



CHG Commands

This chapter provides change (CHG) commands for the Cisco ONS 15454 SDH and Cisco ONS 15600 SDH.

5.1 CHG-ACCMD-<MOD_TACC>

(Cisco ONS 15454 SDH and ONS 15600 SDH) The Change Test Access Mode for DS3I, E1, E3, VC3, VC44C, VC38C, VC464C, VC48C, VC36C, VC4, VC416C, VC42C, VC43C, VC11, or VC12 (CHG-ACCMD-<MOD_TACC>) command changes the test access (TACC) mode for the circuit being tested. This can be a change from monitoring the data to inserting data into the VC. For more information on TACC, refer to the *Cisco ONS SDH and Cisco ONS 15600 SDH TL1 Reference Guide*. See [Table 27-1 on page 27-1](#) for supported modifiers by platform.

Usage Guidelines

This command can only be applied to an existing test access point (TAP) connection.



Caution

For this command to be applicable, first create the TAP using the ED-<MOD_PATH> command. Intrusive test access modes are traffic-affecting. If a facility/path is connected to a TAP in an intrusive test access mode, it is forced to go into the Out of Service, Maintenance (OOS-MT) state. The forced transition could be traffic-affecting. The present state of the facility/path is stored by the network element (NE) and is restored when the TAP connection is terminated. Test access connections are dropped automatically if the TL1 session is terminated or is timed out.



Note

- If there is no TAP connection, a DENY error message is returned.
- If a requested condition already exists, a SRCN error message is returned.
- If a requested access configuration is invalid, a SRAC error message is returned.
- If a requested TAP does not exist, a RTEN error message is returned.

Category

Troubleshooting and Test Access

Security

Maintenance

Input Format

CHG-ACCMD-<MOD_TACC>:[<TID>]:<TAP>: <CTAG>::<MD>;

Input Example

CHG-ACCMD-VC3:CISCO:8:123::MONE;

Input Parameters

<TAP>	The Test Access Path number. The TAP number must be an integer with a range of 1 to 999. TAP is a string
	Note This command supports changing the mode for only a single TAP number at a time.
<MD>	The test access mode. (SPLTE, SPLTF, LOOPE and LOOPF require an external quasi-random signal [QRS] input signal.) Single facility access digroup (FAD) Test Access does not support MONEF, SPLTEF, and SPLTAB modes. The parameter type is TACC_MODE, which is the test access mode.
• LOOPE	Indicates to split both the A and B paths. Connect the line incoming from E direction to the line outgoing in the E direction, and connect this looped configuration to the FAD. The line outgoing in the F direction shall have a QRS connected, and the line incoming from the F direction shall be terminated by the nominal characteristic impedance of the line. Intrusive test access mode.
• LOOPF	Indicates to split both the A and B paths. Connect the line incoming from F direction to the line outgoing in the F direction, and connect this looped configuration to the FAD. The line outgoing in the E direction shall have a QRS connected, and the line incoming from the E direction shall be terminated by the nominal characteristic impedance of the line. Intrusive test access mode.
• MONE	Indicates that a monitor connection is to be provided from the FAD to the A transmission path of the accessed circuit.
• MONEF	Indicates that a monitor connection is to be provided from the FAD1 to a DFAD, or the odd pair of a FAP, to the A transmission path and from FAD2 of the same DFAD, or the even pair of a FAP, to the B transmission path of the accessed circuit.
• MONF	Indicates that a monitor connection is to be provided from the FAD to the B transmission path of the accessed circuit.
• SPLTA	Indicates that a connection is to be provided from both the E and F sides of the A transmission path of the circuit under test to the FAD and split the A transmission path. Intrusive test access mode
• SPLTB	Indicates that a connection is to be provided from both the E and F sides of the B transmission path of the circuit under test to the FAD and split the B transmission path. Intrusive test access mode.
• SPLTE	Indicates to split both the A and B paths and connect the E side of the accessed circuit to the FAD. The line outgoing in the F direction shall have a QRS connected, and the line incoming from the F direction shall have a QRS connected, and the line incoming from the E direction shall be terminated by the nominal characteristic impedance of the line. Intrusive test access mode.

• SPLTEF	Indicates to split both the A and B paths, and connect the E side of the accessed circuit to FAD1 and the F side to FAD2. Intrusive test access mode.
• SPLTF	Indicates to split both the A and B paths, and connect the F side of the accessed circuit to the FAD. The line outgoing in the E direction shall have a QRS connected, and the line incoming in the E direction shall have a QRS connected, and the line incoming from the E direction shall be terminated by the nominal characteristic impedance of the line. Intrusive test access mode.

5.2 CHG-EQPT

(Cisco ONS 15454 SDH) The Change Equipment (CHG-EQPT) command performs an in-service optical card upgrade or downgrade.

Usage Guidelines

- Optical (STM) card upgrades and downgrades are supported within the limitations of the MRC-12 card.
- Two upgradable cards provisioned in a 1:1 protection group cannot be upgraded.

Category

Equipment

Security

Maintenance

Input Format

```
CHG-EQPT:[<TID>]:<AID>:<CTAG>::<EQPTTYPE>:[PPMTYPE=PPMTYPE],
[PPMNUM=<PPMNUM>],[PORTNUM=<PORTNUM>],[PORTRATE=<PORTRATE>];
```

Input Example

```
CHG-EQPT::SLOT-14:1::MRC-2.5G-12:PPMTYPE=PPM-1,PPMNUM=1,PORTNUM=1,
PORTRATE=STM16;
```

Input Parameters

<SRC>	The source access identifier from the “25.12 EQPT” section on page 25-15.
<EQPTTYPE>	The equipment type to be upgraded. The parameter type is EQUIPMENT_TYPE.
• 10DME-C	10DME-C card
• 10DME-L	10DME-L card
• 32DMX	(ONS 15454) 32 channel demultiplexer
• 32DMX-L	(ONS 15454) 32 channel demultiplexer unit for L-band
• 32DMX-O	(ONS 15454) 32 channel unidirectional optical demultiplexer
• 32MUX-O	(ONS 15454) 32 channel unidirectional optical multiplexer
• 32WSS	(ONS 15454) 32 channel optical wavelength selective switch
• 32WSS-L	(ONS 15454) 32 channel wavelength switch selector unit for L-band

• 4MD-xx.x	(ONS 15454) Optical multiplexer/demultiplexer with 4 channels
• AD-1B-xx.x	(ONS 15454) Optical add/drop multiplexed (OADM) 1 band filter
• AD-1C-xx.x	(ONS 15454) Optical add/drop multiplexed (OADM) 1 channel filter
• AD-2C-xx.x	(ONS 15454) Optical add/drop multiplexed (OADM) 2 channel filter
• AD-4B-xx.x	(ONS 15454) Optical add/drop multiplexed (OADM) 4 band filter
• AD-4C-xx.x	(ONS 15454) Optical add/drop multiplexed (OADM) 4 channel filter
• AIC-I	(ONS 15454) AIC-I card
• ASAP	(ONS 15600) Any service any port carrier card with 4 PIM slots
• CE-1000-4	(ONS 15454) CE-1000-4 card
• CE-100T-8	(ONS 15454, ONS 15310-CL, ONS 15310-MA) Eight port 100T card
• CTX2500	(ONS 15310-MA) CTX2500 card
• DS1	(ONS 15454) DS1 card
• DS1-28/DS3-EC1-3	(ONS 15310-MA) DS1-28/DS3-EC1-3 card
• DS1-84/DS3-EC1-3	(ONS 15310-MA) DS1-84/DS3-3 card
• DS1/E1-56	(ONS 15454) DS1/E1-56 card
• DS1N	(ONS 15454) DS1N card
• DS3	(ONS 15454) DS3 card
• DS3/EC1-48	(ONS 15454) DS3/EC1-48 card
• DS3i-N-12	(ONS 15454) DS3i-N-12 card
• DS3N	(ONS 15454) DS3N card
• DS3NE	(ONS 15454) DS3NE card
• DS3XM-6	(ONS 15454) DS3XM-6 card
• DS3XM-12	(ONS 15454) DS3XM-12 card
• E1000-2	(ONS 15454) E1000-2 card
• E1000-2-G	(ONS 15454) E1000-2-G card
• E100T	(ONS 15454) E100T card
• EC1	(ONS 15454) EC1 card
• FC_MR-4	(ONS 15454) FC_MR-4 card
• FILLER-CARD	Blank Filler card
• G1K-4	(ONS 15454) Four port G1000 card
• ML100T-8	(ONS 15310-CL, ONS 15310-MA) Mapper card
• ML1000-2	(ONS 15454) ML-Series two port gigabit Ethernet card
• ML100T-12	(ONS 15454) ML-Series 12 port FSTE card
• ML100X-8	(ONS 15454) Eight port 100T card with optical interface
• MMU	(ONS 15454) Multiring/mesh upgrade unit
• MRC-12	(ONS 15454) 12 port multirate optical card
• MRC-2.5G-4	(ONS 15454) 4-port MRC 2.5G card
• MRC-2.5G-12	(ONS 15454) 12-port MRC 2.5G card
• OC3	(ONS 15454) OC-3 card
• OC3-8	(ONS 15454) Eight port OC-3 card
• OC12	(ONS 15454) OC-12 card

• OC12-4	(ONS 15454) Four port OC-12 card
• OC48	(ONS 15454 and ONS 15600) OC-48 card
• OC48-16	(ONS 15454) 16 port OC-48 card
• OC192	(ONS 15454, ONS 15600) OC-192 card
• OC192-4	(ONS 15454) Four port OC-192 card
• OC192-XFP	(ONS 15454) One port OC-192 XFP
• OPT-AMP-L	(ONS 15454) Optical preamplifier unit for L-Band
• OPT-BST	(ONS 15454) Optical booster amplifier
• OPT-BST-L	(ONS 15454) Optical booster unit for L-Band
• OPT-PRE	(ONS 15454) Optical preamplifier
• OSC-CSM	(ONS 15454) Optical service channel (OSC) with combiner/separators Module (SCM)
• OSCM	(ONS 15454) Optical service channel module
• PIM-1	(ONS 15600) One port pluggable interface module
• PIM-4	(ONS 15600) Four port pluggable interface module
• PPM-1	(ONS 15454, ONS 15600, ONS 15310-CL, ONS 15310-MA) Pluggable port module with one SFP port
• SHELF	Shelf entity
• SSXC	(ONS 15600) Cross-connect card
• TCC	(ONS 15454) TCC card
• TXP_MR_10E	(ONS 15454) 10-Gbps multirate transponder-100-GHz-tunable xx.xx-xx.xx card
• TXP_MR_10E_C	(ONS 15454) 10-Gbps multirate transponder-100-GHz-tunable xx.xx-xx.xx card for C-band
• TXP_MR_10E-L	(ONS 15454) 10-Gbps multirate transponder-100-GHz-tunable xx.xx-xx.xx card for L-band
• TXP_MR_10G	(ONS 15454) 10-Gbps multirate transponder-100-GHz-tunable xx.xx-xx.xx card
• TXP_MR_2.5G	(ONS 15454) 2.5-Gbps multirate transponder-100-GHz-tunable xx.xx-xx.xx card
• TXPP_MR_2.5G	(ONS 15454) 2.5-Gbps multirate transponder-protected-100-GHz-tunable xx.xx-xx.xx card
• UNKNOWN	Unknown equipment type
• UNPROVISIONED	Unprovisioned type
• XC10G	(ONS 15454) XC10G card
• XCVT	(ONS 15454) XCVT card
• XC-VXC-10G	(ONS 15454) XC-VXC-10G card
<PPMTYPE>	Identifies the pluggable port module type.
• PPM-1	Single-port PPM
<PPMNUM>	Identifies the pluggable port module number.
• 1	PPM No. 1
• 2	PPM No. 2
• 3	PPM No. 3

• 4	PPM No. 4
• 5	PPM No. 5
• 6	PPM No. 6
• 7	PPM No. 7
• 8	PPM No. 8
• 9	PPM No. 9
• 10	PPM No. 10
• 11	PPM No. 11
• 12	PPM No. 12
<PORTNUM>	Identifies the port number, which is used on the entity port with PPM.
• 1	Port No. 1
<PORTRATE>	Identifies the port rate, which is used to specify the port rate of the multi-rate card.
• STM1	STM-1 rate
• STM4	STM-4 rate
• STM16	STM-16 rate