#)
- OSPFv3 - Summary Prefix configuration [55-113](#)
- OSPFv3 - Virtual Link configuration [55-111](#)
- OSPF - Virtual Link configuration [55-90](#)
- OSPF - Virtual Link MD5 configuration [55-91](#)
- OSPF - Virtual Link tab [55-89](#)
- RIP (PIX/ASA 6.3–7.1, FWSM) [55-120](#)
- RIP (PIX/ASA 6.3–7.1, FWSM) configuration [55-121](#)
- RIP (PIX/ASA 7.2+) [55-122](#)
- RIP (PIX/ASA 7.2+) Filtering [55-126](#)
- RIP (PIX/ASA 7.2+) Filtering configuration [55-127](#)
- RIP (PIX/ASA 7.2+) Interface [55-127](#)
- RIP (PIX/ASA 7.2+) Interface configuration [55-128](#)
- RIP (PIX/ASA 7.2+) Redistribution [55-125](#)
- RIP (PIX/ASA 7.2+) Redistribution configuration [55-125](#)
- RIP (PIX/ASA 7.2+) Setup [55-123](#)
- RIP page [55-119](#)
- static null 0 routing [55-128](#)
- Static Route configuration [55-130](#)
- Static Route page [55-128, 55-130](#)
- security contexts
  - managing [58-7](#)
- security group aware IPS, QoS, and Connection Rules [14-17](#)
- security policies [56-1](#)
  - General configuration [56-3](#)
  - General page [56-1](#)
  - timeouts [56-4](#)
- service policy
  - wizard [57-6](#)
- Service Policy Rules [57-5](#)
- service policy rules [57-1](#)
- SNMP configuration [49-15](#)
- SNMP Version 3 [49-16](#)
- traffic class [57-7](#)
- Unicast Reverse Path Forwarding [56-2](#)
- user preferences [59-1](#)
  - Deployment page [59-1](#)
  - Transactional Commit page [59-2](#)
- PIX/ASA/FWSM Platform policies
  - bridging [47-1](#)
  - configuring fragment settings [56-2](#)
  - configuring NAT [24-15](#)
    - transparent mode [24-15](#)
- PIX 6.3
  - Failover
    - interface configuration [50-11](#)
  - failover [50-10](#)
  - interface configuration
    - IP Type [46-30](#)
  - interfaces
    - add/edit [46-28](#)
- PIX 7.x
  - Failover

- Add Failover Group [50-24](#)
- PIX devices
  - AAA support [6-28](#)
  - about [46-1](#)
  - monitoring service level agreements [51-8](#)
  - remote access VPNs
    - IPsec proposals [31-41](#)
    - user group policies for PIX 6.3 [33-13](#)
  - selecting policy types to manage [5-11](#)
- PIX Firewall
  - setting up AUS or CNS [2-8](#)
  - setting up SSL (HTTPS) [2-3](#)
- PIX Firewalls
  - configuring transparent firewall rules [23-1](#)
  - rollback, commands to recover from failover misconfiguration [8-68](#)
  - rollback command conflicts [8-67](#)
  - rollback restrictions for failover devices [8-65](#)
  - rollback restrictions for multiple context mode [8-64](#)
- PIX firewalls
  - access controls
    - access list compilation [16-28](#)
    - object group search [16-27](#)
  - adding SSL thumbprints manually [9-5](#)
  - FlexConfig object samples [7-23](#)
  - packet capture, using [71-30](#)
  - packet tracer, using [71-23](#)
  - SSL certificate configuration [11-22](#)
- PKI (Public Key Infrastructure) policies
  - CA server authentication methods [26-50](#)
  - defining multiple CA servers [26-53](#)
  - enrollment requirements [26-50](#)
  - understanding [26-49](#)
  - using TFTP [26-51](#)
- PKI enrollment
  - prerequisites using TFTP [26-51](#)
  - requirements [26-50](#)
- PKI enrollment objects
  - defining CA server properties [26-58](#)
  - defining certificate attributes [26-65](#)
  - defining enrollment parameters [26-62](#)
  - defining trusted CA hierarchy [26-66](#)
  - properties [26-56](#)
- plug ins
  - configuring browser [31-59](#)
- Point-to-Point Protocol (PPP)
  - defining connections [61-71](#)
  - defining multilink PPP bundles [61-74](#)
  - on Cisco IOS routers [61-70](#)
  - understanding multilink PPP (MLP) [61-70](#)
- Point-to-Point protocol (PPP)
  - PPP/MLP Policy page [61-75](#)
  - PPP dialog box [61-76](#)
- point-to-point topologies
  - description [25-3](#)
- policies
  - adding local rules to shared policies [5-45](#)
  - assigning shared policies [5-44](#)
  - basic concepts
    - inheritance vs. assignment [5-6](#)
    - local vs. shared [5-3](#)
    - managing [5-31](#)
    - overview [5-1](#)
    - rule inheritance [5-4](#)
    - service vs. platform-specific [5-2](#)
    - settings-based vs. rule-based [5-2](#)
    - shared policies in Device view or Site-to-Site VPN Manager [5-37](#)
    - signature inheritance [39-3](#)
    - status icons [5-30](#)
  - cloning shared policies [5-47](#)
  - configuring IKE and IPsec for VPNs [26-1](#)
  - copying between devices [5-33](#)
  - creating shared [5-54](#)
  - deleting shared [5-56](#)
  - Device view
    - configuring local policies [5-31](#)
    - managing [5-30](#)

- modifying assignments [5-49](#)
  - modifying shared policies [5-49](#)
- discovering [5-12](#)
- discovering on existing devices [5-15](#)
- exporting [10-12](#)
- exporting with device inventory [10-6](#)
- FlexConfigs
  - adding objects [7-35](#)
  - changing object order [7-35](#)
  - changing variable values [7-35](#)
  - configuring [7-25](#)
  - configuring AAA for administrative introducers [62-84](#)
  - editing [7-35](#)
  - FlexConfig Policy page [7-36](#)
  - previewing CLI [7-35](#)
  - removing objects [7-35](#)
  - understanding [7-2](#)
- importing [10-13](#)
- inheriting rules [5-47](#)
- locking [5-8](#)
- managing [5-1](#)
- object selectors [6-2](#)
- overview [1-20](#)
- performing basic policy management in Map view [35-22](#)
- PKI (Public Key Infrastructure) [26-49](#)
- policy banner [5-38](#)
- policy discovery FAQ [5-27](#)
- policy management and objects [5-7](#)
- Policy view
  - managing [5-50](#)
  - modifying assignments [5-54](#)
- preshared keys [26-46](#)
- renaming [5-48](#)
- router platform policies [60-1](#)
- selecting policies to manage [5-11](#)
- sharing local [5-41](#)
- sharing multiple local policies [5-42](#)
- sharing with PRSM [71-22](#)
- Site-to-Site VPN Manager
  - managing [5-30](#)
  - modifying assignments [5-49](#)
- site-to-site VPNs [25-8](#)
- specifying interfaces [6-75](#)
- specifying IP addresses [6-87](#)
- synchronizing among Security Manager servers [10-5](#)
- unassigning [5-36](#)
- unsharing [5-43](#)
- using global search to find specific policies [1-42](#)
- viewing discovery task status [5-22](#)
- VPN defaults [11-73](#)
- policy assignments
  - modifying in Device view [5-49](#)
  - modifying in Policy view [5-54](#)
  - modifying in Site-to-Site VPN Manager [5-49](#)
  - overview [1-20](#)
- policy bundles
  - cloning [5-58](#)
  - creating [5-57](#)
  - managing [5-57](#)
  - renaming [5-58, 5-59](#)
- Policy Bundle view
  - cloning policy bundles [5-58](#)
  - creating policy bundles [5-57](#)
  - renaming policy bundles [5-58, 5-59](#)
- Policy Bundle View command [1-32](#)
- policy discovery
  - AAA commands not displayed in AAA policy [5-29](#)
  - ACL naming conventions [12-5](#)
  - ACLs [5-14](#)
  - Catalyst devices [5-13](#)
  - Catalyst switches and 7600 Series routers [67-1](#)
  - Cisco IOS routers [5-13, 60-3](#)
  - frequently asked questions [5-27](#)
  - IPS devices [5-14](#)
  - network masks [6-81](#)
  - object groups [5-14](#)

- on existing devices [5-15](#)
- overview [1-20](#)
- policy objects [5-14](#)
- preserving ACL names [12-4](#)
- resolving ACL naming conflicts [12-6](#)
- security contexts [5-13](#)
- understanding [5-12](#)
- viewing task status [5-22](#)
- VPNs [5-12](#)
- web VPN restrictions [3-8](#)
- Policy Discovery Status command [1-34](#)
- Policy Discovery Status page [5-25](#)
- Policy Dynamic Translation Rule
  - PIX/ASA/FWSM [24-24](#)
    - add/edit [24-25](#)
- policy list objects
  - properties [55-143](#)
- policy management
  - Settings page [11-63](#)
- Policy Management page [11-63](#)
- policy maps
  - understanding [6-77](#)
- Policy menu
  - command reference [1-32](#)
- Policy Object Manager
  - field reference [6-4](#)
  - shortcut menu [6-8](#)
  - undocking and docking the window [6-8](#)
- Policy Object Manager window
  - creating overrides [6-19](#)
  - deleting overrides [6-21](#)
- Policy Object Overrides window [6-20](#)
- policy objects
  - AAA server
    - HTTP-FORM settings [6-44](#)
    - Kerberos settings [6-39](#)
    - LDAP settings [6-40](#)
    - NT settings [6-43](#)
    - RADIUS settings [6-35](#)
    - SDI settings [6-43](#)
    - TACACS+ settings [6-38](#)
  - AAA server groups
    - attributes [6-49](#)
    - creating [6-48](#)
    - default server groups on IOS devices [6-31](#)
    - predefined authentication groups [6-30](#)
    - understanding [6-27](#)
  - AAA servers
    - creating [6-32](#)
    - supported additional types for ASA/PIX/FWSM [6-28](#)
    - supported types [6-28](#)
    - understanding [6-27](#)
  - access control lists
    - creating [6-53](#)
    - extended objects [6-54](#)
    - standard objects [6-56, 6-58](#)
    - web objects [6-57](#)
  - ASA group policies
    - client configuration settings [34-7](#)
    - client firewall attributes [34-7](#)
    - connection settings [34-33](#)
    - DNS/WINS settings [34-29, 34-30](#)
    - hardware client attributes [34-9](#)
    - IPSec settings [34-11](#)
    - split tunneling settings [34-31](#)
    - SSL VPN clientless settings [34-13](#)
    - SSL VPN full client settings [34-19](#)
    - SSL VPN settings [34-25](#)
    - technology settings [34-1](#)
  - AS paths
    - properties [55-151](#)
- basic procedures [6-9](#)
- categories, using [6-13](#)
- changes in Security Manager 4.4 [1-10](#)
- Cisco Secure Desktop configuration
  - creating [33-18](#)
- class map

- creating for inspection rules [17-21](#)
  - creating for zone-based firewall content filtering [21-36](#)
  - creating for zone-based firewall inspection [21-16](#)
- cloning (duplicating) [6-14](#)
- community lists
  - properties [55-153](#)
- configuring for ASA routing policies [55-132](#)
- configuring for remote access VPN [34-1](#)
- connection with policy management [5-7](#)
- creating [6-9](#)
- credentials
  - attributes [28-9](#)
- DCE/RPC policy map
  - properties [17-28](#)
- deleting [6-16](#)
- DNS policy map
  - properties [17-31](#)
- editing [6-12](#)
- ESMTP policy map
  - properties [17-37](#)
- exporting [6-23](#)
- file objects
  - attributes [34-36](#)
  - selecting [34-38](#)
- FlexConfig
  - creating text objects [7-32](#)
  - properties [7-30](#)
  - property selector [7-34](#)
  - undefined variables [7-33](#)
- FlexConfigs
  - adding to policies [7-35](#)
  - changing order in policies [7-35](#)
  - changing variable values [7-35](#)
  - configuring [7-25](#)
  - configuring AAA for administrative introducers [62-84](#)
  - creating [7-28](#)
  - previewing CLI [7-35](#)
  - removing from policies [7-35](#)
  - system variables [7-7](#)
  - understanding [7-2](#)
  - variables [7-5, 7-6](#)
- FTP policy map
  - properties [17-40](#)
- generating usage reports [6-15](#)
- GTP policy map
  - properties [17-43](#)
- H.323 (ASA/PIX/FWSM) policy map
  - properties [17-48](#)
- HTTP (ASA7.1.x/PIX7.1.x/FWSM3.x/IOS) policy map
  - properties [17-53](#)
- HTTP (ASA7.2+/PIX7.2+) policy map
  - properties [17-61](#)
- identity user group
  - creating [13-19](#)
  - selecting [13-21](#)
  - user identity acquisition [13-2](#)
- IKE proposals
  - v1 properties [26-10](#)
  - v2 properties [26-13](#)
- IM (ASA7.2+/PIX7.2+) policy map
  - properties [17-67](#)
- IM (IOS) policy map
  - properties [17-70](#)
- importing [6-23](#)
- Inspect parameter map
  - properties [21-31](#)
- interface roles
  - creating [6-73](#)
  - understanding [6-72](#)
- IP Options policy map
  - properties [17-71](#)
- IPsec Pass Through policy map
  - properties [17-77](#)
- IPSec transform sets
  - attributes [26-26](#)

- understanding [26-19](#)
- IPv6 policy map
  - properties [17-74, 17-88](#)
- LDAP attribute map objects
  - attributes [6-46](#)
- Local Web Filter parameter map
  - properties [21-38](#)
- managing [6-1](#)
- maps
  - understanding [6-77](#)
- N2H2 parameter map
  - properties [21-39](#)
- NetBIOS policy map
  - properties [17-78](#)
- network/host
  - optimizing when deploying firewall rules [12-35](#)
  - understanding [6-79](#)
  - using in Event Viewer filters [68-66](#)
- network/host objects
  - naming when provisioned as object groups [6-106](#)
- networks/hosts
  - creating [6-82](#)
  - unspecified value objects [6-86](#)
- object selectors [6-2](#)
- overrides [3-51](#)
  - allowing [6-18](#)
  - creating for multiple devices [6-19](#)
  - creating for single device [6-19](#)
  - deleting [6-21](#)
  - managing [6-17](#)
  - understanding [6-18](#)
- overview [1-20](#)
- parameter map
  - creating for zone-based firewall content filtering [21-36](#)
  - creating for zone-based firewall inspection [21-16](#)
- PKI enrollments
  - defining CA server properties [26-58](#)
  - defining certificate attributes [26-65](#)
  - defining enrollment parameters [26-62](#)
  - defining trusted CA hierarchy [26-66](#)
  - properties [26-56](#)
- policy discovery [5-14](#)
- policy lists
  - properties [55-143](#)
- policy map
  - creating for inspection rules [17-21](#)
  - creating for zone-based firewall content filtering [21-36](#)
  - creating for zone-based firewall inspection [21-16](#)
- pools
  - understanding [6-92](#)
- port forwarding lists
  - properties [34-39](#)
- port list objects
  - naming when provisioned as object groups [6-106](#)
- port lists
  - creating [6-100](#)
  - properties [6-101](#)
- prefix lists
  - properties [55-146, 55-148](#)
- Protocol Info parameter map
  - properties [21-33](#)
- provisioning as object groups [6-105](#)
- regular expression group policy map
  - properties [17-105](#)
- regular expression objects
  - metacharacters [17-106](#)
- regular expression policy map
  - properties [17-105](#)
- route maps [55-136](#)
  - creating [55-132](#)
  - understanding [55-132](#)
- security group
  - creating [14-14](#)
- selecting for policies [6-2](#)
- service objects
  - naming when provisioned as object groups [6-106](#)

- provisioning as object groups [6-107](#)
- services
  - creating [6-100](#)
- Settings page [11-65](#)
- sharing with PRSM [71-22](#)
- single sign-on server
  - properties [34-41](#)
- SIP (ASA/PIX/FWSM) policy map
  - properties [17-80](#), [17-90](#), [17-99](#), [17-100](#)
- Skinny policy map
  - properties [17-84](#)
- SLA monitors
  - attributes [51-10](#)
  - configuring [51-9](#)
  - understanding [51-8](#)
- SNMP policy map
  - properties [17-87](#)
- SSL VPN bookmark
  - configuring [31-81](#)
  - post URL method and macro substitutions [31-83](#)
- SSL VPN Customization
  - configuring [31-76](#)
  - creating custom Logon page [31-80](#)
  - localizing [31-79](#)
- SSL VPN gateway
  - properties [34-63](#)
- SSL VPN smart tunnel auto sign-on lists
  - attributes [34-70](#)
- SSL VPN smart tunnel lists
  - attributes [34-65](#), [34-68](#)
  - configuring [31-84](#)
- TCP Map policy map
  - properties [57-22](#)
- text
  - creating [7-32](#)
- time ranges
  - attributes for recurring ranges [6-72](#)
  - configuring [6-71](#)
- traffic flow
  - default inspection traffic [57-20](#)
  - properties [57-18](#)
- Trend parameter map
  - properties [21-42](#)
- TrustSec security group
  - selecting [14-16](#)
- URLF Glob parameter map
  - properties [21-45](#)
- URLF Glob parameter maps
  - metacharacters [21-46](#)
- URL Filter parameter map
  - properties [21-43](#)
- user groups
  - advanced PIX 6.3 settings [34-81](#)
  - browser proxy settings [34-86](#)
  - clientless settings [34-82](#)
  - client VPN software update (IOS) settings [34-80](#)
  - DNS/WINS settings [34-76](#)
  - general settings [34-74](#)
  - IOS client settings [34-77](#)
  - IOS Xauth settings [34-79](#)
  - split tunneling settings (Easy VPN/remote access IPsec VPN) [34-76](#)
  - SSL VPN connection settings [34-87](#)
  - SSL VPN full tunnel settings [34-83](#)
  - SSL VPN split tunneling settings [34-85](#)
  - technology settings [34-72](#)
  - thin client settings [34-83](#)
- viewing details [6-14](#)
- Web Filter policy map
  - properties [21-47](#)
- Websense parameter map
  - properties [21-39](#)
- WINS server lists
  - attributes [34-89](#)
  - creating [31-86](#)
- Policy Objects command [1-34](#)
- policy objects interface
  - Interface Role dialog box [6-74](#)



- SSL VPN Bookmark Entry dialog box [34-44](#)
- SSL VPN bookmarks
  - Add or Edit Bookmarks dialog boxes [34-43](#)
  - Post Parameters dialog box [34-47](#)
- Policy Objects page [11-65](#)
- policy query
  - example report [12-34](#)
  - generating reports [12-28](#)
  - interpreting report results [12-32](#)
  - Querying Device or Policy dialog box [12-29](#)
- Policy Query Results dialog box [12-32](#)
- Policy view
  - Assignments tab [5-54](#)
  - creating shared policies [5-54](#)
  - deleting shared policies [5-56](#)
  - filtering shared policy selector [1-45](#)
  - modifying assignments [5-54](#)
  - overview [1-16](#)
  - selectors [5-52](#)
  - Shared Policy selector options [5-53](#)
  - understanding [5-50](#)
- Policy View command [1-32](#)
- pool objects
  - understanding [6-92](#)
- POP3
  - configuring for inspection rules [17-20](#)
- POP3 class map objects
  - creating [21-16](#)
  - match criteria [21-24](#)
- POP3 policy map objects
  - creating [21-16](#)
  - match conditions and actions [21-35](#)
- port application mapping
  - see PAM [21-69](#)
- port forwarding list objects
  - properties [34-39](#)
- port list objects
  - creating [6-100](#)
  - naming when provisioned as object groups [6-106](#)
- properties [6-101](#)
- ports
  - ASA 5505
    - configure [46-61](#)
  - Posture ACL dialog box [36-29](#)
- PPP dialog box
  - MLP tab [61-79](#)
  - PPP tab [61-77](#)
- PPPoE Users [46-71](#)
- preferences, user
  - PIX/ASA/FWSM [59-1](#)
  - Deployment page [59-1](#)
  - Transactional Commit page [59-2](#)
- prefix list objects
  - properties [55-146, 55-148](#)
- pre-provisioning devices [3-26](#)
- preshared keys
  - aggressive mode negotiation [26-47](#)
  - compared to certificates [26-8](#)
  - configuring policies for IKEv1 site-to-site VPNs [26-47](#)
  - FQDN (fully qualified domain name) negotiation [26-46](#)
  - main mode address negotiation [26-46](#)
  - understanding [26-46](#)
- Preview Configuration command [1-35](#)
- Prime Security Manager
  - see PRSM [71-20](#)
- Prime Security Manager command [1-37](#)
- print
  - Report Manager reports [69-27](#)
- Print command [1-31](#)
- priority queues
  - PIX/ASA/FWSM
    - configuration [57-4](#)
    - page [57-4](#)
- Product Authorization Key (PAK) [10-16](#)
- productivity categories for Trend class maps [21-20](#)
- prompt

- configuring on firewall devices [48-12](#)
- properties
  - changes with policy effects [3-53](#)
  - changing critical device [3-52](#)
  - image version changes with no policy effects [3-52](#)
  - understanding device [3-6](#)
  - viewing or changing device [3-40](#)
- Property Selector dialog box [7-34](#)
- protected networks
  - defining in GET VPN topologies [25-59](#)
  - defining in VPN topologies [25-34](#)
  - Protected Networks tab [25-45](#)
- Protocol Independent Multicast [54-11](#)
- Protocol Info parameter map objects
  - properties [21-33](#)
- Protocol Info Parameters map object
  - creating [21-16](#)
- Protocol Map dialog box [41-12](#)
- protocols
  - selecting for inspection [17-3](#)
- Protocol tab
  - IGMP [54-3](#)
- proxies
  - defining HTTP/HTTPS for SSL VPN (ASA) [31-56](#)
- proxy ARP
  - enabling on IOS routers [61-19](#)
- proxy bypass rules
  - defining HTTP/HTTPS for SSL VPN (ASA) [31-56](#)
- proxy server
  - configuring HTTP for IPS global correlation [36-24](#)
- PRSM
  - sharing
    - devices [71-22](#)
    - policy objects [71-22](#)
  - starting from Security Manager [71-20](#)
- public key infrastructure (PKI) policies
  - compared to certificates [26-8](#)
  - configuring for remote access VPNs [26-55](#)
  - configuring for site-to-site VPNs [26-52](#)

- PVC Advanced Settings dialog box
  - OAM-PVC tab [61-68](#)
  - OAM tab [61-66](#)
- PVC dialog box
  - Protocol tab [61-63](#)
  - QoS tab [61-60](#)
  - Settings tab [61-57](#)
- PVC policies
  - unable to deploy [9-15](#)

---

## Q

- QoS
  - MPC rule wizard
    - tab [57-8](#)
  - PIX/ASA/FWSM
    - identity-aware rules [13-21](#)
    - rules [57-5](#)
- QoS Class dialog box [65-23](#)
  - Edit ACLs dialog box [65-25](#)
  - Marking tab [65-26](#)
  - Matching tab [65-24](#)
  - Policing tab [65-29](#)
  - Queuing and Congestion Avoidance tab [65-27](#)
  - Shaping tab [65-31](#)
- QoS queuing
  - default class [65-6](#)
  - defining for classes [65-16](#)
  - tail drop vs. WRED [65-4](#)
  - understanding [65-4](#)
  - understanding LLQ [65-5](#)
- quality of service (QoS)
  - CEF requirements [65-2](#)
  - defining on control plane [65-12](#)
  - defining on interfaces [65-10](#)
  - defining policies [65-10](#)
  - on Cisco IOS routers [65-1](#)
  - QoS Class dialog box [65-23](#)
  - QoS Policy dialog box [65-21](#)

- Quality of Service Policy page [65-19](#)
  - understanding
    - Control Plane Policing [65-9](#)
    - default class queuing [65-6](#)
    - low-latency queuing [65-5](#)
    - marking parameters [65-3](#)
    - matching parameters [65-2](#)
    - policing parameters [65-6](#)
    - queuing parameters [65-4](#)
    - shaping parameters [65-6](#)
    - tail drop and WRED [65-4](#)
    - token-bucket mechanism [65-8](#)
  - quality of service (QoS) classes
    - defining marking parameters [65-15](#)
    - defining matching parameters [65-13](#)
    - defining policing parameters [65-17](#)
    - defining queuing parameters [65-16](#)
    - defining shaping parameters [65-18](#)
  - query
    - CS-MARS
      - access rule events [71-42](#)
      - IPS signature events [71-44](#)
      - looking up policies based on related events [71-45](#)
      - overview [71-41](#)
      - troubleshooting [71-40](#)
    - Event Viewer
      - access rule events [68-55](#)
      - IPS signature events [68-56](#)
      - looking up policies based on related events [68-53](#)
      - overview [68-54](#)
  - Querying Device or Policy dialog box [12-29](#)
  - quick filter
    - searching for events [68-46](#)
  - Quick Launch for IP Intelligence [71-35](#)
- 
- R**
- RADIUS
    - description [6-28](#)
  - settings in AAA server objects [6-35](#)
  - RAM
    - Image Manager [72-17](#)
  - rate limiting, IPS [43-4](#)
  - Real-time Log Viewer [71-18](#)
  - recovery
    - event data store [68-35](#)
  - Recurring Ranges dialog box [6-72](#)
  - Redeploy a Job dialog box [8-53](#)
  - Redeploying Licenses dialog box [11-60](#)
  - rediscovering
    - remote access VPNs [30-12](#)
  - rediscovering site-to-site VPNs [25-27](#)
  - Rediscover VPN Policies wizard [25-27](#)
  - redundant interfaces [46-8](#)
  - red X in device selector, troubleshooting [9-9](#)
  - Refresh Map command [1-33](#)
  - regular expression group objects
    - properties [17-105](#)
  - regular expression objects
    - metacharacters [17-106](#)
    - properties [17-105](#)
  - regular IPsec
    - mandatory and optional policies [25-6](#)
    - supported platforms [25-9](#)
    - supported platforms for remote access VPNs [30-8](#)
  - Reject Activity command [1-36](#)
  - Reject Activity dialog box [4-21](#)
  - Reject Deployment Job dialog box [8-20, 8-39](#)
  - remote access
    - user
      - logging off [70-29](#)
  - remote access VPN
    - system variables [7-19](#)
  - Remote Access VPN Configuration wizard
    - IPsec VPN
      - Defaults page [30-31](#)
      - IPsec Settings page (ASA) [30-29](#)
      - IPsec VPN Connection Profile page (ASA) [30-28](#)

- User Groups page [30-36](#)
- IPsec VPNs
  - creating on ASA/PIX 7.0+ [30-25](#)
  - creating on IOS/PIX 6.3+ [30-36](#)
- SSL VPN
  - Access page (ASA) [30-16](#)
  - Connection Profile page (ASA) [30-17](#)
  - Gateway and Context Page (IOS) [30-33](#)
  - Portal Page Customization Page (IOS) [30-35](#)
- SSL VPNs
  - creating on ASA devices [30-14](#)
  - creating on IOS devices [30-32](#)
- using [30-13](#)
- remote access VPNs
  - ASA devices
    - configuring bookmarks [31-81](#)
    - configuring portal appearance [31-76](#)
    - configuring WINS servers for file system access [31-86](#)
    - customizing [31-76](#)
    - post URL method and macro substitutions in bookmarks [31-83](#)
    - smart tunnels [31-84](#)
  - configuring using wizard [30-13](#)
  - device support [30-8](#)
  - discovering [30-12](#)
  - IOS devices
    - configuring bookmarks [31-81](#)
    - configuring WINS servers for file system access [31-86](#)
- IPsec [31-36](#)
  - access policies for IKEv2 (ASA), configuring [31-49](#)
  - access policies for IKEv2 (ASA), reference [31-44](#)
  - access policies for IKEv2 (ASA), understanding [31-43](#)
  - certificate to connection profile map policy (IKEv1) [31-36](#)
  - certificate to connection profile map rules (IKEv1) [31-37](#)
  - cluster load balancing [31-5](#)
  - configuring IKE and IPsec policies [26-1](#)
  - connection profiles [31-7](#)
  - connection profiles (ASA, PIX 7+) [31-8](#)
  - creating on ASA/PIX 7.0+ [30-25](#)
  - creating on IOS/PIX 6.3+ [30-36](#)
  - dynamic access policies [32-1, 32-2](#)
  - dynamic access policy (DAP) attributes [32-4, 32-7](#)
  - Dynamic Access policy page (ASA) [32-11](#)
  - Dynamic VTI/VRF Aware IPsec settings [33-7](#)
  - fragmentation settings [26-30, 26-43](#)
  - global settings [26-29](#)
  - group policies, configuring [31-26](#)
  - group policies, creating [31-28](#)
  - group policies, understanding [31-27](#)
  - high availability policies [33-11](#)
  - IKE proposals [26-9](#)
  - IKEv2 settings [26-36](#)
  - ISAKMP/IPsec settings [26-32](#)
  - NAT settings [26-41](#)
  - policy overview [30-9](#)
  - policy overview (ASA, PIX 7.0+) [31-2](#)
  - policy overview (IOS, PIX 6.3) [33-2](#)
  - public key infrastructure (PKI) policies [26-55](#)
  - secure desktop manager policies [32-9](#)
  - understanding [30-2](#)
  - understanding IKE [26-5](#)
  - understanding NAT settings [26-40](#)
  - user group policies for IOS, PIX 6.3 [33-13](#)
  - VPNISM, VPN SPA, VSPA settings [33-6](#)
- IPsec proposals
  - attributes for ASA and PIX 7.0+ devices [31-41](#)
  - attributes for IOS and PIX 6.3 devices [33-4](#)
  - configuring for ASA and PIX 7.0+ devices [31-40](#)
  - configuring for IOS and PIX 6.3 devices [33-3](#)
- managing [30-1](#)
- managing (ASA, PIX 7.0+) [31-1](#)
- managing (IOS, PIX 6.3) [33-1](#)
- rediscovering [30-12](#)
- SSL [31-43](#)

- access modes [30-4](#)
- access policies (ASA), configuring [31-49](#)
- access policies (ASA), reference [31-44](#)
- access policies (ASA), understanding [31-43](#)
- advanced settings (ASA) [31-71](#)
- AnyConnect client image settings (ASA) [31-65](#)
- AnyConnect client settings (ASA) [31-61, 31-63](#)
- AnyConnect custom attributes(ASA) [31-69, 31-70](#)
- browser plug-ins (ASA) [31-59](#)
- cluster load balancing [31-5](#)
- configuring HTTP/HTTPS proxies and proxy bypass(ASA) [31-56](#)
- connection profiles [31-7](#)
- connection profiles (ASA) [31-8](#)
- content rewrite rules (ASA) [31-53](#)
- Context Editor dialog box (IOS) [33-15, 33-16](#)
- creating on ASA [30-14](#)
- creating on IOS devices [30-32](#)
- dynamic access policies [32-1, 32-2](#)
- dynamic access policy (DAP) attributes [32-4, 32-7](#)
- Dynamic Access policy page (ASA) [32-11](#)
- encoding rules (ASA) [31-54](#)
- example [30-3](#)
- fragmentation settings [26-30, 26-43](#)
- global settings [26-29](#)
- group policies, configuring [31-26](#)
- group policies, creating [31-28](#)
- group policies, understanding [31-27](#)
- IKEv2 settings [26-36](#)
- ISAKMP/IPsec settings [26-32](#)
- Kerberos Constrained Delegation (KCD on ASA) [31-66, 31-68](#)
- limitations [30-8](#)
- managing support files [30-5](#)
- NAT settings [26-41](#)
- other settings (ASA) [31-50](#)
- performance settings (ASA) [31-51](#)
- policies (IOS) [33-14](#)
- policy overview [30-9](#)
- policy overview (ASA, PIX 7.0+) [31-2](#)
- policy overview (IOS, PIX 6.3) [33-2](#)
- prerequisites [30-7](#)
- proxy bypass rules (ASA) [31-58](#)
- public key infrastructure (PKI) policies [26-55](#)
- secure desktop manager policies [32-9](#)
- server certificate verification (ASA) [31-30, 31-32, 31-72](#)
- shared license (ASA) [31-73](#)
- shared license clients (ASA) [31-74](#)
- shared license servers (ASA) [31-75](#)
- understanding [30-2](#)
- understanding NAT settings [26-40](#)
- wizard [30-13](#)
- understanding [30-1](#)
- Remote Detection Indication (RDI) cells [61-50](#)
- Rename Policy Bundle dialog box [5-58, 5-59](#)
- Rename Policy command [1-32](#)
- Rename Policy dialog box [5-48](#)
- Rendezvous Point
  - PIX/ASA/FWSM
    - add/edit [54-16](#)
- Rendezvous Points
  - PIM [54-15](#)
- Report Manager
  - arranging window [69-29](#)
  - closing [69-31](#)
  - configuring default settings [69-28](#)
  - configuring devices to provide reports [69-3](#)
  - configuring Event Manager service [68-30](#)
  - configuring schedules [69-33](#)
  - creating custom reports [69-21](#)
  - deleting another user's custom reports [69-31](#)
  - deleting reports [69-31](#)
  - deleting schedules [69-35](#)
  - disabling schedules [69-35](#)
  - drill-down reports [69-26](#)
  - editing report settings [69-22](#)
  - enabling schedules [69-35](#)

- examples of analysis
    - monitoring botnet activity [68-62](#)
  - exporting reports [69-28](#)
  - generated report pane and toolbar [69-12](#)
  - generating reports [69-20](#)
  - managing custom reports [69-31](#)
  - opening reports [69-20](#)
  - overview [69-1](#), [69-6](#)
  - printing reports [69-27](#)
  - renaming reports [69-30](#)
  - report list [69-9](#)
  - report settings [69-10](#)
  - saving reports [69-30](#)
  - scheduling reports [69-32](#)
  - settings page [11-38](#)
  - troubleshooting [69-35](#)
  - understanding [69-1](#)
  - understanding access control [69-5](#)
  - understanding data aggregation [69-4](#)
  - understanding predefined reports
    - firewall summary botnet reports [69-15](#)
    - firewall traffic reports [69-14](#)
    - general IPS reports [69-18](#)
    - general VPN reports [69-16](#)
    - IPS top reports [69-17](#)
    - overview [69-13](#)
    - VPN top reports [69-16](#)
  - using [69-19](#)
  - viewing schedule results [69-34](#)
  - viewing schedules [69-32](#)
- Report Manager command [1-38](#)
- Report Manager in Dashboard [71-2](#)
- reports
- arranging windows [69-29](#)
  - closing [69-31](#)
  - configuring default settings for reports [69-28](#)
  - configuring devices for Report Manager reporting [69-3](#)
  - configuring schedules [69-33](#)
  - creating custom [69-21](#)
  - deleting [69-31](#)
  - deleting another user's in Report Manager [69-31](#)
  - deleting schedules [69-35](#)
  - deployment status [10-30](#)
  - disabling schedules [69-35](#)
  - discovery status [10-30](#)
  - drilling down [69-26](#)
  - editing settings [69-22](#)
  - enabling schedules [69-35](#)
  - example policy query [12-34](#)
  - exporting [69-28](#)
  - generating [69-20](#)
  - generating access rule analysis [16-34](#)
  - generating policy query [12-28](#)
  - interpreting policy query [12-32](#)
  - managing [69-1](#)
  - managing custom [69-31](#)
  - opening [69-20](#)
  - overview of available types [69-2](#)
  - predefined Report Manager
    - firewall summary botnet reports [69-15](#)
    - firewall traffic reports [69-14](#)
    - general IPS reports [69-18](#)
    - general VPN reports [69-16](#)
    - IPS top reports [69-17](#)
    - overview [69-13](#)
    - VPN top reports [69-16](#)
  - printing [69-27](#)
  - renaming [69-30](#)
- Report Manager
- generated report pane and toolbar [69-12](#)
  - overview [69-6](#)
  - report list [69-9](#)
  - report settings [69-10](#)
- saving [69-30](#)
- scheduling in Report Manager [69-32](#)
- understanding Report Manager [69-1](#)
- understanding Report Manager access control [69-5](#)

- understanding Report Manager data aggregation [69-4](#)
  - using Report Manager [69-19](#)
  - viewing schedule results [69-34](#)
  - viewing schedules [69-32](#)
- reputation
  - configuring global correlation [42-5](#)
  - understanding IPS global correlation [42-2](#)
- Request Filter
  - PIM [54-18, 54-20](#)
- Resources
  - FWSM [51-3](#)
    - add/edit [51-3](#)
    - managing [51-2](#)
- restorebackup.pl command [10-27](#)
- restore database [10-27](#)
- Resume Deployment Schedule dialog box [8-20, 8-58](#)
- retry count
  - device communication [11-22](#)
- reverse route injection [26-20](#)
- RIP
  - PIX/ASA/FWSM [55-119](#)
    - (PIX/ASA 6.3–7.1, FWSM) [55-120](#)
    - (PIX/ASA 6.3–7.1, FWSM) configuration [55-121](#)
    - (PIX/ASA 7.2+) [55-122](#)
    - (PIX/ASA 7.2+) Filtering [55-126](#)
    - (PIX/ASA 7.2+) Filtering configuration [55-127](#)
    - (PIX/ASA 7.2+) Interface [55-127](#)
    - (PIX/ASA 7.2+) Interface configuration [55-128](#)
    - (PIX/ASA 7.2+) Redistribution [55-125](#)
    - (PIX/ASA 7.2+) Redistribution configuration [55-125](#)
    - (PIX/ASA 7.2+) Setup [55-123](#)
- RIP routing
  - Cisco IOS routers
    - Authentication dialog box [66-47](#)
    - Authentication tab [66-46](#)
    - defining interface authentication [66-43](#)
    - defining setup parameters [66-42](#)
    - overview [66-42](#)
  - redistributing routes [66-44](#)
  - Redistribution Mapping dialog box [66-49](#)
  - Redistribution tab [66-48](#)
  - RIP Routing Policy page [66-45](#)
  - Setup tab [66-45](#)
- roles, IPS user [36-15](#)
- rollback
  - archived configuration files [8-70](#)
  - last deployed configuration [8-69](#)
  - when deploying to file [8-71](#)
- Rollback a Job dialog box [8-69](#)
- round robin allocation
  - PAT [24-41](#)
- routed ports
  - Create and Edit Interface dialog boxes-Routed Port mode [67-12](#)
  - understanding [67-5](#)
- route map objects
  - creating [55-132](#)
  - properties [55-136](#)
  - understanding [55-132](#)
- Router Block Interface dialog box [43-15](#)
- Router Device dialog box [43-14](#)
- router platform interface
  - 802.1x Policy page [63-5](#)
  - AAA policy
    - AAA Policy page [62-6](#)
    - Accounting tab [62-10](#)
    - Authentication tab [62-6](#)
    - Authorization tab [62-7](#)
    - Command Accounting dialog box [62-12](#)
    - Command Authorization dialog box [62-9](#)
  - accounts and credentials policy
    - Accounts and Credentials Policy page [62-15](#)
    - User Accounts dialog box [62-17](#)
  - ADSL policy
    - ADSL Policy page [61-36](#)
    - ADSL Settings dialog box [61-37](#)
  - advanced interface settings policy

- Advanced Interface Settings dialog box [61-16](#)
- Advanced Interface Settings page [61-15](#)
- BGP policy
  - BGP Neighbors dialog box [66-6](#)
  - BGP Redistribution tab [66-6](#)
  - BGP Routing Policy page [66-4](#)
  - BGP Setup tab [66-4](#)
  - Redistribution Mapping dialog box [66-7](#)
- bridging policy
  - Bridge Group dialog box [62-21](#)
  - Bridging Policy page [62-20](#)
- CEF interface policy [61-25](#)
  - CEF Interface Settings dialog box [61-26](#)
- Clock Policy page [62-23](#)
- console policy
  - AAA tab [62-44](#)
  - Accounting tab [62-47](#)
  - Authentication tab [62-44](#)
  - Authorization tab [62-45](#)
  - Command Accounting dialog box [62-61](#)
  - Command Authorization dialog box [62-60](#)
  - Console Policy page [62-42](#)
  - Setup tab [62-42](#)
- CPU Policy page [62-26](#)
- DHCP policy
  - DHCP Database dialog box [62-94](#)
  - DHCP Policy page [62-92](#)
  - IP Pool dialog box [62-94](#)
- dialer interface policy
  - Dialer Physical Interface dialog box [61-32](#)
  - Dialer Policy page [61-30](#)
  - Dialer Profile dialog box [61-31](#)
- DNS policy
  - IP Host dialog box [62-76](#)
- DNS Policy page [62-76](#)
- EIGRP policy
  - EIGRP Routing Policy page [66-13](#)
  - Interface dialog box [66-16](#)
  - Interfaces tab [66-15](#)
  - Redistribution Mapping dialog box [66-18](#)
  - Redistribution tab [66-17](#)
  - Setup dialog box [66-14](#)
  - Setup tab [66-13](#)
- Hostname Policy page [62-78](#)
- HTTP policy
  - AAA tab [62-32](#)
  - Command Authorization Override dialog box [62-34](#)
  - HTTP Policy page [62-31](#)
  - Setup tab [62-31](#)
- interfaces policy
  - Create Router Interface dialog box [61-8](#)
  - Interface Auto Name Generator dialog box [61-12](#)
  - Router Interfaces page [61-7](#)
- IPS interface policy
  - IPS Monitoring Information dialog box [61-23](#)
- IPS Module interface policy
  - IPS Module Interface Policy Page [61-22](#)
- logging policy
  - Syslog Server dialog box [64-11](#)
- logging setup policy
  - Logging Setup Policy page [64-7](#)
- Memory Policy page [62-79](#)
- NAC policy
  - Identities tab [63-18](#)
  - Identity Action dialog box [63-19](#)
  - Identity Profile dialog box [63-19](#)
  - Interface Configuration dialog box [63-17](#)
  - Interfaces tab [63-16](#)
  - NAC Policy page [63-14](#)
  - Setup tab [63-14](#)
- NAT policy
  - Dynamic Rule dialog box [24-11](#)
  - Interface Specification tab [24-6](#)
  - Static Rule dialog box [24-7](#)
  - Static Rules tab [24-6](#)
- NetFlow policy [64-5, 64-12](#)
- NTP policy



- NTP Policy page [62-98](#)
- NTP Server dialog box [62-99](#)
- OSPF policy
  - Area dialog box [66-37](#)
  - Area tab [66-36](#)
  - Interface dialog box [66-31](#)
  - Max Prefix Mapping dialog box [66-41](#)
  - OSPF Interface Policy page [66-30](#)
  - OSPF Process Policy page [66-34](#)
  - Redistribution Mapping dialog box [66-39](#)
  - Redistribution tab [66-38](#)
  - Setup dialog box [66-35](#)
  - Setup tab [66-35](#)
- PPP/MLP policy
  - PPP/MLP Policy page [61-75](#)
  - PPP dialog box [61-76](#)
- PVC policy
  - Define Mapping dialog box [61-64](#)
  - PVC Advanced Settings dialog box [61-65](#)
  - PVC dialog box [61-55](#)
  - PVC Policy page [61-54](#)
- QoS policy
  - QoS Class dialog box [65-23](#)
  - QoS Policy dialog box [65-21](#)
  - Quality of Service Policy page [65-19](#)
- RIP policy
  - Authentication dialog box [66-47](#)
  - Authentication tab [66-46](#)
  - Redistribution Mapping dialog box [66-49](#)
  - Redistribution tab [66-48](#)
  - RIP Routing Policy page [66-45](#)
  - Setup tab [66-45](#)
- Secure Device Provisioning Policy page [62-85](#)
- Secure Shell Policy page [62-64](#)
- SHDSL policy
  - Controller Auto Name Generator dialog box [61-45](#)
  - SHDSL Controller dialog box [61-42](#)
  - SHDSL Policy page [61-41](#)
- SNMP policy
  - Permission dialog box [62-70](#)
  - SNMP Policy page [62-69](#)
  - SNMP Traps dialog box [62-72](#)
  - Trap Receiver dialog box [62-71](#)
- static routing policy
  - Static Routing dialog box [66-52](#)
  - Static Routing Policy page [66-51](#)
- syslog servers policy
  - Syslog Servers Policy page [64-10](#)
- VTY policy
  - Command Accounting dialog box [62-61](#)
  - Command Authorization dialog box [62-60](#)
  - VTY Line dialog box [62-51](#)
  - VTY Policy page [62-50](#)
- router platform policies
  - Device Admin policies
    - AAA [62-2](#)
    - accounts and credentials [62-13](#)
    - CPU settings [62-25](#)
    - DHCP [62-87](#)
    - DNS [62-74](#)
    - host and domain names [62-77](#)
    - HTTP [62-28](#)
    - line access [62-35](#)
    - memory settings [62-78](#)
    - optional SSH settings [62-63](#)
    - Secure Device Provisioning (SDP) [62-81](#)
    - SNMP [62-66](#)
    - time zone settings [62-22](#)
    - transparent bridging [62-18](#)
  - Identity policies
    - 802.1x [63-1](#)
    - Network Admission Control (NAC) [63-8](#)
  - Interface policies
    - ADSL [61-33](#)
    - advanced settings [61-13](#)
    - basic settings [61-1](#)
    - dialer interfaces [61-27](#)

- PPP [61-70](#)
- PVC [61-46](#)
- SHDSL [61-40](#)
- Logging policies [64-1](#)
- NAT [24-5](#)
  - dynamic rules [24-10](#)
  - static rules [24-6](#)
  - timeouts [24-13](#)
- NetFlow policies [64-1](#)
- Network Time Protocol (NTP) [62-96](#)
- quality of service (QoS) [65-1](#)
- Routing policies
  - BGP routing [66-1](#)
  - EIGRP routing [66-8](#)
  - OSPF routing [66-19](#)
  - RIP routing [66-42](#)
  - static routing [66-50](#)
- routers
  - adding SSL thumbprints manually [9-5](#)
  - CEF interface settings policies [61-24](#)
  - Cisco Discovery Protocol (CDP) settings [61-18](#)
  - CNS call-home mode [2-10](#)
  - CNS event-bus mode [2-9](#)
  - communication requirements [2-1](#)
  - configuring SSH [2-6](#)
  - default transport protocol for 12.1 and 12.2 [11-22](#)
  - default transport protocol for 12.3 and above [11-22](#)
  - deploying configurations using TMS [8-43](#)
  - enabling directed broadcasts [61-20](#)
  - enabling Maintenance Operation Protocol (MOP) [61-19](#)
  - enabling NBAR protocol discovery [61-19](#)
  - enabling proxy ARP [61-19](#)
  - enabling unicast reverse path forwarding (RPF) [61-20](#)
  - enabling virtual fragment reassembly (VFR) [61-19](#)
  - FlexConfig object samples [7-24](#)
  - generating interface names [61-4](#)
  - ICMP message settings [61-18](#)
  - IPS Module interface settings policies [61-22](#)
  - licenses [2-12](#)
  - mixing deployment methods [9-14](#)
  - selecting policy types to manage [5-11](#)
  - setting up SSL (HTTPS) [2-4](#)
  - SSL certificate configuration [11-22](#)
  - system variables [7-13](#)
  - troubleshooting deployment [9-14](#)
- Route Tree
  - PIM [54-17](#)
- routing
  - PIX/ASA/FWSM
    - about EIGRP [55-33](#)
    - about OSPF [55-75](#)
    - about OSPFv3 [55-101](#)
    - authentication [55-75](#)
    - BGP [55-2, 55-3](#)
    - BGP - General tab [55-5](#)
    - BGP - IPv4 Family - Aggregate Address configuration [55-9, 55-22](#)
    - BGP - IPv4 Family - Filter configuration [55-10](#)
    - BGP - IPv4 Family - General tab [55-7, 55-21](#)
    - BGP - IPv4 Family - Neighbor configuration [55-11, 55-24](#)
    - BGP - IPv4 Family - Network configuration [55-17, 55-29](#)
    - BGP - IPv4 Family - Redistribution configuration [55-18, 55-30](#)
    - BGP - IPv4 Family - Route Injection configuration [55-19, 55-31](#)
    - BGP - IPv4 Family tab [55-6, 55-20](#)
    - configuring on [55-1](#)
    - configuring static routes [55-128](#)
  - EIGRP [55-32](#)
  - EIGRP - advanced settings [55-34](#)
  - EIGRP - Filter Rule configuration [55-40](#)
  - EIGRP - Filter Rules tab [55-39](#)
  - EIGRP - Interface configuration [55-48](#)
  - EIGRP - Interfaces tab [55-47](#)
  - EIGRP - neighbor configuration [55-42](#)
  - EIGRP - Neighbors tab [55-41](#)

- EIGRP - redistribution configuration [55-44](#)
- EIGRP - Redistribution tab [55-42](#)
- EIGRP - Setup tab [55-36](#)
- EIGRP - Summary Address configuration [55-46](#)
- EIGRP - Summary Address tab [55-45](#)
- IPv6 Static Route configuration [55-131](#)
- No Proxy ARP [55-1](#)
- OSPF [55-75](#)
- OSPF - advanced settings [55-77](#)
- OSPF - Area/Area networks [55-82](#)
- OSPF - Area Range [55-84](#)
- OSPF - Area tab [55-81](#)
- OSPF - Filtering configuration [55-93](#)
- OSPF - Filtering tab [55-92](#)
- OSPF - Filter Rule configuration [55-94](#)
- OSPF - Filter Rule tab [55-94](#)
- OSPF - General tab [55-76](#)
- OSPF - Interface configuration [55-98](#)
- OSPF - Interface tab [55-96](#)
- OSPF - Neighbors tab [55-85](#)
- OSPF - Range tab [55-84](#)
- OSPF - Redistribution rule [55-87](#)
- OSPF - Redistribution tab [55-86](#)
- OSPF - static neighbor [55-85](#)
- OSPF - Summary Address configuration [55-96](#)
- OSPF - Summary Address tab [55-95](#)
- OSPFv3 [55-100, 55-101](#)
- OSPFv3 - advanced settings [55-104](#)
- OSPFv3 - Area/Area networks [55-108](#)
- OSPFv3 - Area Range [55-110](#)
- OSPFv3 - Area tab [55-108](#)
- OSPFv3 - Interface configuration [55-114](#)
- OSPFv3 - Interface tab [55-114](#)
- OSPFv3 - Process tab [55-103](#)
- OSPFv3 - Redistribution rule [55-112](#)
- OSPFv3 - static neighbor [55-118](#)
- OSPFv3 - Summary Prefix configuration [55-113](#)
- OSPFv3 - Virtual Link configuration [55-111](#)
- OSPF - Virtual Link configuration [55-90](#)
- OSPF - Virtual Link MD5 configuration [55-91](#)
- OSPF - Virtual Link tab [55-89](#)
- RIP (PIX/ASA 6.3–7.1, FWSM) [55-120](#)
- RIP (PIX/ASA 6.3–7.1, FWSM) configuration [55-121](#)
- RIP (PIX/ASA 7.2+) [55-122](#)
- RIP (PIX/ASA 7.2+) Filtering [55-126](#)
- RIP (PIX/ASA 7.2+) Filtering configuration [55-127](#)
- RIP (PIX/ASA 7.2+) Interface [55-127](#)
- RIP (PIX/ASA 7.2+) Interface configuration [55-128](#)
- RIP (PIX/ASA 7.2+) Redistribution [55-125](#)
- RIP (PIX/ASA 7.2+) Redistribution configuration [55-125](#)
- RIP (PIX/ASA 7.2+) Setup [55-123](#)
- RIP page [55-119](#)
- static null 0 routing [55-128](#)
- Static Route configuration [55-130](#)
- VPNs with routing processes [9-13](#)
- routing redistribution
  - BGP Redistribution Mapping dialog box [66-7](#)
  - BGP Redistribution tab [66-6](#)
  - EIGRP Redistribution Mapping dialog box [66-18](#)
  - EIGRP Redistribution tab [66-17](#)
  - into BGP [66-3](#)
  - into EIGRP [66-12](#)
  - into OSPF [66-22](#)
  - into RIP [66-44](#)
  - OSPF Max Prefix Mapping dialog box [66-41](#)
  - OSPF Process Redistribution tab [66-38](#)
  - OSPF Redistribution Mapping dialog box [66-39](#)
  - RIP Redistribution Mapping dialog box [66-49](#)
  - RIP Redistribution tab [66-48](#)
- RPC
  - configuring for inspection rules [17-20](#)
- RSA keys
  - generating, synchronizing for GET VPN [29-13](#)
- Rule Analysis Detail Report
  - generating [16-34](#)

- Rule Combiner Results dialog box [12-25](#)
  - rule expiration
    - configuring for access rules [16-22](#)
  - Rule Expiration page [11-68](#)
  - rules
    - default [5-5](#)
    - mandatory [5-5](#)
  - rules tables
    - adding rules [12-9](#)
    - columns and headings [1-49](#)
    - commands, Edit menu [1-31](#)
    - converting IPv4 rules [12-28](#)
    - cut, copy, and paste rules [12-9](#)
    - disabling rules [12-20](#)
    - enabling rules [12-20](#)
    - filtering [1-48](#)
    - finding and replacing items [12-16](#)
    - removing rules [12-9](#)
    - sections [12-20](#)
    - using [12-7](#)
  - rule tables
    - moving rules [12-19](#)
  - RX-Boot Mode Credentials dialog box [3-48](#)
- 
- S**
- Save As command (Report Manager) [69-8](#)
  - Save command [1-30](#)
  - Save command (Report Manager) [69-8](#)
  - Save Map As command [1-33](#)
  - Save Map As dialog box [35-10](#)
  - Save Map command [1-33](#)
  - ScanSafe Web Security Settings [20-6](#)
  - scenarios
    - creating FlexConfigs [7-25](#)
  - SCEP (Simple Certificate Enrollment Protocol)
    - CA server authentication [26-50](#)
  - Schedule dialog box [8-56](#)
  - schedules
    - configuring in Report Manager [69-33](#)
    - deleting in Report Manager [69-35](#)
    - disabling in Report Manager [69-35](#)
    - enabling in Report Manager [69-35](#)
    - reports in Report Manager [69-32](#)
    - viewing in Report Manager [69-32](#)
    - viewing results in Report Manager [69-34](#)
  - schedules, deployment
    - changes not deployed [8-55](#)
    - creating or editing [8-55](#)
    - including devices [8-8](#)
    - suspending or resuming [8-58](#)
    - viewing status and history [8-26](#)
  - scripting language
    - examples
      - looping [7-3](#)
      - looping with if/else statements [7-4](#)
      - looping with two-dimensional arrays [7-3](#)
    - FlexConfig objects [7-3](#)
  - SDEE
    - subscriptions for IOS IPS [45-8](#)
  - SDI
    - settings in AAA server objects [6-43](#)
  - SDM
    - access rule look-up [71-19](#)
    - device manager [71-16](#)
  - searching for items [1-42](#)
  - Secondary Interface Specific Authentication Server Groups dialog box [31-16](#)
  - secure desktop manager policies
    - configuring [32-9](#)
  - Secure Device Provisioning (SDP)
    - configuring AAA for administrative introducers [62-84](#)
    - contents of bootstrap [62-82](#)
    - defining policies [62-83](#)
    - Secure Device Provisioning page [62-85](#)
    - understanding
      - introducers [62-81](#)

- petitioners [62-81](#)
  - registrars [62-81](#)
  - TTI [62-81](#)
  - workflow [62-82](#)
- SecureID servers (SDI)
  - description [6-29](#)
- Secure Shell
  - PIX/ASA/FWSM
    - add/edit SSH host [49-8](#)
- Secure Shell (SSH)
  - Cisco IOS routers
    - defining optional settings [62-63](#)
    - optional settings overview [62-63](#)
    - Secure Shell Policy page [62-64](#)
  - PIX/ASA/FWSM [49-7, 49-8](#)
- security associations
  - GET VPN
    - using passive mode during migration [29-23](#)
- security certificate
  - invalid during discovery [9-7](#)
- security context
  - Failover page [50-25](#)
- security contexts
  - adding to failover group 2 [50-8](#)
  - admin context
    - overview [58-1](#)
  - configuring multiple [58-3](#)
  - configuring on firewall devices [58-1](#)
  - deleting FWSM [58-7](#)
  - discovering policies [5-13](#)
  - FWSM [58-8](#)
    - configuration [58-8](#)
    - managing Resources [51-2](#)
    - Resources [51-3](#)
  - PIX/ASA
    - allocate interfaces [58-11](#)
    - configuration [58-9](#)
    - viewing allocated interfaces [58-12](#)
  - PIX/ASA/FWSM
    - enabling multi-context mode [58-1](#)
    - managing [58-7](#)
    - restoring single-context mode [58-1](#)
  - rollback, commands to recover from failover misconfiguration [8-68](#)
  - rollback command conflicts [8-67](#)
  - rollback restrictions [8-64](#)
  - rollback restrictions for failover devices [8-65](#)
  - showing containment [3-56](#)
- security group aware firewall policies
  - configuring ISE settings [11-56](#)
- security group-aware firewall policies
  - configuring [14-7](#)
  - managing [14-1](#)
  - overview [14-1](#)
- security group objects
  - creating [14-14](#)
- security group tagging [46-44](#)
- Security Manager
  - access by CS-MARS [71-37](#)
  - applications overview [1-6](#)
  - archiving (backing up) the event data store [68-35](#)
  - backing up and restoring database [10-24](#)
  - Configuration Manager interface overview [1-14](#)
  - configuring administrative settings [11-1](#)
  - getting started [1-1](#)
  - how permissions affect what you can do [1-11](#)
  - initial configuration [1-25](#)
  - installing client [1-12](#)
  - integrating with Security Manager [71-36](#)
  - integration with CS-MARS [71-36](#)
  - logging into and exiting [1-12](#)
  - managing the server [10-1](#)
  - overview [1-1](#)
  - recovering the event data store [68-35](#)
  - reports overview [69-2](#)
  - server cluster
    - managing [10-2](#)
    - overview [10-2](#)

- splitting server [10-3](#)
  - synchronizing shared policies [10-5](#)
- server management and administration [10-1](#)
- using [1-13](#)
- Security Manager Administration command [1-36](#)
- Security Manager Diagnostics command [1-36](#)
- Security Manager Online command [1-38](#)
- security policies
  - PIX/ASA/FWSM [56-1](#)
    - General configuration [56-3](#)
    - General page [56-1](#)
    - timeouts [56-4](#)
- security ratings for Trend class maps [21-20](#)
- see LACP [46-11](#)
- Select Address Pool
  - PIX/ASA/FWSM Platform [24-23](#)
- Select Interfaces dialog box [35-20](#)
- selectors
  - filtering items [1-45](#)
  - using [1-45](#)
- selector trees
  - selecting items [1-45](#)
- Select Policy Object dialog box [35-18](#)
- Select VPN to Configure dialog box [35-22](#)
- self near-end crosstalk (SNEXT) [61-45](#)
- Self zone [21-5](#)
- sensors, IPS
  - allowed hosts [36-7](#)
  - anomaly detection
    - configuring [41-6](#)
    - configuring histograms [41-11](#)
    - configuring learning accept mode [41-8](#)
    - configuring signatures [41-4](#)
    - configuring thresholds [41-11](#)
    - detection zones [41-3](#)
    - managing [41-1](#)
    - modes [41-2](#)
    - understanding [41-1](#)
    - understanding histograms [41-9](#)
  - understanding thresholds [41-9](#)
  - understanding worms [41-2](#)
  - when to turn off [41-4](#)
- blocking
  - configuring [43-7](#)
  - configuring ARC [43-1](#)
  - configuring blocking devices [43-14](#)
  - configuring master blocking sensors [43-13](#)
  - configuring never block hosts and networks [43-17](#)
  - configuring router blocking interfaces [43-15](#)
  - configuring user profiles [43-12](#)
  - configuring VLAN blocking interfaces [43-16](#)
  - general options [43-10](#)
  - master blocking sensor [43-6](#)
  - policy [43-8](#)
  - rate limiting [43-4](#)
  - router and switch blocking devices [43-4](#)
  - strategies [43-3](#)
  - understanding [43-1](#)
- capturing network traffic [36-2](#)
- certificates [44-10](#)
- configuration overview [36-5](#)
- configuration overview for IOS IPS [45-4](#)
- configuring AAA [36-21](#)
- configuring Analysis Engine global variables [36-30](#)
- configuring DNS servers [36-24](#)
- configuring HTTP proxy server [36-24](#)
- configuring NTP [36-23](#)
- configuring OS maps [40-21](#)
- configuring SNMP [36-8](#)
- configuring target value ratings [40-17](#)
- configuring the external product interface [36-26](#)
- configuring user accounts [36-18](#)
- deployment of passwords [36-17](#)
- deployment topology [36-4](#)
- discovery of passwords [36-17](#)
- event actions
  - example filter rule [68-65](#)

- filter rule attributes [40-9](#)
- filter rules [40-4, 40-7](#)
- filter rules tips [40-6](#)
- network information [40-17](#)
- overrides [40-13](#)
- overview [40-1](#)
- possible actions [40-2](#)
- process overview [40-1](#)
- settings [40-23](#)
- getting started [36-1](#)
- global correlation
  - configuring [42-1](#)
  - configuring inspection and reputation [42-5](#)
  - configuring network participation [42-7](#)
  - data collected [42-3](#)
  - requirements and limitations [42-4](#)
  - understanding [42-1](#)
  - understanding network participation [42-3](#)
  - understanding reputation [42-2](#)
- interfaces
  - configuring [37-6](#)
  - configuring bypass mode [37-12](#)
  - configuring CDP mode [37-12](#)
  - configuring inline interface pairs [37-13](#)
  - configuring inline VLAN pairs [37-14](#)
  - configuring physical [37-9](#)
  - configuring VLAN groups [37-15](#)
  - deploying VLAN groups [37-5](#)
  - inline interface mode [37-3](#)
  - inline VLAN pair mode [37-3](#)
  - interfaces policy [37-6](#)
  - managing interface configurations [37-1](#)
  - physical interface properties [37-10](#)
  - promiscuous mode [37-2](#)
  - roles [37-1](#)
  - sensing modes overview [37-2](#)
  - understanding [37-1](#)
  - viewing summary [37-8](#)
  - VLAN group mode [37-4](#)
- IPS modules for ASA [57-15](#)
- licenses
  - automating [44-3](#)
  - managing [44-1](#)
  - redeploying [44-2](#)
  - updating [44-1](#)
- managing [44-1](#)
- managing user accounts and passwords [36-15](#)
- monitoring
  - removing false positive IPS events [68-65](#)
- passive OS fingerprinting [40-19](#)
- password requirements [36-20](#)
- rebooting [44-12](#)
- signatures
  - adding custom [39-19](#)
  - cloning [39-21](#)
  - configuring [39-4](#)
  - configuring settings [39-30](#)
  - defining [39-1](#)
  - detailed information [39-2](#)
  - editing [39-14](#)
  - editing Meta engine component list [39-29](#)
  - editing or tuning parameters [39-23](#)
  - enabling or disabling [39-14](#)
  - engines [39-20](#)
  - exporting [39-9](#)
  - inheritance [39-3](#)
  - parameters list [39-24](#)
  - policy [39-4](#)
  - shortcut menu [39-10](#)
  - understanding [39-1](#)
  - viewing update level [39-9, 39-13](#)
- traffic flow notifications [36-30](#)
- tuning recommendations [36-4](#)
- understanding managed and unmanaged passwords [36-16](#)
- understanding network sensing [36-1](#)
- understanding user roles [36-15](#)
- updates

- automatically applying [44-6](#)
  - checking for and downloading [44-5](#)
  - configuring server [44-4](#)
  - managing [44-4](#)
  - manually applying [44-7](#)
- user account attributes [36-19](#)
- virtual sensors
  - advantages [38-3](#)
  - assigning interfaces [38-4](#)
  - attributes [38-7](#)
  - configuring [38-1, 38-5](#)
  - deleting [38-10](#)
  - editing policies [38-9](#)
  - identifying [38-5](#)
  - inline TCP session tracking mode [38-3](#)
  - Normalizer mode [38-4](#)
  - renaming [38-8](#)
  - restrictions [38-3](#)
  - understanding [38-1](#)
- sensorupdate.properties [44-6](#)
- server
  - managing Security Manager [10-1](#)
  - syslog
    - PIX/ASA/FWSM [53-21, 53-26](#)
- server, IPS update [44-4](#)
- server, Security Manager
  - configuring administrative settings [11-1](#)
  - managing or administrating [10-1](#)
- Server Access
  - PIX/ASA/FWSM [52-1](#)
    - AUS, add/edit server [52-3](#)
    - AUS page [52-1](#)
    - DDNS interface rule [52-19](#)
    - DDNS page [52-18](#)
    - DDNS update methods [52-19](#)
    - DDNS update methods, add/edit [52-20](#)
    - DHCP Relay, add/edit agent [52-6](#)
    - DHCP Relay, add/edit server [52-7](#)
    - DHCP Relay page [52-5](#)
    - DHCP Server, add/edit [52-12](#)
    - DHCP Server, advanced configuration [52-13](#)
    - DHCP Server, options [52-13](#)
    - DHCP Server page [52-10](#)
    - DHCPv6 Relay, add/edit agent [52-9](#)
    - DHCPv6 Relay, add/edit server [52-9](#)
    - DHCPv6 Relay page [52-7](#)
    - DNS page [52-14](#)
    - DNS server, add [52-17](#)
    - DNS server group [52-16](#)
    - NTP page [52-21](#)
    - NTP server configuration [52-21](#)
    - SMTP page [52-22](#)
    - TFTP server page [52-23](#)
- server cluster, Security Manager
  - managing [10-2](#)
  - overview [10-2](#)
  - splitting server [10-3](#)
  - synchronizing shared policies [10-5](#)
- Server Load Balance page [27-17](#)
- server load balancing
  - configuring for large scale DMVPN [27-16, 27-17](#)
  - server attributes in large scale DMVPN [27-17](#)
- Server Properties dialog box [3-38](#)
- Server Security page [10-2](#)
- Server Security Settings page [11-69](#)
- Service
  - ASA CX
    - Auth Proxy Configuration [57-17](#)
  - PIX/ASA/FWSM
    - identity-aware IPS, QoS, and Connection Rules [13-21](#)
    - IPS, QoS, and Connection Rules wizard [57-6, 57-8](#)
    - policy wizard [57-6](#)
    - priority queues [57-4](#)
    - priority queues configuration [57-4](#)
    - security group aware IPS, QoS, and Connection Rules [14-17](#)
    - Service Policy Rules [57-5](#)



- traffic class [57-7](#)
- service, Event Manager
  - configuring [68-30](#)
  - managing [68-30](#)
  - monitoring event store disk space [68-34](#)
  - monitoring status [68-31](#)
  - selecting devices to monitor [68-33](#)
  - starting or stopping [68-30](#)
  - status icon colors [68-31](#)
- service agreement contracts [10-16](#)
- Service Contents dialog box [12-14](#)
- Service Device Provisioning (SDP)
  - on Cisco IOS routers [62-81](#)
- Service Module Credentials dialog box [3-19](#)
- Service Modules
  - Catalyst
    - firewalls [46-1](#)
- service objects
  - creating [6-100](#)
  - naming when provisioned as object groups [6-106](#)
  - provisioning as object groups [6-107](#)
  - Services dialog box [6-103](#)
  - understanding [6-100](#)
- service policy
  - configuring identity-aware rules [13-21](#)
  - configuring security group aware rules [14-17](#)
- Service Policy (MPC) Rule Wizard [57-6](#)
  - Connection Settings tab [57-8](#)
  - CSC tab [57-8](#)
  - CXSC tab [57-8](#)
  - IPS tab [57-8](#)
  - QoS tab [57-8](#)
  - User Statistics tab [57-8](#)
- service policy rules
  - configuring on firewall devices [57-1](#)
- services
  - specifying [6-100](#)
- Set Linked Map dialog box [35-13](#)
- Settings
  - ScanSafe [20-6](#)
  - settings
    - device communications [9-4](#)
  - Settings, Event Actions policy [40-23](#)
  - settings, report
    - editing [69-22](#)
  - Settings pages
    - Autolink [11-3](#)
    - CCO Settings [11-4](#)
    - Configuration Archive [11-6](#)
    - CS-MARS [11-7](#)
    - CSM Mobile [11-9](#)
    - Customize Desktop [11-10](#)
    - Debug Options [11-11](#)
    - Deployment [11-13](#)
    - Device Communication [11-21](#)
    - Device Groups [11-24](#)
    - Discovery [11-25](#)
    - Event Management [11-27, 11-35](#)
      - CPU Throttling Policy [11-33](#)
    - Health and Performance Monitor [11-36](#)
    - Identity [11-38](#)
    - Image Manager [11-41](#)
    - IP Intelligence Settings [11-41](#)
    - ISE [11-56](#)
    - Licensing [11-57](#)
    - Logs [11-62](#)
    - Policy Management [11-63](#)
    - Policy Objects [11-65](#)
    - Report Manager [11-38](#)
    - Rule Expiration [11-68](#)
    - Server Security [11-69](#)
    - Take Over User Session [11-70](#)
    - Ticket Management [11-71](#)
    - Token Management [11-72](#)
    - VPN Policy Defaults [11-73](#)
    - Workflow [11-75](#)
  - SHA hash algorithm [26-6](#)
  - Share Device Policies command [1-32](#)

- shared license clients
  - configuring [31-74](#)
- shared license servers
  - configuring [31-75](#)
- shared policies
  - cloning (copying) [5-47](#)
  - Device view
    - adding local rules to selected device [5-45](#)
    - assigning to selected device [5-44](#)
    - modifying [5-49](#)
    - modifying assignments [5-49](#)
    - policy banner [5-38](#)
    - sharing local [5-41](#)
    - sharing multiple local policies [5-42](#)
    - unsharing [5-43](#)
    - working with [5-37](#)
  - exporting [10-12](#)
  - exporting with device inventory [10-6](#)
  - importing [10-13](#)
  - inheriting policies [5-47](#)
  - Policy Bundle view
    - cloning [5-58](#)
    - creating [5-57](#)
    - renaming [5-58, 5-59](#)
  - Policy view
    - creating [5-54](#)
    - deleting [5-56](#)
    - managing [5-50](#)
    - modifying assignments [5-54](#)
  - renaming [5-48](#)
  - Site-to-Site VPN Manager
    - assigning to selected device [5-44](#)
    - modifying assignments [5-49](#)
    - sharing local [5-41](#)
    - unsharing [5-43](#)
    - working with [5-37](#)
  - synchronizing among Security Manager servers [10-5](#)
- Shared Policy Assignments dialog box [5-49](#)
- Share Policies wizard [5-42](#)
- Share Policy command [1-32](#)
- Share Policy dialog box [5-41](#)
- SHDSL
  - Controller Auto Name Generator dialog box [61-45](#)
  - defining controllers [61-40](#)
  - on Cisco IOS routers [61-40](#)
  - SHDSL Controller dialog box [61-42](#)
  - SHDSL Policy page [61-41](#)
- shortcut menu commands
  - policies in Device view and Site-to-Site VPN Manager [5-40](#)
- Show Containment command [1-35](#)
- Show Devices On Map command [1-33](#)
- Show Devices on Map dialog box [35-16](#)
- Show Navigation Window command [1-33](#)
- Show VPN Peers dialog box [35-22](#)
- Show VPNs On Map command [1-33](#)
- Show VPNs on Map dialog box [35-21](#)
- signatures
  - adding custom [39-19](#)
  - cloning [39-21](#)
  - configuring [39-4](#)
  - configuring settings [39-30](#)
  - defining [39-1](#)
  - detailed information [39-2](#)
  - editing [39-14](#)
  - editing Meta engine component list [39-29](#)
  - editing or tuning parameters [39-23](#)
  - enabling or disabling [39-14](#)
  - engines [39-20](#)
  - exporting [39-9](#)
  - finding from CS-MARS events [71-45](#)
  - finding from Event Viewer events [68-53](#)
  - inheritance [39-3](#)
  - parameters list [39-24](#)
  - policy [39-4](#)
  - selecting category for Cisco IOS IPS [45-6](#)
  - shortcut menu [39-10](#)
  - tuning [68-65](#)

- tuning recommendations [36-4](#)
- understanding [39-1](#)
- updates
  - automatically applying [44-6](#)
  - checking for and downloading [44-5](#)
  - configuring server [44-4](#)
  - managing [44-4](#)
  - manually applying [44-7](#)
- viewing related CS-MARS events [71-44](#)
- viewing related events [68-56](#)
- viewing update level [39-9, 39-13](#)
- Signature Settings page [39-30](#)
- Signatures page
  - overview [39-4](#)
  - shortcut menu [39-10](#)
- Simple Network Management Protocol
  - see SNMP [49-15](#)
- single sign on server (SSO) objects
  - properties [34-41](#)
- SIP (ASA, PIX) class map objects
  - creating [17-21](#)
- SIP (ASA/PIX/FWSM) policy map objects
  - creating [17-21](#)
  - properties [17-80, 17-90, 17-99, 17-100](#)
- SIP (IOS) class map objects
  - creating [21-16](#)
  - match criteria [21-25](#)
- SIP (IOS) policy map objects
  - creating [21-16](#)
  - match conditions and actions [21-35](#)
- SIP class map objects
  - match criteria [17-82, 17-92](#)
- SIP policy map objects
  - match conditions and actions [17-82, 17-92](#)
- Site-to-Site VPN Manager
  - assigning shared policies [5-44](#)
  - copying shared policies [5-47](#)
  - managing policies [5-30](#)
  - modifying policy assignments [5-49](#)
  - policy banner [5-38](#)
  - policy shortcut menu [5-40](#)
  - renaming policies [5-48](#)
  - sharing local policies [5-41](#)
  - unassigning policies [5-36](#)
  - understanding shared policies [5-37](#)
  - unsharing policies [5-43](#)
- Site-to-Site VPN Manager window [25-18](#)
- Site-to-Site VPN policy page (Device view) [25-19](#)
- site-to-site VPNs
  - accessing topologies and policies [25-17](#)
  - configuring global settings
    - configuring fragmentation settings [26-30, 26-43](#)
    - configuring IKEv2 settings [26-36](#)
    - configuring ISAKMP/IPsec settings [26-32](#)
    - configuring NAT settings [26-41](#)
    - overview [26-29](#)
    - understanding NAT settings [26-40](#)
  - configuring IKE and IPsec policies [26-1](#)
  - creating or editing Extranet VPN topologies [25-65](#)
  - creating or editing VPN topologies [25-28](#)
  - discovering [25-24](#)
  - managing [25-1](#)
  - rediscovering [25-27](#)
  - repairing discovered VPNs with multiple spoke definitions [25-26](#)
  - understanding discovery [25-19](#)
  - understanding topologies [25-2](#)
  - using device overrides to customize VPN policies [25-13](#)
  - viewing summary of VPN configuration [25-62](#)
- Site-to-Site VPNs command [1-34](#)
- Skinny policy map objects
  - creating [17-21](#)
  - match conditions and actions [17-86](#)
  - properties [17-84](#)
- SLA monitor objects
  - attributes [51-10](#)
  - configuring [51-9](#)

- understanding [51-8](#)
- Smartfilter (N2H2)
  - configuring for web filter rules policies [18-15, 18-19](#)
  - configuring for zone based firewall rules policies [21-36, 21-39, 21-41](#)
- Smart Tunnel Auto Signon Entry dialog box [34-71](#)
- Smart Tunnel Auto Signon Lists dialog box [34-70](#)
- smart tunnels
  - configuring for ASA SSL VPNs [31-84](#)
- SMTP
  - configuring for inspection rules [17-19](#)
  - preventing DoS attacks using zone based firewall [21-26](#)
  - preventing spam using zone based firewall [21-26](#)
- SMTP class map objects
  - creating [21-16](#)
  - match criteria [21-26](#)
- SMTP policy map objects
  - creating [21-16](#)
  - match conditions and actions [21-35](#)
- SMTP server
  - configuring [1-26](#)
  - PIX/ASA/FWSM [52-22](#)
- SNEXT [61-45](#)
- SNMP
  - about SNMP Version 3 [49-16](#)
  - Cisco IOS routers
    - defining agent properties [62-67](#)
    - enabling traps [62-68](#)
    - overview [62-66](#)
    - Permission dialog box [62-70](#)
    - SNMP Policy page [62-69](#)
    - SNMP Traps dialog box [62-72](#)
    - Trap Receiver dialog box [62-71](#)
  - configuring for HPM S2S polling [70-38](#)
  - configuring for IPS sensors [36-8](#)
  - configuring on firewall devices [49-15](#)
  - IPS general options [36-10](#)
  - IPS trap options [36-11, 36-13](#)
  - PIX/ASA/FWSM [49-17](#)
    - groups [49-25](#)
    - host access [49-23](#)
    - MIBs [49-15](#)
    - OIDs [49-15](#)
    - SNMPv3 [49-25, 49-26](#)
    - Trap configuration [49-19](#)
    - users [49-26](#)
  - terminology [49-15](#)
- SNMP Credentials dialog box [3-48](#)
- SNMP policy map objects
  - creating [17-21](#)
  - properties [17-87](#)
- SNMP Trap Communication dialog box [36-12, 36-14](#)
- SNMP Trap Communication tab, SNMP policy for IPS [36-11, 36-13](#)
- socket read timeout
  - device communication [11-22](#)
- Software Application Support contracts [10-16](#)
- Source Contents dialog box [12-14](#)
- spam
  - blocking spam using zone-based firewall rules [21-26](#)
- spoke-to-spoke connections, DMVPN [27-10](#)
- spoofing, preventing [56-1, 56-3](#)
- spoofing attacks, preventing [17-4](#)
- SSH
  - configuring on IOS routers, Catalyst switches, Catalyst 6500/7600 devices [2-6](#)
  - line ending conventions [2-5](#)
  - preventing non-SSH connections [2-7](#)
  - setting up [2-5](#)
  - testing authentication [2-5](#)
  - troubleshooting connections [9-7](#)
- SSL
  - remote access SSL VPNs
    - advanced settings (ASA) [31-71](#)
    - AnyConnect client settings (ASA) [31-61, 31-63](#)
    - browser plug-ins [31-59](#)
    - content rewrite rules (ASA) [31-53](#)

- encoding rules (ASA) [31-54](#)
- Kerberos Constrained Delegation (KCD on ASA) [31-66, 31-68](#)
- proxy bypass rules (ASA) [31-58](#)
- remote access VPNs [31-43](#)
  - access modes [30-4](#)
  - access policies (ASA), configuring [31-49](#)
  - access policies (ASA), reference [31-44](#)
  - access policies (ASA), understanding [31-43](#)
  - AnyConnect client image settings (ASA) [31-65](#)
  - AnyConnect custom attributes (ASA) [31-69, 31-70](#)
  - cluster load balancing [31-5](#)
  - configuring HTTP/HTTPS proxies and proxy bypass(ASA) [31-56](#)
  - connection profiles [31-7](#)
  - connection profiles (ASA) [31-8](#)
  - Context Editor dialog box (IOS) [33-15, 33-16](#)
  - creating on ASA [30-14](#)
  - creating on IOS devices [30-32](#)
  - dynamic access policies [32-1, 32-2](#)
  - dynamic access policy (DAP) attributes [32-4, 32-7](#)
  - Dynamic Access policy page (ASA) [32-11](#)
  - example [30-3](#)
  - fragmentation settings [26-30, 26-43](#)
  - global settings [26-29](#)
  - group policies, configuring [31-26](#)
  - group policies, creating [31-28](#)
  - group policies, understanding [31-27](#)
  - IKEv2 settings [26-36](#)
  - ISAKMP/IPsec settings [26-32](#)
  - limitations [30-8](#)
  - managing support files [30-5](#)
  - NAT settings [26-41](#)
  - other settings (ASA) [31-50](#)
  - performance settings (ASA) [31-51](#)
  - policies (IOS) [33-14](#)
  - prerequisites [30-7](#)
  - public key infrastructure (PKI) policies [26-55](#)
  - secure desktop manager policies [32-9](#)
  - server certificate verification (ASA) [31-30, 31-32, 31-72](#)
  - shared license clients (ASA) [31-74](#)
  - shared licenses (ASA) [31-73](#)
  - shared license servers (ASA) [31-75](#)
  - understanding [30-2](#)
  - understanding NAT settings [26-40](#)
  - wizard [30-13](#)
- setting up [2-3](#)
- troubleshooting certificate errors [9-5](#)
- VPN
  - sharing connection profiles on ASAs [30-8](#)
- SSL authentication certificates
  - adding thumbprints manually [9-5](#)
  - configuring default settings for how handled [11-22](#)
- SSL VPN
  - policy discovery restriction [3-8](#)
- SSL VPN Access page (ASA) [31-44](#)
- SSL VPN bookmark objects
  - configuring [31-81](#)
  - post URL method and macro substitutions [31-83](#)
- SSL VPN Bookmarks objects
  - SSL VPN Bookmarks dialog box [34-44](#)
- SSL VPN Configuration wizard
  - Access page (ASA) [30-16](#)
  - Connection Profile page (ASA) [30-17](#)
  - Gateway and Context Page (IOS) [30-33](#)
  - Portal Page Customization Page (IOS) [30-35](#)
- SSL VPN Customization objects
  - configuring [31-76](#)
  - creating custom Logon page [31-80](#)
  - localizing [31-79](#)
- SSL VPN gateway objects
  - properties [34-63](#)
- SSL VPN Other Settings page (ASA)
  - Advanced tab [31-71](#)
  - Client Settings tab [31-63](#)
  - Content Rewrite tab [31-53](#)
  - Encoding tab [31-54](#)

- Microsoft KCD Server tab [31-66, 31-68](#)
- overview [31-50](#)
- Performance tab [31-51](#)
- Proxy tab [31-56](#)
- SSL Server Verification tab [31-30, 31-32, 31-72](#)
- SSL VPN Policy page (IOS) [33-14](#)
- SSL VPNs
  - ASA devices
    - configuring bookmarks [31-81](#)
    - configuring portal appearance [31-76](#)
    - configuring WINS servers for file system access [31-86](#)
    - customizing [31-76](#)
    - post URL method and macro substitutions in bookmarks [31-83](#)
    - smart tunnels [31-84](#)
  - IOS devices
    - configuring bookmarks [31-81](#)
    - configuring WINS servers for file system access [31-86](#)
- SSL VPN Shared License page (ASA) [31-73](#)
- SSL VPN smart tunnel auto sign-on list objects
  - attributes [34-70](#)
- SSL VPN smart tunnel list objects
  - attributes [34-65, 34-68](#)
  - configuring [31-84](#)
- stateful failover [50-3, 50-4](#)
  - site-to-site VPN [25-53](#)
- stateless failover [50-3](#)
- states
  - activity [4-4](#)
  - ticket [4-4](#)
- static crypto maps [26-18](#)
- Static Group tab (IGMP) [54-6](#)
- static NAT
  - Cisco IOS routers
    - disable automatic aliasing [24-7](#)
    - disable payload [24-9](#)
    - on Cisco IOS routers [24-6](#)
- static null 0 routing [55-128](#)
- static routes
  - configuring on firewall devices [55-128](#)
  - PIX/ASA/FWSM
    - configuration [55-130](#)
- static routing
  - Cisco IOS routers
    - defining on [66-50](#)
    - overview [66-50](#)
    - Static Routing dialog box [66-52](#)
    - Static Routing Policy page [66-51](#)
- Static Rule
  - PIX/ASA/FWSM [24-26](#)
    - add/edit [24-27](#)
- status
  - activity [4-4](#)
  - ticket [4-4](#)
- subinterfaces [46-7, 46-15](#)
  - specifying during policy definition [6-75](#)
- Submit Activity command [1-36](#)
- Submit Activity dialog box [4-20](#)
- Submit and Deploy command [1-30](#)
- Submit command [1-30](#)
- Submit Deployment Job dialog box [8-38](#)
- Submitted activity state [4-5](#)
- Submit Ticket command [1-37](#)
- Sun RPC class map objects
  - creating [21-16](#)
  - match criteria [21-29](#)
- Sun RPC policy map objects
  - creating [21-16](#)
  - match conditions and actions [21-35](#)
- support, technical
  - creating diagnostic file [10-28](#)
  - generating data [10-28](#)
  - generating deployment or discovery status reports [10-30](#)
  - generating partial database backup [10-30](#)
- Suspend Deployment Schedule dialog box [8-20, 8-58](#)
- switches

- communication requirements [2-1](#)
- SYN flooding attacks, preventing [17-4](#)
- syslog
  - access rule look-up [71-17](#)
  - deeply parsed for Event Viewer [68-6](#)
  - logging
    - PIX/ASA/FWSM [53-1](#)
  - message properties [68-18](#)
- syslog messages supported for policy lookup [71-46](#)
- syslog relay
  - CPU throttling policy [11-33](#)
- syslogs
  - Cisco IOS routers [64-1](#)
- system variables
  - devices [7-7](#)
  - firewall [7-9](#)
  - FlexConfigs [7-7](#)
  - remote access VPN [7-19](#)
  - routers [7-13](#)
  - VPN [7-14](#)

## T

- tables
  - using [1-48](#)
- tables, rules
  - adding rules [12-9](#)
  - columns and headings [1-49](#)
  - commands, Edit menu [1-31](#)
  - converting IPv4 rules [12-28](#)
  - cut, copy, and paste rules [12-9](#)
  - disabling rules [12-20](#)
  - enabling rules [12-20](#)
  - filtering [1-48](#)
  - finding and replacing items [12-16](#)
  - removing rules [12-9](#)
  - sections [12-20](#)
  - using [12-7](#)
- TACACS+
  - description [6-28](#)
  - settings in AAA server objects [6-38](#)
- Take Over User Session page [11-70](#)
- Target Value Rating dialog box [40-19](#)
- Target Value Ratings, IPS Network Information policy [40-17](#)
- target value ratings (IPS) [40-17](#)
- task flow
  - deployment
    - non-Workflow mode [8-3](#)
    - Workflow mode [8-5](#)
- taskflow [1-18](#)
- TCP Map objects
  - properties [57-22](#)
- TCP State Bypass
  - ASA/FWSM [57-3](#)
- Telnet
  - PIX/ASA/FWSM [49-30](#)
  - configuration [49-30](#)
- text fields
  - ASCII limitations [1-50](#)
  - finding text in multiple-line [1-50](#)
  - navigating [1-50](#)
  - using [1-49](#)
- text objects
  - creating [7-32](#)
- TFTP servers
  - PIX/ASA/FWSM [52-23](#)
- thin client access mode [30-4](#)
- thresholds
  - configuring anomaly detection [41-11](#)
  - understanding anomaly detection [41-9](#)
- throughput
  - VPN user reports [69-16](#)
- ticketing
  - overview [1-20](#)
- Ticket Management
  - settings [11-71](#)
- ticket management

- comparing workflow modes [1-22](#)
- Ticket Manager window [4-10](#)
- tickets
  - closing [4-16](#)
  - creating [4-14](#)
  - discarding [4-22](#)
  - multiple users [4-4](#)
  - opening [4-15](#)
  - states [4-4](#)
  - Ticket Manager window [4-10](#)
  - understanding [4-1](#)
  - using global search to find specific tickets [1-42](#)
  - validating [4-18](#)
  - viewing change reports [4-16](#)
  - viewing status and history [4-23](#)
  - working with [4-7](#)
- Tickets menu [1-36](#)
- tiered hub-and-spoke topologies [25-5](#)
- time
  - changing range for reports [69-22](#)
- timeouts
  - on firewall devices [56-4](#)
- timeouts (NAT)
  - Cisco IOS routers [24-13](#)
- Timeout Value
  - Firewall AAA [15-30](#)
- time range objects
  - attributes for recurring ranges [6-72](#)
  - configuring [6-71](#)
- time slider (Event Viewer)
  - filtering with [68-43](#)
  - using [68-25](#)
- time synchronization
  - on IOS routers [62-96](#)
- time zone settings
  - certificate errors [9-7](#)
  - Cisco IOS routers
    - Clock Policy page [62-23](#)
    - defining time zone and DST [62-22](#)
  - overview [62-22](#)
- TMS
  - deploying configurations [8-43](#)
  - deployment method [8-10](#)
- Token Management page [11-72](#)
- Token Management System (TMS)
  - settings [11-72](#)
- toolbar
  - activities [4-8, 4-9](#)
- toolbar reference
  - Configuration Manager [1-39](#)
  - event table in Event Viewer [68-16](#)
- toolbars
  - Report Manager generated report [69-12](#)
  - Report Manager report settings [69-10](#)
- Tools menu
  - Configuration Manager [1-34](#)
  - Report Manager [69-8](#)
- Trace Route [71-25](#)
- TraceRoute [71-28](#)
- traffic class
  - PIX/ASA/FWSM
    - rules wizard [57-7](#)
- Traffic Classification dialog box [19-12](#)
- Traffic Classification tab [19-11](#)
- traffic encryption key (KEK), GET VPN [29-4](#)
- traffic flow notifications
  - configuring for IPS [36-30](#)
- traffic flow objects
  - default inspection traffic [57-20](#)
  - properties [57-18](#)
- traffic match criteria [57-2](#)
- traffic zones [22-1](#)
  - asymmetric routing [22-1](#)
  - benefits [22-1](#)
  - clustering [22-8](#)
  - configuring [22-9](#)
  - Equal-Cost Multi-Path (ECMP) [22-4](#)
  - failover [22-8](#)



- firewall mode [22-8](#)
- guidelines [22-8](#)
- load balancing [22-1](#)
- lost route [22-1](#)
- prerequisites [22-7](#)
- security levels [22-6](#)
- supported services [22-6](#)
- understanding [22-6](#)
- transactional commit model [59-2](#)
- Transactional Commit page
  - PIX/ASA/FWSM Platform [59-2](#)
- transcripts
  - viewing [8-59](#)
- Transcript Viewer window [8-62](#)
- transform sets
  - attributes [26-26](#)
  - understanding [26-19](#)
- Translation Exemption (NAT-0 ACL) Rule
  - PIX/ASA/FWSM [24-20](#)
    - add/edit [24-20](#)
- Translation Options
  - PIX/ASA/FWSM [24-15, 24-16](#)
- Translation Rules
  - Add/Edit Per-Session NAT rules dialog boxes [24-47](#)
  - ASA 8.3+ [24-34](#)
    - Add/Edit NAT rules dialog boxes [24-36](#)
  - per-session NAT rules [24-46](#)
  - PIX/ASA/FWSM [24-19](#)
- translation table
  - clearing on deployment [59-1](#)
- transparent bridging
  - Cisco IOS routers
    - BVI interfaces [62-19](#)
    - overview [62-18](#)
  - defining bridge groups [62-20](#)
- transparent firewall
  - configuring on PIX/ASA/FWSM [47-1](#)
  - NAT [24-15](#)
- transparent rules
  - adding or editing a rule [23-5](#)
  - configuring [23-1](#)
  - configuring DHCP passthrough for IOS devices [23-3](#)
  - configuring in Map view [35-23](#)
  - deleting [12-9](#)
  - disabling [12-20](#)
  - editing [12-10](#)
  - editing the EtherType [23-6](#)
  - editing the mask [23-7](#)
  - enabling [12-20](#)
  - managing [23-1](#)
  - moving [12-19](#)
  - Transparent Rules page [23-3](#)
  - understanding processing order [12-2](#)
- Transparent Rules page [23-3](#)
- transport protocols
  - device defaults [11-22](#)
  - overview of device requirements [2-1](#)
- transport settings
  - AUS [2-7](#)
  - Configuration Engine [2-7](#)
  - SSH [2-5](#)
  - SSL (HTTPS) [2-3](#)
- traps, SNMP
  - configuring for IPS sensors [36-8](#)
  - IPS options [36-11, 36-13](#)
- trees
  - selecting items [1-45](#)
- Trend class map objects
  - creating [21-36](#)
- Trend parameter map objects
  - creating [21-36](#)
  - properties [21-42](#)
- troubleshooting
  - AUS deployment [9-18](#)
  - Catalyst switch and module deployment [9-16](#)
  - Configuration Engine deployment [9-18](#)
  - creating diagnostics file [10-28](#)
  - CS-MARS queries [71-40](#)

- deleted FWSM contexts do not remove configuration files [58-7](#)
  - deployment [9-9](#)
  - device communication and deployment [9-1](#)
  - device discovery failures [3-7](#)
  - device managers [71-16](#)
  - device managers, using [71-14](#)
  - devices marked with red X in device selector [9-9](#)
  - error attempting to remove unreferenced object [9-12](#)
  - Event Manager service status [68-31](#)
  - Event Viewer Unavailable message [11-27, 11-36, 68-30](#)
  - FlexConfigs [7-38](#)
  - FWSM multiple-context deployment failures [9-17](#)
  - generating data for TAC [10-28](#)
  - generating deployment or discovery status reports [10-30](#)
  - GET VPN registration failure [29-9](#)
  - global correlation (IPS) configuration [42-4](#)
  - ignoring device errors during deployment [9-10](#)
  - invalid certificate error [9-7](#)
  - minimum memory errors for ASA 8.3+ [9-12](#)
  - mixing deployment methods [9-14](#)
  - Not able to connect to server message, Report Manager [69-35](#)
  - online help, problems accessing [1-52](#)
  - packet capture, using [71-30](#)
  - packet tracer, using [71-23](#)
  - policy objects not available in Event Viewer [68-66](#)
  - preshared key policies in VPN not discovered [25-23](#)
  - Report Manager [69-35](#)
  - router connection failures [2-2](#)
  - router deployment [9-14](#)
  - Security Manager cannot contact device after deployment [9-12](#)
  - SSL certificate errors [9-5, 9-6](#)
  - user interface problems [1-51](#)
  - VPN crypto traffic unexpectedly dropped on GET VPN interfaces [29-9](#)
  - VPNs with routing processes [9-13](#)
  - VRF-aware IPsec deployment failures on Catalyst 6500/7600 devices [25-17](#)
  - trunk ports
    - Create and Edit Interface dialog boxes-Trunk Port mode [67-14](#)
    - understanding [67-5](#)
  - Trusted Transitive Introduction (TTI)
    - use in SDP policies [62-81](#)
  - TrustSec
    - Add/Edit Connection Peer dialog box [14-13](#)
    - configuring connection peers [14-13](#)
    - configuring ISE settings [11-56](#)
    - configuring SXP [14-8](#)
    - configuring SXP connection peers [14-12](#)
    - security group objects
      - creating [14-14](#)
    - SGT role mapping [14-11](#)
  - TrustSec firewall policies
    - configuring [14-7](#)
    - configuring rules [14-17](#)
    - managing [14-1](#)
  - TrustSec policies
    - monitoring [14-17](#)
  - TrustSec security group objects
    - selecting [14-16](#)
- 
- ## U
- Unassign Policy command [1-32](#)
  - Undock Map View command [1-33](#)
  - unicast rekey in GET VPN [29-6](#)
  - Unicast Reverse Path Forwarding [56-1, 56-3](#)
  - unicast reverse path forwarding
    - enabling on routers [61-20](#)
  - Unshare Policy command [1-32](#)
  - Unspecified Bit Rate (UBR) [61-48](#)
  - Unspecified Bit Rate Plus (UBR+) [61-48](#)
  - Update Level dialog box [39-9, 39-13](#)
  - updating images on devices [72-20](#)

- Updating Licenses from File dialog box [11-61](#)
- Updating Licenses via CCO dialog box [11-60](#)
- URLF Glob parameter map objects
  - metacharacters [21-46](#)
  - properties [21-45](#)
- URL Filter parameter map objects
  - creating [21-36](#)
  - properties [21-43](#)
- usage reports
  - generating [6-15](#)
- user accounts
  - configuring IPS [36-18](#)
  - configuring IPS password requirements [36-20](#)
  - discovery and deployment of IPS [36-17](#)
  - IPS account attributes [36-19](#)
  - managing IPS device [36-15](#)
  - PIX/ASA/FWSM [51-7](#)
    - add/edit [51-7](#)
  - rolling back configurations [8-64](#)
  - understanding IPS user roles [36-15](#)
  - understanding managed and unmanaged passwords [36-16](#)
- User Accounts policy, IPS devices [36-18](#)
- user group objects
  - advanced PIX 6.3 settings [34-81](#)
  - browser proxy settings [34-86](#)
  - clientless settings [34-82](#)
  - client VPN software update (IOS) settings [34-80](#)
  - DNS/WINS settings [34-76](#)
  - general settings [34-74](#)
  - IOS client settings [34-77](#)
  - IOS Xauth settings [34-79](#)
  - split tunneling settings (Easy VPN/remote access IPSec VPN) [34-76](#)
  - SSL VPN connection settings [34-87](#)
  - SSL VPN full tunnel settings [34-83](#)
  - SSL VPN split tunneling settings [34-85](#)
  - technology settings [34-72](#)
  - thin client settings [34-83](#)
- user group policies
  - configuring for Easy VPN [28-14](#)
  - configuring for remote access IPsec VPNs on IOS/PIX 6.3 [33-13](#)
- User Group Policy page [33-13](#)
- user identity acquisition [13-2](#)
- user interface
  - applications overview [1-6](#)
  - basic features [1-29](#)
  - dialog box too big for screen [1-52](#)
  - freezing [1-51](#)
  - how permissions affect what you can do [1-11](#)
  - Java errors [1-52](#)
  - maps toolbar reference [35-4](#)
  - map view [35-1](#)
  - menu reference for Configuration Manager [1-29](#)
  - missing text [1-52](#)
  - overview of Configuration Manager [1-14](#)
  - rules tables [12-7](#)
  - searching for items [1-42](#)
  - selecting items in a tree [1-45](#)
  - selecting or specifying files [1-50](#)
  - table
    - columns and headings [1-49](#)
    - sections [12-20](#)
  - tables [1-48](#)
  - text fields
    - ASCII limitations [1-50](#)
    - finding text in multiple-line [1-50](#)
    - navigating [1-50](#)
    - using [1-49](#)
  - toolbars
    - Configuration Manager [1-39](#)
    - event table in Event Viewer [68-16](#)
  - troubleshooting [1-51](#)
  - wizards [1-47](#)
- user login credentials for device access [3-4](#)
- user passwords
  - changing [10-24](#)

user preferences

PIX/ASA/FWSM [59-1](#)

Deployment page [59-1](#)

Transactional Commit page [59-2](#)

user roles, IPS [36-15](#)

users

how permissions affect what you can do [1-11](#)

taking over configuration session [10-23](#)

User Statistics

MPC rule wizard

tab [57-8](#)

user statistics, collecting [13-25](#)

user taskflow [1-18](#)

## V

Validate Activity command [1-36](#)

Validate command [1-30](#)

Validate Ticket command [1-37](#)

Validation dialog box [4-18](#)

validation error messages [4-18](#)

Values Assignment dialog box [7-37](#)

Variable Bit Rate-Non-Real Time (VBR-nrt) [61-48](#)

Variable Bit Rate-Real Time (VBR-rt) [61-48](#)

variables

deleting FlexConfig [7-28](#)

FlexConfig objects [7-5, 7-6](#)

changing variable values [7-35](#)

VDI servers [34-16](#)

Velocity Engine error message [7-38](#)

Velocity Template Engine

scripting language [7-3](#)

View Changes command [1-30, 1-36, 1-37](#)

viewing interface allocations [58-12](#)

View menu

Configuration Manager [1-31](#)

Event Viewer [68-10](#)

views

Device [1-14](#)

Event Viewer

clearing filters [68-47](#)

column based filters [68-44](#)

event based filters [68-46](#)

filtering overview [68-42](#)

refreshing event table [68-43](#)

selecting time range [68-42](#)

switching between real-time and historical [68-41](#)

text searches (quick filter) [68-46](#)

using time slider with filtering [68-43](#)

HPM [70-21](#)

column-based filters [70-17](#)

Map [1-17](#)

overview [1-14](#)

Policy [1-16](#)

views (Event Viewer)

arranging [68-37](#)

configuring color rules [68-39](#)

creating custom [68-40](#)

customizing event table appearance [68-38](#)

deleting custom [68-42](#)

editing description [68-40](#)

editing name [68-40](#)

Event Monitoring window overview [68-14](#)

Event Viewer overview [68-7](#)

floating [68-37](#)

list [68-12](#)

opening [68-37](#)

overview [68-3](#)

saving [68-41](#)

using [68-36](#)

virtual ASA

about [46-1](#)

virtual channel identifier (VCI) [61-46](#)

virtual firewalls

See security contexts

virtual fragment reassembly (VFR) [61-19](#)

virtual path identifier (VPI) [61-46](#)

Virtual Routing Forwarding (VRF)

- VRF-Aware IPsec [25-14](#)
- virtual sensors
  - advantages [38-3](#)
  - assigning interfaces [38-4](#)
  - attributes [38-7](#)
  - configuring [38-1, 38-5](#)
  - deleting [38-10](#)
  - discovering policies [5-14](#)
  - editing policies [38-9](#)
  - identifying [38-5](#)
  - inline TCP session tracking mode [38-3](#)
  - Normalizer mode [38-4](#)
  - renaming [38-8](#)
  - restrictions [38-3](#)
  - showing containment [3-56](#)
  - understanding [38-1](#)
- Virtual Sensors page [38-5](#)
- virtual terminal (VTY)
  - Cisco IOS routers
    - defining AAA settings [62-40](#)
    - defining line groups [62-38](#)
    - defining line setup parameters [62-38](#)
- virtual terminal (VTY) lines
  - Cisco IOS routers
    - VTY Line dialog box [62-51](#)
    - VTY Policy page [62-50](#)
- VLAN
  - configuring IPS groups [37-15](#)
  - configuring IPS inline pairs [37-14](#)
- VLAN ACLs (VACLs)
  - defining [67-37](#)
  - deleting [67-38](#)
  - understanding [67-36](#)
  - VLAN access maps [67-37](#)
- VLANs
  - Catalyst switches and 7600 Series routers
    - Create and Edit VLAN ACL Content dialog boxes [67-41](#)
    - Create and Edit VLAN ACL dialog boxes [67-41](#)
    - Create and Edit VLAN dialog boxes [67-28](#)
    - defining [67-26](#)
    - defining Data Port for IDSM [67-46](#)
    - defining EtherChannel for IDSM [67-44](#)
    - defining groups [67-32](#)
    - defining VACLs [67-37](#)
    - deleting [67-27](#)
    - deleting Data Port for IDSM [67-47](#)
    - deleting EtherChannel for IDSM [67-45](#)
    - deleting groups [67-33](#)
    - deleting VACLs [67-38](#)
    - Interfaces/VLANs page-VLANs tab [67-27](#)
    - understanding [67-25](#)
    - understanding VACLs [67-36](#)
    - understanding VLAN groups [67-31](#)
    - VLAN Access Lists page [67-39](#)
  - VPDN groups [46-71](#)
- VPN
  - configuring policy defaults [11-73, 25-12](#)
  - mixing deployment methods [9-14](#)
  - policy discovery restriction for web VPNs [3-8](#)
  - Report Manager reports
    - general VPN reports [69-16](#)
    - VPN top reports [69-16](#)
  - system variables [7-14](#)
  - traffic sent unencrypted [9-15](#)
  - updating routing processes [9-13](#)
  - using device overrides to customize VPN policies [25-13](#)
  - zone-based firewall [21-6](#)
- VPN default policies
  - configuring [25-12](#)
  - factory defaults [25-12](#)
  - understanding [25-12](#)
- VPN discovery
  - prerequisites [25-21](#)
  - procedure [25-24](#)
  - rules [25-21](#)

- supported and unsupported technologies and topologies [25-20](#)
- understanding [25-19](#)
- VPN global settings
  - GET VPN
    - VPN Global Settings for GET page [29-16](#)
- VPN Global Settings policy
  - General Settings tab [26-30, 26-43](#)
  - IKEv2 tab [26-36](#)
  - ISAKMP/IPsec tab [26-32](#)
  - NAT Settings tab [26-41](#)
- VPN Peers dialog box [35-22](#)
- VPN Policy Defaults page [11-73](#)
- VPN rediscovery [25-27](#)
- VPNs
  - AAA services [48-4](#)
  - ASA devices
    - configuring bookmarks [31-81](#)
    - configuring portal appearance [31-76](#)
    - configuring WINS servers for file system access [31-86](#)
    - customizing [31-76](#)
    - post URL method and macro substitutions in bookmarks [31-83](#)
    - smart tunnels [31-84](#)
  - configuring remote access using wizard [30-13](#)
  - creating in Map view [35-21](#)
  - Easy VPN
    - connection profiles [28-13](#)
    - connection profiles (ASA, PIX 7+) [31-8](#)
  - IOS devices
    - configuring bookmarks [31-81](#)
    - configuring WINS servers for file system access [31-86](#)
  - IPsec
    - access policies for IKEv2 (ASA), configuring [31-49](#)
    - access policies for IKEv2 (ASA), reference [31-44](#)
    - access policies for IKEv2 (ASA), understanding [31-43](#)
    - certificate to connection profile map policy (IKEv1) [31-36](#)
    - certificate to connection profile map rules (IKEv1) [31-37](#)
    - cluster load balancing [31-5](#)
    - configuring IKE and IPsec policies [26-1](#)
    - connection profiles [31-7](#)
    - connection profiles (ASA, PIX 7+) [31-8](#)
    - creating on ASA/PIX 7.0+ [30-25](#)
    - creating on IOS/PIX 6.3+ [30-36](#)
    - dynamic access policies [32-1, 32-2](#)
    - dynamic access policy (DAP) attributes [32-4, 32-7](#)
    - Dynamic Access policy page (ASA) [32-11](#)
    - Dynamic VTI/VRF Aware IPsec settings [33-7](#)
    - fragmentation settings [26-30, 26-43](#)
    - global settings [26-29](#)
    - group policies, configuring [31-26](#)
    - group policies, creating [31-28](#)
    - group policies, understanding [31-27](#)
    - high availability policies [33-11](#)
    - IKE proposals [26-9](#)
    - IKEv2 authentication [26-67, 26-69, 26-71](#)
    - IKEv2 settings [26-36](#)
    - ISAKMP/IPsec settings [26-32](#)
    - NAT settings [26-41](#)
    - public key infrastructure (PKI) policies [26-55](#)
    - secure desktop manager policies [32-9](#)
    - understanding IKE [26-5](#)
    - understanding NAT settings [26-40](#)
    - user group policies for IOS, PIX 6.3 [33-13](#)
    - VPNSM, VPN SPA, VSPA settings [33-6](#)
- IPsec proposals
  - attributes for ASA and PIX 7.0+ devices [31-41](#)
  - attributes for IOS and PIX 6.3 devices [33-4](#)
  - configuring for ASA and PIX 7.0+ devices [31-40](#)
  - configuring for IOS and PIX 6.3 devices [33-3](#)
- Map view [35-20](#)
- policy discovery [5-12](#)
- remote access

- access modes [30-4](#)
- device support [30-8](#)
- discovering [30-12](#)
- managing [30-1](#)
- managing (ASA, PIX 7.0+) [31-1](#)
- managing (IOS, PIX 6.3) [33-1](#)
- SSL [31-43](#)
- remote access IPsec
  - understanding [30-2](#)
- remote access SSL
  - example [30-3](#)
  - limitations [30-8](#)
  - managing support files [30-5](#)
  - prerequisites [30-7](#)
  - understanding [30-2](#)
- shared policies [5-4](#)
- site-to-site
  - configuring IKE and IPsec policies [26-1](#)
  - policies overview [25-8](#)
- site-to-site VPNs [25-1](#)
- SSL
  - access policies (ASA), configuring [31-49](#)
  - access policies (ASA), reference [31-44](#)
  - access policies (ASA), understanding [31-43](#)
  - advanced settings (ASA) [31-71](#)
  - AnyConnect client image settings (ASA) [31-65](#)
  - AnyConnect client settings (ASA) [31-61, 31-63](#)
  - AnyConnect custom attributes (ASA) [31-69, 31-70](#)
  - browser plug-ins (ASA) [31-59](#)
  - cluster load balancing [31-5](#)
  - configuring HTTP/HTTPS proxies and proxy bypass(ASA) [31-56](#)
  - connection profiles [31-7](#)
  - connection profiles (ASA) [31-8](#)
  - content rewrite rules (ASA) [31-53](#)
  - Context Editor dialog box (IOS) [33-15, 33-16](#)
  - creating on ASA [30-14](#)
  - creating on IOS devices [30-32](#)
  - dynamic access policies [32-1, 32-2](#)
  - dynamic access policy (DAP) attributes [32-4, 32-7](#)
  - Dynamic Access policy page (ASA) [32-11](#)
  - encoding rules (ASA) [31-54](#)
  - fragmentation settings [26-30, 26-43](#)
  - global settings [26-29](#)
  - group policies, configuring [31-26](#)
  - group policies, creating [31-28](#)
  - group policies, understanding [31-27](#)
  - IKEv2 settings [26-36](#)
  - ISAKMP/IPsec settings [26-32](#)
  - Kerberos Constrained Delegation (KCD on ASA) [31-66, 31-68](#)
  - NAT settings [26-41](#)
  - other settings (ASA) [31-50](#)
  - performance settings (ASA) [31-51](#)
  - policies (IOS) [33-14](#)
  - proxy bypass rules (ASA) [31-58](#)
  - public key infrastructure (PKI) policies [26-55](#)
  - secure desktop manager policies [32-9](#)
  - server certificate verification (ASA) [31-30, 31-32, 31-72](#)
  - shared license (ASA) [31-73](#)
  - shared license clients (ASA) [31-74](#)
  - shared license servers (ASA) [31-75](#)
  - understanding NAT settings [26-40](#)
  - wizard [30-13](#)
  - understanding [30-1](#)
- VPN Service Port Adapters (VSPAs)
  - configuring [25-41](#)
- VPN Services Module (VPNSM)
  - configuring [25-41](#)
- VPN Shared Port Adapter (VPN SPA)
  - configuring [25-41](#)
- VPNSM/VPN SPA/VSPA Settings dialog box [33-6](#)
- VPN Summary page [25-62](#)
- VPN topologies
  - accessing [25-17](#)
  - assigning initial policies to new [25-61](#)
  - assigning shared policies [5-44](#)

- cloning device VPN assignments [3-56](#)
- cloning shared policies [5-47](#)
- configuring dial backup [25-39](#)
- configuring GET VPN peers [25-59](#)
- configuring in Device view [25-19](#)
- creating or editing [25-28](#)
- creating or editing Extranet [25-65](#)
- defining endpoints and protected networks [25-34](#)
- defining GET VPN group encryption [25-53](#)
- deleting [25-70](#)
- discovering [25-19, 25-24](#)
- full mesh [25-4](#)
- hub-and-spoke [25-2](#)
- including unmanaged or non-Cisco devices [25-11](#)
- joined hub-and-spoke [25-5](#)
- locking [5-10](#)
- naming [25-30](#)
- partial mesh [25-5](#)
- point-to-point [25-3](#)
- rediscovering [25-27](#)
- removing devices [25-32](#)
- renaming policies [5-48](#)
- repairing discovered VPNs with multiple spoke definitions [25-26](#)
- selecting devices [25-32](#)
- tiered hub-and-spoke [25-5](#)
- unassigning policies [5-36](#)
- understanding [25-2](#)
- unsharing policies [5-43](#)
- using device overrides to customize VPN policies [25-13](#)
- viewing summary of VPN configuration [25-62](#)

VRF-Aware IPsec

- changing on Catalyst switches and 7600 routers [25-17](#)
- configuring [25-47](#)
- one-box solution [25-14](#)
- two-box solution [25-15](#)
- understanding [25-14](#)
- VRF-Aware IPsec tab (site-to-site VPN) [25-47](#)

- VTP modes, for Catalyst switches [67-1](#)
- VTY Line dialog box [62-51](#)
  - Accounting tab [62-67](#)
  - Authentication tab [62-55](#)
  - Authorization tab [62-56](#)
  - Setup tab [62-52](#)

---

## W

- WAN interface card (WIC) [61-35](#)
- Warning - Partial VPN Deployment dialog box [8-32](#)
- warnings
  - significance of [iii-lxiii](#)
- Web Filter policy map objects
  - creating [21-36](#)
  - match conditions and actions [21-35](#)
  - properties [21-47](#)
- web filter rules
  - ACL naming conventions [12-5](#)
  - ASA/FWSM/PIX
    - converting IPv4 [12-28](#)
    - deleting [12-9](#)
    - editing [12-10](#)
    - moving [12-19](#)
  - attributes (IOS) [18-13](#)
  - configuring exclusive domains for IOS devices [18-10](#)
  - configuring for ASA, PIX, FWSM devices [18-2](#)
  - configuring for IOS devices [18-10](#)
  - configuring in Map view [35-23](#)
  - disabling [12-20](#)
  - enabling [12-20](#)
  - exclusive domain names (IOS) [18-14](#)
  - managing [18-1](#)
  - preserving ACL names [12-4](#)
  - understanding [18-1](#)
  - understanding NAT effects [12-3](#)
  - understanding processing order [12-2](#)
  - Web Filter Rules page (ASA/FWSM/PIX) [18-3](#)
  - Web Filter Rules page (IOS) [18-11](#)



- web filter server properties [18-19](#)
- Web Filter Rules page (ASA/FWSM/PIX) [18-3](#)
- Web Filter Rules page (IOS) [18-11](#)
- Web Filter Server Configuration dialog box [18-19](#)
- web filter servers
  - attributes [18-19](#)
  - configuring settings [18-15](#)
  - configuring settings in Map view [35-24](#)
  - configuring zone-based firewall settings in Map view [35-24](#)
- Web Filter settings page [18-16](#)
- Websense
  - configuring for web filter rules policies [18-15, 18-19](#)
  - configuring for zone based firewall rules policies [21-36, 21-39, 21-41](#)
- Websense class map objects
  - creating [21-36](#)
  - match criteria [21-30](#)
- Websense parameter map objects
  - creating [21-36](#)
  - properties [21-39](#)
- web VPN
  - policy discovery restriction [3-8](#)
- Weighted Random Early Detection (WRED) [65-4](#)
- Whitelist/Blacklist tab [19-14](#)
- windows
  - arranging report [69-29](#)
  - arranging views [68-37](#)
  - closing report [69-31](#)
  - undocking maps [35-2](#)
- Windows Messenger class map objects
  - creating [21-16](#)
  - match criteria [21-21](#)
- Windows NT servers
  - use by ASA, PIX, and FWSM devices [6-28](#)
- Windows Server 2012 security settings [10-2](#)
- WINS Server Lists objects
  - attributes [34-89](#)
  - creating [31-86](#)
- wizard
  - installation manager [72-26](#)
- wizards
  - configuring remote access SSL VPNs on ASA devices [30-14](#)
  - configuring remote access SSL VPNs on IOS devices [30-32](#)
  - configuring remote access VPNs [30-13](#)
  - Copy Policies [5-33](#)
  - Create Extranet VPN Topology [25-65](#)
  - Create VPN Topology [25-28](#)
  - creating remote access IPsec VPNs on ASA/PIX 7.0+ devices [30-25](#)
  - creating remote access IPsec VPNs on IOS/PIX 6.3 devices [30-36](#)
  - creating user group policies [30-20](#)
  - Discover VPN policies [25-24](#)
  - New Device [3-6](#)
  - Rediscover VPN policies [25-27](#)
  - Share Policies [5-42](#)
- wizards, using [1-47](#)
- workflow
  - overview [1-20](#)
- Workflow mode
  - changing modes [1-27](#)
  - comparing with non-Workflow mode [1-22](#)
  - configuration files
    - deploying [8-34, 8-39](#)
    - previewing [8-44](#)
  - configurations
    - rolling back [8-69](#)
  - creating activities [4-14](#)
  - deployment
    - viewing device details [8-26](#)
    - viewing job history [8-26](#)
  - jobs
    - aborting [8-55](#)
    - approving [8-39](#)
    - discarding [8-41](#)
    - rejecting [8-39](#)

- states [8-6](#)
- submitting [8-38](#)
- opening activities [4-15](#)
- understanding [1-21](#)
- workflow modes
  - changing [1-27](#)
  - comparing [1-22](#)
- Workflow Settings page [11-75](#)
- working with [3-59](#)
- worms
  - configuring IPS anomaly detection signatures [41-4](#)
  - understanding [41-2](#)
  - understanding IPS anomaly detection [41-1](#)
  - understanding when to turn off anomaly detection [41-4](#)

---

## X

- xdm-launcher.exe
  - device manager [71-16](#)
- XLATE table
  - clearing on deployment [59-1](#)

---

## Y

- Yahoo Messenger class map objects
  - creating [21-16](#)
  - match criteria [21-21](#)

---

## Z

- zone-based firewall
  - add/edit zones [21-53](#)
  - advanced options [21-67](#)
  - changing the default drop rule [21-48](#)
  - configuring PAM [21-69](#)
  - configuring rules [21-13, 21-62](#)
  - configuring settings [21-49](#)
  - configuring settings in Map view [35-24](#)

- Content Filter tab [21-52](#)
- designing network zones [21-1](#)
- development overview [21-12](#)
- general recommendations [21-12](#)
- Global Parameters tab [21-50](#)
- IPSec VPN [21-6](#)
- logging [21-1](#)
- overview [21-1](#)
- page [21-50](#)
- preserving ACL names [12-4](#)
- protocol selection [21-68](#)
- restrictions [21-3](#)
- rules table [21-58](#)
- Self zone [21-5](#)
- tabs [21-49](#)
- troubleshooting [21-54](#)
- understanding [21-3](#)
- understanding NAT effects [12-3](#)
- understanding permit/deny and action [21-8](#)
- understanding processing order [12-2](#)
- understanding services and protocols [21-11](#)
- VPN tab [21-50](#)
- VRF [21-7](#)
- WAAS tab [21-50](#)
- Zones tab [21-50](#)
- zone-based firewall rules
  - configuring in Map view [35-23](#)
  - deleting [12-9](#)
  - disabling [12-20](#)
  - editing [12-10](#)
  - enabling [12-20](#)
  - moving [12-19](#)
- zone-based firewall rules policies
  - blocking spam using zone-based firewall rules [21-26](#)
  - configuring map objects for content filtering rules [21-36](#)
  - configuring map objects for inspection rules [21-16](#)
  - creating zones [6-73](#)
  - inspection parameters [21-31](#)

- match conditions for IM applications [21-21](#)
  - match conditions for P2P applications [21-21](#)
  - preventing SMTP DoS attacks [21-26](#)
  - protocol information for IM application inspection [21-33](#)
  - understanding interface role objects [6-72](#)
- Zone Contents dialog box [12-14](#)
- zones
- creating [6-73](#)
  - understanding interface role objects [6-72](#)
- zones, anomaly detection [41-3](#)
- Zoom In command [1-33](#)
- Zoom Out command [1-33](#)

