



INH Commands

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

14.1 INH-CONSOLE-PORT

Inhibit Console Port

Usage Guidelines	Cisco ONS 15454, ONS 15310-CL This command is used to turn off the console port for the ML-Series cards.																													
Category	Security																													
Security	Superuser																													
Related Commands	<table><tr><td>ACT-USER</td><td>ED-CMD-SECU</td><td>REPT EVT SECU</td></tr><tr><td>ALW-CONSOLE-PORT</td><td>ED-PID</td><td>REPT EVT SESSION</td></tr><tr><td>ALW-MSG-SECU</td><td>ED-PROTOCOL</td><td>RTRV-AUDIT-LOG</td></tr><tr><td>ALW-USER-SECU</td><td>ED-USER-SECU</td><td>RTRV-CMD-SECU</td></tr><tr><td>CANC</td><td>ENT-USER-SECU</td><td>RTRV-CONSOLE-PORT</td></tr><tr><td>CANC-USER</td><td>INH-MSG-SECU</td><td>RTRV-DFLT-SECU</td></tr><tr><td>CANC-USER-SECU</td><td>INH-USER-SECU</td><td>RTRV-USER-SECU</td></tr><tr><td>CLR-COND-SECU</td><td>REPT ALM SECU</td><td>SET-ATTR-SECUDFLT</td></tr><tr><td>DLT-USER-SECU</td><td></td><td></td></tr></table>			ACT-USER	ED-CMD-SECU	REPT EVT SECU	ALW-CONSOLE-PORT	ED-PID	REPT EVT SESSION	ALW-MSG-SECU	ED-PROTOCOL	RTRV-AUDIT-LOG	ALW-USER-SECU	ED-USER-SECU	RTRV-CMD-SECU	CANC	ENT-USER-SECU	RTRV-CONSOLE-PORT	CANC-USER	INH-MSG-SECU	RTRV-DFLT-SECU	CANC-USER-SECU	INH-USER-SECU	RTRV-USER-SECU	CLR-COND-SECU	REPT ALM SECU	SET-ATTR-SECUDFLT	DLT-USER-SECU		
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DLT-USER-SECU																														
Input Format	INH-CONSOLE-PORT:[<TID>]:<AID>:<CTAG>;																													
Input Example	INH-CONSOLE-PORT:CISCONODE:SLOT-2:123;																													

Input Parameters

Table 14-1 INH-CONSOLE-PORT Input Parameters

Parameter and Values	Description
AID	Access identifier from the “25.1.13 EQPT” section on page 25-27.

14.2 INH-MSG-ALL

Inhibit Message All

Usage Guidelines

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

This command inhibits all REPT ALM and REPT EVT autonomous messages from being transmitted. See the ALW-MSG-ALL to resume these autonomous messages. When a TL1 session starts, the REPT ALM and REPT EVT messages are allowed by default.



Note

If this command is used twice in the same session, the SAIN (Already Inhibited) error message is reported.

Category

System

Security

Retrieve

Related Commands

ACT-USER	ED-NE-SYNCN	RTRV-NE-GEN
ALW-MSG-ALL	ED-TRAPTABLE	RTRV-NE-IPMAP
ALW-MSG-DBCHG	ENT-TRAPTABLE	RTRV-NE-PATH
ALW-MSG-SECU	INH-MSG-DBCHG	RTRV-NE-SYNCN
DLT-TRAPTABLE	INH-MSG-SECU	RTRV-NE-WDMANS
ED-DAT	INIT-SYS	RTRV-TOD
ED-NE-GEN	RTRV-HDR	RTRV-TRAPTABLE
ED-NE-PATH	RTRV-INV	SET-TOD

Input Format

INH-MSG-ALL:[<TID>]:[<AID>]:<CTAG>[:.,,];

Input Example

INH-MSG-ALL:PETALUMA:ALL:550;

Input Parameters**Table 14-2** *INH-MSG-ALL Input Parameters*

Parameter and Values	Description
AID	Access identifier from the “25.1.1 ALL” section on page 25-1

14.3 INH-MSG-DBCHG

Inhibit Database Change Message

Usage Guidelines

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

This command disables REPT DBCHG.

Category

Log

Security

Retrieve

Related Commands

ACT-USER	ED-NE-SYCN	RTRV-NE-GEN
ALW-MSG-ALL	ED-TRAPTABLE	RTRV-NE-IPMAP
ALW-MSG-DBCHG	ENT-TRAPTABLE	RTRV-NE-PATH
ALW-MSG-SECU	INH-MSG-ALL	RTRV-NE-SYCN
DLT-TRAPTABLE	INH-MSG-SECU	RTRV-NE-WDMANS
ED-DAT	INIT-SYS	RTRV-TOD
ED-NE-GEN	RTRV-HDR	RTRV-TRAPTABLE
ED-NE-PATH	RTRV-INV	SET-TOD

Input Format

INH-MSG-DBCHG:[<TID>]::<CTAG>[:.,,];

Input Example

INH-MSG-DBCHG:CISCO::123;

Input Parameters**Table 14-3** *INH-MSG-DBCHG Input Parameters*

Parameter and Values	Description
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14.4 INH-MSG-SECU

Inhibit Message Security

Usage Guidelines Cisco ONS 15454, ONS 15327, ONS 15600, ONS 15310-CL
This command inhibits the REPT EVT SECU and REPT ALM SECU autonomous messages.

Category Security

Security Superuser

Related Commands	ACT-USER	ED-NE-SYCN	RTRV-NE-GEN
	ALW-MSG-ALL	ED-TRAPTABLE	RTRV-NE-IPMAP
	ALW-MSG-DBCHG	ENT-TRAPTABLE	RTRV-NE-PATH
	ALW-MSG-SECU	INH-MSG-ALL	RTRV-NE-SYCN
	DLT-TRAPTABLE	INH-MSG-DBCHG	RTRV-NE-WDMANS
	ED-DAT	INIT-SYS	RTRV-TOD
	ED-NE-GEN	RTRV-HDR	RTRV-TRAPTABLE
	ED-NE-PATH	RTRV-INV	SET-TOD

Input Format INH-MSG-SECU:[<TID>]::<CTAG>[:,,];

Input Example INH-MSG-SECU:PETALUMA::123;

Input Parameters *Table 14-4 INH-MSG-SECU Input Parameters*

Parameter and Values	Description
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14.5 INH-PMREPT-ALL

Inhibit Performance Report All

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

This command inhibits all scheduled PM reporting. Inhibiting PM reporting is session-based, which means the command is only effective to the TL1 session that issues this command. By default, the scheduled PM reporting is inhibited by a TL1 session.

A TL1 session for which PM reports are inhibited will include an INHMSG-PMREPT condition when issuing TL1 command RTRV-COND-ALL.

Category Performance

Security Retrieve

Related Commands		
ALW-PMREPT-ALL		RTRV-PMSCHED-ALL
DLT-RMONTH-<MOD2_RMON>		RTRV-RMONTH-<MOD2_RMON>
ENT-RMONTH-<MOD2_RMON>		RTRV-TH-<MOD2>
INIT-REG-<MOD2>		RTRV-TH-ALL
REPT PM <MOD2>		SCHED-PMREPT-<MOD2>
RTRV-PM-<MOD2>		SET-PMMODE-<STS_PATH>
RTRV-PMMODE-<STS_PATH>		SET-TH-<MOD2>
RTRV-PMSCHED-<MOD2>		

Input Format INH-PMREPT-ALL:[<TID>]::<CTAG>;

Input Example INH-PMREPT-ALL:NE-NAME::123;

Input Parameters

Table 14-5 INH-PMREPT-ALL Input Parameters

Parameter and Values	Description
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14.6 INH-SWDX-EQPT

Inhibit Switch Duplex Equipment

Usage Guidelines Cisco ONS 15454

This command inhibits automatic or manual switching on a system containing duplex equipment. Use the ALW-SWDX command to release the inhibit. This command is not used for SONET line protection switching. For SONET line/path protection switching commands, use the OPR-PROTNSW and RLS-PROTNSW commands. This command is not used for 1:1 and 1:N equipment protection switching, use ALW-SWTOPROTN, ALW-SWTOWKG, INH-SWTOPROTN, INH-SWTOWKG commands.

**Note**

This command applies for XCVT, XC10G, XC-VXC-10G equipment units only in this release.

**Note**

When sending this command to a TCC2/TCC2P card, an error message will occur because the NE treats the TCC2/TCC2P as a non-revertive protection group without user control.

Category

Equipment

Security

Maintenance

Related Commands

ALW-SWDX-EQPT	INH-SWTOPROTN-EQPT	RTRV-COND-EQPT
ALW-SWTOPROTN-EQPT	INH-SWTOWKG-EQPT	RTRV-EQPT
ALW-SWTOWKG-EQPT	REPT ALM EQPT	SET-ALMTH-EQPT
DLT-EQPT	REPT EVT EQPT	SW-DX-EQPT
ED-EQPT	REPT SW	SW-TOPROTN-EQPT
ENT-EQPT	RTRV-ALM-EQPT	SW-TOWKG-EQPT
EX-SW-<OCN_BLSR>	RTRV-ALMTH-EQPT	

Input Format

INH-SWDX-EQPT:[<TID>]:<AID>:<CTAG>[::];

Input Example

INH-SWDX-EQPT:CISCO:SLOT-8:1234;

Input Parameters

Table 14-6 *INH-SWDX-EQPT Input Parameters*

Parameter and Values	Description
AID	Access identifier from the “25.1.13 EQPT” section on page 25-27 . XCVT/XC10G equipment AID (Slot 8 or Slot 10)

14.7 INH-SWTOPROTN-EQPT

Inhibit Switch to Protection Equipment

Usage Guidelines

Cisco ONS 15454

This command inhibits automatic or manual switching of an equipment unit to protection. Use the ALW-SWTOPROTN-EQPT command to release the inhibit.

INH-SWTOPROTN-EQPT is used for electrical cards that could participate in an electrical protection group (for example, DS1, DS3, DS3XM and EC1 cards). DS1 and DS3 cards have 1:1 and 1:N equipment protection. DS3XM and EC1 cards have only 1:1 equipment protection. When performing a lockout with this command, the traffic will be switched from the unit specified by the AID, unless the working unit being protected has failed or is missing. When performing a lock on with this command and the working unit specified in the AID is in standby, sending this command will also initiate a traffic switch. When traffic is locked on a working unit or locked out of the protection unit with this command, the protection unit will not carry traffic, even if the working unit is pulled from the system.

Sending this command to a working unit in a 1:N protection group does not prevent a protection switch from another working unit in the same protection group. All the working units must be sent this command to prevent a protection switch. If the command is sent only to a subset of the working units, only those working units will have traffic locked on.

The inhibit state is persistent over TCC2/TCC2P side switches and removal/reboot of all the units in the protection group. The inhibit state can, but does not have to be persistent over a complete power cycle of the NE.

The unit specified by the AID will raise the condition of INHSWPR when this command is sent.

The following actions will produce errors:

- This command only supports one value of the <DIRN> parameter - BTH. A command with any other value is considered an incorrect use of the command and will return an IDNV (Input, Data Not Valid) error message.
- This command is not used for the common control (TCC2/TCC2P or XCVT/XC10G) cards. A command on a common control card will return an IIAC (Input, Invalid Access Identifier) error message. To use the common control card switching commands, use the SW-DX-EQPT and ALW-SWDX-EQPT commands.
- This command is not used for SONET (OC-N) cards. A command on a SONET card will return an IIAC (Input, Invalid Access Identifier) error message. To use a SONET card switching command, use the OPR-PROTNSW and RLS-PROTNSW commands.
- Using this command on a card that is not in a protection group will return the SNVS (Status, Not in Valid State) error message.
- Using this command on a card that is already in the inhibit state will return the SAIN (Status, Already Inhibited) error message.
- Sending the inhibit switch to protection command to a working card when the protect card in the same protection group has already raised the condition of INHSWWKG will return the SPLD (Status, Protection unit Locked) error message.
- Sending the inhibit switch to protection command to the protect card when a working card in the same protection group has already raised the condition of INHSWWKG will return the SWLD (Status, Working unit Locked) error message.
- Sending the inhibit switch to protection command to an active protect card when the peer working card is failed or missing will return the SWFA (Status, Working unit Failed) error message.
- The following situation(s) are allowed and will not generate any error response: sending this command to missing cards as long as none of the previous error conditions apply.



Note

This command only supports one value of the <DIRN> parameter - BTH.

Category

Equipment

Security

Maintenance

Related Commands

ALW-SWDX-EQPT	INH-SWDX-EQPT	RTRV-COND-EQPT
ALW-SWTOPROTN-EQPT	INH-SWTOWKG-EQPT	RTRV-EQPT
ALW-SWTOWKG-EQPT	REPT ALM EQPT	SET-ALMTH-EQPT
DLT-EQPT	REPT EVT EQPT	SW-DX-EQPT
ED-EQPT	REPT SW	SW-TOPROTN-EQPT
ENT-EQPT	RTRV-ALM-EQPT	SW-TOWKG-EQPT
EX-SW-<OCN_BLSR>	RTRV-ALMTH-EQPT	

Input Format

INH-SWTOPROTN-EQPT:[<TID>]:<AID>:<CTAG>[::<DIRN>];

Input Example

INH-SWTOPROTN-EQPT:CISCO:SLOT-2:123::BTH;

Input Parameters**Table 14-7** INH-SWTOPROTN-EQPT Input Parameters

Parameter and Values	Description
AID	Access identifier from the “25.1.13 EQPT” section on page 25-27. This AID can either be the working unit for which switching to protection is inhibited (lock on) or the protection unit for which carrying traffic is to be inhibited (lockout)
DIRN	The direction relative to the entity defined in the AID field. The direction of the switching. This command only supports the BTH value of this parameter. DIRN defaults to BTH Parameter type is DIRECTION—transmit and receive directions
• BTH	Both transmit and receive directions

14.8 INH-SWTOWKG-EQPT

Inhibit Switch to Working Equipment

Usage Guidelines

Cisco ONS 15454

This command inhibits automatic or manual switching of an equipment unit back to the working unit. Use the ALW-SWTOWKG-EQPT command to release the inhibit.

INH-SWTOWKG-EQPT is used for electrical cards that could participate in an electrical protection group (for example, DS1, DS3, DS3XM and EC1 cards). DS1 and DS3 cards have 1:1 and 1:N equipment protection. DS3XM and EC1 cards have only 1:1 equipment protection. When performing a lock-out with this command, the traffic will be switched from the unit specified by the AID, unless the protection unit has failed or is missing. When performing a lock-on with this command and the protection unit specified in the AID is in standby, sending this command will initiate a traffic switch only

when there is one working card in the protection group. In the case where there is more than one working card in the protection group, an error will be generated (see error conditions below). When traffic is locked on the protection unit or locked out of a working unit with this command, the working unit will not carry traffic, even if the protection unit is pulled from the system.

The inhibit state is persistent over TCC2/TCC2P side switches and removal/reboot of all the units in the protection group. The inhibit state can but does not have to be persistent over a complete power cycle of the NE.

The unit specified by the AID will raise the condition of INHSWWKG when this command is sent.

The following actions will return error messages:

- The command only supports one value of the <DIRN> parameter - BTH. A command with any other value is considered an incorrect use of the command and will return An IDNV (Input, Data Not Valid) error message.
- This command is not used for the common control (TCC2/TCC2P or XCVT/XC10G) cards. A command on a common control card will return an IIAC (Input, Invalid Access Identifier) error message. To use the common control card switching commands, use the SW-DX-EQPT and ALW-SWDX-EQPT commands.
- This command is not used for SONET (OCN) cards. A command on a SONET card will return an IIAC (Input, Invalid Access Identifier) error message. To use a SONET card switching command, use the OPR-PROTNSW and RLS-PROTNSW commands.
- Using this command on a card that is not in a protection group will return the SNVS (Status, Not in Valid State) error message.
- Using this command on a card that is already in the inhibit state will return the SAIN (Status, Already Inhibited) error message.
- Sending this command to a working card when the protect card in the same protection group has already raised the condition of INHSWPR will return the SPLD (Status, Protection unit Locked) error message.
- Sending the INH-SWTOWKG command to a protect card when a working card in the same protection group has already raised the condition of INHSWPR will return the SWLD (Status, Working unit Locked) error message.
- Sending the INH-SWTOWKG command to an active working card when the protect card has failed or is missing will return the SPFA (Status, Protection unit Failed) error message.
- Sending the INH-SWTOWKG command to an active working card when the protect card is already carrying traffic (this only occurs in a 1:N protection group with N greater than one) will return the SPAC (Status, Protection unit Active) error message.
- The following situation is allowed and will not generate any error response: Sending this command to missing cards as long as none of the previous error conditions apply.

Category

Equipment

Security

Maintenance

Related Commands

ALW-SWDX-EQPT	INH-SWDX-EQPT	RTRV-COND-EQPT
ALW-SWTOPROTN-EQPT	INH-SWTOPROTN-EQPT	RTRV-EQPT
ALW-SWTOWKG-EQPT	REPT ALM EQPT	SET-ALMTH-EQPT
DLT-EQPT	REPT EVT EQPT	SW-DX-EQPT
ED-EQPT	REPT SW	SW-TOPROTN-EQPT
ENT-EQPT	RTRV-ALM-EQPT	SW-TOWKG-EQPT
EX-SW-<OCN_BLSR>	RTRV-ALMTH-EQPT	

Input Format

INH-SWTOWKG-EQPT:[<TID>]:<AID>:<CTAG>[:<DIRN>];

Input Example

INH-SWTOWKG-EQPT:CISCO:SLOT-2:123::BTH;

Input Parameters

Table 14-8 *INH-SWTOWKG-EQPT Input Parameters*

Parameter and Values	Description
AID	Access identifier from the “25.1.13 EQPT” section on page 25-27 . This AID can either be the working unit for which switching to protection is inhibited (lock on) or the protection unit for which carrying traffic is to be inhibited (lockout)
DIRN	The direction relative to the entity defined in the AID field. The direction of the switching. This command only supports the BTH value of this parameter. DIRN defaults to BTH Parameter type is DIRECTION—transmit and receive directions
• BTH	Both transmit and receive directions

14.9 INH-USER-SECU

Inhibit User Security

Usage Guidelines

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

This command disables (without deleting) a user account, so the user is denied access to the NE. The user is disabled until reenabled by the ALW-USER-SECU command.

**Note**

This command does not forcibly log a user off. If the user is logged in, changes do not apply until after the user has logged off.

**Note**

The user is disabled until enabled using the corresponding ALW command.

Category Security

Security Superuser

Related Commands	ACT-USER	DLT-USER-SECU	REPT EVT SECU
	ALW-MSG-SECU	ED-CMD-SECU	REPT EVT SESSION
	ALW-USER-SECU	ED-PID	RTRV-CMD-SECU
	CANC	ED-USER-SECU	RTRV-DFLT-SECU
	CANC-USER	ENT-USER-SECU	RTRV-USER-SECU
	CANC-USER-SECU	INH-MSG-SECU	SET-ATTR-SECUDFLT
	CLR-COND-SECU	REPT ALM SECU	

Input Format INH-USER-SECU:[<TID>]::<CTAG>::<UID>;

Input Example INH-USER-SECU:PETALUMA::123::CISCO100;

Input Parameters

Table 14-9 INH-USER-SECU Input Parameters

Parameter and Values	Description
UID	User identifier. String

