



B1R	Cisco IOS Bridging and IBM Networking Command Reference, Volume 1 of 2
B2R	Cisco IOS Bridging and IBM Networking Command Reference, Volume 2 of 2
D1R	Cisco IOS Dial Technologies Command Reference, Volume 1 of 2
D2R	Cisco IOS Dial Technologies Command Reference, Volume 2 of 2
DB	Cisco IOS Debug Command Reference
FR	Cisco IOS Configuration Fundamentals Command Reference
IP1R	Cisco IOS IP Command Reference, Volume 1 of 3: Addressing and Services
IP2R	Cisco IOS IP Command Reference, Volume 2 of 3: Routing Protocols
IP3R	Cisco IOS IP Command Reference, Volume 3 of 3: Multicast
IR	Cisco IOS Interface Command Reference
MWR	Cisco IOS Mobile Wireless Command Reference
P2R	Cisco IOS AppleTalk and Novell IPX Command Reference
P3R	Cisco IOS Apollo Domain, Banyan VINES, DECnet, ISO CLNS, and XNS 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

Numerics [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [K](#) [L](#) [M](#)
[N](#) [P](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#)

Numerics

- 100VG AnyLAN port adapter
 - configuring [IR-114](#)
 - information about, displaying [IR-537](#)

A

- alarm-interface command [IR-3](#)
- AMI (alternate mark inversion) line coding [IR-573](#)
- AppleTalk
 - tunneling, Cayman [IR-351](#)
- APS (automatic protection switching) [IR-12](#)
 - protect interface [IR-12](#), [IR-16](#)
- aps authenticate command [IR-4](#)
- aps force command [IR-5](#)
- aps group command [IR-7](#)
- aps lockout command [IR-9](#)
- aps manual command [IR-10](#)
- aps protect command [IR-12](#)
- aps revert command [IR-13](#)
- aps timers command [IR-14](#)
- aps unidirectional command [IR-15](#)
- aps working command [IR-16](#)
- ARP (Address Resolution Protocol)
 - accounting information, displaying [IR-180](#)
 - ARP type [IR-257](#)
- asynchronous interfaces
 - compression, ignore-pfc option for async drivers [IR-43](#)
 - groups, designating [IR-107](#)
- Asynchronous Transfer Mode-Data Exchange Interface
 - See ATM-DXI
- ATM-DXI (ATM-Data Exchange Interface) [IR-63](#)
- atm sonet command [IR-17](#)
- ATM SONET PLIM [IR-17](#)
- automatic receiver polarity reversal [IR-18](#)
- auto-polarity command [IR-18](#)

B

- B8ZS line coding [IR-573](#)
- bandwidth, setting [IR-19](#)

- bandwidth interface command [IR-19](#)
 - bert abort command [IR-360](#)
 - bert controller command [IR-361](#)
 - bert pattern (T1/E1) command [IR-364](#)
 - bert pattern (T3/E3) command [IR-366](#)
 - bert profile command [IR-368](#)
- C**
- cable length, setting [IR-370](#)
 - cablelength command [IR-370](#)
 - cablelength long command [IR-372](#)
 - cablelength short command [IR-375](#)
 - carrier-delay command [IR-20](#)
 - CAS (channel-associated signalling)
 - channel state details, displaying [IR-486](#)
 - Cayman tunneling, AppleTalk [IR-351](#)
 - channel-group (EtherChannel) command [IR-21](#)
 - channel-group (Fast EtherChannel) command [IR-23](#)
 - channelized command [IR-377](#)
 - channelized E1
 - controller statistics [IR-398](#), [IR-485](#)
 - ISDN PRI details, displaying [IR-486](#)
 - channelized T1
 - ISDN PRI details, displaying [IR-486](#)
 - channelized T1, loopback [IR-436](#), [IR-437](#)
 - channelized T3 [IR-402](#), [IR-577](#)
 - Channelized T3 Interface Processor (CT3IP)
 - See* T3
 - channel service unit/data service unit
 - See* CSU/DSU
 - Cisco MC3810 universal concentrator
 - clock rate, configuring [IR-382](#)
 - network clock speed, configuring [IR-383](#)
 - clear aim command [IR-25](#)
 - clear controller command [IR-378](#)
 - clear counters command [IR-26](#)
 - clear dsip tracing command [IR-582](#)
 - clear hub command [IR-29](#)
 - clear hub counters command [IR-30](#)
 - clearing counters [IR-26](#)
 - clear interface command [IR-31](#)
 - clear interface fastethernet command [IR-34](#)
 - clear interface serial command [IR-36](#)
 - clear service-module serial command [IR-379](#)
 - clock rate, (examples) [IR-381](#)
 - clock rate command [IR-380](#)
 - clock rate line command [IR-382](#)
 - clock rate network-clock command [IR-383](#)
 - clock signal, inverting [IR-120](#)
 - clock source
 - T1 [IR-568](#)
 - T3 [IR-390](#)
 - clock source (Cisco AS5200) command [IR-386](#)
 - clock source (controller) command [IR-387](#)
 - clock source (controller j1) command [IR-389](#)
 - clock source (CT3IP) command [IR-390](#)
 - clock source (interface) command [IR-392](#)
 - clock source (mc3810) command [IR-394](#)
 - clock source (T1/E1 controller) command [IR-395](#)
 - clock source (T3/E3 controller) command [IR-397](#)
 - clock source command [IR-384 to IR-385](#)
 - cmt connect command [IR-37](#)
 - cmt disconnect command [IR-39](#)
 - command execution
 - multiple interfaces simultaneously [IR-111](#)
 - compress command [IR-41](#)
 - compression
 - LAPB, encapsulation [IR-42](#)
 - RAND compression algorithm [IR-42](#)
 - service adapter [IR-41](#)
 - compressions
 - configuring [IR-41](#)
 - HDLC encapsulation [IR-42](#)
 - LAPB encapsulation [IR-42](#)
 - MPPC, ignore-pfc option [IR-42](#)
 - PPP encapsulation [IR-42](#)
 - statistics, displaying [IR-167](#)

- compress mppc command [IR-46](#)
 - compress stac caim command [IR-47](#)
 - concentrator port, enabling [IR-144](#)
 - Configuration Management, FDDI MAC-level connection [IR-210](#)
 - controller command [IR-398](#)
 - controller e3 command [IR-400](#)
 - controllers
 - E1
 - configuring [IR-398](#)
 - T1
 - configuring [IR-398](#)
 - controller t3 command [IR-401](#)
 - counters, clearing [IR-26](#), [IR-304](#)
 - CRC (cyclic redundancy check)
 - G.703/G.704 [IR-50](#)
 - setting [IR-49](#)
 - crc4 command [IR-50](#)
 - crc bits 5 command [IR-51](#)
 - crc command [IR-49](#)
 - CSU/DSU
 - Cisco 2524 or Cisco 2525, resetting [IR-379](#)
 - CSU/DSU (channel service unit/data service unit)
 - loopback [IR-434](#)
 - cut-through command [IR-51](#)
 - cyclic redundancy check
 - See* CRC
- D**
- data, inverting [IR-117](#)
 - data compression [IR-44](#)
 - DCE
 - clock rate [IR-380](#)
 - timing [IR-54](#)
 - dce-terminal-timing enable command [IR-54](#)
 - delay (interface) command [IR-55](#)
 - description (controller) command [IR-403](#)
 - dial shelf controllers
 - stopping and restarting [IR-585](#)
 - dial-tdm-clock command [IR-583](#)
 - Distance Vector Multicast Routing Protocol
 - See* DVMRP
 - distributed compression [IR-41](#)
 - DLCI (data-link connection identifier)
 - interface statistics, displaying [IR-235](#)
 - multicast mechanism, displaying statistics about [IR-235](#)
 - down-when-looped command [IR-56](#)
 - ds0-group (J1 controller) command [IR-404](#)
 - DS-3 link, loopback [IR-436](#), [IR-437](#)
 - DSU (data service unit)
 - configuration information, displaying [IR-512](#)
 - interoperability mode, setting [IR-410](#)
 - maximum bandwidth, setting [IR-406](#)
 - dsu bandwidth command [IR-406](#)
 - dsu mode command [IR-409](#)
 - dte-invert-txc command [IR-58](#)
 - DTR (dedicated Token Ring), signal pulsing [IR-156](#)
 - duplex command [IR-59](#)
 - DVMRP (Distance Vector Multicast Routing Protocol) [IR-351](#)
- E**
- e2-clockrate command [IR-61](#)
 - early-token-release command [IR-62](#)
 - EEPROM [IR-539](#)
 - electrically erasable programmable read-only memory
 - See* EEPROM
 - encapsulation command [IR-63](#)
 - encapsulations
 - atm-dxi [IR-63](#)
 - bstun [IR-63](#)
 - hdlc [IR-63](#)
 - lapb [IR-63](#)
 - ppp [IR-63](#)

Ethernet

- 100VG AnyLAN port adapter [IR-114, IR-537](#)
- bandwidth [IR-19](#)
- extending twisted-pair 10BaseT capability [IR-317](#)
- FDDI, bridging from [IR-72](#)
- MOP enabled [IR-134](#)
- specifying media type [IR-132](#)
- executing a command on multiple interfaces [IR-111](#)
- external port, T1 [IR-569](#)

F

Fast EtherChannel [IR-23](#)

- assigning Fast Ethernet [IR-23](#)
- configuring [IR-108](#)
- Fast EtherChannel information, displaying [IR-226](#)

Fast Ethernet

- Fast EtherChannel [IR-23](#)
- Fast EtherChannel, assigning [IR-23](#)
- Fast EtherChannel information, displaying [IR-226](#)
- Fast EtherChannel interface [IR-108](#)

FDDI (Fiber Distributed Data Interface)

- bandwidth, determining [IR-78](#)
- bit specifications [IR-70](#)
- bridging configurations [IR-72](#)
- encapsulation mode compatibility [IR-72](#)
- full-duplex [IR-84, IR-86](#)
- full-duplex status [IR-207](#)
- stopping [IR-37](#)
- transmission time, controlling [IR-77](#)

fddi burst-count command [IR-67](#)

fddi c-min command [IR-68](#)

fddi cmt-signal-bits command [IR-69](#)

fddi duplicate-address-check command [IR-71](#)

fddi encapsulate command [IR-72](#)

fddi frames-per-token command [IR-74](#)

FDDI processor

See FIP

fddi smt-frames command [IR-75](#)

fddi tb-min command [IR-76](#)

fddi tl-min-time command [IR-77](#)

fddi token-rotation-time command [IR-78](#)

fddi t-out command [IR-79](#)

fddi valid-transmission-time command [IR-80](#)

FDL (Facility Data Link), performance report [IR-579](#)

fdl command [IR-81](#)

FIP (FDDI processor) information about, displaying [IR-497](#)

flow-based WRED

interface statistics, displaying [IR-178](#)

framed mode, G.703-E1 interface [IR-340](#)

framed mode on G.703-E1 interface [IR-340](#)

Frame Relay

DLCI

interface statistics [IR-235](#)

multicast mechanism statistics [IR-235](#)

LMI

general statistics, displaying [IR-235](#)

frame type, selecting [IR-415](#)

framing

T1 [IR-572](#)

T3 [IR-416](#)

framing (E3 controller) command [IR-413](#)

framing (T1/E1 controller) command [IR-415](#)

framing (T3/E3 interface) command [IR-418](#)

framing (T3 controller) command [IR-416](#)

framing command [IR-411](#)

full-duplex command [IR-83](#)

G

G.703-E1 interface

clock source [IR-387, IR-392, IR-393](#)

CRC [IR-50](#)

framed mode [IR-340](#)

time slot 16 [IR-345](#)

unframed mode [IR-340](#)

- G.704 interface
 - CRC [IR-50](#)
- generic routing encapsulation
 - See* GRE
- GRE (generic route encapsulation) [IR-353](#)
- group and member asynchronous interfaces [IR-107](#)

- H
- half-duplex command [IR-86](#)
- half-duplex controlled-carrier command [IR-88](#)
- half-duplex timer command [IR-90](#)
- hannel [IR-21](#)
- hardware compression
 - compression service adapter [IR-41](#)
 - displaying [IR-168](#)
- HDLC (High-Level Data Link Control),
 - compression [IR-41](#)
- High-Level Data Link Control
 - See* HDLC
- hold-queue command [IR-92](#)
- hssi external-loop-request command [IR-94](#)
- hssi internal-clock command [IR-95](#)
- hub command [IR-96](#)
- hub ports
 - automatic receiver polarity reversal [IR-18](#)
 - clearing hub counters [IR-30](#)
 - enabling [IR-96](#)
 - hub statistics, displaying [IR-173](#)
 - link test function [IR-127](#)
 - resetting [IR-29](#)
 - shutting down [IR-564](#)
 - source address control [IR-314](#)
- hw-module command [IR-585](#)
- hw-module reload command [IR-585](#)

- I
- ignore-dcd command [IR-97](#)
- ignore-hw local-loopback command [IR-98](#)
- interface command [IR-99](#)
- interface configuration commands
 - serial restart-delay [IR-161](#)
- interface content-engine command [IR-103](#)
- interface fastethernet command [IR-104](#)
- interface gigabitethernet command [IR-106](#)
- interface group-async command [IR-107](#)
- interface port-channel command [IR-108](#)
- interface pos command [IR-110](#)
- interface range command [IR-111](#)
- interfaces
 - counters, clearing [IR-304](#)
 - E1-G.703/G.704, enabling framed mode [IR-340](#)
 - G.703-E1
 - clock source [IR-387](#), [IR-392](#), [IR-393](#)
 - CRC [IR-50](#)
 - enabling framed mode [IR-340](#)
 - time slot 16 [IR-345](#)
 - low-speed serial [IR-143](#)
 - PA-E3 clock source [IR-387](#)
 - restarting [IR-304](#)
 - shutting down [IR-304](#)
 - unit numbers [IR-26](#), [IR-31](#), [IR-99](#)
- interface vg-anylan command [IR-114](#)
- international bit command [IR-116](#)
- invert data command [IR-117](#), [IR-573](#)
- invert rxclock command [IR-119](#)
- invert txclock command [IR-120](#)
- ISDN PRI
 - channelized E1 controllers
 - channel state details, displaying [IR-486](#)
 - channelized T1 controllers
 - channel state details, displaying [IR-486](#)

- K
- keepalive command [IR-121](#)

L

Lanoptics Hub Networking Management [IR-128](#)

LAPB (Link Access Procedure, Balanced)

- compression [IR-41](#), [IR-42](#)
- interface statistics, displaying [IR-248](#)

lbo command [IR-123](#)

linecode command [IR-125](#)

line-code type, selecting [IR-125](#)

line coding

- format [IR-142](#)
- T1 [IR-573](#)

lines

- fractional data [IR-399](#)

line-termination command [IR-126](#)

link-test command [IR-127](#)

LMI (Local Management Interface)

- general statistics, displaying [IR-235](#)

local-lnm command [IR-128](#)

loopback

- DTE [IR-433](#)
- MCI serial card [IR-421](#)
- over DS-3 or channelized T1 link [IR-436](#), [IR-437](#)
- SCI serial card [IR-421](#)
- through CSU/DSU [IR-434](#)
- X.21 DTE limitation [IR-422](#)

loopback (E3/T3 interface) command [IR-430](#)

loopback (E3 controller) command [IR-420](#)

loopback (interface) command [IR-421](#)

loopback (J1 controller) command [IR-423](#)

loopback (PA-MC-8TE1+ port adapter) command [IR-424](#)

loopback (T1 interface) command [IR-425](#)

loopback (T3 controller) command [IR-428](#)

loopback applique command [IR-432](#)

loopback dte command [IR-433](#)

loopback interfaces [IR-101](#)

loopback line command [IR-434](#)

loopback remote (interface) command [IR-436](#)

low-speed serial interfaces, physical layer [IR-143](#)

LZS compression algorithm [IR-41](#)

M

main-fiber command [IR-129](#)

MCI interface card

- loopback on serial [IR-421](#)
- pulsing DTR signal [IR-156](#)

mdl command [IR-130](#)

media-type command [IR-132](#)

microcode reload controller (j1) command [IR-439](#)

MIP (MultiChannel Interface Processor), CT3IP external port [IR-569](#)

mode

- framed [IR-340](#)
- unframed [IR-340](#)

mode (HSA redundancy) command [IR-440](#)

mode (RSC redundancy) command [IR-442](#)

mode (T1/E1 Controller) command [IR-443](#)

MOP (Maintenance Operations Protocol), enabling an interface to support [IR-134](#)

mop enabled command [IR-134](#)

mop sysid command [IR-135](#)

MTU (maximum transmission unit), default values by media type (table) [IR-136](#)

mtu command [IR-136](#)

Multiport Communications Interface

See MCI interface card

N

national bit (controller) command [IR-138](#)

national bit (interface) command [IR-139](#)

national reserve command [IR-140](#)

negotiation command [IR-141](#)

network management hub [IR-128](#)

nonreturn-to-zero inverted

See NRZI

NRZI (nonreturn-to-zero inverted), enabling [IR-142](#)

nrzi-encoding command [IR-142](#)

P

physical-layer command [IR-143](#)

Point-to-Point Protocol

See PPP

port (interface) command [IR-144](#)

port range

executing [IR-111](#)

pos ais-shut command [IR-145](#)

pos flag command [IR-146](#)

pos framing command [IR-148](#)

pos report command [IR-149](#)

pos scramble-atm command [IR-151](#)

pos threshold command [IR-153](#)

power inline command [IR-155](#)

PPP

compression [IR-41](#)

encapsulation [IR-63](#)

predictor compression [IR-41, IR-42](#)

pulse-time command [IR-156](#)

R

RAND compression algorithm [IR-41, IR-42](#)

redundancy handover command [IR-446](#)

reset (alarm-interface) command [IR-157](#)

RFC 1042, Standard for the Transmission of IP Datagrams
Over IEEE 802 Networks [IR-72](#)

RFC 1332, PPP Internet Protocol Control Protocol
(IPCP) [IR-64](#)

RFC 1406, Definitions of Managed Objects for DS1 and
E1 Interface Types [IR-528](#)

RFC 1407, DS3 MIB Variables [IR-527](#)

ring-speed command [IR-158](#)

S

SCI cards, loopback on [IR-421](#)

scramble command [IR-159](#)

SDLC (Synchronous Data Link Control Protocol)

secondary descriptions (table) [IR-182](#)

serial interfaces

clearing [IR-31](#)

DTR signal pulsing [IR-156](#)

loopback [IR-421](#)

low-speed [IR-143](#)

media type [IR-132](#)

monitoring synchronous [IR-249](#)

serial restart-delay command [IR-161](#)

service-module 56k clock rate command [IR-448](#)

service-module 56k clock source command [IR-450](#)

service-module 56k data-coding command [IR-451](#)

service-module 56k network-type command [IR-452](#)

service-module 56k remote-loopback command [IR-454](#)

service-module 56k switched-carrier command [IR-455](#)

service-module content-engine reload command [IR-456](#)

service-module content-engine reset command [IR-457](#)

service-module content-engine session clear
command [IR-460](#)

service-module content-engine session command [IR-458](#)

service-module content-engine shutdown
command [IR-461](#)

service-module content-engine status command [IR-462](#)

service-module external ip address command [IR-464](#)

service-module ip address command [IR-465](#)

service-module ip default-gateway command [IR-466](#)

service-module t1 clock source command [IR-467](#)

service-module t1 data-coding command [IR-468](#)

service module t1 fdl command [IR-469](#)

service-module t1 framing command [IR-470](#)

service-module t1 lbo command [IR-471](#)

service-module t1 linecode command [IR-472](#)

service-module t1 remote-alarm-enable command [IR-473](#)

service-module t1 remote-loopback command [IR-474](#)

service-module t1 timeslots command [IR-476](#)

- service single-slot-reload-enable command [IR-162](#)
- shelf-id command [IR-587](#)
- show alarm-interface command [IR-163](#)
- show aps command [IR-165](#)
- show compress command [IR-167](#)
- show controllers cbus command [IR-477](#), [IR-479](#)
- show controllers content-engine command [IR-482](#)
- show controllers e1 command [IR-485](#)
- show controllers e3 command [IR-489](#)
- show controllers ethernet command [IR-492](#)
- show controllers fastethernet command [IR-494](#)
- show controllers fddi command [IR-497](#)
- show controllers gigabitethernet [IR-499](#)
- show controllers j1 command [IR-502](#)
- show controllers mci command [IR-505](#)
- show controllers pcbus command [IR-507](#)
- show controllers pos command [IR-508](#)
- show controllers serial command [IR-512](#)
- show controllers t1 bert command [IR-519](#)
- show controllers t1 command [IR-515](#)
- show controllers t3 command [IR-521](#)
- show controllers token command [IR-532](#)
- show controllers vg-anylan command [IR-537](#)
- show diagbus command [IR-546](#)
- show diag command [IR-539](#)
- show dial-shelf command [IR-589](#)
- show dsc clock command [IR-591](#)
- show dsi command [IR-593](#)
- show dsip clients command [IR-604](#)
- show dsip command [IR-600](#)
- show dsip nodes command [IR-606](#)
- show dsip ports command [IR-608](#)
- show dsip queue command [IR-611](#)
- show dsip tracing command [IR-612](#)
- show dsip transport command [IR-614](#)
- show dsip version command [IR-617](#)
- show etherchannel command [IR-169](#)
- show hub command [IR-173](#)
- show interfaces
 - configuration statistics, displaying [IR-178](#)
 - configuring interfaces [IR-196](#)
 - custom queueing output display [IR-179](#)
 - disabled interfaces [IR-184](#)
 - ethernet accounting option [IR-191](#)
 - fddi accounting option [IR-205](#)
 - SDLC information, displaying [IR-249](#)
- show interfaces accounting option [IR-180](#)
- show interfaces command [IR-177](#)
- show interfaces content-engine command [IR-548](#)
- show interfaces ctunnel command [IR-188](#)
- show interfaces ethernet command [IR-191](#)
- show interfaces fastethernet command [IR-196](#)
- show interfaces fddi command [IR-205](#)
- show interfaces gigabitethernet command [IR-214](#)
- show interfaces hssi command [IR-216](#)
- show interfaces ip-brief command [IR-221](#)
- show interfaces loopback command [IR-222](#)
- show interfaces port-channel command [IR-226](#)
- show interfaces pos command [IR-231](#)
- show interfaces serial accounting command [IR-235](#)
- show interfaces serial command [IR-235](#)
- show interfaces tokenring command [IR-255](#)
- show interfaces tunnel command [IR-261](#)
- show interfaces vg-anylan command [IR-265](#)
- show pas caim command [IR-270](#)
- show pas eswitch address command [IR-281](#)
- show pas vam controller command [IR-282](#)
- show pas vam interface command [IR-283](#)
- show pci aim command [IR-285](#)
- show power inline command [IR-286](#)
- show redundancy command [IR-554](#), [IR-619](#)
- show service-module serial command [IR-558](#)
- show smf command [IR-287](#)
- show storm-control command [IR-289](#)
- show tdm backplane command [IR-290](#)
- show tdm connections command [IR-292](#)
- show tdm connections motherboard option [IR-293](#)

show tdm data command [IR-295](#)
 show tdm detail command [IR-298](#)
 show tdm information command [IR-300](#)
 show tdm pool command [IR-302](#)
 shutdown (controller) command [IR-563](#)
 shutdown (hub) command [IR-564](#)
 shutdown (interface) command [IR-304](#)
 signals, pulsing DTR [IR-156](#)
 smt-queue-threshold command [IR-305](#)
 SNMP (Simple Network Management Protocol) , trap
 address violation [IR-312](#)
 snmp ifindex clear command [IR-306](#)
 snmp ifindex persist command [IR-308](#)
 snmp-server ifindex persist command [IR-310](#)
 snmp trap illegal-address command [IR-312](#)
 software compression
 displaying [IR-167](#)
 for LAPB [IR-41](#)
 source-address command [IR-314](#)
 speed command [IR-315](#)
 squelch command [IR-317](#)
 srp buffer-size command [IR-318](#)
 srp deficit-round-robin command [IR-319](#)
 srp loopback command [IR-320](#)
 srp priority-map command [IR-321](#)
 srp random-detect command [IR-323](#)
 srp shutdown command [IR-324](#)
 srp tx-traffic-rate command [IR-325](#)
 Stacker compression [IR-41](#)
 storm-control command [IR-326](#)
 subinterfaces, configuring [IR-99](#), [IR-100](#), [IR-102](#)
 switchport mode command [IR-328](#)
 switchport trunk command [IR-331](#)
 switchport voice vlan command [IR-335](#)
 Synchronous Data Link Control Protocol
 See SDLC

T

t1 bert command [IR-566](#)
 t1 clock source command [IR-568](#)
 t1 command [IR-565](#)
 T1 controller, adding descriptive name [IR-403](#)
 t1 external command [IR-569](#)
 t1 fdl ansi command [IR-571](#)
 t1 framing command [IR-572](#)
 t1 linecode command [IR-573](#)
 t1 test command [IR-575](#)
 t1 timeslot command [IR-577](#)
 t1 yellow command [IR-579](#)
 T3
 BERT test [IR-566](#)
 cable length [IR-370](#)
 clock source [IR-390](#)
 configuration [IR-402](#)
 display controllers [IR-522](#)
 display interface [IR-243](#)
 external port [IR-569](#)
 FDL (Facility Data Link), performance report [IR-571](#),
 [IR-579](#)
 framing [IR-416](#)
 line coding [IR-573](#)
 T1 clock source [IR-568](#)
 T1 framing [IR-572](#)
 T1 test [IR-575](#)
 T1 timeslots [IR-577](#)
 test aim eeprom command [IR-336](#)
 test interface fastethernet command [IR-338](#)
 test service-module command [IR-339](#)
 THT (token holding timer)
 FDDI [IR-78](#)
 time-division multiplexing, clock source [IR-386](#)
 timers, token holding [IR-78](#)
 timeslot command [IR-340](#)
 timeslots, T1 [IR-577](#)

token rotation time

See TRT

transition states, FDDI [IR-207](#)

translational bridging [IR-72](#)

transmit-buffers-backing-store command [IR-342](#)

transmit-clock-internal command [IR-343](#)

transmit clock signal, inverting [IR-120](#)

transmitter-delay command [IR-344](#)

transparent bridging

on FDDI interface [IR-72](#)

traps

message, address violation [IR-312](#)

TRT (token rotation time), FDDI [IR-78](#)

ts16 command [IR-345](#)

tunnel checksum command [IR-346](#)

tunnel destination command [IR-347](#)

tunneling

AppleTalk, Cayman [IR-351](#)

tunnel key command [IR-349](#)

tunnel mode command [IR-350](#)

tunnel sequence-datagrams command [IR-353](#)

tunnel source command [IR-354](#)

tx-queue-limit command [IR-356](#)

U

unit numbers

interface [IR-26](#), [IR-31](#), [IR-99](#)

V

VIC (voice interface cards), slot information [IR-539](#)

virtual interfaces

loopback interface [IR-101](#)

tunnel interface [IR-101](#)

W

Weighted Random Early Detection

See WRED

WRED (Weighted Random Early Detection)

interface statistics, displaying [IR-178](#)

X

X.25

interface statistics, displaying [IR-252](#)

X3T9.5 specification [IR-78](#)

Y

yellow command [IR-357](#)