## Objective
Define a specific software image in order to view its supported features.

Select from the pull down menus to find releases which support particular platform and feature set combinations. View your results in the table below and repeat as necessary to define a specific software image.

### Your Selections:

<table>
<thead>
<tr>
<th>Software</th>
<th>IOS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Release</td>
<td>12.2SRD</td>
</tr>
<tr>
<td>Release</td>
<td>12.2(33)SRD</td>
</tr>
<tr>
<td>Platform</td>
<td>7200</td>
</tr>
<tr>
<td>Feature Set/License</td>
<td>SP SERVICES</td>
</tr>
</tbody>
</table>

### New Search

### Search Results

### Image Info

<table>
<thead>
<tr>
<th>Image Name</th>
<th>c7200-spservicesk9-mz.122-33.SRD.bin</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRAM / Min Flash</td>
<td>128 / 64</td>
</tr>
<tr>
<td>Enterprise Product Number</td>
<td>S72SPSK9-12233SRD</td>
</tr>
</tbody>
</table>

### Compare Images

### View MIBs

### Release Notes

### Image Download Information

### Features

- 256+ VLANS
- 6PE Multipath
- 8-Way CEF Load Balancing
- 802.1p CoS - PPP & PPPoE Control Frames
- AAA Authorization and Authentication Cache
- AAA Broadcast Accounting
- AAA CLI Stop Record Enhancement
- AAA DNIS Map for Authorization
- AAA Double Authentication Secured by Absolute Timeout
- AAA High Availability Support for Local PPPoX Sessions
- AAA Per-User Scalability
- AAA Resource Accounting
- AAA Server Group
- AAA Server Group Deadtimer
- AAA Server Group Enhancements
- AAA Server Groups Based on DNIS
- ACL - Improved Merging Algorithm
- ACL - Named ACL Support for Noncontiguous Ports on an Access Control Entry
- ACL - Reflexive Access Lists
- ACL Sequence Numbering
- Additional Vendor-Proprietary RADIUS Attributes
- Address Resolution Protocol (ARP)
Always On Dynamic ISDN (AO/DI)
Answer Supervision Reporting
Any Transport over MPLS (AToM) - Pseudowire Provisioning
Any Transport over MPLS (AToM): Ethernet over MPLS: Port Mode (EoMPLS)
Any Transport over MPLS (AToM): ATM Cell Relay over MPLS: Packed Cell Relay
Any Transport over MPLS (AToM): ATM Cell Relay over MPLS: VP Mode
Any Transport over MPLS (AToM): Ethernet over MPLS (EoMPLS)
Any Transport over MPLS (AToM): Frame Relay over MPLS (FRoMPLS)
Any Transport over MPLS (AToM): Graceful Restart
Any Transport over MPLS (AToM): HDLC over MPLS (HDLCoMPLS)
Any Transport over MPLS (AToM): Port Mode Cell Relay Support
Any Transport over MPLS (AToM): PPP over MPLS (PPPoMPLS)
Any Transport over MPLS (AToM): Single Cell Relay - VC Mode (CRoMPLS)
Any Transport over MPLS (AToM): Tunnel Selection
Area Command in Interface Mode for OSPFv2
ARP Optimization
Asynchronous Rotary Line Queuing
Asynchronous Serial Traffic Over UDP (aka UDPTN)
ATM AAL5 OAM Emulation over L2TPv3
ATM ARP Client
ATM ARP Server
ATM Cell Loss Priority (CLP) Setting
ATM LANE Fast Simple Server Redundancy Protocol (LANE Fast SSRP)
ATM OAM Ping
ATM Port Mode Cell Relay over L2TPv3
ATM Port Mode Packed Cell Relay over MPLS
ATM PVC Range and Routed Bridge Encapsulation Subinterface Grouping
ATM PVC Trap Enhancements for Segment and End AIS/RDI failures
ATM PVC Trap Support
ATM Routed Bridge Encapsulation (RBE)
ATM Single Cell Relay (VC Mode) over L2TPv3
ATM VC Bundling
ATM VP Mode Single Cell Relay over L2TPv3
ATM-DXI
AToM over GRE
Attribute Filtering Per-Domain and VRF Aware Framed-Routes
Attribute Screening For Access Requests
AutoInstall Using DHCP for LAN Interfaces
Automatic modem configuration
Automatic Protection Switching (APS)
AutoRP Enhancement
AutoSecure
Bandwidth-Based Call Admission Control (CAC) for IP Multicast
BFD - Static Route Support
BFD - VRF Support
BFD Echo Mode
BFD version 1 support
BGP
BGP 4
BGP 4 Multipath Support
BGP 4 Prefix Filter and In-bound Route Maps
BGP 4 Soft Config
BGP Conditional Route Injection
BGP Configuration Using Peer Templates
BGP Convergence Optimization
BGP Cost Community
BGP Cost Community Support for EIGRP MPLS VPN PE-CE
BGP Dynamic Update Peer-Groups
BGP Hide Local-Autonomous System
BGP Hybrid CLI Support
BGP Increased Support of Numbered as-path Access Lists to 500
BGP Link Bandwidth
BGP Multicast Inter-AS (IAS) VPN
BGP Multipath Load Sharing for Both eBGP and iBGP in an MPLS-VPN
BGP Named Community Lists
BGP Neighbor Policy
BGP Next Hop Propagation
BGP Per Neighbor Graceful Restart Configuration
BGP Per Neighbor SOO Configuration
BGP Policy Accounting
BGP Prefix-Based Outbound Route Filtering
BGP Reduction in Transient Memory Usage
BGP Restart Neighbor Session After max-prefix Limit Reached
BGP Route-Map Continue
BGP Route-Map Continue Support for Outbound Policy
BGP Route-Map Policy List Support
BGP Selective Address Tracking
BGP Soft Reset
BGP Support for BFD
BGP Support for Dual AS Configuration for Network AS Migrations
BGP Support for Fast Peering Session Deactivation
BGP Support for IP Prefix Import from Global Table into a VRF Table
BGP Support for MTR
BGP Support for Named Extended Community Lists
BGP Support for Next-Hop Address Tracking
BGP Support for Sequenced Entries in Extended Community Lists
BGP Support for TCP Path MTU Discovery per Session
BGP Support for TTL Security Check
Bidirectional Forwarding Detection (BFD) Standard Implementation
Bidirectional PIM
Bisync support for synchronous serial port adapters
Bridge Control Protocol (BCP)
Bridge Control Protocol (BCP) Quality of Service (QoS)
Bridging between IEEE 802.1Q vLANs
Call Admission Control for IKE
Caller ID
CDP (Cisco Discovery Protocol) Version 2
CEF Support for IP Routing between IEEE 802.1Q vLANs
CEF Switching for Routed Bridge Encapsulation
CEF/dCEF - Cisco Express Forwarding
CEFv6/dCEFv6 - Cisco Express Forwarding
Certificate - Auto Enrollment
Certificate - Security Attribute-Based Access Control
Certificate - Storage Location Specification
Certificate - ISAKMP Profile Mapping
Certification Authority Interoperability (CA)
CGMP - Cisco Group Management Protocol
Challenge Handshake Authentication Protocol (CHAP)
Channelized E1 Signaling
Cisco Frame Relay MIB enhancement
Cisco IOS Login Enhancements
CISCO-IP-URPF-MIB Support
Class Based Ethernet CoS Matching & Marking (802.1p & ISL CoS)
Class Based Weighted Fair Queuing (CBWFQ)
Class-Based Marking
Class-Based Policing
Class-Based Shaping
Clear IP Traffic CLI
CLI String Search
CNS
CNS - Configuration Agent
CNS - Event Agent
CNS - Image Agent
CNS - Interactive CLI
CNS Config Retrieve Enhancement with Retry and Interval
Command Scheduler (Kron)
Command Scheduler (Kron) Policy for System Startup
Commented IP Access List Entries
Committed Access Rate (CAR)
Config Logger Persistency
Configurable MAC Address for PPPoE
Configurable per ATM-VC Hold Queue size
Configurable Timers in H.225
Configuration Change Notification and Logging
Configuration Generation Performance Enhancement
Configuration Replace and Configuration Rollback
Configuration Rollback Confirmed Change
Configuration Versioning
Connect-Info RADIUS Attribute 77
Connection-Mode Network Service (CMNS)
Contextual Configuration Diff Utility
Control Plane DSCP Support for RSVP
Control Plane Policing (CoPP)
Control Plane Policing - Time based
COPS for RSVP
Crypto Conditional Debug Support
CT1/RBS (Robbed Bit Signaling)
CUG Selection Facility Suppress Option
Custom Queueing (CQ)
Default Passive Interface
Define Interface Policy-Map AV Pairs
DHCP - Configurable DHCP Client
DHCP - Relay Option 82 Encapsulation
DHCP - Server Multiple subnet
DHCP Accounting
DHCP Address Allocation using Option 82
DHCP Authorized ARP
DHCP Client
DHCP ODAP Server Support
DHCP On Demand Address Pool (ODAP) Manager for non-MPLS VPN pools
DHCP Per Interface Lease Limit and Statistics
DHCP Proxy Client
DHCP Relay - MPLS VPN Support
DHCP Relay Agent Support for Unnumbered Interfaces
DHCP Relay Option 82 - Per Interface Support
DHCP Relay Subscriber Identifier Suboption
DHCP Secured IP Address Assignment
DHCP Server
DHCP Server Options - Import and Autoconfiguration
Dial Backup
Dial Peer Enhancements
Dial-on-demand
Dialer Idle Timer Inbound Traffic Configuration
Dialer Profiles
Dialer Watch
DiffServ Compliant dWRED
Diffserv Compliant WRED
Disabling LANE Flush Process
Distinguished Name Based Crypto Maps
Distributed Network-based Application Recognition (dNBAR)
Distributed Traffic Shaping (dTS)
DLR Enhancements: PGM RFC-3208 Compliance
DLSw (RFC 1795)
DLSw CO features
DLSw V2
DLSw+ Asynchronous TCP Enhancements
DLSw+ Peer Group Clusters
DLSw+ RSVP Bandwidth Reservation
DLSw+ SNA Type of Service
DLSw+ Support For Transporting LLC1 UI Traffic
DMVPN - Phase 2
DNS based X.25 routing
Double Authentication
Down Stream Physical Unit (DSPU) over DLSw+
DRP Server Agent
Dual PQ (Priority Queue)
Dynamic Bandwidth Change for ATM PVCs
Dynamic Feedback Protocol (DFP)
Dynamic Multiple Encapsulation for Dial-in over ISDN
Dynamic Per VRF AAA
Dynamic Subscriber Bandwidth Selection
E1 R2 Signaling
Easy IP (Phase 1)
Easy VPN Client RSA - Signature Support
Easy VPN Phase 5.0
EasyVPN Phase 6
EasyVPN Server Enhancements
EIGRP MPLS VPN PE-CE Site of Origin (SoO)
EIGRP Stub Routing
EIGRP Support for MTR
EIGRP Support for Route Map Filtering
Embedded Event Manager (EEM) 2.0
Embedded Event Manager (EEM) 2.1
Embedded Event Manager (EEM) 2.2
Embedded Network Management Improvements
Encrypted Kerberized Telnet
Encrypted Pre-shared Key
Encrypted Vendor Specific Attributes
Enhanced ATM VC Configuration and Management
Enhanced IGRP (EIGRP)
Enhanced Local Management Interface (ELMI)
Enhanced Password Security
Enhanced Test Command
Enhanced Tracking Support
Etherchannel Guard
Exclusive Configuration Change Access
Exporting and Importing RSA Keys
Extended ACL support for IGMP to support SSM in IPv4
Extended NAS-Port-Type and NAS-Port Support
Fast-Switched Policy Routing
Fast-Switched SRTLB
FAT32 Support
Fax Relay Packet Loss Concealment
Feature Group D Support
FHRP - Enhanced Object Tracking of IP SLAs
FHRP - EOT integration with EEM
FHRP - HSRP - Hot Standby Router Protocol V2
FHRP - HSRP Group Shutdown
FHRP - HSRP Multiple Group Optimization
FHRP - Object Tracking List
Field Programmable Device Upgrade Tool
Flexible NetFlow
Flow-Based WRED
Frame Relay
Frame Relay - Multilink (MLFR-FRF.16)
Frame Relay Access Support (FRAS) Border Access Node (BAN)
Frame Relay Access Support (FRAS) Boundary Network Node (BNN)
Frame Relay Access Support (FRAS) Dial Backup over DLSW+
Frame Relay Access Support (FRAS) DLCI Backup
Frame Relay Access Support (FRAS) Host
Frame Relay ELMI Address Registration
Frame Relay Encapsulation
Frame Relay End-to-End Keepalive
Frame Relay Fragmentation (FRF.12)
Frame Relay Fragmentation with Hardware Compression
Frame Relay FRF.1.2 Annex A Support
Frame Relay FRF.9 Payload Compression
Frame Relay PVC Interface Priority Queueing
Frame Relay Queuing and Fragmentation at the Interface
Frame Relay Router ForeSight
Frame Relay Show and Debug Command Enhancement
Frame Relay Switching
Frame Relay Switching Diagnostics and Troubleshooting
Frame Relay Switching Enhancements: Shaping and Policing
Frame Relay Traffic Shaping (FRTS)
Frame Relay Tunnel Switching
Frame Relay VC Bundling
Framed-Route in RADIUS Accounting
FRF.11 for FlexWAN Module
FTP Support for Downloading Software Images
FUNI Support for Routers
Gateway Load Balancing Protocol (GLBP)
Generic Routing Encapsulation (GRE)
Generic Routing Encapsulation (GRE) Tunnel Keepalive
Generic Routing Encapsulation Tunnel IP Source and Destination VRF Membership (PXF Based)
Generic Traffic Shaping (GTS)
GRE Tunnel IP Source and Destination VRF Membership
H.323 Version 2 Support
H.323 Redundant Zone Support
Half bridge/half router for CPP and PPP
Hierarchical Traffic Shaping
HQoS Support for Ethernet Over MPLS (EoMPLS) VC
HSRP - Hot Standby Router Protocol
HSRP for IPv6
HSRP MD5 Authentication
HSRP support for ICMP Redirects
HSRP support for MPLS VPNs
HTTP Security
HTTP TACAC+ Accounting support
ICMP Unreachable Rate Limiting User Feedback
IEEE 802.1Q VLAN Support
IEEE 802.1t
IGMP State Limit
IGMP Version 1
IGMP Version 2
IGMP Version 3
IGMP Version 3 - Explicit Tracking of Hosts, Groups, and Channels
IGRP
IKE - Initiate Aggressive Mode
Image Verification
Integrated IS-IS Global Default Metric
Integrated IS-IS Point to Point Adjacency over Broadcast Media
Integrated IS-IS Protocol Shutdown Support Maintaining Configuration Parameters
Integrated routing and bridging (IRB)
Interface Alias Long Name Support
Interface Index Persistence
Interface Range Specification
Internet Protocol Control Protocol (IPCP) address negotiation
Invalid Special Parameter Index (SPI) Recovery
Inverse Multiplexing over ATM (IMA)
IP DSCP marking for Frame-Relay PVC
IP Enhanced IGRP Route Authentication
IP Event Dampening
IP Multicast Load Splitting - Equal Cost Multipath (ECMP) using S, G and Next-hop
IP Multicast Load Splitting across Equal-Cost Paths
IP Multicast over 1483 VC Mux Encapsulation on ARMII
IP Multilayer Switching (IP MLS)
IP Named Access Control List
IP over CLNS tunnel
IP Precedence Accounting
IP Precedence for GRE Tunnels
IP Routing
IP Routing of RFC1483 ATM Bridge Encapsulation (RBE)
IP SLAs - DHCP Operation
IP SLAs - Distribution of Statistics
IP SLAs - DLSW+ Operation
IP SLAs - DNS Operation
IP SLAs - FTP Operation
IP SLAs - History Statistics
IP SLAs - HTTP Operation
IP SLAs - ICMP Echo Operation
IP SLAs - ICMP Path Echo Operation
IP SLAs - LSP Health Monitor
IP SLAs - LSP Health Monitor with LSP Discovery
IP SLAs - MPLS VPN Awareness
IP SLAs - Multi Operation Scheduler
IP SLAs - One Way Measurement
IP SLAs - Path Jitter Operation
IP SLAs - Reaction Threshold
IP SLAs - Scheduler
IP SLAs - SNA LU2 Echo
IP SLAs - SNMP Support
IP SLAs - TCP Connect Operation
IP SLAs - UDP Based VoIP Operation
IP SLAs - UDP Echo Operation
IP SLAs - UDP Jitter Operation
IP SLAs - VoIP Threshold Traps
IP SLAs for MPLS Pseudo Wire (PWE3) via VCCV
IP SLAs Random Scheduler
IP Summary Address for RIPv2
IP to ATM CoS, per-VC WFQ and CBWFQ
IP Unnumbered for VLAN-SVI interfaces
IP-to-ATM CoS
IPSec Anti-Replay Window: Expanding and Disabling
IPSec Dead Peer Detection (DPD) Periodic Message Option
IPSEC Preferred Peer
IPSec SA Idle Timers
IPSec VPN Accounting
IPSec VPN Monitoring
IPSec VT1 - Virtual Tunnel Interface
IPv6 - CNS Agents
IPv6 - Config Logger
IPv6 - HTTP(S)
IPv6 - SOAP
IPv6 - TCL
IPv6 ACL Extensions for Mobile IPv6
IPv6 Policy-Based Routing
IPv6 Services: Extended Access Control Lists
IPv6 Switching: Provider Edge Router over MPLS (6PE)
IS-IS
IS-IS Caching of Redistributed Routes
IS-IS HMAC-MD5 Authentication
IS-IS Incremental Shortest Path First (i-SPF) Support
IS-IS Limit on Number of Redistributed Routes
IS-IS Mechanism to Exclude Connected IP Prefix from LSP Advertisements
IS-IS MIB
IS-IS Multiarea Support
IS-IS Support for an IS-IS Instance per VRF for IP
IS-IS Support for BFD over IPv4
IS-IS Support for IP Route Tags
IS-IS Support for MTR
IS-IS Support for Priority-Driven IP Prefix RIB Installation
ISDN
ISDN Advice of Charge (AOC)
ISDN Caller ID Callback
ISDN Leased Line at 128kbps
ISDN NFAS
ISDN Progress Indicator support for SIP using 183 Session Progress
ISG: Network Interface: IP Routed, VRF Aware MPLS
ISG: Policy Control: Service Profiles
ISG: Accounting: Postpaid
ISG: Authentication: DHCP Option 82 Line ID - AAA Authorization support
ISG: Instrumentation: Session & Flow Monitoring (local and external)
ISG: Policy Control: Cisco Policy Language
ISG: Policy Control: Multidimensional Identity per Session
ISG: Policy Control: Policy Server: CoA (QoS, L4 redirect, User ACL, TimeOut)
ISG: Policy Control: Policy: Domain Based (Auto-domain, proxy)
ISG: Policy Control: Policy: Triggers (Time, Volume, Duration)
ISG: Session: Auth: Single Sign On
ISG: Session: Lifecycle: Idle Timeout
ISG: Session: Lifecycle: POD
ISO CLNS
ISSU - IS-IS
Kerberos V Client Support
Key Rollover for Certificate Renewal
L2TP Calling Station ID Suppression
L2TP Congestion Avoidance
L2TP Domain Screening
L2TP Layer 2 Tunneling Protocol
L2TPv3 - Layer-2 Tunneling Protocol Version 3
L2VPN Interworking - Ethernet to VLAN Interworking
L2VPN Interworking: Ethernet VLAN to ATM AAL5
L2VPN Interworking: Ethernet VLAN to Frame Relay
L2VPN Interworking: Frame Relay to PPP
L2VPN Pseudowire Redundancy
LAN Network Manager over DLSw+
LANE dCEF
LANE Optimum Switching
Layer 2 Forwarding-Fast Switching
Layer 2 Local Switching - ATM to Ethernet
Layer 2 Local Switching - ATM to Frame Relay (FR) with Interworking
Layer 2 Local Switching - Frame Relay to Frame Relay
Layer 2 Local Switching - Same-Port Switching for ATM
Layer 2 Local Switching - Same-Port Switching for Frame Relay
Link Aggregation Control Protocol (LACP) (802.3ad) for Gigabit Interfaces
Link Fragmentation and Interleaving (LFI) for Frame Relay and ATM Virtual Circuits
LLID Blocking
Loadsharing IP packets over more than six parallel paths
Local AAA Server
Local Proxy ARP
Local Voice Busyout (LVBO)
Lock and Key
Low Latency Queueing (LLQ)
Low Latency Queueing (LLQ) for Frame Relay
Manual certificate enrollment (TFTP and cut-and-paste)
Manual Certificate Enrollment via TFTP
Memory Leak Detector
Memory Threshold Notifications
Message Banners for AAA Authentication
MGCP - Media Gateway Control Protocol
MGCP support for CallManager (IP-PBX)
MLPPP - Multilink PPP
MLPPP Minimum Links Mandatory
MLPPP QoS (CBWFQ, LLQ, WRED)
Modem over BRI
Modem PassThrough over Voice over IP
Modular QoS CLI (MQC)
Modular QoS CLI (MQC) Three-Level Hierarchical Policer
MPLS (Multiprotocol Label Switching)
MPLS - Egress Netflow
MPLS Class of Service (CoS)
MPLS Class of Service (CoS) Enhancements
MPLS Diff-Serv-Aware Traffic Engineering (DS-TE)
MPLS Egress NetFlow Accounting
MPLS EM - LSP Ping/Trace for LDP & RSVP IPv4 FECs
MPLS EM - MPLS TE MIB Trap Notifications
MPLS Label Switch Controller (LSC) and Enhancements
MPLS LDP - Autoconfiguration
MPLS LDP - Graceful Restart
MPLS LDP - Inbound Label Binding Filtering
MPLS LDP - Label Distribution Protocol (LDP)
MPLS LDP - Lossless MD5 Session Authentication
MPLS LDP - MIB Notifications
MPLS LDP - Session Protection
MPLS LDP - VRF Aware Static Labels
MPLS LSP Ping/Traceroute and AToM VCCV
MPLS Quality of Service (QoS) Enhancements
MPLS Scalability Enhancements for LSC and ATM LSR
MPLS Static Labels
MPLS TE - BFD-triggered Fast Reroute (FRR)
MPLS TE--Tunnel-Based Admission Control (TBAC)
MPLS Traceroute
MPLS Traffic Engineering (TE)
MPLS Traffic Engineering (TE) - Automatic bandwidth adjustment for TE tunnels
MPLS Traffic Engineering (TE) - Class-based Tunnel Selection
MPLS Traffic Engineering (TE) - Configurable Path Calculation Metric for Tunnels
MPLS Traffic Engineering (TE) - Fast Reroute (FRR) Link and Node Protection
MPLS Traffic Engineering (TE) - Interarea Tunnels
MPLS Traffic Engineering (TE) - IP Explicit Address Exclusion
MPLS Traffic Engineering (TE) - LSP Attributes
MPLS Traffic Engineering (TE) - OSPF Support
MPLS Traffic Engineering (TE) - Path Protection
MPLS Traffic Engineering (TE) - RSVP Hello State Timer
MPLS Traffic Engineering (TE) - Scalability Enhancements
MPLS Traffic Engineering (TE) - Verbatim Path Support
MPLS Traffic Engineering - AutoTunnel Mesh Groups
MPLS Traffic Engineering -- Overload Avoidance Support for IS-IS
MPLS Traffic Engineering Forwarding Adjacency
MPLS Traffic Engineering--Inter-AS TE
MPLS Traffic Engineering: Shared Risk Link Groups (SRLG)
MPLS Virtual Private Networks (VPN)
MPLS VPN - eBGP Multipath support for CSC and InterAS MPLS VPNs
MPLS VPN - Explicit Null Label Support with BGP IPv4 Label Session
MPLS VPN - Inter-Autonomous System Support
MPLS VPN - Loadbalancing support for Inter-AS and CSC VPNs
MPLS VPN - Multi-Path support for Inter-AS VPNs
MPLS VPN - OSPF PE-CE Support
MPLS VPN - Route Target Rewrite
MPLS VPN Carrier Supporting Carrier
MPLS VPN Carrier Supporting Carrier - IPv4 BGP Label Distribution
MPLS VPN Half Duplex VRF (HDVRF)
MPLS VPN ID
MPLS VPN Inter-AS - IPv4 BGP Label Distribution
MPLS VPN support for EIGRP between Provider Edge (PE) and Customer Edge (CE)
MPLS-Aware NetFlow
MQC - Distribution of Remaining Bandwidth via Ratio
MQC - Multi-Level Priority Queue
MQC - Traffic Shaping Overhead Accounting for ATM
MSDP compliance with IETF RFC 3618
Multi-protocol BGP (MP-BGP) - MPLS VPN
Multi-VRF Selection Using Policy Based Routing (PBR)
Multicast BGP (MBGP)
Multicast Fast Switching Performance Improvement
Multicast NAT
Multicast Routing Monitor (MRM)
Multicast Source Discovery Protocol (MSDP)
Multicast Subsecond Convergence
Multicast VPN Inter-AS Support
Multicast-VPN: Multicast Support for MPLS VPN
Multichassis MultiLink PPP (MMP)
Multiclass Multilink PPP Enhancement
Multilink Frame Relay (FRF.16.1) - Variable Bandwidth Class
Multimedia Conference Manager with Voice Gateway image with RSVP to ATM SVC
Multiple RSA Keypair Support
Multiprotocol over ATM (MPOA)
Multiprotocol over ATM for Token Ring (MPOA)
Named Method Lists for AAA Authorization and Accounting
NAS-Port ID Format C Enhancement
NAT - Network Address Translation
NAT - Performance & Scalability enhancement - Timer Wheel
NAT - Performance Enhancement - CEF Switching Support
NAT - Performance enhancement - Translation Table Optimization
NAT - Rate Limiting NAT Translation
NAT - Support for NetMeeting Directory (Internet Locator Service - ILS)
NAT - Translation of external IP Addresses only
NAT-Support of IP Phone to Cisco Call Manager
Native Service Point over DLSW+
NBAR - Network-based Application Recognition
NBAR Real-time Transport Protocol Payload Classification
NetBEUI over PPP (NBFCP)
NETCONF over SSHv2
NetFlow
NetFlow Aggregation
Netflow Data Export (NDE) Version 8
Netflow Egress Accounting
NetFlow Export of BGP Next hop Information
Netflow Input Filters and Multi-Sampling rates
NetFlow MPLS Aggregation
Netflow Multiple Export Destinations
NetFlow v9 Export Format
Network Services Engine (NSE)
Network Side ISDN PRI Signaling, Trunking, and Switching
Network Time Protocol (NTP)
Next Hop Resolution Protocol (NHRP)
NSF - BGP
NSF - OSPF
NSF - OSPF (RFC 3623 OSPF Graceful Restart)
NSF / SSO - Any Transport over MPLS (AToM)
NSF Awareness (Nonstop Forwarding Awareness)
NSF/SSO - MPLS TE and RSVP Graceful Restart
NSF/SSO - MPLS VPN
OCSP (Online Certificate Status Protocol)
Offload Server Accounting Enhancement
On Demand Routing (ODR)
Optional OCSPNonce
OSPF
OSPF Area Transit Capability
OSPF Flooding Reduction
OSPF Forwarding Address Suppression in Translated Type-5 LSAs
OSPF Inbound Filtering using Route Maps with a Distribute List
OSPF Incremental Shortest Path First (i-SPF) Support
OSPF Limit on Number of Redistributed Routes
OSPF Link State Database Overload Protection
OSPF Link-local Signaling (LLS) Per Interface Basis
OSPF MIB Support of RFC 1850 and Latest Extensions
OSPF Not-So-Stubby Areas (NSSA)
OSPF On Demand Circuit (RFC 1793)
OSPF Packet Pacing
OSPF Sham-Link MIB Support
OSPF Sham-Link Support for MPLS VPN
OSPF Shortest Paths First Throttling
OSPF Stub Router Advertisement
OSPF Support for BFD over IPv4
OSPF Support for Fast Hellos
OSPF Support for Forwarding Adjacencies over MPLS Traffic Engineered Tunnels
OSPF Support for Link State Advertisement (LSA) Throttling
OSPF Support for Multi-VRF on CE Routers
OSPF Support for Unlimited Software VRFs per Provider Edge (PE) Router
OSPF Update Packet-Pacing Configurable Timers
Packet Classification Based on Layer3 Packet-Length
PAD Subaddressing
Parse Bookmarks
Parser Cache
Password Authentication Protocol (PAP)
PBR Support for Multiple Tracking Options
Per Interface Mroute State Limit
Per Interface Sticky ARP
Per VLAN Load Balancing for Advanced QinQ Service Mapping
Per VRF AAA
Per-User Configuration
Per-User QoS via AAA Policy Name
Per-VC queuing for ATM
Per-VRF Assignment of BGP Router-ID
Performance Enhancements for IOS ACL
Persistent Self-Signed Certificates
PGM Host
PIM Dense Mode State Refresh
PIM MIB Extension for IP Multicast
PIM Multicast Scalability
PIM Version 1
PIM Version 2
PKI AAA Authorization Using the Entire Subject Name
Policer Enhancement - Multiple Actions
Policy-Based Routing (PBR)
PPP
PPP MLP MRRU negotiation configuration
PPP over ATM
PPP over ATM (IETF-Compliant)
PPP over ATM SVCs
PPP over Frame Relay
PPP-Max-Payload and IWF PPPoE Tag Support
PPPoE - QinQ Support
PPPoE - Session Limiting on Inner QinQ VLAN
PPPoE Agent Remote ID & DSL Line Characteristics Enhancement
PPPoE Circuit-ID Tag Processing
PPPoE Connection Throttling
PPPoE on Ethernet
PPPoE over Gigabit Ethernet interface
PPPoE Service Selection
PPPoE Session limit
PPPoE Session Recovery After Reload
Pragmatic General Multicast (PGM)
Priority Queuing (PQ)
Protected Private Key Storage
Protocol Translation (PT)
PSTN Fallback
PXF Based Frame Relay DE Bit Marking
QoS - Hierarchical Queuing for Ethernet DSLAMs
QoS - MQC Support for MTR
QoS - Percentage-Based Shaping
QoS - Policing Support for GRE Tunnels
QoS Child Service Policy for Priority Class
QoS Device Manager (QDM)
QoS for Virtual Private Networks
QoS over LANE
QoS Packet Marking
QoS Policy Propagation via Border Gateway Protocol (QPPB)
QoS Priority Percentage CLI Support
QoS: Aggregated DSCP / Precedence Values for WRED
QoS: CBQoS Management - Policy-to-Interface Mapping Support
QoS: Ingress Shaping
QoS: Percentage Based Policing
QSIG Protocol Support
Query Mode Definition Per Trustpoint
Query Multiple Servers during Certificate Revocation Check
RADIUS
RADIUS Attribute 44 (Accounting Session ID) in Access Requests
RADIUS Attribute 52 and 53 Gigaword Support
RADIUS Attribute 66 (Tunnel-Client-Endpoint) Enhancements
RADIUS Attribute 77 for DSL
RADIUS Attribute Value Screening
RADIUS Centralized Filter Management
RADIUS for Multiple User Datagram Protocol Ports
RADIUS Logical Line ID
RADIUS NAS-IP-Address Configurability
RADIUS Progress Codes
RADIUS Push for MOD CLI Policies
RADIUS Route Download
RADIUS Server Load Balancing
RADIUS Server Reorder on Fail
RADIUS Tunnel Attribute Extensions
Random Early Detection (RED)
Rate Queues for SVCs per sub-interface
RBSCP (Rate Based Satellite Control Protocol)
Re-Enroll Using Existing Certificate
Real-time Resolution for IPsec Tunnel Peer
Reduced MAC Address Usage
Reliable Static Routing Back-up using Object Tracking
Reserve Memory for Console Access
Resource Pool Management with Direct Remote Services
Response Time Reporter (RTR)
Response Time Reporter (RTR) enhancements
Reverse Route Injection (RRI)
RFC 1483 Bridging on FlexWAN
RFC 1483 for Token Ring Networks
RFC-1483 Bridging
RFC-1483 Bridging Quality of Service (QoS)
RGMP - Router-Port Group Management Protocol
RIF Passthru in DLSw+
RIP
RMON events and alarms
RMON full
Routed Bridge Encapsulation with ATM Virtual Circuit Bundles
RSVP - ATM Quality of Service (QoS) Interworking
RSVP - Resource Reservation Protocol
RSVP Fast Local Repair (RSVP FLR)
RSVP Interface-based Receiver Proxy
RSVP Message Authentication
RSVP Refresh Reduction and Reliable Messaging
RSVP Scalability Enhancements
RSVP Support for Frame Relay
RSVP support for LLQ
RTP Header Compression
RTP Header Compression over Satellite Links
Scalable EoMPLS (SIP-Based)
Secure Copy (SCP)
Secure Shell SSH Version 1 Integrated Client
Secure Shell SSH Version 1 Server Support
Secure Shell SSH Version 2 Client Support
Secure Shell SSH Version 2 Server Support
Selective Packet Discard (SPD)
Selective Virtual-Access Interface Creation
SGCP
Shaping Granularity
Show Command Redirect
Silent Operation Mode
Single Rate 3-Color Marker for Traffic Policing
SIP - Session Initiation Protocol for VoIP
SIP - Session Initiation Protocol for VoIP Enhancements
Snapshot routing
SNMP (Simple Network Management Protocol)
SNMP - Session to Interface Mapping Improvements
SNMP Inform Request
SNMP Manager
SNMP over IPv6
SNMP Support for BGP Policy Accounting
SNMP Support for IOS vLAN Subinterfaces
SNMP support for MTR
SNMP Support over VPNs - Context Based Access Control
SNMPv2C
SNMPv3 (SNMP Version 3)
SNMPv3 - 3DES and AES Encryption Support
Source Interface Selection for Outgoing Traffic with Certificate Authority (CA)
Source Specific Multicast (SSM)
Source Specific Multicast (SSM) - IGMPv3, IGMP v3lite, and URD
Source Specific Multicast (SSM) Mapping
Spanning Tree Protocol (STP)
Spanning Tree Protocol (STP) - Loop Guard
Spanning Tree Protocol (STP) - Portfast
Spanning Tree Protocol (STP) - Portfast BPDU Guard
Spanning Tree Protocol (STP) - Uplink Load Balancing
Spanning Tree Protocol (STP) Extension
SRB - Source Route Bridging Enhancements
SRB - Source-Route bridging
SSO - BFD (Admin Down)
SSO - DHCP Proxy Client
SSRP for LANE
Stack Group Bidding Protocol (SGBP)
Standard IP Access List Logging
Sticky IP
Strict Priority Low Latency Queueing (LLQ)
Stub IP Multicast Routing
Subnetwork Bandwidth Manager (SBM)
Subscriber Service Switch
Suppress BGP Advertisement for Inactive Routes
Switched Multimegabit Data Service (SMDS)
Syslog over IPv6
T.38 Fax Relay for VoIP H.323
Tacacs SENDAUTH function
Tacacs Single Connection
TACACS+
TACACS+ Per VRF
TCP - Explicit Congestion Notification
TCP Application Flags - New Socket Options
TCP Intercept
TCP MSS Adjust
TCP Show Extension
TCP Window Scaling
Throttling ofAAA (RADIUS) Records,
Time-Based Access Lists Using Time Ranges
Token Ring LANE
Transparent Bridging
Transparent CCS and Frame Forwarding Enhancements
Transparent Common Channel Signaling (T-CCS)
Triggered RIP
Trunk Conditioning for FRF.11 and Cisco Trunks
Trusted Root Certification Authority
Trustpoint CLI
Tunnel Type of Service (TOS)
Turbo Access Control Lists
Turbo ACL Scalability Enhancements for PXF (Phase 1)
Turbo Flooding of UDP Datagrams
Two-Rate Policer
UDI - Unique Device Identifier
UDLR Tunnel ARP and IGMP Proxy
Uni-Directional Link Routing (UDLR)
Unicast Reverse Path Forwarding (uRPF)
User Maximum Links
Using 31-bit Prefixes on IPv4 Point-to-Point Links
V.110 support for Digital Modems
VBR - NRT Oversubscription
Vendor-Specific RADIUS Attributes
Verify Certificate Chain Command
Virtual Interface Template Service
Virtual Private Dial-up Network (VPDN)
Virtual Profile CEF Switched
Virtual Profiles
Virtual Templates for Protocol Translation
VLAN MAC Address Filtering
VLANs over IP Unnumbered Sub-Interfaces
Voice Busyout Enhancements
Voice over ATM
Voice over IP Q.SIG Network Transparency
VoIP Call Admission Control using RSVP
VPLS Autodiscovery, BGP-based
VPLS Multiple VCs per Spoke
VPN Tunnel Management
VRF aware IPsec
VRF Aware Multicast Error Messages
VRF Aware System Message Logging (Syslog)
VRF-Aware VPDN Tunnels
Warm Reload
WCCPRedirection on Inbound Interfaces
WCCP Version 1
WCCP Version 2
Weighted Fair Queueing (WFQ)
Weighted RED (WRED)
x Digital Subscriber Line (xDSL) Bridge Support
X.25
X.25 Calling Address Insertion and Removal Based on Input Interface
X.25 Closed User Group
X.25 Failover
X.25 Load Balancing
X.25 on ISDN D-Channel
X.25 over Frame Relay (Annex G)
X.25 over TCP (XOT)
X.25 Remote Failure Detection
X.25 Switch Local Acknowledgement
X.25 Switching between PVCs and SVCs
X.28 Emulation

Some features are dependent on product model, interface modules (i.e. Line Cards & Port Adapters), and/or require a software feature license. Click here for more information.

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