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Finding IOS Command Information

First Published: February 2008

Last Updated: January 2014

This document contains a list of the commands supported in many different software releases and on many different platforms. Some of the commands may not be supported in your Cisco IOS software release. To search for a command, use the alphabet key at the top part of this document and then scroll down until you find the command of interest, or use the Find function in your web browser. To access the documentation for a particular command, click the link to the command reference designator to the right of the command name. This list is intended to be used online only.

Alternatively, you may search for commands using the Command Lookup Tool (https://tools.cisco.com/Support/CLILookup), where you will be prompted to provide your Cisco.com username and password.

Table 1: Command Reference Designators

ANCP	Cisco IOS Access Node Control Protocol Command Reference
ATK	Cisco IOS AppleTalk Command Reference
AN	Cisco IOS Autonomic Networking Command Reference
ATM	Cisco IOS Asynchronous Transfer Mode Command Reference
BBA	Cisco IOS Broadband Access Aggregation and DSL Command Reference
BGP	Cisco IOS IP Routing: BGP Command Reference
BR	Cisco IOS Bridging Command Reference
CE	Cisco IOS Carrier Ethernet Command Reference
CF	Cisco IOS Configuration Fundamentals Command Reference

CSA	Cisco IOS Software Activation Command Reference
DB	Cisco IOS Debug Command Reference
DEC	Cisco IOS DECnet Command Reference
DIA	Cisco IOS Dial Technologies Command Reference
EIGRP	Cisco IOS IP Routing: EIGRP Command Reference
EM	Cisco IOS Embedded Menu Manager Command Reference
FHP	Cisco IOS First Hop Redundancy Protocols Command Reference
FNF	Cisco IOS Flexible NetFlow Command Reference
HA	Cisco IOS High Availability Command Reference
IAD	Cisco IOS IP Addressing Services Command Reference
IAP	Cisco IOS IP Application Services Command Reference
IBM	Cisco IOS IBM Networking Command Reference
IMC	Cisco IOS IP Multicast Command Reference
IMO	Cisco IOS IP Mobility Command Reference
IPV6	Cisco IOS IPv6 Command Reference
IPX	Cisco IOS Novell IPX Command Reference
IR	Cisco IOS Interface and Hardware Component Command Reference
IRI	Cisco IOS IP Routing: Protocol-Independent Command Reference
IRS	Cisco IOS IP Routing: ISIS Command Reference
ISG	Cisco IOS Intelligent Services Gateway Command Reference
ISO	Cisco IOS ISO CLNS Command Reference
ISW	Cisco IOS IP Switching Command Reference
LISP	Cisco IOS IP Routing: LISP Command Reference
LSW	Cisco IOS LAN Switching Command Reference
MM	Cisco IOS Media Monitoring Command Reference
MP	Cisco IOS Multiprotocol Label Switching Command Reference
MSP	Cisco IOS Media Services Proxy Command Reference
MTR	Cisco IOS Multi-Topology Routing Command Reference
MWG	Cisco IOS Mobile Wireless Gateway GPRS Support Node Command Reference
MWH	Cisco IOS Mobile Wireless Home Agent Command Reference
MWP	Cisco IOS Mobile Wireless Radio Access Networking Command Reference
MWR	Cisco IOS Mobile Wireless Radio Access Networking Command Reference

NF	Cisco IOS NetFlow Command Reference
NM	Cisco IOS Network Management Command Reference
ODR	Cisco IOS IP Routing: ODR Command Reference
OER	Cisco IOS Optimized Edge Routing Command Reference
OSPF	Cisco IOS IP Routing: OSPF Command Reference
PFR	Cisco IOS Performance Routing Command Reference
QOS	Cisco IOS Quality of Service Solutions Command Reference
RIP	Cisco IOS IP Routing: RIP Command Reference
SAF	Cisco IOS Service Advertisement Framework Command Reference
SBCD	Cisco Unified Border Element (SP Edition) Command Reference: Distributed Model
SBCU	Cisco Unified Border Element (SP Edition) Command Reference: Unified Model
SEC	Cisco IOS Security Command Reference
SLA	Cisco IOS IP SLAs Command Reference
SLB	Cisco IOS Server Load Balancing Command Reference
SM	Cisco IOS Software Modularity Command Reference
SSG	Cisco IOS Service Selection Gateway Command Reference
TSV	Cisco IOS Terminal Services Command Reference
VPD	Cisco IOS VPDN Command Reference
VR	Cisco IOS Voice Command Reference
VS	Cisco IOS Virtual Switch Command Reference
WAN	Cisco IOS Wide-Area Networking Command Reference
WL	Cisco IOS Wireless LAN Command Reference

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debug smrp mcache DB

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debug smrp route DB

debug smrp transaction DB

debug snasw dlc DB

debug snasw ips DB

debug snmp bulkstat DB

debug snmp detail DB

debug snmp mib nhrp DB

debug snmp overhead DB

debug snmp packet DB

debug snmp requests DB

debug snmp sync DB

debug snmp tunnel-mib DB, IR

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debug sntp adjust through debug tag-switching xtagatm vc DB

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debug sntp select DB

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debug source error DB

debug source event DB

debug span DB

debug spanning-tree DB

debug ss7 mtp1 DB

debug ss7 mtp2 DB

debug ss7 sm DB

debug sse DB

debug ssg ctrl-errors DB

debug ssg ctrl-events DB

debug ssg ctrl-packets DB

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debug ssg data DB
debug ssg data-nat DB
debug ssg dhcp DB
debug ssg errors DB
debug ssg events DB
debug ssg packets DB
debug ssg port-map DB
debug ssg tcp-redirect DB
debug ssg transparent login DB
debug ssl DB
debug ssl openssl DB
debug ssm DB, ISG
debug sss aaa authorization event DB
debug sss aaa authorization fsm DB
debug sss error DB
debug sss event DB
debug sss fsm DB
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debug standby errors DB
debug standby events DB
debug standby events icmp DB
debug standby events neighbor DB
debug standby packets DB
debug stun packet DB
debug subscriber aaa authorization DB, ISG
debug subscriber classifier ISG
debug subscriber error DB, ISG
debug subscriber event DB, ISG
debug subscriber feature DB, ISG
debug subscriber fsm DB, ISG
debug subscriber lite-session errors ISG
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debug subscriber policy DB, ISG
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debug subscriber testing DB, ISG
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debug syscon sdp DB
debug syslog-server DB
debug tacacs DB, MWH
debug tacacs events DB
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debug tag-switching atm-tdp api DB
debug tag-switching atm-tdp routes DB
debug tag-switching atm-tdp states DB
debug tag-switching tdp advertisements DB
debug tag-switching tdp bindings DB
debug tag-switching tdp directed-neighbors DB
debug tag-switching tdp peer state-machine DB
debug tag-switching tdp pies received DB
debug tag-switching tdp pies sent DB
debug tag-switching tdp session io DB
debug tag-switching tdp session state-machine DB
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debug tag-switching tdp transport events DB
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debug tdm DB
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debug telnet DB

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debug tftp DB
debug tgrep error DB
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debug tgrep fsm DB
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debug tgrep messages DB
debug tgrep msgdump DB
debug tgrep timer-event DB
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debug tgrep tripr DB
debug tgrm DB
debug tiff reader DB
debug tiff writer DB
debug time-range ipc DB
debug token ring DB
debug topology DB, MTR
debug track DB
debug trifecta DB
debug tsp DB
debug tunnel rbscp DB
debug tunnel route-via DB
debug txconn all DB
debug txconn appc DB
debug txconn config DB
debug txconn data DB
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debug video vicm DB
debug vlan packet DB
debug voice aaa asnl DB
debug voice all DB
debug voice cp DB
debug voice dsp crash-dump DB
debug voice eecm DB
debug voice enum DB
debug voice fastpath DB
debug voice h221 DB
debug voice h324 DB
debug voice mlpp DB
debug voice protocol DB
debug voice register errors DB
debug voice register events DB
debug voice signaling DB
debug voice source-group DB
debug voice statistics DB
debug voice tdsm DB
debug voice translation DB
debug voice uri DB
debug voice vofr DB
debug voip aaa DB
debug voip ais DB
debug voip application DB
debug voip application lpcor DB
debug voip application stcapp all DB
debug voip application stcapp buffer-history DB
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debug voip application stcapp functions DB
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debug voip ivr all DB
debug voip ivr applib DB
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debug voip ivr digitcollect DB
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debug voip ivr redirect DB
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debug voip ivr supplementary-service DB
debug voip ivr tclcommands DB
debug voip lpcor DB
debug voip profile fax DB

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debug voip profile help DB
debug voip profile modem DB
debug voip profile voice DB
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debug voip rtcp DB
debug voip rtp DB
debug voip settlement all DB
debug voip settlement enter DB
debug voip settlement error DB
debug voip settlement exit DB
debug voip settlement misc DB
debug voip settlement network DB
debug voip settlement security DB
debug voip settlement ssl DB
debug voip settlement transaction DB
debug voip tsp DB
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debug voip xcodemsp DB
debug vpdn DB, WAN
debug vpdn pppoe-data DB
debug vpdn pppoe-error DB
debug vpdn pppoe-events DB
debug vpdn pppoe-packet DB
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debug vpm all DB
debug vpm dsp DB
debug vpm error DB
debug vpm port DB
debug vpm signal DB
debug vpm signaling DB
debug vpm spi DB
debug vpm spi through voice call debug DB
debug vpm trunk_sc DB
debug vpm voaal2 all DB
debug vpm voaal2 type1 DB
debug vpm voaal2 type3 DB

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debug vrrp authentication DB
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debug vrrp vrrs DB
debug vrrs accounting DB
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debug vtsp vofr subframe DB
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debug vxml DB

debug waas DB, WAN

debug waas accelerator cifs-express DB

debug waas accelerator http-express DB

debug waas accelerator ssl-express DB

debug warm-reboot DB

debug wccp DB

debug webvpn DB

debug webvpn dtls DB

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debug wlccp ap DB

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debug wlccp rmlib DB

debug wlccp wds DB

debug wsapi DB

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debug wsma profile DB

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debug x25 interface DB

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debug x28 DB

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debug xcctsp error DB

debug xcctsp session DB

debug xconnect DB

debug xcsp DB

debug xdsl application DB

debug xdsl driver DB

debug xdsl eoc DB

debug xdsl error DB

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decnet access-group DEC

decnet accounting DEC
decnet accounting list DEC
decnet accounting threshold DEC
decnet accounting transits DEC
decnet advertise DEC
decnet area-max-cost DEC
decnet area-max-hops DEC
decnet cluster-alias update DEC
decnet cluster-holdtime DEC
decnet congestion-threshold DEC
decnet conversion DEC
decnet cost DEC
decnet encapsulation DEC
decnet hello-timer DEC
decnet host DEC
decnet in-routing-filter DEC
decnet map DEC
decnet max-address DEC
decnet max-area DEC
decnet max-cost DEC
decnet max-hops DEC
decnet max-paths DEC
decnet max-visits DEC
decnet multicast-map DEC
decnet node-type DEC
decnet out-routing-filter DEC
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decnet route (specific static route) DEC
decnet route default (interface default route) DEC
decnet route default (specific default route) DEC
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decnet router-priority DEC
decnet routing DEC
decnet routing-timer DEC

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decnet split-horizon DEC

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default (CEM) IR

default (Flexible NetFlow) FNF

default (IPv6 OSPF) IPV6

default (MGCP profile) VR

default (OSPFv3) IPV6

default (SAF) SAF

default (SIP) VR

default (VPDN) VPD

default (auto-config application) VR

default (auto-config application) through direct-inward-dial VR

default (ca-trustpoint) SEC

default (ca-trustpool) SEC

default (cs-server) SEC

default (tracking) IAP

default external-client SAF

default interface IR

default ip nbar protocol-pack QOS

default profile IMO

default-file vfc VR

default-group-policy SEC

default-information EIGRP

default-information originate (BGP) BGP

default-information originate (IPv6 IS-IS) IPV6

default-information originate (IPv6 OSPF) IPV6

default-information originate (IS-IS) IRS

default-information originate (OSPF) OSPF

default-information originate (OSPFv3) IPV6

default-information originate (RIP) RIP

default-mapping-rule IAD

default-metric (BGP) BGP

default-metric (EIGRP) EIGRP, IPV6

default-metric (OSPF) OSPF

default-metric (OSPFv3) IPV6

default-metric (RIP) RIP
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default-port-limit SBCD
default-profile IBM
default-router IAD
default-state IAP
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default-value exec-character-bits CF
default-value modem-interval CF
default-value special-character-bits CF
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define interface-range CF, IR
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delay (PfR) PFR
delay (firewall farm TCP protocol) SLB
delay (interface) IR
delay (tracking) IAP
delay (virtual server) SLB
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delegate-profile SBCD
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delete vfc VR
delete-scan-factor SLA
delta (test threshold) SNMP
delta interval SNMP
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deny (Catalyst 6500 series switches) SEC
deny (IP) SEC
deny (IPv6) IPV6, SEC
deny (MAC ACL) SEC
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depi eqam-stats CBL
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description (DSP farm profile) VR
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description (IP SLA) SLA
description (L2VPN) MP
description (LISP site) LISP
description (Performance Monitor) MM
description (SCCP Cisco CallManager) VR
description (VO profile) SLA
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description (VRF definition) EVN
description (bonding-group) CBL
description (cable fiber-node) CBL
description (class-map) QOS
description (controller) IR
description (dial peer) VR
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description (expression) SNMP
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description (identity policy) SEC
description (identity profile) SEC
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destination (call home) HA
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destination realm SEC, MWG
destination uri VR
destination-glean IPV6
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device-id VR
device-role IPV6, SEC
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device-sensor filter-list dhcp SEC
device-sensor filter-list lldp SEC
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df QOS
dfs band block WL
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dhcp (IP SLA) SLA
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diagnostic cns CF
diagnostic event-log size CF
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diagnostic load CBL
diagnostic monitor CF
diagnostic ondemand CF
diagnostic ondemand action-on-failure CBL
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dialer callback-server DIA
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diameter origin realm SEC, MWG
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distance (IPv6) IPV6

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distance bgp (IPv6) IPV6
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dlsw allroute-sna IBM
dlsw bgroup-list IBM
dlsw bridge-group IBM
dlsw cache-ignore-netbios-datagram IBM
dlsw disable IBM
dlsw duplicate-path-bias IBM
dlsw explorerq-depth IBM
dlsw group-cache disable IBM
dlsw group-cache max-entries IBM
dlsw history-log IBM
dlsw icannotreach saps IBM
dlsw icanreach IBM

dlsw llc2 nornr IBM
dlsw load-balance IBM
dlsw local-peer IBM
dlsw mac-addr IBM
dlsw max-multiple-rifs IBM
dlsw multicast IBM
dlsw netbios-cache-length IBM
dlsw netbios-keepalive-filter IBM
dlsw netbios-name IBM
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dlsw peer-log-changes IBM
dlsw peer-on-demand-defaults IBM
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dlsw remote-peer frame-relay IBM
dlsw remote-peer fst IBM
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docsis cvc mso CBL
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domain (isakmp-group) SEC
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domain-name (DHCP) IAD
domain-name (IPv6) IAD, IPV6
domain-name (annex G) VR
domain-password IRS
domain-stripping SEC
domain-tag OSPF
dot11 aaa authentication mac-authen filter-cache WL
dot11 aaa csid WL
dot11 aaa dot1x compliance WL
dot11 activity-timeout WL
dot11 extension aironet WL
dot11 holdoff-time WL
dot11 igmp snooping-helper WL
dot11 location isocc WL
dot11 mbssid WL
dot11 phone WL
dot11 priority-map avvid WL
dot11 qos class WL
dot11 qos mode wmm WL
dot11 ssid WL
dot11 syslog WL
dot11 vlan-name WL
dot1q tunneling ethertype IR, LSW
dot1x client-timeout WL
dot1x control-direction SEC

debug smrp mcache through e

dot1x credentials SEC
dot1x critical (global configuration) SEC
dot1x critical (interface configuration) SEC
dot1x default SEC
dot1x guest-vlan SEC
dot1x guest-vlan supplicant SEC
dot1x host-mode SEC
dot1x initialize SEC
dot1x mac-auth-bypass SEC
dot1x max-reauth-req SEC
dot1x max-req SEC
dot1x max-start SEC
dot1x multi-hosts SEC
dot1x multiple-hosts SEC
dot1x pae SEC
dot1x port-control SEC
dot1x re-authenticate (EtherSwitch) SEC
dot1x re-authenticate (privileged EXEC) SEC
dot1x re-authentication (EtherSwitch) SEC
dot1x reauth-period WL
dot1x reauthentication SEC
dot1x supplicant interface SEC
dot1x system-auth-control SEC
dot1x timeout SEC
dot1x timeout (EtherSwitch) SEC
down-when-looped IR
downgrade bgp OER
downgrade bgp (PfR) PFR
download CBL
download exclude-profile (SSG PTA-MD) SSG
download exclude-profile (SSG dial-out) SSG
download exclude-profile (SSG-auto-domain) SSG
downstream CBL
downstream cable CBL
downstream integrated-cable rf-channel (interface) CBL
downstream local upstream CBL

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downstream modular-cable rf-channel CBL

downstream modular-cable rf-channel (interface) CBL

downward-compatible-config CF

dpd SEC

dre upload WAN

dre-hints enable WAN

drop QOS

drop (ISG) ISG

drop (type access-control) SEC

drop (zone-based policy) SEC

drop-last-conferee VR

drop-unsecure IPV6, SEC

ds0 busyout (channel) DIA

ds0 busyout (voice) VR

ds0 busyout-threshold DIA

ds0-group (E1) VR

ds0-group (J1 controller) IR

ds0-group (T1) VR

ds0-group (controller e1) DIA

ds0-num VR

dscp QOS, SBCD

dscp (Flexible NetFlow) FNF, MM

dscp (Frame Relay VC-bundle-member) WAN

dscp (IP SLA video) SLA

dscp (IP SLA) SLA

dscp media VR

dscp-profile VR

dsl enable-training-log BBA

dsl equipment-type BBA

dsl gain-setting rx-offset BBA

dsl gain-setting tx-offset BBA

dsl linerate BBA

dsl lom BBA

dsl max-tone-bits BBA

dsl noise-margin BBA

dsl operating-mode BBA

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dsl operating-mode (ADSL over ISDN) BBA
dsl operating-mode gshdsl BBA
dsl power-cutback BBA
dsl-group IR
dsl-line-info-forwarding VPD
dsl-mode shdsl symmetric annex IR, BBA
dsn VR
dsp allocation signaling dspid VR
dsp services dspfarm VR
dspfarm (DSP farm) VR
dspfarm (voice-card) VR
dspfarm confbridge maximum VR
dspfarm connection interval VR
dspfarm profile IPV6, VR
dspfarm rtp timeout VR
dspfarm transcoder maximum sessions VR
dspint dspfarm VR
dspu activation-window IBM
dspu default-pu IBM
dspu enable-host (QLLC) IBM
dspu enable-host (SDLC) IBM
dspu enable-host (Token Ring Ethernet
dspu enable-pu (Ethernet Frame Relay
dspu enable-pu (QLLC) IBM
dspu enable-pu (SDLC) IBM
dspu host (Frame Relay) IBM
dspu host (QLLC) IBM
dspu host (SDLC) IBM
dspu host (Token Ring Ethernet
dspu lu IBM
dspu ncia IBM
dspu ncia enable-pu IBM
dspu notification-level IBM
dspu pool IBM
dspu pu (Frame Relay) IBM
dspu pu (QLLC) IBM

dspu pu (SDLC) IBM
dspu pu (Token Ring Ethernet
dspu rsrb IBM
dspu rsrb enable-host IBM
dspu rsrb enable-pu IBM
dspu rsrb start IBM
dspu start IBM
dspu vdlc IBM
dspu vdlc enable-host IBM
dspu vdlc enable-pu IBM
dspu vdlc start IBM
dst-address SBCD
dst-address (editor) SBCD
dst-adjacency SBCD
dsu bandwidth IR
dsu mode IR
dte-invert-txc IR
dtls port SEC
dtmf disable sip SBCD
dtmf sip SBCD
dtmf timer inter-digit VR
dtmf-duration SBCD
dtmf-duration (session border controller) SBCD
dtmf-interworking VR
dtmf-relay (Voice over Frame Relay) VR
dtmf-relay (Voice over IP) VR
dualtone VR
duplex IR
duration CBL, SBCD
duration (IP SLA video) SLA
duration time SLA
dxi interface-dfa IR
dxi map ATM
dxi pvc ATM
dxs3mode IR
dynamic SEC

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dynamic mag learning IMO
dynamic-eid LISP

E

e164 VR
e2-clockrate IR
e911 VR
eap SEC
eap (IKEv2 profile) SEC
eap-user ignore-open-session ISG
early-media-deny SBCD
early-media-timeout SBCD
early-media-type SBCD
early-offer VR
early-token-release IR
echo IRI, MP
echo-cancel comfort-noise VR
echo-cancel compensation VR
echo-cancel coverage VR
echo-cancel enable VR
echo-cancel enable (controller) VR
echo-cancel erl worst-case VR
echo-cancel loopback VR
echo-cancel mode VR
echo-cancel suppressor VR
echo-interval MWG
eckeypair SEC
edit SBCD
edit-cic SBCD
edit-src SBCD
editing CF
editor SBCD
editor-list SBCD
editor-type SBCD
efci-bit WAN
efm-grp IR
eid-notify authentication-key LISP

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eid-notify key LISP
eid-prefix (LISP site) LISP
eid-table LISP
eigrp upgrade-cli EIGRP
eigrp default-route-tag EIGRP
eigrp delay MTR
eigrp event-log-size EIGRP, IPV6
eigrp interface EIGRP, IR, IMO
eigrp log-neighbor-changes EIGRP, IPV6, SAF
eigrp log-neighbor-warnings EIGRP, IPV6, SAF
eigrp next-hop-self MTR
eigrp router-id EIGRP, IPV6, SAF
eigrp shutdown MTR
eigrp split-horizon MTR
eigrp stub EIGRP, IPV6
eigrp stub (service-family) SAF
eigrp summary-address MTR
element VR
email (IKEv2 profile) SEC
emm EMM
emm clear EMM
empty-ssl-fragment-insertion WAN
emptycapability VR
emulate cisco h323 bandwidth VR
emulation-mode IR
enable SEC, CF
enable (TN3270) IBM
enable (bulk statistics) SNMP
enable (event) SNMP
enable (expression) SNMP
enable aaa accounting IMO
enable last-resort CF
enable password SEC
enable secret SEC
enable sessionmgr IMO
enabled (IPS) SEC

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enabled (aggregation cache) NF
enabled (enforce-rule) CBL
encap WSMA
encap (proxy mobile IPv6) IMO
encap clear-channel standard VR
encap-sequence DIA
encapsulation IR, IPV6
encapsulation (ATM) ATM
encapsulation (Any Transport over MPLS) MP, WAN
encapsulation (Frame Relay VC-bundle) WAN
encapsulation (L2TP) WAN
encapsulation (Layer 2 local switching) ATM, MP, WAN
encapsulation (pseudowire) MP
encapsulation alc IBM
encapsulation atm-ces VR
encapsulation atm-dxi ATM
encapsulation bstun IBM
encapsulation cpp DIA
encapsulation default WAN
encapsulation dot1ah isid CE
encapsulation dot1q MP, LSW
encapsulation dot1q (service instance) WAN
encapsulation dot1q second-dot1q WAN
encapsulation frame-relay WAN
encapsulation frame-relay mfr WAN, IPV6
encapsulation gtp MWG
encapsulation isl LSW
encapsulation l2tpv3 WAN
encapsulation lapb WAN
encapsulation priority-tagged ATM
encapsulation sde LSW
encapsulation sdlc IBM
encapsulation sdlc-primary IBM
encapsulation sdlc-secondary IBM
encapsulation smds WAN
encapsulation stun IBM

encapsulation untagged WAN
encapsulation untagged dot1q second-dot1q ATM
encapsulation uts IBM
encapsulation x25 WAN
encoding h450 call-identity VR
encoding h450 call-identity itu VR
encryption VR
encryption (IKE policy) SEC, IPV6
encryption (IKEv2 proposal) SEC
encryption key WL
encryption mode ciphers WL
encryption mode wep WL
encryption mppe VPD
encryptorder IBM
end CF
end (satellite initial configuration) IR
endpoint SLA
endpoint alt-ep collect VR
endpoint alt-ep h323id VR
endpoint circuit-id h323id VR
endpoint max-calls h323id VR
endpoint naming VR
endpoint resource-threshold VR
endpoint ttl VR
enforce-checksum SEC
enforced qos-profile CBL
enforcement IPV6
engine (IPS) SEC
enhanced-history SLA
enrollment SEC
enrollment command SEC
enrollment credential SEC
enrollment http-proxy SEC
enrollment mode ra SEC
enrollment profile SEC
enrollment retry count SEC

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enrollment retry period SEC
enrollment selfsigned SEC
enrollment terminal (ca-profile-enroll) SEC
enrollment terminal (ca-trustpoint) SEC, IPV6
enrollment url (ca-profile-enroll) SEC
enrollment url (ca-identity) SEC
enrollment url (ca-profile-enroll) SEC
enrollment url (ca-trustpoint) SEC, IPV6
entry SBCD
entry (enum) SBCD
enum SBCD
environment (diagnostic signature) HA
environment temperature-controlled CF
environment-monitor shutdown temperature CF
eou allow SEC
eou clientless SEC
eou default SEC
eou initialize SEC
eou logging SEC
eou max-retry SEC
eou port SEC
eou rate-limit SEC
eou revalidate SEC
eou timeout SEC
equipment loopback IR
erase CF
erase bootflash CF
erase vfc VR
errdisable detect cause CF, IR
errdisable recovery CF, IR
errdisable recovery cause mac-security CE
errdisable recovery cause mlacp-minlink CE
error throttling IR
error-category VR
error-code-override VR
error-correction VR

error-msg SEC

error-profile SBCD

error-url SEC

escape-character CF

esmc mode ql-disabled IR

esmc process IR

estimate bandwidth QOS

ethernet cfm ais CE

ethernet cfm ais link-status CE

ethernet cfm ais link-status global CE

ethernet cfm alarm CE

ethernet cfm cc CE

ethernet cfm cc enable level evc CE

ethernet cfm cc enable level vlan CE

ethernet cfm distribution enable CE

ethernet cfm domain level CE

ethernet cfm enable CE

ethernet cfm enable (interface) CE

ethernet cfm global CE

ethernet cfm ieee CE

ethernet cfm interface CE

ethernet cfm logging CE

ethernet cfm mep crosscheck CE

ethernet cfm mep crosscheck start-delay CE

ethernet cfm mep crosscheck through location prefer CE

ethernet cfm mep domain mpid CE

ethernet cfm mep level mpid vlan CE

ethernet cfm mip CE

ethernet cfm mip level CE

ethernet cfm slm max CE

ethernet cfm slm timeout CE

ethernet cfm traceroute cache CE

ethernet cfm traceroute cache hold-time CE

ethernet cfm traceroute cache size CE

ethernet echo mpid SLA

ethernet evc WAN, CE

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ethernet event microwave CE
ethernet jitter mpid SLA
ethernet lmi CE
ethernet lmi ce-vlan map CE
ethernet lmi global CE
ethernet lmi interface CE
ethernet loopback local interface CE
ethernet loopback permit CE
ethernet mac limit action flooding disable CE
ethernet mac limit maximum addresses CE
ethernet mac-flush notification mirp CE
ethernet mac-tunnel virtual CE
ethernet oam CE
ethernet oam link-monitor frame CE
ethernet oam link-monitor frame-period CE
ethernet oam link-monitor frame-seconds CE
ethernet oam link-monitor high-threshold action CE
ethernet oam link-monitor on CE
ethernet oam link-monitor receive-crc CE
ethernet oam link-monitor supported CE
ethernet oam link-monitor symbol-period CE
ethernet oam link-monitor transmit-crc CE
ethernet oam mib log size CE
ethernet oam remote-loopback CE
ethernet oam remote-loopback (interface) CE
ethernet ring g8032 CE
ethernet ring g8032 profile CE
ethernet subscriber CE
ethernet subscriber session CE
ethernet subscriber static CE
ethernet tcn-propagation CE
ethernet uni CE
ethernet y1731 delay SLA
ethernet y1731 delay receive SLA
ethernet y1737 loss SLA
ethernet-transit-oui IBM

debug smrp mcache through e

eui-interface IPV6
evaluate SEC
evaluate (IPv6) IPV6, SEC
event application EEM
event cli EEM
event counter EEM
event ethernet microwave clear-sd CE
event ethernet microwave sd CE
event gold EEM
event identity EEM
event interface EEM
event ioswdsysmon EEM
event ipsla EEM
event manager applet EEM
event manager detector routing EEM
event manager detector rpc EEM
event manager directory user EEM
event manager directory user repository EEM
event manager environment EEM
event manager history size EEM
event manager policy EEM
event manager run EEM
event manager scheduler EEM
event manager scheduler clear EEM
event manager scheduler hold EEM
event manager scheduler modify EEM
event manager scheduler release EEM
event manager scheduler script EEM
event manager scheduler suspend EEM
event manager session cli username EEM
event manager update user policy EEM
event mat EEM
event neighbor-discovery EEM
event nf EEM
event none EEM
event oir EEM

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event owner SNMP
event process EEM
event resource EEM
event rf EEM
event routing EEM
event rpc EEM
event snmp EEM
event snmp-notification EEM
event snmp-object EEM
event syslog EEM
event timer EEM
event track EEM
event wdsysmon EEM
event-action SEC
event-log IPV6, VR
event-log (OSPFv3) IPV6
event-log (Privileged EXEC) VR
event-log dump ftp VR
event-log error-only VR
event-log max-buffer-size VR
exception access-group SEC
exception core-file BSM
exception crashinfo buffersize BSM
exception crashinfo dump BSM
exception crashinfo file BSM
exception crashinfo maximum files BSM
exception data-corruption BSM
exception delay-dump BSM
exception dump BSM
exception linecard BSM
exception memory BSM
exception memory ignore overflow BSM
exception protocol BSM
exception pxf CBL
exception region-size BSM
exception slot IBM

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exception spurious-interrupt BSM
exclude SSG
exclude (SSG PTA-MD) SSG
exclude dnis-prefix SSG
exclude-address MP
exclusion-list CE
exclusive-domain SEC
exec CF
exec-banner CF
exec-character-bits CF
exec-timeout CF
execute (Flexible NetFlow) FNF
execute-on CF
exit (EXEC) CF
exit (LSP Attributes) MP
exit (global) CF
exit (satellite initial configuration) IR
exit-address-family EIGRP, MP
exit-af-interface EIGRP
exit-af-topology EIGRP
exit-bmp-server-mode (bmp) BGP
exit-global-af MTR
exit-if-topology MTR
exit-if-vnet SBCD, EVN
exit-peer-policy BGP
exit-peer-session BGP
exit-route-server-context BGP, SBCD
exit-service-family SAF
exit-sf-interface SAF
exit-sf-topology SAF
exit-topo MTR
exit-vrf-list SBCD, EVN
exp MP, WAN
exp (IP SLA) SLA
expect SLB
expect-factor VR

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expire after OER

expire after (PfR) PFR

expires-header SBCD

explicit-prefix IPV6

exponential-weighting-constant QOS

export destination NF

export destination sctp (NetFlow aggregation cache) NF

export map MP, BGP

export map (VRF table to global table) BGP

export template NF

export version NF

export-protocol FNF, MM

exporter FNF, MM

exporter (PfR) PFR

expression SNMP

extended-port MP

external-client SAF

extsig mgcp VR