TOTAL CONTROL™

Dual T1 Card

Version 3.2

RELEASE NOTES

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About these Notes

These notes cover new features available in the Dual T1 Card as of Release 3.2. Two major features are offered in this Total Control product release:

- Support of a changeable idle disconnect pattern send from T1 to Modem
- Addition of T1 configuration parameter to allow the T1 code to boot up quicker when there is not a PRI card in the chassis

NOTE: Release 3.2 functionality only applies to the Dual T1 NAC. Versions higher than 3.0.4 no longer support the Single T1 NAC. Make sure the appropriate SDL and NAC prefixes are loaded prior to starting the upgrade.

NOTE: When using the single-sided quad modem, the T1 NAC must be inserted into slot 1. The single-sided quad modem can be inserted into any slot between 2 and 16. Dual T1/PRI NACs may be inserted into slots 2 through 5.

For More Information

This Release Notes document is intended to point out new features, as well as revisions and enhancements to existing features. This document should be used in conjunction with the manuals in the Total Control Reference Library. The manuals in the library are updated for major releases only (version 2.0, version 3.0, etc.). Interim releases are documented solely by Release Notes. If you would like to obtain a copy of the manuals in the Total Control Reference Library, contact a U.S. Robotics sales representative, or download them in Adobe Portable Data Format from the U.S. Robotics BBS.

The information listed below is available in the Total Control directory (#15) on the U.S. Robotics BBS (847-982-5092) and Internet ftp site (ftp.usr.com / dl15). You may use anonymous ftp to download the files. All the files are available in Adobe Acrobat Portable Data Format (*.PDF).

- Regularly updated MIBs
  This information is provided in ASCII text (*.MIB).
- Application Notes
- Technical Bulletins
- Reference Manuals
- Release Notes

A Note about PDF Files

Files in Adobe Acrobat *.PDF format may be downloaded easily. The Acrobat Reader program is required to view the Acrobat files. Adobe provides free Reader software (DOS, Windows, Macintosh, and UNIX versions are available) at both an Internet ftp site (under the directory ftp.adobe.com / pub / adobe / Applications / Acrobat) and their World Wide Web Home Page (http: / / www.adobe.com /).

U.S. Robotics also provides Acrobat Reader software on its BBS in the MISC directory. Simply download the Reader software and install it on the computer, launch the program, and open the *.PDF document file.

Main Menu

To identify the revision number of the firmware, access the T1 card's command line configuration program through a terminal emulator. The following information is displayed on the screen:

```
           US. Robotics, Inc. (c) 1996

           Dual T1 Application Card Revision             3.2.0
           Boot Code Linked Date            : Wed Feb 23 13:36:35 1994
           Operation Code Linked Date       : Fri Apr 12 16:59:06 1996

Main Menu

1) Status
2) Command
3) T1 Card Configuration
4) DS0 Configuration
5) T1 Span Line 1 Configuration
6) T1 Span Line 1 Call Parameter Configuration
7) T1 Span Line 2 Configuration
8) T1 Span Line 2 Call Parameter Configuration

Enter menu selection and press Return or press Esc to exit.

Menu Selection (1-8):_3
```

Figure 1. T1 Card Main Menu Screen

The configuration parameters affected by release 3.2 are accessible through Menu Selection 3, *T1 Card Configuration*.

New Version 3.2 T1 Card Configuration Parameters

The new parameters are changeable using either the user interface or the NMC. The *Idle Disconnect Pattern Send to Modem* feature allows the Dual T1 NAC to be used with modems which utilize A-law (for international switches) or µ-law (for US switches) as a backbone. The *T1/PRI NACs in the Chassis?* feature allows for a quicker boot time for one T1 NAC which is not supporting any T1/PRI NACs.

```
T1 Card Configuration                              Current Setting

1) Save current Configuration to NVRAM
2) Restore NVRAM Configuration
3) Restore Default Configuration
4) Idle Disconnect Pattern Send to Modem           01 Hex
5) T1/PRI NACs in the Chassis?              Multiple T1/PRI NACs
6) Timing Source Priority Assignment               T1-1+1 T1-2=2 INT=0
     (NOTE: If this T1 card is in the slave mode, it will use
            the TDM clock and ignore the clock switching task.)

(NOTE: Changing configuration parameters may affect calls in progress.)

Enter menu selection and press Return or press Esc to exit.
Menu Selection (1-6):_4
```

Figure 2. T1 Card Configuration Screen

Idle Disconnect Pattern Send from T1 to Modem

The current setting of the *Idle Disconnect Pattern Send to Modem* is displayed on the *T1 Card Configuration* screen (See Figure 2). Select option 4 to change the current pattern setting. Selecting option 4 displays the *Idle Disconnect Pattern Send to Modem* submenu options shown in Figure 3.

```
Idle Disconnect Pattern Send to Modem

Default is 0x01 in USA and the suggested byte is 0x54 for International.

Warning: Please consult U.S. Robotics A.E. before doing reconfiguration.
            You also need to reconfigure Modem correspondingly.
(NOTE: Changing configuration parameters may affect calls in progress.)

Enter a hexadecimal byte, range from OO to FF (default = 0x01)
and press Enter or press Esc to exit

(Reserved Pattern: 00, 02, 03, 04, 05, 06, 79, 80, 81, 82, 85, 86, FF
Hex)

>: 54
```

Figure 3: Idle Disconnect Pattern Assignment Screen

The default pattern setting in the USA is 0x01 (See Figure 3). The suggested pattern for International is 0x54. Each modem configuration must correspond to the selected pattern.

NOTE: The Reserved Patterns (00, 02, 03, 04, 05, 06, 79, 80, 81, 82, 85, 86, and FF Hex) cannot be chosen.

Quicker Boot Time For One Dual T1 NAC

The current setting of the *T1/PRI NACs in the Chassis?* is displayed on the *T1 Card Configuration* screen (See Figure 2). Select option 5 to change the current setting. Selecting option 5 displays the *T1/PRI NACs in the Chassis?* submenu options (See Figure 4).

```
T1/PRI NACs in the Chassis?

1 Single T1 NAC
2 Multiple T1/PRI NACs

Note: If there are no PRI NACs in the chassis, i.e. only one T1 NAC,
            it can allow the T1 card to boot up quicker (about 15 sec.)
            Or it needs to take about 1.5 minutes to delay the boot time
            for TDM clock detection from the master PRI card.

      The default is set to 'multiple T1/PRI NACs' coexist in the
chassis.
      Changing this parameter only takes effect on the next boot time.

Enter menu selection and press Return or press Esc to exit.

Menu Selection (1-2):1
```

Figure 4: T1 NAC Assignment Screen

The default setting is Multiple T1 PRI NACs (See Figure 4). The Single T1 NAC setting supports the quicker boot time feature.

> **NOTE:** Verify that the current Total Control Chassis configuration supports the quicker boot time feature.