



Introduction

The *Cisco IOS Security Command Reference* contains commands that are used to configure Cisco IOS security features for your Cisco networking devices; specifically, it contains commands used to perform the following functions:

- Configure authentication, authorization, and accounting (AAA).
- Configure security server protocols such as RADIUS, TACACS+, and Kerberos.



Note

TACACS and Extended TACACS commands are included in Cisco IOS Release 12.2 software for backward compatibility with earlier Cisco IOS releases; however, these commands are no longer supported and are not documented for this release.

Cisco recommends using only the TACACS+ security protocol with Release 12.1 and later of Cisco IOS software. For a description of TACACS and Extended TACACS commands, refer to the chapter “TACACS, Extended TACACS, and TACACS+ Commands” in *Cisco IOS Release 12.0 Security Command Reference* at Cisco.com.

[Table 1](#) identifies Cisco IOS software commands available to the different versions of TACACS. Although TACACS+ is enabled through AAA and uses commands specific to AAA, there are some commands that are common to TACACS, Extended TACACS, and TACACS+. TACACS and Extended TACACS commands that are not common to TACACS+ are not documented in this release.

Table 1 TACACS Command Comparison

Cisco IOS Command	TACACS	Extended TACACS	TACACS+
aaa accounting	—	—	yes
aaa authentication arap	—	—	yes
aaa authentication enable default	—	—	yes
aaa authentication login	—	—	yes
aaa authentication ppp	—	—	yes
aaa authorization	—	—	yes
aaa group server tacacs+	—	—	yes
aaa new-model	—	—	yes
arap authentication	—	—	yes
arap use-tacacs	yes	yes	—

Table 1 TACACS Command Comparison (continued)

Cisco IOS Command	TACACS	Extended TACACS	TACACS+
enable last-resort	yes	yes	—
enable use-tacacs	yes	yes	—
ip tacacs source-interface	yes	yes	yes
login authentication	—	—	yes
login tacacs	yes	yes	—
ppp authentication	yes	yes	yes
ppp use-tacacs	yes	yes	—
server	—	—	yes
tacacs-server administration	—	—	yes
tacacs-server directed-request	yes	yes	yes
tacacs-server dns-alias-lookup	—	—	yes
tacacs-server host	yes	yes	yes
tacacs-server key	—	—	yes
tacacs-server packet	—	—	yes
tacacs-server timeout	yes	yes	—

- Configure the following traffic filtering and firewall features:
 - Context-Based Access Control (CBAC)
 - Intrusion Detection System (IDS)
 - Port to application mapping (PAM)
 - Reflexive access lists
 - TCP Intercept
- Configures IP Security (IPSec) and encryption features such as public key infrastructure (PKI) and Internet Key Exchange (IKE).
- Configures additional security features such as passwords and privileges, IP Security Options (IPSO), Unicast Reverse Path Forwarding (uRPF), secure shell (SSH), and AutoSecure.

For information on how to configure Cisco IOS security features and configuration examples using the commands in this book, refer to the *Cisco IOS Security Configuration Guide*.