GTS V2.2.0

Release Notes, Patch # 26

036R903-V22026 Issue 03, December 1998

General DataComm

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Release Notes for GTS V2.2.0 Patch #26

1.0 Media

Patch #26 is delivered on five diskettes:

- 036Z612-301A-P26 (5) 3 1/2" disks

2.0 Patch Contents

1) Disk One
    A) TMS Controller task M2CCIR
    B) TMS Controller task M2DOC
    C) TMS Controller task M2DIAG
2) Disk Two
    A) TMS Controller task IARTSK
    B) TMS Controller task DGFMUX
    C) TMS Controller task M2MAINT
    D) TMS Controller task M2PORT
3) Disk Three
    A) TMS Controller manual
    B) DPV_CMN Patch Version 2.2.0D
    C) DPV_FAX1 Patch Version 2.2.0D
    D) DPV_ACELP Patch Version 2.2.0D
    E) Object strings file objlist.v02
    F) TMS Controller task M2FIDK
    G) TMS Controller task M2CON13
    H) TMS Controller task M2RDBCR
    I) TMS Controller task COMTSK
    J) TMS Controller task M2DOCREQ
    K) TMS Controller task M2FLT
    L) TMS Controller script bg_doscp

M) TMS Controller script bg_dosformat

4) Disk Four

A) TMS Controller task ACCUACQ

B) TMS Controller task ACCUCOM

C) TMS Controller task ALMPRT

D) TMS Controller task ALMTSK

E) TMS Controller task DL_MUX

F) TMS Controller task RESTSK

G) TMS Controller script install_y2k

5) Disk Five

A) SCO Xenix Support Level Supplement XNX427C disk

3.0 Reasons for patch

1. Provide CS-ACELP algorithm on the DPV channel card. If IMBE channels are currently configured, then the channel type will now display “csACELP”, and only rates of 8.0K and 9.6K will be used. If lower rates were configured for IMBE, they will be converted to higher rates. This happens upon rebooting after the installation and subsequent floppy disk configuration loads.
2. Year 2000 fixes are included.
3. **Fixes from Patch #10&13.** When the “Print/Delete Saved File” option in the “Document Network Data” screen accessed from the “Network Maintenance” menu. If the user selects a DOS disk as the destination, while the formatting is taking place, communications to the controller is no longer lost.
4. **Fixes from Patch #13.** When saving Alarm report files from the “Alarm Report” screen in the “Alarms main menu”, and when printing either “Document Network” or “Alarm Report” files from the “Print Saved File” menu in the “Controller Maintenance” screen to a DOS disk, communications to the controller is no longer lost.

   NOTE: This fix requires the GTS software to spawn the DOS functions as independent background tasks. If a floppy error occurs while the DOS format or copy is executing, the error appears briefly on the GTS main screen. There is no way to mask these errors.

5. **Fixes from Patch #16&19&22.** Fixes include:

   a. System errors are no longer generated in networks containing more than 1000 links.

   b. Incorrect status is no longer shown in status or diagnostics in large customer networks, with more than 16 pages of nodes.

6. **Fixes from Patch #19&22.** A problem in display of VCM circuits was repaired. Formerly, if a user selected A0 conditioning, upon reentering the configuration screen, A0/1 would be displayed even though the correct conditioning had been downloaded.
7. **Patch #22.** Document network no longer cores when MM+-DTEC circuits are configured.
8. **Patch #11 & Year 2000 Enhancement.** The purpose for this enhancement is to provide both GTS and the SCO Xenix operating system support for the year 2000 and beyond.
   a. The "Year 2000" problem: Setting any date from January 1, 2000 on actually sets the year to 1970 instead.
   b. The "leap year" problem: Setting the time on the TMS controller to February 29, 2000 will actually set the date to March 1, 2000 instead.
   c. System Errors while setting the date: When changing the date backward while logged into an off-line network, system errors occur. When these error appear, you are then denied access to all networks.

4.0 Loading Instructions

4.1 Verify Operating System Environment

Read these instructions carefully to verify the operating system environment. You MUST have the SCO Xenix LINK package installed *before* loading GTS V2.2.0 Patch #26. To verify this, do the following:

1. Press <ALT> F2 and log in as **root**.
2. Type **custom**.
3. Select **1. Operating System.**
4. Select **3. List the available packages.**
5. Find `LINK` on the list; check that the word `YES` appears in its associated Inst column. This indicates that the entire LINK package is installed.
6. If LINK is installed as `ALL`, proceed to Step 1 of the Patch #26 Loading Instructions.
7. If LINK is installed as `PART` or `NO`, press <Enter>.
8. Type **1. Install one or more packages.**
9. Type **link**
10. Insert the Xenix operating system disks as prompted.
11. When you are done, type **q** to quit. You will be returned to the # prompt.
12. Proceed to Step 1 of the Patch #26 Loading Instructions.

4.2 Patch #26 Loading Instructions

NOTE: Disk 5 is a Xenix "tar" disk, rather than a patch disk, and cannot be loaded via the "Load a Software Release" function on the "Controller Maintenance" screen. Disk 5 CANNOT be identified using the "Identify a Floppy Disk" option on the "Controller Maintenance" screen.

This patch incorporates changes from patches 5 (PC tasks only), 6, 11, 13 and 22. Patch 5 must be loaded first. The installation of Patch 26 WILL cause a software download to the TMS nodes. Therefore, some temporary disruption of the network will occur when activated. To minimize network disruption, disable IAR before activating the stored code.

1. Go to the "TMS Main Menu" screen and select the "Controller Maintenance" option.
2. Insert the first diskette in the disk drive.
3. Place the cursor on the "Load a Software Release" pokepoint on the "Controller Maintenance" screen and press <Enter>.

   After confirming that there is a disk in the drive, and indicating that software is being saved, the controller will soon display the message: `"Saving network files for later conversion, please wait..."`. This will take a few minutes.
4. When you see the message `"Software loaded. / Saving network files.."`, remove the diskette from the disk drive.
5. Next load the second, third and fourth disks of this patch, by once again inserting each diskette in the drive and selecting the "Load a Software Release" option in the "Controller Maintenance" screen and waiting until you see the `"Software loaded. / Saving network files.."` message. Do not load disk 5 yet.
6. Remove the fourth diskette from the drive.
7. Place the cursor on the "Shutdown (Disable Auto Login)" poke point and press <Enter>.
8. Reboot the controller.
9. When the Login prompt appears, log in as root.
10. Type:

    shutdown 0 su

    You will see a message:

    ```
    Type control-d to proceed with normal startup
    (or give root password for system
    maintenance):
    ```
11. Type in your root password, if you have one, and press <Enter>.

12. When you see a message:

    ```
    TERM=(ansi)
    ```

    Press <Enter>.

13. Insert GTS V2.2.0 Patch 26 Disk 5 into the boot drive.

14. At the # prompt type:

    custom

15. If one of the choices is

    ```
    "XNX427 - Year 2000 SLS for SCO XENIX"
    ```

press **q** to quit. Year 2000 changes have already been installed. Go to step step 22. Otherwise, select “4. Add a supported product” and press <Enter>.

16. At the prompt:

    ```
    Insert distribution volume 1 and press
    <RETURN> or enter q to quit:
    ```

    press <Enter>.

    Note: At this point the disk should be accessed. If you have two floppy drives and the other drive's light has turned on and errors are reported, type **q** until you are back at the # prompt, Return to step 14 but type the following instead of “custom” (if you want to use the 3.5" floppy drive that is not the boot drive):

    custom -m /dev/fd1135ds18

17. If no errors occur, select “1. Install one or more packages” and press <Enter>

18. Type **ALL** and press <Enter>.

19. When you see a message:

    ```
    Insert XNX427- Year 2000 SLS for SCO Xenix
    Volume 1 and press <RETURN> or enter q to
    quit:
    ```

    press <Enter>.

20. When you see the message:

    ```
    Do you wish to archive the update files?
    (y/n)
    ```

    Type **n** and press <Enter>.

21. When you see the message:

    ```
    Installation complete, select an option or
    enter q to quit
    ```

    Type **q** and press <Enter>

22. Type **cd /usr/mso/exe** and press <Enter>.

23. Type **./install_y2k** and press <Enter>.

    (This will take approximately 5 minutes to complete.)

24. When you see the message:

```
GTS/XENIX year 2000 update is now installed
```

Press the CONTROL and D keys simultaneously.

25. When asked for the current system time, press <Enter>.
26. At the login: prompt type **gts**

    GTS V2.2.0 Patch 26 is now installed.
27. Download the new OCM code:
    a. Enter the “Download” feature.
    b. Next place the cursor on the “Modify/Activate Software Revision List” pokepoint and press <Enter>.
    c. Highlight the “Select Stored File Revisions” pokepoint and press <Enter>.
    d. Select revision “d.2.20” of the DPV_CMN file, revision “d.2.20” of the DPV_FAX1 file, and revision “d.2.20” of the DPV_ALGOR file. This stores the software in the background.
28. After all the OCM nodes receive the code as viewed in the “Software Integrity” screen, select the “Modify/Activate Software Revision List” pokepoint in the “Download” screen.
29. Activate the code by pressing the “Activate Stored Software Files” pokepoint.

5.0 Caveats

- Please load all of the needed GTS patches released before GTS V2.2.0 Patch 26 first before loading this patch.
- Any subsequent release after patch 26 will have year 2000 support already built in.
- If you load GTS V2.2.0 Patch 26 and then load a patch released before GTS V2.2.0 Patch 26, the contents of that patch MAY NOT have year 2000 support and will cause the patched application to have inconsistent date and time functionality.
- If you DO load a patch released before GTS V2.2.0 Patch 26 after you have loaded Patch 26, you MUST perform the following:
  a. Shutdown the controller and disable auto-login.
  b. Reboot the controller.
  c. When the Login: prompt appears, press ALT-F2.
  d. Log in as **gts**.
  e. Type **cd exe**.
  f. Type **fix2000 -p ***

     (This will take about five minutes to complete.)

g. Press ALT-F1.

h. Log in as **gts** (runs the GTS software).

- A “command/config mismatch” error will be generated if the user attempts to invoke ACO on a DPV circuit. The diagnostic will not be performed.
- Due to the way UNIX represents the date internally, dates after the year 2037 are not supported.

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