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## TECHNICAL NOTE TN-1182-SR

### T1722 SMM Software V7.13

30 May 2006

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#### Applicability

T1722 Site Management Module (SMM)

## 1. Introduction

This release of SMX software is an update based on V7.10.

## 2. New Features

**The following features have been added between SMX V7.10 and SMX V7.13.**

#### **Primary and Secondary Channel Ranges for Partitions.**

This feature allows each partition entry to have two ranges of traffic channels to choose from: a primary (preferential) range, and a secondary (backup) range. The previous strategy only allowed for one traffic channel range.

If no channels are available in the primary range, a traffic channel may be chosen from the secondary range. If no channels are available in the secondary range either, the user will queue until a traffic channel becomes free in either range.

#### **Dual Control Channels.**

This feature allows a site to have two control channels. Radios on the site are allocated to a particular control channel (perhaps on a fleet-by-fleet basis). The loading is spread across the control channels, allowing more radios on the site, and increasing the number of possible calls. This feature requires T1541NMT and T1541NC v4.01.00 or greater.

This is a licensed feature.

#### **Inter-prefix call barring.**

This feature uses the extended validation data, and allows the system administrator to bar a unit from making inter-prefix calls. This feature requires T1541NMT and T1541NC v4.01.00 or greater.

## 3. Issues Resolved

**The following issues have been resolved between SMX V7.10 and SMX V7.13.**

**Control channel rotation time was seconds instead of minutes.**

The control channel rotation time set in the NMT was implemented by the site in seconds, not minutes.

**When a channel alarm occurred during a call, the call did not end immediately.**

If a major alarm (high-reverse or low-forward/high-reverse power) occurred during a traffic channel call, the call did not immediately end. This would leave the transmitter keyed in whatever error state it is in.

**Pressel call records could have inaccurate durations.**

It was possible for a pressel call record to have a duration greater than the maximum call time.

**Diversion requests to PSTN destinations with greater than 10 digits failed.**

Diversion requests to PSTN destinations with greater than 10 digits (including the 0) were failing. The requests were terminated with a call end reason of 36.

**FOACS call cancelled by called radio may not end correctly.**

The situation is as follows:

A local full off air call is made from radio A to radio B, and divert on busy is enabled in the control parameters, and there is an entry in radio B's 'divert on busy' field (i.e. the radio's extended validation has the divert bit set). If radio B cancels the call (thereby invoking the 'divert on busy' feature), the site will not send an AHYX in response. Radio B will continue to send FOACS cancel messages to the site, even though the call has already been diverted. This issue was introduced in SMX v7.08.

## 4. Known Issues and Limitations

**Line reversal improvements.**

For outgoing intersite phone call (cleared by the radio), line reversals should be used to determine that the call has been answered. When the line reversal occurs, the ringing time should be calculated and recorded in the billing record. Currently it is always 0.

**Intersite FOACS answered calls are not marked as answered.**

In an intersite FOACS call, which is answered by the b-site party, the a-site is not informed that the b-party has actually answered the call. This means the a-site still times out for call answer timeout and doesn't mark the call as answered.

## 5. Compatibility

This software requires channel controller software Q1711MIN version 7.04 or greater to operate correctly.

This software is compatible with SMM Bootloader (Q1722BLD) software versions 1.00, 1.01, and 1.02.

This software is compatible with the T1541 Node Controller/Network Management Terminal (Q1541NC/Q1541NM) versions 2.1.6 or greater. T1541NMT and T1541NC v4.01.00 or greater are required for the Dual Control Channels or Inter-prefix Barring features.

This software is **not** compatible with the T1772 Network Management Terminal (Q1772NMT) version 1.13 or earlier.

This software is **not** compatible with the T1530/T1730 Node Management Module (Q1730NMM).

This software is **not** compatible with version 5 or 6 series software running on the same site, although it will inter-operate with other sites running version 5 or 6 software.

This software is **not** compatible with the T1520 Site Control Unit, T1720 Site Control Unit or T1721 Site Management Module. It will only operate with the T1722 Site Management Module hardware.

## 6. Issuing Authority

### Name and Position of Issuing Officer

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### Distribution Level

Tait Only

### Document History

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