



Cisco IOS New and Modified Commands, Release 12.3

New, modified, and replaced commands for Cisco IOS Release 12.2 T and 12.3(1) are grouped by maintenance release and ordered alphabetically within each group. To access the documentation for a particular command, click the page number following the command name.

Page Number Designators

- B1R** Cisco IOS Bridging and IBM Networking Command Reference, Volume 1 of 2: Bridging
- B2R** Cisco IOS Bridging and IBM Networking Command Reference, Volume 2 of 2: IBM Networking
- CFR** Cisco IOS Configuration Fundamentals Command Reference
- DB** Cisco IOS Debug Command Reference
- DR** Cisco IOS Dial Technologies Command Reference
- IP1R** Cisco IOS IP Command Reference, Volume 1 of 4: Addressing and Services
- IP2R** Cisco IOS IP Command Reference, Volume 2 of 4: Routing Protocols
- IP3R** Cisco IOS IP Command Reference, Volume 3 of 4: Multicast
- IP4R** Cisco IOS IP Command Reference, Volume 4 of 4: IP Mobility
- IPv6R** Cisco IOS IPv6 Command Reference
- IR** Cisco IOS Interface and Hardware Component Command Reference
- MWR** Cisco IOS Mobile Wireless Command Reference
- P2R** Cisco IOS AppleTalk and Novell IPX Command Reference
- QR** Cisco IOS Quality of Service Solutions Command Reference
- SR** Cisco IOS Security Command Reference
- TR** Cisco IOS Terminal Services Command Reference

- VR** Cisco IOS Voice, Video, and Fax Command Reference
- WR** Cisco IOS Wide-Area Networking Command Reference
- XR** Cisco IOS Switching Services Command Reference

12.2(2)T New Commands

- address-family ipv6 **IPv6R-8**
- application **VR-37**
- bandwidth remote **VR-67**
- cadence **VR-94**
- call application voice fax-dtmf **VR-126**
- call language voice **VR-207**
- call language voice load **VR-208**
- clear backhaul-session-manager group stats **VR-324**
- clear bgp ipv6 **IPv6R-17**
- clear bgp ipv6 dampening **IPv6R-19**
- clear bgp ipv6 external **IPv6R-20**
- clear bgp ipv6 flap-statistics **IPv6R-21**
- clear h323 gatekeeper statistics **VR-352**
- clear ip sctp statistics **VR-355**
- clear ipv6 neighbors **IPv6R-26**
- clear ipv6 prefix-list **IPv6R-28**
- clear ipv6 route **IPv6R-31**
- clear ipv6 traffic **IPv6R-33**
- clear saa apm cache **CFR-93**
- clear time-range ipc **IP1R-62**
- cns config cancel **CFR-108**
- cns config initial **CFR-112**
- cns config partial **CFR-115**
- cns config retrieve **CFR-117**
- cns event **CFR-118**
- crypto ipsec df-bit (global) **SR-201**
- crypto ipsec df-bit (interface) **SR-202**
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 debug cns event DB-268
 debug cns xml-parser DB-273
 debug dspapi DB-382
 debug frame-relay virtual DB-529
 debug gatekeeper gup DB-540
 debug gatekeeper load DB-542
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 debug ip scp DB-715
 debug ipv6 icmp DB-785, IPv6R-66
 debug ipv6 nd DB-790, IPv6R-72
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 ip flow-export destination XR-85
 ip qos dscp VR-722
 ip rsvp data-packet classification none QR-103
 ip rsvp layer2 overhead QR-110
 ip rsvp resource-provider QR-138
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 ip ssh port SR-394
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 ipv6 access-list IPv6R-115
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 ipv6 address link-local IPv6R-123
 ipv6 atm-vc IPv6R-125
 ipv6 enable IPv6R-133
 ipv6 hop-limit IPv6R-134
 ipv6 host IPv6R-135
 ipv6 icmp error-interval IPv6R-137
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 ipv6 nd managed-config-flag IPv6R-159
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 mpls ldp advertise-labels old-style XR-201
 mpls ldp atm control-mode XR-203
 mpls ldp atm vc-merge XR-205
 mpls ldp backoff XR-206
 mpls ldp discovery XR-208
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 mpls ldp maxhops XR-216
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 pots prefix filter VR-1056
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 show bgp ipv6 community IPv6R-280
 show bgp ipv6 community-list IPv6R-283
 show bgp ipv6 dampened-paths IPv6R-285
 show bgp ipv6 filter-list IPv6R-287
 show bgp ipv6 flap-statistics IPv6R-290
 show bgp ipv6 inconsistent-as IPv6R-293
 show bgp ipv6 neighbors IPv6R-295
 show bgp ipv6 paths IPv6R-304
 show bgp ipv6 quote-regexp IPv6R-306
 show bgp ipv6 regexp IPv6R-309
 show bgp ipv6 summary IPv6R-311
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 show cns config outstanding CFR-589
 show cns config stats CFR-590
 show cns config status CFR-591
 show cns event gateway CFR-593
 show cns event stats CFR-594
 show cns event status CFR-596
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 show ip sctp association list VR-1463
 show ip sctp association parameters VR-1465
 show ip sctp association statistics VR-1469
 show ip sctp errors VR-1471
 show ip sctp instances VR-1473
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 show ipv6 prefix-list IPv6R-380
 show ipv6 rip IPv6R-386
 show ipv6 route IPv6R-390
 show ipv6 routers IPv6R-395
 show ipv6 route summary IPv6R-394
 show ipv6 traffic IPv6R-398
 show ipv6 tunnel IPv6R-400
 show mgcp profile VR-1496
 show mpls atm-ldp bindings XR-449
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 show mpls cos-map XR-456
 show mpls ip binding XR-465
 show mpls ldp backoff XR-480
 show mpls ldp bindings XR-482
 show mpls ldp discovery XR-485
 show mpls ldp neighbor XR-487
 show mpls ldp parameters XR-489
 show mpls prefix-map XR-491
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 show saa apm information CFR-761
 show saa apm results CFR-763
 show saa spm operation CFR-762
 show snmp mib CFR-771
 show snmp mib ifmib ifindex CFR-774
 show time-range ipc IP1R-359
 snmp ifmib ifalias long CFR-809
 snmp mib persist circuit CFR-817
 snmp-server enable traps ipmobile IP4R-110
 split-horizon (IPv6 RIP) IPv6R-416
 supervisory answer dualtone VR-1799
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 supervisory disconnect dualtone VR-1806
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 timer cluster-element announce VR-1905
 timer lrq seq delay VR-1908
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 timers (IPv6 RIP) IPv6R-429
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 type frame-relay CFR-993
 type pathJitter CFR-1001
 vcci VR-2035
 voice class custom-cptone VR-2074
 voice class dualtone-detect-params VR-2077
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 zone cluster local VR-2137
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12.2(2)T Modified Commands

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 accounting (gatekeeper) SR-106
 bandwidth (gatekeeper) VR-65
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 debug mpls atm-cos DB-1013
 debug mpls atm-ldp api DB-1015
 debug mpls atm-ldp routes DB-1019
 debug mpls atm-ldp states DB-1021
 dialer-list protocol IPv6R-97
 dialer-list protocol (Dial) DR-160
 ip flow-aggregation cache XR-79
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 match mpls experimental QR-183
 mgcp default-package VR-835
 mgcp package-capability VR-860
 mgcp quality-threshold VR-868
 mgcp sdp VR-882
 mgcp sgcp restart notify VR-886
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 mpls ip (global configuration) XR-179
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 neighbor activate IPv6R-234
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priority QR-232
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 set atm-clp QR-304
 set mpls experimental XR-274
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 show gatekeeper status VR-1434
 show ip flow export XR-369
 show ip route IP2R-583
 show ip rsvp interface QR-374
 show ip sockets IPv6R-333
 show mgcp nas VR-1493
 show mpls interfaces XR-462
 snmp-server engineID remote CFR-879
 snmp-server host CFR-884
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12.2(4)T New Commands

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 aaa user profile SR-95
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 asp VR-47
 attribute (server-group) SR-116
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 call fallback VR-168
 call-router VR-271
 call rscmon update-timer VR-209
 call spike VR-214
 call threshold global VR-218
 call threshold interface VR-220
 call threshold poll-interval VR-222
 call treatment VR-224
 clear call-router routes VR-330
 clear call threshold VR-327
 clear call treatment stats VR-329
 clear h323 gateway VR-353
 clear ip mobile router agent IP4R-11
 clear ip mobile router registration IP4R-12
 clear ip mobile router traffic IP4R-13
 clear mpls traffic-eng auto-bw timers XR-38
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 crypto mib ipsec flowmib history tunnel size SR-260
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 debug atm bundle events DB-89
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 debug call treatment action DB-174
 debug cch323 DB-180
 debug ces-conn DB-248
 debug conn DB-294
 debug crypto mib DB-321
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 debug ip sctp api DB-716, DB-860
 debug ip sctp congestion DB-718, DB-862
 debug ip sctp init DB-720, DB-864
 debug ip sctp multihome DB-722, DB-866
 debug ip sctp performance DB-724, DB-868
 debug ip sctp rcvchunks DB-726, DB-870
 debug ip sctp rto DB-728, DB-872
 debug ip sctp segments DB-730, DB-874
 debug ip sctp segmentv DB-733, DB-877

debug ip sctp signal DB-736, DB-880
 debug ip sctp sndchunks DB-738, DB-882
 debug ip sctp state DB-741, DB-885
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 dialer idle-timeout (template) DR-154
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 dialer wait-for-line-protocol DR-204
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 emulate VR-535
 endpoint alt-ep collect VR-540
 exception crashinfo buffersize CFR-201
 exception crashinfo file CFR-202
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 ip mobile router-service IP4R-51
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 l2tp tunnel busy timeout DR-402
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 show atm bundle svc statistics QR-344
 show call-router routes VR-1352
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 show call treatment VR-1341
 show controllers xmplsatm XR-316
 show crypto mib ipsec flowmib history failure size SR-629
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 show ip mobile mobile-networks IP4R-83
 show ip mobile router IP4R-87
 show ip mobile router agent IP4R-85
 show ip mobile router interface IP4R-90
 show ip mobile router registration IP4R-92
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 show iua as VR-1477
 show iua asp VR-1479
 show mpls atm-ldp bindwait XR-452
 show xmplsatm cos-bandwidth-allocation
 xmplsatm XR-563
 show xmplsatm cross-connect XR-564
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 snmp mib persist event CFR-817
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 snmp-server enable traps atm pvc extension CFR-832
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 timeout tcrit VR-1869
 timeout tdinit VR-1871
 timeout tdmx VR-1873
 timeout tadmin VR-1875
 timeout thist VR-1877
 timeout tone busy VR-1878
 timeout tone cot1 VR-1879
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 timeout tone dial VR-1881
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 timeout tone network congestion VR-1884
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 timers pacing flood IP2R-619
 timers pacing lsa-group IP2R-621
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12.2(4)T Modified Commands

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 call fallback cache-size VR-172
 call fallback cache-timeout VR-174
 call fallback instantaneous-value-weight VR-176
 call fallback jitter-probe num-packets VR-178
 call fallback jitter-probe precedence VR-181
 call fallback jitter-probe priority-queue VR-183

call fallback key-chain VR-185
 call fallback map address-list VR-187
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 call fallback monitor VR-192
 call fallback probe-timeout VR-194
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 call fallback threshold icpif VR-205
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 ccm-manager redundant-host VR-297
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 clear call fallback stats VR-326
 crypto isakmp key SR-224
 crypto map (global IPSec) SR-244
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 debug ipv6 nd DB-790, IPv6R-72
 debug mpls xmplsatm events DB-1094
 debug mpls xtagatm cross-connect DB-1091
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 debug mpls xtagatm vc DB-1096
 dialer-list protocol (Dial) DR-160
 dialer redial DR-187
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 fax interface-type VR-558
 frame-relay adaptive-shaping WR-155
 frame-relay map WR-230
 frame-relay payload-compression WR-252
 interface xtagatm XR-62
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 ip host IP1R-165
 ip nat inside source IP1R-179
 ip nat outside source IP1R-182
 ip rsvp bandwidth QR-100
 ipv6 route IPv6R-201
 isdn leased-line bri DR-327
 load-interval CFR-328
 match mpls experimental QR-183
 mgcp quarantine mode VR-870
 mgcp quarantine persistent-event disable VR-872
 mgcp request timeout VR-874
 modem dialin DR-455
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 ppp multilink interleave DR-564
 precedence QR-226
 rate-limit QR-291
 serial restart-delay IR-266
 set atm-clp QR-304
 show atm pvc WR-451
 show bstun B2R-468
 show call history VR-1316, VR-1321
 show controllers vsi traffic XR-312
 show dial-peer voice VR-1385
 show dsl interface atm WR-494
 show frame-relay pvc WR-518
 show hosts IP1R-280
 show ip bgp IP2R-486
 show ip bgp injected-paths IP2R-502
 show ip ospf IP2R-543
 show ip rsvp interface QR-374
 show mgcp connection VR-1487
 show mgcp endpoint VR-1490
 show mgcp profile VR-1496
 show mgcp statistics VR-1500
 show policy-map QR-408
 show policy-map interface QR-418
 show running-config CFR-755
 show running-config map-class CFR-757
 snmp-server host CFR-884
 test call fallback probe VR-1826
 verify CFR-1019
 zone cluster remote VR-2138

zone remote VR-2147

12.2(8)T New Commands

aaa session-id SR-92

aaa username VR-3

access-code (cm-fallback) VR-5

acl SR-110

address-family ipv6 (IS-IS) IPv6R-10

address-family nsap IP2R-20

adjacency-check IPv6R-11

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alias (cm-fallback) VR-27

application (ephone-dn) VR-40

area sham-link cost IP2R-38

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call application voice prompt VR-142

call application voice voice-dtmf VR-163

caller-id block (ephone-dn) VR-246

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call-forward all (ephone-dn) VR-251

call-forward busy (cm-fallback) VR-253

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clear bgp nsap dampening IP2R-95

clear bgp nsap external IP2R-96

clear bgp nsap flap-statistics IP2R-97

clear bgp nsap peer-group IP2R-98

clear ip cef epoch XR-21

clear ip dhcp subnet IP1R-48

clear mac-address-table XR-35

clear mgcp src-stats VR-357

clock source (controller J1) IR-70

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cns config connect-intf CFR-110

cns config notify CFR-114

cns id CFR-120

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crypto ca certificate query (ca-trustpoint) SR-169

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crypto isakmp client configuration group SR-218

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debug alarm-interface DB-29

debug atm native DB-93

debug atm nbma DB-95

debug bgp nsap DB-111

debug bgp nsap dampening DB-113

debug bgp nsap updates DB-115

debug cgma DB-249

debug cns management DB-271

debug ephone alarm DB-404

debug ephone detail DB-406

debug ephone error DB-410

debug ephone keepalive DB-412

debug ephone mwi DB-414

debug ephone pak DB-416

debug ephone raw DB-419

debug ephone register **DB-421**
 debug ephone state **DB-423**
 debug ephone statistics **DB-425**
 debug fmsp receive **DB-491**
 debug fmsp send **DB-493**
 debug foip off-ramp **DB-495**
 debug foip on-ramp **DB-496**
 debug frame-relay multilink **DB-515**
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 show gatekeeper endpoints VR-1423
 show interfaces serial IR-480
 show mgcp VR-1481
 show modem configuration DR-803
 show modem operational-status DR-836
 show port config DR-872
 show port digital log DR-877
 show port log DR-880
 show port modem calltracker DR-885
 show port modem log DR-888
 show port modem test DR-896
 show port operational-status DR-899
 show redundancy IR-532
 show sip-ua statistics VR-1578, VR-1584
 show spe DR-931
 show spe digital DR-935
 show spe digital active DR-937
 show spe digital csr DR-939
 show spe digital disconnect-reason DR-941
 show spe digital summary DR-943
 show spe log DR-945
 show spe modem DR-947
 show spe modem active DR-950
 show spe modem csr DR-952
 show spe modem disconnect-reason DR-954
 show spe modem high speed DR-956
 show spe modem high standard DR-960
 show spe modem low speed DR-962
 show spe modem low standard DR-964
 show spe modem summary DR-967
 show spe recovery DR-970
 show spe version DR-973
 show vrm vdevices VR-1693
 shutdown (port) DR-1007
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 spe DR-1018
 spe call-record modem DR-1020
 spe country DR-1022
 spe download maintenance DR-1025
 spe log-size DR-1027
 spe recovery DR-1028
 ss7 session VR-1774
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 aaa filterserver SR-75
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 atm pppatm passive WR-56
 atm svc-upc-intent WR-67
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 authentication mode IP2R-49
 authentication send-only IP2R-51
 backup active interface WR-79
 bgp-policy IP2R-88
 bstun peer-map-poll B2R-91
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cache max SR-134
 cache refresh SR-135
 calling-info pstn-to-sip VR-263
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 channelized IR-47
 clear aaa cache filterserver acl SR-139
 clear crypto engine accelerator counter SR-141
 clear crypto ipsec client ezvpn SR-143
 clear ip rsvp counters QR-31
 clear ip rsvp signalling rate-limit QR-33
 clear ip rsvp signalling refresh reduction QR-34
 clear ip snat sessions IP1R-57
 clear ip snat translation distributed IP1R-58
 clear ip snat translation peer IP1R-59
 clear ipv6 access-list IPv6R-23
 clear ipv6 nat translation IPv6R-24
 clear ipv6 rip IPv6R-30
 clear sip-ua statistics VR-366
 clear vpdn counters DR-107
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 crypto ipsec optional retry SR-208
 crypto ipsec profile SR-209
 crypto isamkp nat keepalive SR-232
 crypto mib topn CFR-161
 dampening IP2R-111
 dbs enable WR-111
 debug aaa cache filterserver DB-21
 debug atm oam cc DB-96
 debug crypto ipsec client ezvpn DB-315
 debug dampening DB-339
 debug dspfarm DB-384
 debug frame-relay adjacency DB-500
 debug frame-relay vc-bundle DB-527
 debug ip rsvp dump-messages DB-694
 debug ip rsvp rate-limit DB-700
 debug ip rsvp reliable-msg DB-702
 debug ip rsvp summary-refresh DB-706
 debug ip snat DB-755, DB-899
 debug ipv6 cef drop DB-777, IPv6R-57
 debug ipv6 cef events DB-779, IPv6R-59
 debug ipv6 cef hash DB-781, IPv6R-61
 debug ipv6 cef receive DB-782, IPv6R-62
 debug ipv6 cef table DB-784, IPv6R-64
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 debug ipv6 pool DB-801, IPv6R-83
 debug isis authentication DB-842
 debug pppatm DB-1180
 debug sccp DB-1267
 debug ssg port-map DB-1345
 debug ssg tcp-redirect DB-1347
 debug sss aaa authorization event DB-1350
 debug sss aaa authorization fsm DB-1352
 debug sss error DB-1353
 debug sss event DB-1354
 debug sss fsm DB-1355
 debug vrrp all DB-1607
 debug vrrp error DB-1609
 debug vrrp events DB-1610
 debug vrrp packets DB-1611
 debug vrrp state DB-1612
 debug vtemplate subinterface DB-1626
 deny (IPv6) IPv6R-92
 dial-peer data VR-455
 dial-peer search type VR-459
 disable-early-media 180 VR-479
 distance bgp (IPv6) IPv6R-102
 download exclude-profile WR-115
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dscp (Frame Relay VC-bundle-member) **WR-117**
dspfarm command **VR-503**
dspfarm confbridge maximum sessions **VR-507**
dspfarm connection interval **VR-509**
dspfarm rtp timeout **VR-510**
dspfarm transcoder maximum sessions **VR-511**
dsp services dspfarm **VR-501**
echo-cancel enable **VR-529**
echo-cancel erl worst-case **VR-532**
echo suppressor **VR-524**
encapsulation (Frame Relay VC-bundle) **WR-139**
enrollment terminal **SR-297**
evaluate (IPv6) **IPv6R-106**
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fax protocol t38 (voice-service) **VR-566**
forward accounting-start-stop **WR-153**
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frame-relay vc-bundle **WR-271**
fsock **CFR-233**
group session-limit **DR-252**
idle-timeout **WR-277**
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interface content-engine **IR-176**
ip circuit **VR-719**
ip local pool **DR-276**
ip mobile home-agent reject-static-address **IP4R-37**
ip mobile vpn-realm **IP4R-63**
ip multicast mrimfo-filter **IP3R-118**
ip multicast route-limit **IP3R-122**
ip nat stateful id **IP1R-189**
ip nhrp map multicast dynamic **IP1R-197**
ip pim bidir-enable **IP3R-141**
ip route static inter-vrf **XR-102**
ip rsvp listener **QR-113**
ip rsvp policy local **QR-124**
ip rsvp policy preempt **QR-128**
ip rsvp signalling initial-retransmit-delay **QR-145**
ip rsvp signalling patherr state-removal **QR-146**
ip rsvp signalling rate-limit **QR-148**
ip rsvp signalling refresh reduction **QR-149**
ip rsvp signalling refresh reduction ack-delay **QR-151**
ipv6 access-list log-update threshold **IPv6R-119**
ipv6 address autoconfig **IPv6R-120**
ipv6 cef **IPv6R-127**
ipv6 cef accounting **IPv6R-129**
ipv6 cef distributed **IPv6R-131**
ipv6 local pool **IPv6R-140**
ipv6 nat **IPv6R-142**
ipv6 nat max-entries **IPv6R-143**
ipv6 nat prefix **IPv6R-144**
ipv6 nat translation **IPv6R-146**
ipv6 nat v4v6 pool **IPv6R-148**
ipv6 nat v4v6 source **IPv6R-150**
ipv6 nat v6v4 pool **IPv6R-152**
ipv6 nat v6v4 source **IPv6R-154**
ipv6 nd prefix **IPv6R-162**
ip vrf forwarding (server-group) **SR-433**
isis authentication key-chain **IP2R-227**
isis authentication mode **IP2R-228**
isis authentication send-only **IP2R-230**
local-profile **WR-315**
loopback (PA-MC-8TE1+ port adapter) **IR-206**
match **WR-327**
match discard-class **QR-174**
match dscp **IPv6R-217, QR-175**
match fr-dlci **QR-177**
match mpls experimental topmost **QR-185**
match mpls-label **XR-149**
match packet length (class-map) **QR-187**
match precedence **IPv6R-225, QR-189**
mdt data **IP3R-186**
mdt default **IP3R-188**
mdt log-reuse **IP3R-190**
mgcp bind **VR-827**
mgcp validate domain-name **VR-893**
mobile-network **IP4R-64**
mode extended **WR-332**

mpls ip encapsulate explicit-null XR-183
 multihop hostname DR-493
 nat user-address WR-334
 neighbor send-label IPv6R-238, XR-266
 network (ssg-redirect) WR-336
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 oam-pvc manage cc WR-349
 oam-pvc manage cc deny WR-352
 oam retry cc WR-345
 peer default ipv6 address pool IPv6R-242
 permit (IPv6) IPv6R-244
 ping atm interface atm WR-359
 ping ip CFR-455
 port (ssg-redirect) WR-361
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 ppp authentication ms-chap-v2 SR-480
 ppp eap identity SR-491
 ppp eap local SR-492
 ppp eap password SR-493
 ppp eap refuse SR-494
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 redirect captivate initial default group duration WR-401
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 redirect port to WR-403
 redirect smtp group WR-405
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 register (mobile networks) IP4R-68
 remark (IPv6) IPv6R-265
 remote-party-id VR-1101
 sccp VR-1164
 sccp ip precedence VR-1168
 sccp loca VR-1169
 sccp switchback timeout guard VR-1170
 select WR-415
 server (SSG) WR-417
 server-group WR-419
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 service-module content-engine reload IR-276
 service-module content-engine reset IR-277
 service-module content-engine session IR-279
 service-module content-engine session clear IR-278
 service-module content-engine shutdown IR-281
 service-module content-engine status IR-282
 service-module external ip address IR-284
 service-module ip address IR-285
 service-module ip default-gateway IR-286
 set discard-class QR-309
 set dscp IPv6R-266, QR-310
 set mpls experimental imposition XR-276
 set mpls experimental topmost XR-278
 set mpls-label XR-280
 set precedence IPv6R-271, QR-319
 set traffic-index IP2R-450
 show aaa cache filterserver SR-585
 show append CFR-602
 show atm pvc dbs WR-458
 show cef XR-290
 show cef interface policy-statistics XR-297
 show controllers content-engine IR-310
 show crypto engine accelerator ring SR-603
 show crypto engine accelerator statistic SR-606
 show crypto ipsec client ezvpn SR-610
 show dampening interface IP2R-484
 show dialplan dialpeer VR-1390
 show dialplan in-carrier VR-1395
 show dialplan in-trunk-group-label VR-1397
 show dspfarm VR-1405

show frame-relay vc-bundle **WR-537**
 show interface dampening **IP2R-485**
 show interfaces content-engine **IR-427**
 show ip bgp labels **XR-332**
 show ip local pool **DR-761**
 show ip mobile vpn-realm **IP4R-109**
 show ip pim mdt bgp **IP3R-256**
 show ip pim mdt history **IP3R-257**
 show ip pim mdt receive **IP3R-258**
 show ip pim mdt send **IP3R-260**
 show ip rsvp listeners **QR-381**
 show ip rsvp policy local **QR-388**
 show ip rsvp signalling **QR-396**
 show ip rsvp signalling blockade **QR-399**
 show ip rsvp signalling rate-limit **QR-402**
 show ip rsvp signalling refresh reduction **QR-404**
 show ip snat **IP1R-341**
 show ipv6 cef **IPv6R-337**
 show ipv6 cef adjacency **IPv6R-340**
 show ipv6 cef non-recursive **IPv6R-342**
 show ipv6 cef summary **IPv6R-344**
 show ipv6 cef traffic prefix-length **IPv6R-346**
 show ipv6 cef unresolved **IPv6R-348**
 show ipv6 local pool **IPv6R-353**
 show ipv6 nat statistics **IPv6R-356**
 show ipv6 nat translations **IPv6R-357**
 show pas vam controller **IR-527**
 show pas vam interface **IR-528**
 show pppatm summary **WR-555**
 show pppatm trace **WR-557**
 show redirect **CFR-609**
 show sccp **VR-1559**
 show snmp mib notification-log **CFR-776**
 show ssg auto-domain exclude-profile **WR-565**
 show ssg open-garden **WR-573**
 show ssg port-map ip **WR-576**
 show ssg port-map status **WR-578**
 show ssg radius-proxy address-pool **WR-580**
 show ssg tcp-redirect group **WR-584**
 show sss session **DR-979**
 show table-map **QR-450**
 show tcp-redirect mappings **WR-588**
 show tee **CFR-611**
 show vrrp **IP1R-363**
 show vrrp interface **IP1R-366**
 show xsm status **CFR-804**
 show xsm xrd-list **CFR-806**
 snmp mib notification-log default **CFR-811**
 snmp mib notification-log default disable **CFR-813**
 snmp mib notification-log globalageout **CFR-815**
 snmp mib notification-log globalsize **CFR-816**
 snmp-server enable traps atm pvc extension
 mibversion **CFR-830**
 snmp-server enable traps atm subif **CFR-837**
 snmp-server enable traps frame-relay subif **CFR-851**
 snmp-server enable traps mpls ldp **CFR-855, XR-577**
 snmp-server enable traps mpls vpn **CFR-859, XR-581**
 snmp-server enable traps srp **CFR-873**
 ssg auto-domain **WR-645**
 ssg auto-logoff arp **WR-647**
 ssg auto-logoff icmp **WR-649**
 ssg open-garden **WR-660**
 ssg port-map destination access-list **WR-663**
 ssg port-map destination range **WR-664**
 ssg port-map enable **WR-666**
 ssg port-map length **WR-667**
 ssg port-map source ip **WR-669**
 ssg qos police **WR-672**
 ssg radius-proxy **WR-676**
 ssg tcp-redirect **WR-681**
 subscriber access **DR-1034**
 subscriber authorization enable **DR-1037**
 table-map (value mapping) **QR-461**
 test call id **VR-1828**
 tunnel protection **SR-679**
 voice echo-canceller extended **VR-2091**
 vpdn authorize domain **DR-1061**
 vpdn redirect **DR-1076**

vpdn redirect attempts DR-1077
 vpdn redirect identifier DR-1078
 vpdn redirect source DR-1080
 vpn service WR-706
 vrrp authentication IP1R-410
 vrrp description IP1R-411
 vrrp ip IP1R-412
 vrrp preempt IP1R-414
 vrrp priority IP1R-416
 vrrp timers advertise IP1R-417
 vrrp timers learn IP1R-418
 x25 security clamm WR-786
 x25 security credn WR-788
 xsm CFR-1034
 xsm dvdn CFR-1035
 xsm edm CFR-1036
 xsm history edm CFR-1038
 xsm history vdm CFR-1039
 xsm privilege configuration level CFR-1040
 xsm privilege monitor level CFR-1042
 xsm vdm CFR-1044

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aaa accounting SR-18
 aaa accounting delay-start SR-24
 aaa accounting send stop-record authentication
 failure SR-31
 aaa accounting update SR-34
 access-list (IP extended) IP1R-12
 accounting (server-group) SR-108
 appletalk protocol P2R-89
 appletalk routing P2R-95
 area-password IP2R-45
 attribute WR-76
 attribute (server-group) SR-116
 authorization (server-group) SR-122
 clear ip igmp group IP3R-16
 clear ip mobile binding IP4R-7
 clear ip mobile host-counters IP4R-9
 clear ip mobile secure IP4R-15
 clear ip mobile visitor IP4R-19
 clear ip mroute IP3R-19
 clear ip msdp peer IP3R-21
 clear ip msdp sa-cache IP3R-22
 clear ip msdp statistics IP3R-23
 clear ip pim auto-rp IP3R-26
 clear ipv6 traffic IPv6R-33
 codec (dial-peer) VR-378
 codec complexity VR-388
 codec preference VR-391
 comfort-noise VR-395
 copy IPv6R-35
 crypto engine accelerator SR-188
 crypto ipsec transform-set SR-213
 debug bgp ipv6 dampening DB-105, IPv6R-51
 debug bgp ipv6 updates DB-108, IPv6R-54
 debug ip igmp DB-454, DB-620
 debug ip mcache DB-469, DB-634
 debug ip mobile DB-477, DB-642
 debug ip mobile router DB-479, DB-644
 debug ip mpacket DB-481, DB-646
 debug ip msdp DB-652
 debug ip msdp resets DB-654
 debug ip nat DB-655
 debug ip pim auto-rp DB-679
 debug ip rsvp DB-687
 debug ipv6 packet IPv6R-80
 debug mgcp DB-972
 destination-pattern VR-447
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 domain-password IP2R-145
 ds0-group VR-492
 dsl equipment-type WR-119
 dspint dspfarm VR-513
 echo-cancel coverage VR-527
 encryption (IKE policy) SR-289
 enrollment SR-291
 fair-queue (WFQ) QR-53

fax protocol (dial-peer) VR-560
 fax protocol (voice-service) VR-562
 fax protocol t38 (dial-peer) VR-564
 frame-relay inverse-arp WR-210
 frame-relay map WR-230
 frame-relay payload-compression WR-252
 ip mobile foreign-agent IP4R-23
 ip mobile foreign-service IP4R-27
 ip mobile home-agent IP4R-30
 ip mobile host IP4R-40
 ip mobile mobile-networks IP4R-45
 ip mobile secure IP4R-56
 ip mobile tunnel IP4R-59
 ip mroute IP3R-78
 ip msdp border IP3R-82
 ip msdp cache-sa-state IP3R-84
 ip msdp default-peer IP3R-86
 ip msdp description IP3R-88
 ip msdp filter-sa-request IP3R-89
 ip msdp mesh-group IP3R-91
 ip msdp originator-id IP3R-92
 ip msdp peer IP3R-94
 ip msdp redistribute IP3R-96
 ip msdp sa-filter in IP3R-98
 ip msdp sa-filter out IP3R-100
 ip msdp sa-request IP3R-103
 ip msdp shutdown IP3R-105
 ip msdp ttl-threshold IP3R-106
 ip multicast cache-headers IP3R-110
 ip multicast multipath IP3R-119
 ip multicast-routing XR-95
 ip nat inside source IP1R-179
 ip nat outside source IP1R-182
 ip pim accept-register IP3R-137
 ip pim accept-rp IP3R-138
 ip pim bsr-candidate IP3R-145
 ip pim register-rate-limit IP3R-155
 ip pim register-source IP3R-157
 ip pim rp-announce-filter IP3R-161
 ip pim rp-candidate IP3R-163
 ip pim send-rp-announce IP3R-165
 ip pim send-rp-discovery IP3R-167
 ip pim spt-threshold IP3R-168
 ip pim ssm IP3R-169
 ip pim state-refresh disable IP3R-171
 ip radius source-interface SR-366
 ipv6 access-list IPv6R-115
 match dscp QR-175
 match protocol IPv6R-227, QR-191
 match qos-group QR-199
 mgcp call-agent VR-830
 mgcp sgcp restart notify VR-886
 neighbor update-source IP2R-354
 non-linear VR-986
 pattern direct (vm-integration) VR-1010
 pattern ext-to-ext busy (vm-integration) VR-1012
 pattern ext-to-ext no-answer (vm-integration) VR-1014
 pattern trunk-to-ext busy (vm-integration) VR-1016
 pattern trunk-to-ext no-answer (vm-integration) VR-1018
 permit (IP) IP1R-255
 ping CFR-451
 playout-delay (dial-peer) VR-1020
 playout-delay (voice-port) VR-1024
 police QR-209
 police (percent) QR-215
 port (dial-peer) VR-1032
 ppp authentication SR-477
 pppoe-client dial-pool-number WR-376
 pppoe max-sessions WR-373
 prefix VR-1071
 priority-list protocol QR-241
 queue-list protocol QR-259
 radius-server attribute 44 include-in-access-req SR-513
 radius-server attribute list SR-520
 redistribute P2R-417
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 set cos QR-306
 set ip precedence (policy-map) QR-316

set qos-group QR-322
 shape (percent) QR-327
 show appletalk adjacent-routes P2R-434
 show appletalk route P2R-469
 show appletalk traffic P2R-478
 show cef interface XR-293
 show cef linecard XR-299
 show class-map QR-349
 show crypto ipsec sa SR-612
 show crypto ipsec transform-set SR-616
 show crypto isakmp policy SR-619
 show dialplan number VR-1402
 show frame-relay ip tcp header-compression WR-506
 show frame-relay map WR-512
 show frame-relay pvc WR-518
 show interfaces serial IR-480
 show ip bgp vpnv4 XR-334
 show ip cef XR-353
 show ip cef vrf XR-365
 show ip igmp groups IP3R-202
 show ip igmp interface IP3R-205
 show ip mcache IP3R-212
 show ip mds interface XR-373
 show ip mobile globals IP4R-76
 show ip mobile host IP4R-78
 show ip mobile mobile-networks IP4R-83
 show ip mobile router IP4R-87
 show ip mobile router registration IP4R-92
 show ip mobile secure IP4R-97
 show ip mobile traffic IP4R-99
 show ip mobile tunnel IP4R-103
 show ip mobile violation IP4R-105
 show ip mobile visitor IP4R-107
 show ip mpacket IP3R-214
 show ip mroute IP3R-221
 show ip msdp count IP3R-230
 show ip msdp peer IP3R-232
 show ip msdp sa-cache IP3R-234
 show ip msdp summary IP3R-236
 show ip nat translations IP1R-320
 show ip pgm router IP3R-246
 show ip pim bsr IP3R-249
 show ip pim interface IP3R-251
 show ip pim neighbor IP3R-261
 show ip pim rp IP3R-263
 show ip pim rp-hash IP3R-266
 show ip rpf IP3R-270
 show ip rsvp QR-364
 show ip rsvp counters QR-369
 show ip rsvp interface QR-374
 show ip rsvp neighbor QR-383
 show ip rsvp policy QR-385
 show ipv6 access-list IPv6R-335
 show ipv6 rip IPv6R-386
 show ipv6 route IPv6R-390
 show ipv6 traffic IPv6R-398
 show line TR-104
 show policy-map QR-408
 show policy-map interface QR-418
 show ppp multilink DR-909
 show sip-ua statistics VR-1578
 show sip-ua status VR-1584
 show ssg connection WR-567
 show voice call VR-1645
 show vpdn session DR-1001
 show x25 cug WR-596
 snmp-server enable traps atm pvc extension CFR-832
 snmp-server enable traps frame-relay subif CFR-849
 snmp-server host CFR-884
 source vpdn-template DR-1016
 timers (IPv6 RIP) IPv6R-429
 translate tcp TR-167
 tunnel mode IR-611
 tx-ring-limit QR-471
 vm-integration VR-2037
 voice-card VR-2105
 voice-port VR-2117
 vpdn multihop DR-1071

vpdn-template DR-1085
 x25 subscribe cug-service WR-790
 x25 subscribe local-cug WR-795
 zone cluster remote VR-2138
 zone remote VR-2147

12.2(13)T Replaced Commands

match ip dscp QR-180
 match ip precedence QR-181
 set ip dscp QR-315
 set ip precedence (policy-map) QR-316
 show ip rsvp policy cops QR-387

12.2(15)T New Commands

aaa authorization template SR-64
 accounting (DHCP) IP1R-28
 ac name WR-20
 address-family ipv4 IP2R-18
 application (telephony-service) command VR-41
 area nssa translate IP2R-34
 au-3 IR-17
 au-4 tug-3 IR-18
 aug mapping IR-19
 auto qos voip QR-7
 b2 sd-ber IR-22
 bba-group pppoe WR-81
 bert pattern (T3/E3) IR-31
 bgp graceful-restart IP2R-77
 bgp upgrade-cli IP2R-87
 cablelength IR-35
 call-forward pattern VR-261
 capability lls IP2R-91
 ca trust-point SR-130
 clear crypto ipsec client ezvpn SR-143
 clear ip eigrp vrf neighbor IP2R-107
 clear ip rsvp authentication QR-29
 clear ip urlfilter cache SR-152
 clear ipv6 ospf IPv6R-27

clear logging xml CFR-91
 client authentication list SR-156
 client configuration address SR-157
 clock source (T3/E3 controller) IR-81
 collocated single-tunnel IP4R-20
 controller e3 IR-96
 create cnf-files VR-423
 crypto ca certificate map SR-166
 crypto ca export pkcs12 SR-176
 crypto ca import pkcs12 SR-179
 crypto ipsec IP1R-66
 crypto ipsec client ezvpn connect SR-198
 crypto ipsec client ezvpn xauth SR-199
 crypto isakmp profile SR-230
 crypto keyring SR-243
 crypto map isakmp-profile SR-256
 crypto set security-association idle-time SR-261
 debug acircuit DB-27
 debug ccsip info DB-285
 debug ccsip media DB-289
 debug condition DB-277
 debug condition glbp DB-282
 debug eigrp nsf DB-399
 debug eigrp nsf command DB-399
 debug frame-relay events DB-504
 debug glbp errors DB-544
 debug glbp events DB-545
 debug glbp packets DB-546
 debug glbp terse DB-547
 debug ip eigrp notifications DB-435, DB-600
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12.2(15)T Replaced Commands

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12.3(1) New Commands

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12.3(1) Modified Commands

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12.3(1) Replaced Commands

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