



**GHTROUT**

PROMPTS	RESPONSES
TIME	<p>Timers</p> <p>icf xxxxx - incoming flash (icf) timer. Any onhook persisting for xxxxx ms is assumed to be a valid disconnect. Range 0-32,640 ms Default 512 ms.</p> <p>Note: icf should not be set to zero for a loop start trunk route since it does not give disconnect supervision.</p> <p>Recommended settings: Electronic CC - 384 ms Step-by-Step CC - 512 ms Cross-Bar CC - 512 ms CAS - minimum 1024 ms</p> <p>If this timer is set too low, premature disconnects will occur. Similarly, if it is set too high (i.e. longer than the CC disconnect time) another call could seize the trunk before the timer has paged a valid call and released the station end.</p> <p>oqf xxxxx - outgoing flash (oqf) timer. Refer to 'icf' timer for detail. Not applicable to Tie Trunk routes where near end disconnect control (NEDC) is the SL-1 (oqf). Default is 512 ms.</p> <p>eod xxxxx - end of dial (eod) timer. Dialing is assumed complete after xxxxx ms have elapsed without additional digits being received for outpulsing.</p> <p>Range 128-32640 ms Default 13952 ms</p> <p>If the time period is set too short, there is a risk of the tone and digit switch being released before the completion of outpulsing. Conversely, if the period is too long, the equipment is in use unnecessarily. This timer is applicable to calls from non-DIGITONE sets or trunks.</p>

PROMPTS

RESPONSES

dsi xxxxx - disconnect supervision error (dsi) timer. If disconnect supervision is not received by xxxxx ms, then supervision failure is assumed.  
Range 128 - 65408 ms  
Default 45000 ms

Note: 'dsi' timers should be set to 512 ms for dictation trunks to avoid unnecessary busying out of trunks.

This timer supervises the 'oof' and 'icf' times. If a valid disconnect is not received from these timers, then the 'dsi' timer starts timing.

When a supervision failure occurs, a TRK 1x6 message is printed on the TTY. Too short a 'dsi' setting will cause erroneous TRK 1x6 messages.

nrd xxxxx - no ringing detector change (nrd) timer.

Range 128-65408 ms  
Default 10112 ms

This timer monitors disconnect on unanswered or abandoned incoming CC/FX/WATS trunk calls. On loop start trunks this is the only monitor for such calls where as for ground start trunks, it serves as a back-up mechanism.

The timer should be set four seconds longer than the ringing period which is normally six seconds. When the period (specified by the setting) expires, the timer will trigger a trunk disconnect sequence. Too small a default value can cause disconnects. Too great a value can delay release of the trunk if the ringing has stopped.

FROMETS

RESPONSES

On a ground start trunk, if the call goes cn-hook, the 'nrd' is overridden by the 'icf' timer, which has recognized a valid disconnect after the specified timer value has elapsed. The call is cancelled and not presented to the console.

On a loop start trunk, the 'nrd' timer is not overridden by the 'icf' timer. The 'icf' does not time since the loop start trunk does not give disconnect supervision. Therefore, the timecut period is the setting of the 'nrd' timer.

ddl xxx - dial delay option  
Messages are ignored for xxx ms after a Tie/DID/CCSA trunk becomes ready to accept incoming dial pulses. This delay is used to prevent any reflected wink or delay dial signals, etc. from being counted as dial pulses.

Range 0 - 511 ms  
Default 70 ms

odt xxxxx - end of dialing (odt) timer. Dialing is assumed complete after xxxxx ms have elapsed without additional digits being received for outpulsing.

Range 256 - 16128 ms (X09)  
Range 128 - 8192 ms (X03/4/5)  
Default 4000 ms

This timer is applicable to DIGITONE sets or trunks. Too brief a call period can cut off a call before the calling party can speak to the called party, although the called party can be heard by the caller. This problem occurs when the call is answered promptly at the distant end.

The setting of the timer determines how long the DIGITONE receiver will stay connected.

# PROGRAM 16 (Continued)

## PROMPTS

## RESPONSES

The operation of the octcthorp (#) key, on an outgoing call, cancels the 'odt' timer.

rgv\* xxxxx - ring validation (rgv) timing. Ringing signal is assumed to be valid if first signal lasts xxxxx ms.

Range 128 - 1920 ms  
Default 640 ms

ato\* xxxxx - ANI timeout (ato)  
ANI timeout (or second wink) occurs xxxxx ms following the outpulsing of the last digit. Printed for CAM trunk routes only.

Range 128 - 65408 ms  
Default 4,992 ms

flb\* xxxxx - Flash (flb) timer

CAS (main) signal to CAS remote, using signal remote key on consoles, is considered a valid flash signal if it persists for xxxx ms. This has to be set equal to, or less than 'cgf' to prevent disconnection of the RLT.

Range 0 - 32,640 ms  
Default 512 ms

grd\* xxxxx - Guard (grd) timer

Prevents seizure of an RLT at a CAS remote for xxxxx ms, following a valid disconnect from the CAS main.

Range 0 - 32,640 ms  
Default 896 ms

## PRCMPTS

## RESPONSES

## NEDC

## Near End Disconnect Control

- enter eth - if the far end goes on-hook on incoming or outgoing calls, the SI-1 recognizes the on-hook condition and disconnects the call.
- org - incoming calls - if the far-end goes on-hook, the SI-1 recognizes the on-hook condition and disconnects the call.
- outgoing calls - the SI-1 ignores a far end condition. The outgoing trunk is under control of the near end (station, tie trunk etc.,).
- Defaults
- Tie trunks and CCSA lines - org  
CO/FX/WATS (Ground start) DID - eth
- Note: Loop start trunks may be assigned eth or org since the entry is irrelevant for this type of trunk.

## FEDC

## Far End Disconnect Control

The entry for FEDC is used to control incoming trunk to outgoing trunk connections in order to prevent lock-up situations due to far end signaling limitations. The FEDC entry should correspond to the type of control used at the far end.

- enter eth/org - allows trunk to trunk connections subject to normal switched access restrictions (TGAF etc.,).
- jnt - disallows incoming to outgoing trunk connections.
- fec - when the near end goes on-hook first, the DSI (half disconnect) timer starts. When timed out (lock-out) an on-hook signal is sent to the far end.

# PROGRAM 16 (Continued)

## PROMPTS

## RESPONSES

When the far end goes on-hook while in half-disconnect, the SL-1 recognizes the on-hook, cancels the DSI timer and idles the trunk.

When the far end sends an on-hook signal while locked out, the SL-1 idles the trunk immediately. Default is crq.

Note: Loop start trunks may be assigned any one of crq, jst or eth since the entry is irrelevant for this type of trunk.

DLTN

Dial Tone

yes - dial tone to be supplied on originating calls, (Tie, DID and CCSA only)

no (default) - no dial tone supplied on originating calls (Tie, DID and CCSA only)

ANDT\*

ANI Dial Tone

yes - dial to be supplied on CAMA trunk routes.

no (default) - no dial tone supplied.

### Thresholds

The following five problem thresholds may be set to monitor ringing failure, failure to seize, failure to hold, illegal rings and supervision failures on each trunk route. The threshold levels may be varied from 20% to 98% depending upon the degree of sensitivity required (see Tables 2-C, 2-E, 2-F).