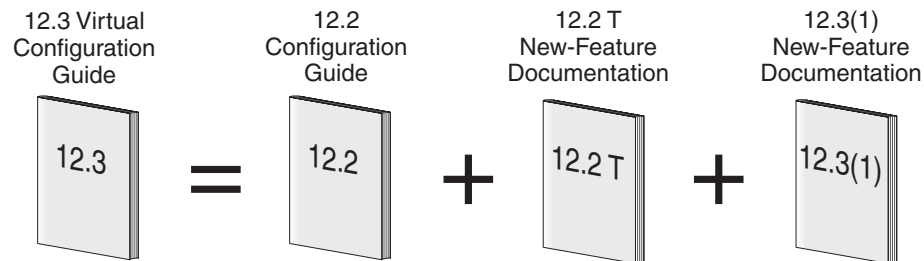


Cisco IOS IP Configuration Guide, Release 12.3

The *Cisco IOS IP Configuration Guide*, Release 12.3 (known as a “virtual configuration guide”) consists of the Cisco IOS Release 12.2 configuration guide and new-feature documentation for Cisco IOS Releases 12.2 T and 12.3(1).



In some cases, information contained in the new-feature documentation for Cisco IOS Release 12.3(1) and early-deployment Cisco IOS releases numbered 12.2 T augments or supersedes content in the Cisco IOS Release 12.2 configuration guides. New-feature documentation in later 12.2 T releases may replace new-feature documentation in earlier 12.2 T releases.

The following outline includes links to Cisco IOS Release 12.2 chapters and Cisco IOS Release 12.2 T new-feature documentation. Use these documents to configure your Cisco IOS Release 12.3 features.

Overview

- Chapter: [About Cisco IOS Software Documentation for Release 12.3](#) (12.3 document)
- Chapter: [Using Cisco IOS Software for Release 12.3](#) (12.3 document)
- Chapter: [IP Overview](#) (12.2 document; also pertains to 12.3*)

Part 1: IP Addressing and Services

- Chapter: [Configuring IP Addressing](#) (12.2 document; also pertains to 12.3*)
 - Note:** The HP Probe feature is not available for Cisco IOS software Release 12.3.
 - New Feature: [ARP Optimization](#) (12.2(15)T document)
 - New Feature: [NAT —Ability to Use Route Maps with Static Translation](#) (12.2(4)T document)
 - New Feature: [NAT Default Inside Server](#) (12.2(13)T document)
 - New Feature: [NAT Integration with MPLS VPNs](#) (12.2(13)T document)
 - New Feature: [NAT Stateful Failover of Network Address Translation](#) (12.2(13)T document)
 - New Feature: [NAT Static Mapping Support with HSRP for High Availability](#) (12.2(4)T document)
 - New Feature: [NAT Support for IPSec ESP—Phase II](#) (12.2(15)T document)
 - New Feature: [NAT Support for SIP](#) (12.2(8)T document)
 - New Feature: [NAT Support of H323 v2 RAS](#) (12.2(2)T document)
 - New Feature: [NAT—Translation of External IP Addresses Only](#) (12.2(4)T document)

- New Feature: [Support for IPsec ESP Through NAT](#) (12.2(13)T document)
- New Feature: [UDP Forwarding Support for Virtual Router Group \(VRG\)](#) (12.2(15)T document)
- New Feature: [Using 31-Bit Prefixes on IPv4 Point-to-Point Links](#) (12.2(2)T document)
- Chapter: [Configuring DHCP](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [DHCP Accounting](#) (12.2(15)T document)
 - New Feature: [DHCP Client on WAN Interfaces](#) (12.2(8)T document)
 - New Feature: [DHCP Relay - MPLS VPN Support](#) (12.2(8)T document)
 - New Feature: [DHCP Secured IP Address Assignment](#) (12.2(15)T document)
 - New Feature: [DHCP Server - On-Demand Address Pool Manager](#) (12.2(8)T document)
 - New Feature: [DHCP ODAP Server Support](#) (12.2(8)T document)
 - New Feature: [DHCP Server - Option to Ignore all BOOTP Requests](#) (12.2(15)T document)
 - New Feature: [DHCP Server Options Import and Autoconfiguration](#) (12.2(8)T document)
- Chapter: [Configuring IP Services](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [Enhanced Object Tracking](#) (12.2(15)T document)
 - New Feature: [GLBP - Gateway Load Balancing Protocol](#) (12.2(15)T document)
 - New Feature: [TCP Window Scaling](#) (12.2(8)T document)
 - New Feature: [Virtual Router Redundancy Protocol](#) (12.2(13)T document)
- Chapter: [Configuring IP Access Lists](#) (12.3 virtual chapter)
 - New Feature: [Distributed Time-Based Access Lists](#) (12.2(2)T document)
 - New Feature: [IP Access List Entry Sequence Numbering](#) (12.2(15)T document)
- Chapter: [Configuring Server Load Balancing](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Web Cache Services Using WCCP](#) (12.2 document; also pertains to 12.3*)

Part 2: IP Routing Protocols

- Chapter: [Configuring On-Demand Routing](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Routing Information Protocol](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring OSPF](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [OSPF ABR Type 3 LSA Filtering](#) (12.2(4)T document)
 - New Feature: [OSPF Stub Router Advertisement](#) (12.2(4)T document)
 - New Feature: [OSPF Update Packet-Pacing Configurable Timers](#) (12.2(4) document)
 - New Feature: [OSPF Sham-Link Support for MPLS VPN](#) (12.2(8)T document)
 - New Feature: [OSPF Retransmissions Limit](#) (12.2(11)T document)
 - New Feature: [OSPF Support for Multi-VRF on CE Routers](#) (12.2(13)T document)
 - New Feature: [OSPF Nonstop Forwarding \(NSF\) Awareness](#) (12.2(15)T document)
 - New Feature: [OSPF Forwarding Address Suppression in Translated Type-5 LSAs](#) (12.2(15)T document)
 - New Feature: [OSPF Inbound Filtering Using Route Maps with a Distribute List](#) (12.2(15)T document)
 - New Feature: [OSPF Shortest Path First Throttling](#) (12.2(15)T document)

- New Feature: [OSPF Support for Fast Hellos](#) (12.2(15)T document)
- Chapter: [Configuring EIGRP](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [EIGRP Nonstop Forwarding \(NSF\) Awareness](#) (12.2(15)T document)
 - New Feature: [MPLS VPN support for EIGRP between Provider Edge \(PE\) and Customer Edge \(CE\)](#) (12.2(15)T document)
- Chapter: [Configuring Integrated IS-IS](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [Integrated IS-IS Point-to-Point Adjacency Over Broadcast Media](#) (12.2(8)T document)
 - New Feature: [IS-IS HMAC-MD5 Authentication and Enhanced Clear Text Authentication](#) (12.2(13)T document)
 - New Feature: [Integrated IS-IS Nonstop Forwarding \(NSF\) Awareness](#) (12.2(15)T document)
- Chapter: [Configuring BGP](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [BGP Conditional Route Injection](#) (12.2(4)T document)
 - New Feature: [BGP Hide Local-Autonomous System](#) (12.2(8)T document)
 - New Feature: [BGP Hybrid CLI](#) (12.2(15)T document)
 - New Feature: [BGP Increased Support of Numbered AS-path Access Lists to 500](#) (12.2(15)T document)
 - New Feature: [BGP Link Bandwidth](#) (12.2(2)T document)
 - New Feature: [BGP Multipath Load Sharing for Both eBGP and iBGP in an MPLS-VPN](#) (12.2(4)T document)
 - New Feature: [BGP Named Community Lists](#) (12.2(8)T document)
 - New Feature: [BGP Nonstop Forwarding \(NSF\) Awareness](#) (12.2(15)T document)
 - New Feature: [BGP Next Hop Propagation](#) (12.0(22)S document)
 - New Feature: [BGP Prefix-Based Outbound Route Filtering](#) (12.2(4)T document)
 - New Feature: [BGP Restart Session After Max-Prefix Limit](#) (12.2(15)T document)
 - New Feature: [BGP Route-Map Policy List Support](#) (12.2(15)T document)
 - New Feature: [iBGP Multipath Load Sharing](#) (12.2(2)T document)
- Chapter: [Configuring Multiprotocol BGP Extensions for IP Multicast](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [BGP Policy Accounting](#) (12.2(13)T document)
- Chapter: [Configuring IP Routing Protocol-Independent Features](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [IP Event Dampening](#) (12.2(13)T document)

Part 3: IP Multicast

- Chapter: [Configuring IP Multicast Routing](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [IGMP State Limit](#) (12.2(15)T document)
 - New Feature: [IGMP Version 3 - Explicit Tracking of Hosts, Groups, and Channels](#) (12.2(8)T document)
 - New Feature: [Multicast Subsecond Convergence](#) (12.2(15)T document)
 - New Feature: [Multicast-VPN—IP Multicast Support for MPLS VPNs](#) (12.2(13)T document)
 - New Feature: [PIM MIB Extension for IP Multicast](#) (12.2(4)T document)
- Chapter: [Configuring Source Specific Multicast](#) (12.2 document; also pertains to 12.3*)

- Chapter: [Configuring Bidirectional PIM](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Multicast Source Discovery Protocol](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring PGM Host and Router Assist](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Unidirectional Link Routing](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Using IP Multicast Tools](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Router-Port Group Management Protocol](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring DVMRP Interoperability](#) (12.2 document; also pertains to 12.3*)

Part 4: IP Mobility

- Chapter: [Configuring Mobile IP](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [Mobile IP—Challenge/Response Extensions](#) (12.2(13)T document)
 - New Feature: [Mobile IP—Generic NAI Support and Home Address Allocation](#) (12.2(13)T document)
 - New Feature: [Mobile IP Home Agent Accounting](#) (12.2(15)T document)
 - New Feature: [Mobile IP Home Agent Policy Routing](#) (12.2(13)T document)
 - New Feature: [Mobile IP MIB Support for SNMP](#) (12.2(2)T document)
 - New Feature: [Mobile IP—NAT Detect](#) (12.2(13)T document)
 - New Feature: [Mobile IP—Support for Foreign Agent Reverse Tunneling](#) (12.2(13)T document)
- Chapter: [Configuring Mobile Networks](#) (12.3 virtual chapter)
 - New Feature: [Cisco Mobile Networks](#) (12.2(4)T document)
 - New Feature: [Cisco Mobile Networks—Asymmetric Link](#) (12.2(13)T document)
 - New Feature: [Cisco Mobile Networks—Static Collocated Care-of Address](#) (12.2(15)T document)
 - New Feature: [Cisco Mobile Networks—Priority HA Assignment](#) (12.2(15)T document)
 - New Feature: [Cisco Mobile Networks—Tunnel Templates for Multicast](#) (12.2(15)T document)

[New-Feature List and Feature Guide Book-Level PDF for Cisco IOS IP, Release 12.3](#)

Click the above link to access an alphabetically ordered new-features list and a feature guide book-level PDF for the IP technology area.

[Book Index to the Cisco IOS IP Configuration Guide, Release 12.2](#)

Click the above link to display the index of the *Cisco IOS IP Configuration Guide*, Release 12.2. This index does not include the new-feature documentation for the releases numbered 12.2 T.

[Book-Level PDF for Cisco IOS IP Configuration Guide, Release 12.2](#)

Click the above link to download the book-level PDF of the *Cisco IOS IP Configuration Guide*, Release 12.2. This book-level PDF does not include the new-feature documentation for the releases numbered 12.2 T.

*Cisco IOS Release 12.2 documents are still current for Cisco IOS Release 12.3 where not superseded by Cisco IOS Release 12.2 T and 12.3(1) new-feature documentation.