Technical Support

TECHNICAL NOTE

TECHNICAL NOTE TN-1059-SR

**T1510/T1511/T1711 Main Processor
Software Version 7.08**

1 August 2005

Applicability   T1510/T1511 Channel Control Modules (CCM)
                       T1711 Channel Management Modules (CMM)

1. Introduction

This is the forth release of the version 7 T1510/T1511 CCM and
T1711CMM Min software. (Main Processor)
It has been released to operate in conjunction with the latest release of
T1510/T1511 CCM and T1711CMM modem software V7.02.

2. Issues Resolved

New Feature: Received FFSK is now muted.
The other radio parties in a call do not hear FFSK transmitted by a radio
(e.g. cleardown message). The CMM mutes the received audio if it detects
FFSK.
If the call is a NPD call, the audio should never be muted. The MIN software
informs the modem software if a call requires muting. The modem
software performs the actual audio muting if required.

Channel faults are now displayed during fallback mode.
In fallback mode, a traffic channel fault will now display UU09
(T1510/T1511) if a channel fault is detected.

3. Known Issues and Limitations

Control channel does not ignore invalid replies to AHYC requests.
When the control channel is expecting a SAMIS reply back from a radio
(ESN, interprefix, phone digits), it does not ignore all invalid codewords.

Memory read and write modem processor is not possible.
The ability to read/write to the CCM/CMM modem memory has been
removed. Almost all the useful modem processor parameters are stored in
the common ram, and can be accessed via reading/writing to the main
processor software.

The number of CLEAR messages sent at the end of a call is incorrect.
The number of CLEAR messages to send is set in the SMM configurable
parameters. The number sent by the traffic channel is as follows for each
parameter value:

SMM parameter:	Number of CLEAR messages sent:
1	1
2	1
3	2
4	2
5	3

The channel control RF number can be set beyond 1023.
The channel control RF number can be set beyond 1023 using the configuration utility and hex switches. The behaviour of the channel controller is not defined beyond 1023.

4. Compatibility

Products this Software is approved for inclusion in:
- T1510 Channel Control Module;
- T1511 Channel Control Module;
- T1711 Channel Management Module.

Hardware compatibility:
- Q1510MIN can be programmed in to either a 32k*8 EPROM (27C256) or a 64k*8 EPROM (27C512). Used in T1510 CCM hardware. If Q1510MIN software is to be used on 32K EPROMS, the software should be loaded from 0x8000 onwards. Note: Technical Instruction 430 can be performed to accommodate 64k EPROMS on CCMs with PCB IPN 220-01212-02 or older.
- Q1511MAX requires a 128k*8 FLASH (29F010). Used in T1511 CCM hardware.
- Q1711MAX requires a 128k*8 FLASH (29F010). Used in T1711 CMM hardware

Software compatibility:
- CMM Modem Processor: Requires Q1510MOD / Q1511MOD / Q1711MOD **version 7.02 or later.**
- Site Management Module (SMM) processor: Requires Q1722SMX version **7.06 or later**.

5. Issuing Authority

Name and Position of Issuing Officer

Jeff Northcott
Senior Technical Support Engineer

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Document History

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