Task Oriented Practice (TOP)
4ESS™ Switch With 1B Processor
Expanded Time Slot Interchange (XTSI)
Growth/Degrowth

1. General

1.001 This addendum supplements TOP 234-353-035, Issue 4 and replaces 234-353-035 Addendum Issue 1.

1.002 This addendum is being issued to add field comments to this TOP.

2. Attachments

2.001 Place this pink sheet in front of the practice. Insert the attached pages in place of the corresponding numbered pages:

- NTP-004, Page 31 (Revised) and NTP-004, Page 32 (Revised)
- NTP-004, Page 53 (Revised) and NTP-004, Page 54 (Revised)
- DLP-568, Page 1 (Revised) and DLP-568, Page 2 (Revised)
- DLP-568, Page 3 (Revised) and Blank Page
- DLP-577, Page 1 (Revised) and DLP-577, Page 2 (Revised)
- DLP-577, Page 3 (Revised) and DLP-577, Page 4 (Revised)
- DLP-618, Page 1 (Revised) and DLP-618, Page 2 (Revised)
- CKL-891, Page 1 (Revised) and CKL-891, Page 2 (Revised)

3. Issuing Organization

Published by
Lucent Technologies Customer Training and Information Products

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
159	At 1B Processor MTC terminal, restore TMSP CONTR (Step 157) to service (**RST:TMSP** a**,CONTR** b**!**).	TELCO/INST	DLP-526
160	Safe point to temporarily stop this procedure. If stopping, perform Steps 161 through 163; otherwise, go to Step 169.	TELCO/INST	—
161	At 1B Processor MTC terminal, enter message **ALW:MACLI,CLASS MTCE!** to allow REX. Response: **REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED**	TELCO	—
162	If AIMS terminal is being used to enter input messages, remove floppy disk from AIMS terminal and store per local practice.	TELCO	—
163	Stop procedure for now. Continue at Step 164 when resuming.	TELCO/INST	—
164	If AIMS terminal is being used to enter input messages, load **GRXTSI.7** command file into terminal.	TELCO	DLP-577
165	At 1B Processor MTC terminal, enter message **INH:MACLI,CLASS MTCE;REX!** to inhibit REX. Response: **REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED**	TELCO	—
166	At 1B Processor MTC terminal, enter message **STOP:TEST;PUSYS!** to stop peripheral system tests. Response: **OK**	TELCO	—
167	Request next higher support group to Ensure 1B Processor has not experienced any terminal suspends, bootstraps, diagnostic failures, or overloads within last 24 hours.	TELCO	—
168	Ensure 3B, 1B Processor, and peripheral units are operating in normal duplex mode.	TELCO	DLP-529
169	Repeat Steps 157 through 160 for Each TMSP CONTR.	TELCO/INST	—
170	At 1B Processor MTC terminal, diagnose even-numbered growth XTSI CONTR 0 specifying phases 40 and 41 and GROWTH (**DGN:XTSI** a**,CONTR 0:PH 40-41,GROWTH!**).	TELCO/INST	DLP-579
171	At 1B Processor MTC terminal, diagnose even-numbered growth XTSI CONTR 1 specifying phases 40 and 41 and GROWTH (**DGN:XTSI** a**,CONTR 1:PH 40-41,GROWTH!**).	TELCO/INST	DLP-579

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
172	Notify office personnel that alarms will be received during XTSI alarm testing.	INST	—
173	If fan controller board is located at the back of growth XTSI cabinet (EQL 44-188), perform Steps 174 through 184; otherwise, if fan controller board is not located at the back of growth XTSI cabinet, go to Step 185.	INST	—
	Note: **FAN A** and **FAN D** fuses will not be tested in Steps 174 through 179.		
174	At XTSI cabinet fuse panel (Level 69), remove fuse for one fan: ***Note:*** Fuse A is at the top of the fuse panel and fuse E is on the bottom of the fuse panel. • **FAN B** (A3-064-A) • **FAN C** (B4-174-B) • **FAN E** (A2-048-A) • **FAN F** (B3-166-A) • **FAN G** (A4-072-B)	INST	—
175	Ensure the following: • Audible major alarm is received. • At front top of growth XTSI cabinet, **FAN** and **POWER** LEDs are on. • End guard major lamp is on. • GRID **MJ** LED is on. • At back of growth XTSI cabinet, on fan controller board (EQL 41-004), LED associated with pulled fuse is on. • On 1B Processor SREC1 terminal, **REPT: MJ ALM MOC GRID 1** message is received.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
	Note: Steps 315 through 351 are being performed to do the following: • Verify sufficient equipment active for NETX run. • Set up dummy trunks and verify. • Copy NETX into 1B memory. • Run NETX on 200 connect level for 1 hour. • Run NETX on 960 connect level for 8 hours in 2-hour intervals. • Remove dummy trunks and verify.		
315	Read entire test procedure to become familiar with its contents before beginning NETX testing.	TELCO/INST	—
	Caution: To avoid any service interruptions, measures should be taken to avoid running NETX continuously for more than 2 hours at a time. NETX should be periodically terminated, audits which are inhibited during testing should be released and run [DLP-566], and NETX testing restarted. Under NO circumstances, should the audits be allowed without terminating NETX first. Testing should resume at same place it was when terminated.		
316	Establish required hardware status.	TELCO	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED			**FOR DETAILS, GO TO**
317	Provision dummy trunks for NETX testing:		
	A. If appropriate provisioning group is to provide dummy trunks for NETX testing, Request appropriate provisioning group to set up dummy trunks and echo cancellation connections for running NETX. DLP-596 gives guidelines for setting up dummy trunks. **Do Not** continue until provisioning group has confirmed which trunks have been set up for NETX testing.	TELCO	DLP-596
	B. If on-site personnel are to provision dummy trunks for NETX testing.	TELCO	DLP-621
	Notes: 1. If ODA structures and TAN assignments for all trunks associated with growth XTSI have not been built, maximum occupancy levels for test cannot be met. 2. Measures should be taken to ensure that NETX testing does not take place during busy hour. NETX should be terminated and audits which were inhibited during testing should be run if this condition exists. NETX testing should be resumed during next low traffic period. 3. If NETX testing is temporarily stopped due to trouble condition which simplexes XTSI under test or any system TMS, observe output message which may indicate NETX is in hold state. When frames are restored to duplex operation, NETX exercise will automatically restart. 4. All trunks assigned to XTSI(s) to be tested must be in CAD.DSA state before XTSI(s) can be used by NETX.		
318	If AIMS terminal is being used to enter input messages, load **NETX.1** command file into terminal.	TELCO	DLP-578
319	At 1B Processor MTC terminal, verify sufficient number of dummy trunks, for NETX testing, are set to CAD.DSA.	TELCO	DLP-558

Run NETX on Growth XTSIs at 960 Connect Level

1. **General:**

    1. Apply NETX on all growth XTSIs at the same time.

    2. When XTSI frame completes a 2-hour test interval on all network routes without triggering any TRPFs, terminate NETX, allow and run audits per Step 2.20.

    3. It is very important to keep the log sheet up to date because NETX will be terminated and audits run several times during this portion of procedure. When NETX is restarted, network routing configuration on each growth XTSI member number will be entered separately and the time period will be picked up where it was when NETX was terminated. The amount of time NETX ran in each state before testing was terminated should be entered in comments column on the log sheet.

2. **Test Procedure:**

    1. Set network routing to NORM state on all growth XTSIs using DLP-562.

    2. At 1B Processor MTC terminal, enter message
    EX:LIBSYS:PKG LGx**NETX,PGM NETX,TASK 0,CLIENT 0!**

    where x = current generic program

    Response: Prompt output message which indicates office status.

    3. At 1B Processor MTC terminal, enter message
    IN:LIBSYS:CLIENT 0,ASC(YES)!

    Response: **NETX ENTER AVERAGE OCCUPANCY ON SPCS DESIRED DEC(50-960)**
    RANGE 841-960 IS APPLICABLE TO XTSI

    4. Was printout received per the response message in Step 2.3?

    If **Yes**, go to Step 2.6.
    If **No**, go to Step 2.5.

    5. Determine cause and resolve; repeat from Step 2.3.

6. Input NETX program execution data using DLP-564.

7. Monitor growth XTSIs while NETX is being applied to one of four routing states for 2 hours.

8. Did TRPF occur within a 2-hour test interval?

   If **Yes**, go to Step 2.9.
   If **No**, go to Step 2.18.

9. Analyze output message to determine where failure occurred, make applicable entries on log sheet and note any obvious trouble patterns.

10. Does obvious trouble pattern exist?

    If **Yes**, go to Step 2.11.
    If **No**, go to Step 2.15.

11. Attempt to locate trouble and repair.

12. When repair (or attempt) is complete, set network routing back to state where failure occurred using DLP-562.

13. Begin new 2-hour test interval.

14. Repeat from Step 2.7.

    Note: Steps 2.15 through 2.17 are being performed if no obvious trouble pattern exists, and TRPF appears to be intermittent.

15. Set network routing back to state where failure occurred using DLP-562.

16. Begin new 2-hour test interval.

17. Repeat from Step 2.7.

Note: Steps 2.18 through 2.23 are being performed if no TRPFs occurred within a 2-hour test interval.

18. Note on log sheet the XTSI and network route which meet the final criteria of this test.

19. Have all four network routing states been successfully tested?

    If **Yes**, go to Step 2.24.
    If **No**, go to Step 2.20.

20. Terminate NETX and run audits using DLP-566.

21. Set network routing to next state to be tested on this XTSI using DLP-562.

22. Begin 2-hour test interval for new state under test.

23. Repeat from Step 2.2.

24. After all network routing configurations have completed 2-hour test interval on each growth XTSI without triggering any TRPFs, terminate NETX and run audits using DLP-566.

25. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Set Up Aims Terminal and Load Command Files

Note: The floppy to be loaded contains the input messages to perform XTSI growth/degrowth. If there is a discrepancy between the messages on the floppy and this TOP, the TOP should be followed.

Note: It is recommended to use an AIMS terminal assigned to MTC terminal.

1. Ensure AIMS software is operating (colored function bar displayed at bottom of screen).

2. At AIMS terminal, depress **Shift** and **F4** keys simultaneously to clear screen memory.

3. Was Do you really want to reset message received?

   If **Yes**, go to Step 4.
   If **No**, go to Step 5.

4. Enter **Y**

5. Depress **F4** key.

   Response: **TERMINAL OPTIONS** menu displayed.

6. Using arrow keys, move cursor to **Session modes/Session options**.

7. Depress **Return** key.

   Response: **SESSION MODES/SESSION OPTIONS** menu displayed.

8. In **SESSION MODES/SESSION OPTIONS** menu, is **Manual receive** highlighted green?

   If **Yes**, go to Step 11.
   If **No**, go to Step 9.

9. Using arrow keys, move cursor to **Manual receive.**

10. Depress **Return** key to highlight **Manual receive.**

11. Depress **F4** key.

    Response: **TERMINAL SETUP/TERMINAL OPTIONS** menu displayed.

12. Using arrow keys, move cursor to **User Files**.

13. Depress **Return** key.

    Response: **USER FILE SETUP** menu displayed.

14. Using arrow keys, move cursor to **Change user directory**.

15. Depress **Return** key.

    Response: **Change User Directory** window displayed.

16. Ensure floppy disk labeled **AIMS XTSI Rel-**a **Growth Aid** (a = Release number of floppy) is not write-enable protected (floppy disk write protection window must be closed - unlocked); then place floppy disk into drive.

17. In **Change User Directory** window type **A:E**xxxx or **B:E**xxxx (drive that will accept AIMS floppy disks).

    Note: Pick the generic closest to the office generic which is not a later generic.

    where xxxx = **22R1**
    = **23R1**
    = **24R1**
    = **24R2**

18. Depress **Return** key twice.

19. Depress **F4** key twice.

    Response: Blank screen displayed.

20. Depress **F8** key to inhibit terminal screen from receiving output.

21. Depress **CTRL** and **F10** keys simultaneously to activate printouts to the ROP.

22. Ensure ROP is in On-Line mode.

23. Ensure printer associated with AIMS terminal is receiving output.

    Note: No output will be received on terminal display. All output will be observed on the printer.

24. Depress **Home** key.

25. Depress **F5** key.

26. Depress **F1** key to clear screen memory.

27. Depress **F3** key twice.

    Response:

    REGION COMMANDS menu displayed.

28. Using arrow keys, move cursor to **Read from file.**

29. Depress **Return** key.

    Response: List of command files displayed.

30. Using arrow keys, move cursor to file to be loaded.

31. Depress **Return** key.

    Response: Form entered messages displayed.

32. Depress **F5** key to remove form enter mode.

    Caution: You must ensure that cursor is on proper command before entering.

33. See TABLE A for helpful hints when running command list from AIMS terminal.

TABLE A	
A.	All portions of command list are in green except variables which are shown in white.
B.	Use Tab key to jump to variable.
C.	Only update variable(s) in command to be entered
D.	After filling in variable(s), depress **Shift** and **Return** keys simultaneously to get cursor to beginning of line.
E.	Use arrow keys to go to line that is desired.
F.	After entering command, cursor will stop at end of command just inputted.
G.	Output must be observed on printer associated with AIMS terminal.
H.	Observe output on printer to determine if command was accepted or blocked (needing to be sent again).
I.	When all commands are completed, depress **Home** key, then **F5** key, then **F1** key to clear out screen memory.
J.	**OP:RCFORM** a**!** message must not be entered when using AIMS terminal.
K.	At 1B Processor MTC terminal, enter message **MON:CHAN SREC1!** to be able to monitor the SREC1 channel.
L.	At 1B Processor MTC terminal, enter message **STOP:MON;CHAN SREC1!** to stop monitoring the SREC1 channel.

34. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Copy New Files from 3B Computer to Growth XTSI

Note: Input messages must be entered one at a time in sequence from 1 through 6. Each copy command may take approximately 3 minutes.

1. At 1B Processor MTC terminal, enter one of the following messages:

    1. **COPY:XTSI** a**,CONTR 0,XTC,FDT,SVN 0,DVN 0;UCL!**
    2. **COPY:XTSI** a**,CONTR 0,XTC,OPR,SVN 0,DVN 0;UCL!**
    3. **COPY:XTSI** a**,CONTR 0,XTC,DGN,SVN 0,DVN 0;UCL!**
    4. **COPY:XTSI** a**,CONTR 0,XTC,CSP,SVN 0,DVN 0;UCL!**
    5. **COPY:XTSI** a**,CONTR 0,D3U,OPR,SVN 0,DVN 0;UCL!**
    6. **COPY:XTSI** a**,CONTR 0,D3U,DGN,SVN 0,DVN 0;UCL!**

    where a = Even growth XTSI member number.

2. Was **TASK COMPLETED** message received?

    If **Yes**, go to Step 4.
    If **No**, go to Step 3.

3. Refer trouble to installer for resolution; after resolving, repeat from Step 1 by entering same message in error.

4. Have all input messages in Step 1 been entered?

    If **Yes**, go to Step 6.
    If **No**, go to Step 5.

5. Repeat from Step 1 for next input message.

Note: Input messages must be entered one at a time in sequence from 1 through 27. Each copy command may take approximately 3 minutes.

6. At 1B Processor MTC terminal, enter one of the following messages:

    1. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 20!**
    2. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 21!**
    3. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 22!**
    4. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 23!**
    5. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 24!**
    6. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 25!**
    7. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 26!**
    8. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 27!**
    9. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 28,DFN 29!**
    10. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 28,DFN 30!**
    11. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 28,DFN 31!**
    12. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 32!**
    13. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 33!**
    14. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 34!**
    15. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 35!**
    16. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 36!**
    17. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 37!**
    18. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 38!**
    19. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 39!**
    20. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 40!**
    21. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 41!**
    22. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 42!**
    23. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 43!**
    24. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 44!**
    25. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 45!**
    26. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 46!**
    27. **COPY:TSIFILE;XTSI** a**,CONTR 0,SFN 0,DFN 47!**

    where a = Even growth XTSI member number.

7. Was **COMPLETE** message received?

    If **Yes**, go to Step 9.
    If **No**, go to Step 8.

8. Refer trouble to installer for resolution; after resolving, repeat from Step 6 by entering same message in error.

Checklist

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
IXL-001		DLP-527		DLP-562		DLP-597	
NTP-002		DLP-528		DLP-563		DLP-598	
NTP-003		DLP-529		DLP-564		DLP-599	
• NTP-004		DLP-530		DLP-565		□ DLP-600	
NTP-005		DLP-531		DLP-566		□ DLP-601	
NTP-006		DLP-532		DLP-567		□ DLP-602	
NTP-007		DLP-533		• DLP-568		□ DLP-603	
NTP-008		DLP-534		DLP-569		□ DLP-604	
DLP-500		□ DLP-535		DLP-570		□ DLP-605	
DLP-501		DLP-536		□ DLP-571		DLP-606	
DLP-502		DLP-537		DLP-572		DLP-607	
DLP-503		DLP-538		DLP-573		DLP-608	
DLP-504		DLP-539		DLP-574		□ DLP-609	
DLP-505		DLP-540		DLP-575		□ DLP-610	
DLP-506		DLP-541		DLP-576		□ DLP-611	
DLP-507		DLP-542		• DLP-577		DLP-612	
DLP-508		DLP-543		DLP-578		DLP-613	
DLP-509		DLP-544		DLP-579		DLP-614	
DLP-510		DLP-545		DLP-580		□ DLP-615	
DLP-511		DLP-546		DLP-581		DLP-616	
DLP-512		DLP-547		DLP-582		DLP-617	
DLP-513		DLP-548		DLP-583		• DLP-618	
DLP-514		DLP-549		DLP-584		DLP-619	
DLP-515		DLP-550		DLP-585		DLP-620	
DLP-516		DLP-551		DLP-586		DLP-621	
DLP-517		DLP-552		DLP-587		DLP-622	
DLP-518		DLP-553		DLP-588		DLP-623	
DLP-519		DLP-554		DLP-589		DLP-624	
DLP-520		DLP-555		DLP-590		DLP-625	
DLP-521		DLP-556		□ DLP-591		DLP-626	
DLP-522		DLP-557		□ DLP-592		DLP-627	
DLP-523		DLP-558		□ DLP-593		□ DLP-628	
DLP-524		DLP-559		□ DLP-594		□ DLP-629	
DLP-525		DLP-560		□ DLP-595		□ DLP-630	
DLP-526		DLP-561		DLP-596		□ DLP-631	

• Revised or added item

□ Canceled item

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
□ DLP-632 □ DLP-633 □ DLP-634 □ DLP-635 □ DLP-636		□ DLP-667 □ DLP-668 □ DLP-669 DLP-670 DLP-671					
□ DLP-637 □ DLP-638 □ DLP-639 □ DLP-640 □ DLP-641		DLP-672 DLP-673 DLP-674 DLP-675 DLP-676					
□ DLP-642 □ DLP-643 □ DLP-644 □ DLP-645 □ DLP-646		• CKL-891 TNG-893					
□ DLP-647 □ DLP-648 □ DLP-649 □ DLP-650 □ DLP-651							
DLP-652 □ DLP-653 □ DLP-654 □ DLP-655 □ DLP-656							
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DLP-662 □ DLP-663 □ DLP-664 □ DLP-665 □ DLP-666							

• Revised or added item

□ Canceled item