



EX Commands

This chapter provides EX (exercise) commands for the Cisco ONS 15454, ONS 15327, ONS 15600 and ONS 15310-CL.

13.1 EX-SW-<OCN_BLSR>

Exercise Protection Switch (OC12, OC48, OC192)

See [Table 27-1 on page 27-1](#) for supported modifiers by platform.

Usage Guidelines

Cisco ONS 15454, ONS 15327, ONS 15600, ONS 15310-CL

This command exercises the algorithm for switching from a working facility to a protection facility without actually performing a switch. It is assumed that the facility being exercised is the working unit. The exercise switching success or failure result will be indicated by an automatic alarm.

Exercise switch for the SONET protection line is not supported in this release. If sending this command to the protection unit, an error message will be returned. In addition to all normal INPUT, EQUIPAGE, PRIVILEGE error codes, the following error codes are also included in this command:

SNVS (Status, Not in Valid State)

SROF (Status, Requested Operation Failed)

SSRD (Status, Switch Request Denied)



Note

- If you send the EX-SW-<OCN_BLSR> command to both east and west sides/spans of a two-fiber or four-fiber ring within a short time period (less than 30–45 seconds) the system will only execute one (WEST) side EXER-RING query, and preempt the other (EAST) side query. There will be no event messages reported for the preempted side, and it will be in APS-CLEAR switching state.

Examples of sending the EX-SW-<OCN_BLSR> command to both east and west sides/spans of a two-fiber or four-fiber ring within a short time period (less than 30–45 seconds) are: (a) A single command with both side/span AIDs (in the list AID format) of the same two-fiber or four-fiber ring or (b) Separate queries (through TL1 or CTC, or TL1 and CTC) on both sides/spans of the same two-fiber or four-fiber ring

- DIRN is an optional parameter. A NULL value of this parameter defaults to BTH for a two-fiber or four-fiber BLSR protection group.

DIRN follows these rules:

- TRMT will always fail for any kind of protection groups
- For two-fiber and four-fiber BLSR protection groups both the RCV and TRMT direction will fail.
- Only BTH is a valid parameter. EX-SW-<OCN_TYPE> can be operated only on BLSR protection groups.

Category BLSR

Security Maintenance

Related Commands

ALW-SWDX-EQPT	INH-SWTOWKG-EQPT
ALW-SWTOPROTN-EQPT	OPR-LPBK-<MOD2>
ALW-SWTOWKG-EQPT	OPR-PROTNSW-<OCN_TYPE>
CHG-ACCMD-<MOD_TACC>	REPT SW
CONN-TACC-<MOD_TACC>	RLS-LPBK-<MOD2>
DISC-TACC	RLS-PROTNSW-<OCN_TYPE>
DLT-<MOD_RING>	RTRV-<MOD_RING>
DLT-FFP-<MOD2DWDMPAYLOAD>	RTRV-FFP-<MOD2DWDMPAYLOAD>
DLT-FFP-<OCN_TYPE>	RTRV-FFP-<OCN_TYPE>
ED-<MOD_RING>	RTRV-FFP-OCH
ED-FFP-<MOD2DWDMPAYLOAD>	RTRV-PROTNSW-<OCN_TYPE>
ED-FFP-<OCN_TYPE>	RTRV-PTHTRC-<PATH>
ED-FFP-OCH	RTRV-TACC
ENT-<MOD_RING>	RTRV-TRC-<OCN_BLSR>
ENT-FFP-<MOD2DWDMPAYLOAD>	SW-DX-EQPT
ENT-FFP-<OCN_TYPE>	SW-TOPROTN-EQPT
INH-SWDX-EQPT	SW-TOWKG-EQPT
INH-SWTOPROTN-EQPT	

Input Format EX-SW-<OCN_BLSR>:[<TID>]:<AID>:<CTAG>::,[<SWITCHTYPE>],[<DIRECTION>];

Input Example EX-SW-OC48:CISCO:FAC-12-1:123::,SPAN,BTH;

Input Parameters

Table 13-1 EX-SW-<OCN_BLSR> Input Parameters

Parameter and Values	Description
AID	Access identifier from the “ 25.1.14 FACILITY ” section on page 25-28 . Identifies the facility in the NE to which the switch request is directed
SWITCHTYPE	Switch type. Must not be null Parameter type is SWITCH_TYPE—BLSR switch type. MANWKSWBK, MANWKSWPR, FRCDWKSWBK, FRCDWKSWPR, LOCKOUTOFPR, and LOCKOUTOFWK are retrieve-only values for RTRV-PROTNSW-OCn commands. They are not applicable for the OPR-PROTNSW-OCn commands. RING and SPAN are the only allowed values for BLSR protection
• FRCDWKSWBK	Working unit is forced to switch back to working
• FRCDWKSWPR	Working unit is forced to switch to the protection unit
• LOCKOUTOFPR	Lockout of protection
• LOCKOUTOFWK	Lockout of working
• MANWKSWBK	Manual switch of working unit back to working
• MANWKSWPR	Manual switch of working unit back to the protection unit
• RING	BLSR ring switch type
• SPAN	BLSR span switch type
DIRECTION	Direction. A null value defaults to RCV Parameter type is DIRECTION—transmit and receive direction
• BTH	Both transmit and receive directions
• RCV	Receive direction only
• TRMT	Transmit direction only

