

The following display shows a typical result of entering **save translation** on a duplex system.

```
save translation

                                SAVE TRANSLATION

Processor      Command      Completion Status

SPE-A         Success
SPE-A         Success

Command Successfully Completed
```

## set options

This command allows the user to administer whether certain alarms are reported to INADS or whether they are downgraded to a minor alarm, warning alarm, or no alarm.

### Synopsis

**set options**

### Permissions

The following default logins may execute this command: **inads, init**.

### Examples

**set options**

### Description

This special command enables the technician (that is, remote user with INADS permission) to select which types of maintenance categories report alarms automatically and which types require the customer to call in. Judicious use of this command can reduce the number of ineffective alarms to the TSC. For the **set options** command to be effective, the default settings specified in this section should always be used. These settings are not intended to be changed on a per-system basis. Special circumstances (for example, special studies) may require temporary changes under the guidance of Tiers 3 and 4.

NOTE: Alarms can't be upgraded.

## Defaults

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Initially, the alarm reporting options for On-board Trunk Alarms (Alarm Group 1), both Major and Minor, are set to “yes” (y); all others are set to “warning” (w). All trunk groups are associated with alarm severity group 1 by default.

## Parameters

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None.

## Help Messages

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If the user presses HELP after entering **set options**, the following message is displayed:

```
Entry is not required
```

## Error Messages

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If the command entered is in conflict with another currently executing command, then a message is displayed showing the login id of the conflicting user and the conflicting command. The message is as follows:

```
'login id': 'command' has a command conflict
```

If during the execution of a command a resource problem occurs that requires the user to restart the command, then the following message is displayed:

```
Command resources busy;  
Press CANCEL to clear, and then resubmit
```

If all of the available maintenance resources are currently in use, then the following message is displayed:

```
All maintenance resources busy; try again later
```

## Form Input

After entering the command **set options**, the user is presented with the following form.

set options

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### ALARM REPORTING OPTIONS

	Major	Minor
On-board Station Alarms:	w	w
Off-board Station Alarms:	w	w
On-board Trunk Alarms (Alarm Group 1):	y	y
Off-board Trunk Alarms (Alarm Group 1):	w	w
On-board Trunk Alarms (Alarm Group 2):	w	w
Off-board Trunk Alarms (Alarm Group 2):	w	w
On-board Trunk Alarms (Alarm Group 3):	w	w
Off-board Trunk Alarms (Alarm Group 3):	w	w
On-board Trunk Alarms (Alarm Group 4):	w	w
Off-board Trunk Alarms (Alarm Group 4):	w	w
On-board Adjunct Alarms:	w	w
Off-board Adjunct Alarms:	w	w
Off-board DSL Alarms:	w	w
Off-board PGATE-PT Alarms:	w	w
Off-board Alarms (Other):	w	w

set options

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### TRUNK GROUP ALARM OPTIONS (Alarm Group)

01: 1	11: 1	21: 1	31: 1	41: 1	51: 1	61: 1	71: 1	81: 1	91: 1
02: 1	12: 1	22: 1	32: 1	42: 1	52: 1	62: 1	72: 1	82: 1	92: 1
03: 1	13: 1	23: 1	33: 1	43: 1	53: 1	63: 1	73: 1	83: 1	93: 1
04: 1	14: 1	24: 1	34: 1	44: 1	54: 1	64: 1	74: 1	84: 1	94: 1
05: 1	15: 1	25: 1	35: 1	45: 1	55: 1	65: 1	75: 1	85: 1	95: 1
06: 1	16: 1	26: 1	36: 1	46: 1	56: 1	66: 1	76: 1	86: 1	96: 1
07: 1	17: 1	27: 1	37: 1	47: 1	57: 1	67: 1	77: 1	87: 1	97: 1
08: 1	18: 1	28: 1	38: 1	48: 1	58: 1	68: 1	78: 1	88: 1	98: 1
09: 1	19: 1	29: 1	39: 1	49: 1	59: 1	69: 1	79: 1	89: 1	99: 1
10: 1	20: 1	30: 1	40: 1	50: 1	60: 1	70: 1	80: 1	90: 1	100: 1



### NOTE:

The remaining Trunk Group information is shown on the next 6 pages and is not documented in this Manual.

On the first page of the Alarm Reporting Options Form, the user selects the alarm severity options for station alarms, the four trunk alarm severity groups, the adjunct alarms, off-board DS1 alarms, off board PGATE-PT alarms, and other off-board alarms. On the second page, known as the Alarm Reporting Options Form, the user assigns an alarm severity group to each trunk group. This feature enables the technician to reduce the level of alarms reported for on-board or off-board trouble conditions.

The following alarm options are available:

- Minor

Alarms are raised as maintenance testing discovers them but the severity of the alarm is downgraded to a minor. Alarmed resources that would have normally been taken out of service are still taken out of service. LEDs on the port board and maintenance board follow the normal Minor alarm LED strategy and there is a call to the receiving OSS.

- Warning

Alarms are raised as maintenance testing discovers them, but the severity of the alarm is downgraded to a warning. The advantage to the technician here is that the Alarm Log can still be used to pinpoint trunk or station problems reported by the customer. Alarmed resources that would normally have been taken out-of-service are still taken out-of-service. Alarm LEDs light on the port circuit pack and Maintenance circuit pack as before, but no attendant LEDs or stations reporting alarms are affected. There is no call to INADS.

- Report

This option treats the alarms in the same way as the warning category with one exception: alarms are reported to INADS using a special WARNING category. When an alarm of this type is received, INADS logs the occurrence and either creates a trouble ticket or closes it immediately. The retry strategy for a call of this type is similar to normal Major or Minor alarm reports. However, the acknowledgment LED on the attendant console or alarm reporting station does not reflect the status of the call.

- Yes

Alarms are raised in the normal manner. There is no filtering of alarm data.

- No

Alarms raised on a trunk, station, or adjunct in this category are dropped. Error information is provided as before, but there is no trace of an alarm. There is no LED activity and no call to INADS. Because resources are taken out-of-service without any record, this option is recommended only when other options do not provide the desired result.

The alarm options can be administered only on a system-wide basis for the following alarm categories:

- Major on-board station alarms
- Minor on-board station alarms
- Major off-board station alarms
- Minor off-board station alarms

Four alarm severity groups are provided for trunk alarms. You can administer the alarm options for the categories listed below in each alarm severity group. However, in G1, the alarm options can be administered only on a system-wide basis for the following categories:

- Major on-board trunk alarms
- Minor on-board trunk alarms
- Major off-board trunk alarms
- Minor off-board trunk alarms

For Adjuncts, an alarm severity option is assigned to each of the following categories:

- Major on-board adjunct alarms
- Major off-board adjunct alarms
- Minor on-board adjunct alarms
- Minor off-board adjunct alarms

You can also administer the options on a system-wide basis for Minor off-board DS1 Interface circuit pack alarms.

Alarm reporting options information in the Alarm Reporting Options Form is considered translation data and, thus, is preserved through all levels of restart.

This feature affects the alarming of the MOs listed below. Neither the trunk nor the station category applies to alarms raised on the common portion of the circuit pack.

In all cases, if the option associated with the alarm type is set to "n," the alarm report is dropped. All error information about the alarm is intact, but there is no record of an alarm and no LEDs light on the port circuit pack, the Maintenance circuit pack, the attendant console, or alarm reporting station to indicate a problem.

If the option is set to "warning" or "report," port circuit pack LEDs and LEDs on the Maintenance circuit pack are affected the same as normal warning alarms.

The default parameters are as follows:

- Downgrade all station, trunk (except on-board trunk alarms), and Minor DS1-BD alarms to warning alarms.
- On-board Major and Minor trunk alarms, should continue to raise alarms and report to INADS.

## Station MOs Affected By This Command

### ⇒ NOTE:

Although alarms on these MOs may appear as warnings, the alarms should be investigated with user-reported problems.

- Analog Lines (ANL-LINE, ANL-NE-L, ANL-16-L)
- Digital Lines (DIG-LINE)
- Hybrid Lines (HYB-LINE)
- MET Lines (MET-LINE)
- ISDN-BRI Lines (BRI-PORT, BRI-SET)

Trunk maintenance is characterized by an escalation of a Minor alarm to a Major alarm if more than 75 percent of the members of the trunk group are alarmed. If the option for the trunk category is set to "warning," "minor," "report," or "no," this no longer happens. Maintenance removes an individual trunk member out-of-service according to the normal criteria used for Major and Minor alarms.

## Trunk MOs Affected By This Command:

### ⇒ NOTE:

Although alarms on these MOs may appear as warnings, the alarms should be investigated with user-reported problems.

- Auxiliary Trunks (AUX-TRK)
- Central Office Trunks (CO-TRK)
- Direct Inward Dialing Trunks (DID-TRK)
- Direct Inward and Outward Dial Trunks (DIOD-TRK)[G1.2SE only]
- DS1 Central Office Trunks (CO-DS1)
- DS1 Direct Inward Dialing Trunks (DID-DS1)
- DS1 Tie Trunks (TIE-DS1)
- ISDN Trunks (ISDN-TRK)
- Tie Trunks (TIE-TRK)

## Circuit Pack MOs Affected By This Command

### ⇒ NOTE:

Although alarms on these MOs may appear as warnings, the alarms should be investigated with user-reported problems.

### ⇒ NOTE:

Trunks that are not members of Trunk Groups, (e.g. PCOLs) are downgraded according to the alarm severity of group one.

- DS1 Interface Circuit Pack (DS1-BD)

## Adjunct-Related MOs Affected by this Command

### ⇒ NOTE:

Although alarms on these MOs may appear as warnings, the alarms should be investigated with user-reported problems.

- ASAI Adjunct (ASAI-ADJ)
- Lucent Adjunct Port (ATT-PORT)
- Ethernet ASAI Port (LGATE-PT)
- Ethernet ASAI Adjunct (LGATE-AJ)
- Ethernet Lucent Port (ATTE-PT)
- Ethernet Lucent Adjunct (ATTE\_AJ)
- ISDN-BRI Ports connected to Adjuncts (ABRI-PORT)

Although adjuncts are administered as stations, the administration of alarm severity for the station alarm group does not affect the alarm severity levels of the adjuncts. Similarly, the administration of alarm severity for the adjunct alarm group does not affect the alarm severity levels for other types of stations.

## PGATE-PT and associated Link MOs Affected by this Command

### ⇒ NOTE:

Although alarms on these MOs may appear as warnings, the alarms should be investigated with user-related problems.

- *See Packet Gateway Port (PGATE-PT) for other Link associated MOs affected by this Command*

### ⇒ NOTE:

Although alarms on these MOs may appear as warnings, the alarms should be investigated with user-related problems.

- EPN Maintenance Circuit Pack (MAINT)

- Expansion Interface (EXP-INTF)
- ISDN-PRI Signaling Group (ISN-SGR)
- Journal Printer (JNL-PRNT)
- PMS Link (PMS-LINK)
- PMS log printer (PMS-LOG)
- Primary CDR Link (PRI-CDR)
- Secondary CDR Link (SEC-CDR)
- SPE Select Switches (SPE-SELEC)
- Synchronization (SYNC)
- Packet Gateway Port (PGATE-PT)
- System Printer (SYS-PRNT)
- TDM Clock (TDM-CLK)
- Tone Generator Circuit Pack (TONE-BD)

## Field Help

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Since all fields on the first page may have the same values, then pressing HELP in any field on the first page presents the following field help message:

```
m(inor) n(o) r(eport) w(arning) y(es)
```

The following is a description of the values:

m(inor)	Downgrade the major alarm to a minor alarm and report the alarm to INADS.
n(o)	Do not log the alarm or report it to INADS.
r(eport)	Downgrade the alarm to a warning and report the warning to INADS.
w(arning)	Downgrade the alarm to a warning, log it but do not report the alarm to INADS.
y(es)	Log and report the alarm to INADS.

All fields on page 2 may have the same values. Pressing HELP in any field on page 2 gives the following field help message:

```
Enter alarm group number: 1 to 4
```

The alarm group number is a way of distinguishing four different groups of alarms. These alarm groups allow the user to specify that alarms in different groups are handled differently from those in other groups.



## Field Error Messages

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All of the fields on the first page allow the same values. Only one error message is printed for all first page fields. If the value is not one of the listed characters (m,n,r,w, or y) then the following message is displayed:

```
"X" is an invalid entry; please press HELP key
```

All of the fields on page 2 allow the same values. If the value in one of these fields is not numeric, the following message is displayed:

```
Entry must be all digits
```

All of the fields on pages page 2 allow the same values. If the value in one of these fields is a digit other than 1, 2, 3, or 4, the following message is displayed:

```
Entry out of range
```

## Output

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After the user has entered in the changes to the options and pressed SUBMIT, the following message appears at the bottom of the screen:

```
Command successfully completed
```

## Feature Interactions

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None.

## set pnc

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### **set pnc lock | unlock**

On Critical Reliability systems (duplicated PNC), **set pnc lock** locks the active port network connectivity in the active state. PNC interchanges will be prevented and the active port network connectivity will remain active regardless of its state of health. Duplicate call setup will still take place, though the standby is not available for service. This condition can also be initiated by the **reset pnc interchange override-and-lock** command. You can tell if the PNC is locked by looking at the Software Locked? field on the **status pnc** screen. (The Interchange Disabled? field refers to the antithrashing mechanism.)

**Set pnc unlock** releases the lock and enables subsequent interchanges to take place.