



TECHNICAL NOTE TN-1002

Rx Unmute Rules For The Digital Terminals

3rd June 2005

Applicability

This Technical Note applies both to the TM9000 and TP9000 range of Tait Digital Terminals

1. Introduction

Located on the "Set-Up" tab of the "P25 Conventional" page, the "Rx Unmute Rule" drop down box has three settings. "Selective", "Normal" and "Monitor". While similar to the monitor and Squelch settings on an Analog Conventional radio, they are not the same. This Technical Note will explain the definitions of the three settings.

2. Information

What Is The Rx Unmute Rule?

The "Rx Unmute Rule" sets the conditions for the radio's mute to open for P25 receptions.

- Choose "Selective" for group and individual calls to remain private. Select "Normal" for an open network where all transmissions with the same Network Access Code (NAC) can be heard or "Monitor" to hear all digital transmissions on a channel. Monitor is typically used for dispatchers only.
 - Selective:** the radio will unmute based on the received Individual or Talkgroup ID and NAC
 - Normal:** the radio will unmute based on the received NAC only.

Note: Compared to "Selective", "Normal" will cause the radio to unmute slightly faster and be less susceptible to dropouts at the edges of reception. However, private selective calling (via Individual and Talkgroup calls) is not available.
 - Monitor:** the radio will unmute to any recognizable digital voice signal.

These three options are summarized below.

	Received NAC	Received Talkgroup or Individual ID
Selective	Match required	Match required
Normal	Match required	Match not required
Monitor	Match not required	Match not required

A Function Button can be programmed as a monitor button. This will override the RX Unmute Rule setting.

- NOTE:- "Squelch Override" has no affect on a Digital channel. It is an Analog channel function only.

Compliance Issues	None
CSO Instruction	CSO's – Please inform all technical staff, and appropriate dealers of this Technical Note

3. Issuing Authority

Name and Position of Issuing Officer	Paul Anderson Technical Support Engineer		
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