KENTROX

SNMP Activation Procedure for Harris TRuepoint 5000 Radios

Revision: R1
12 October 2010

SNMP-BASED NETWORK MANAGEMENT

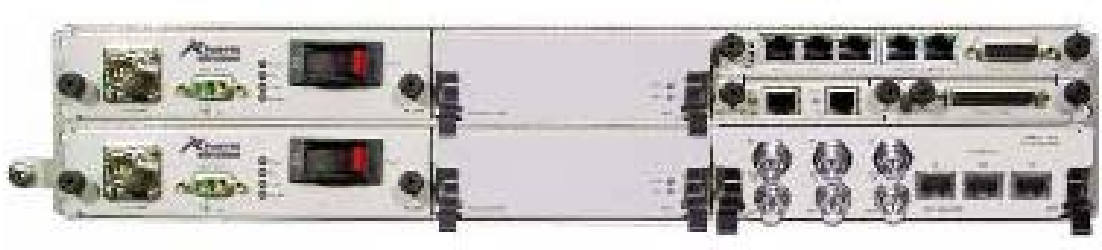
Introduction

Each TRuepoint radio has an embedded SNMP agent on board allowing the user to configure, control, and monitor the system using a remote station that supports SNMP network management.

TRuepoint 5000 Port Descriptions

The ports on the customer access area of the TRuepoint 5000 are shown in Figure 7-1.

Figure 7-1: TRuepoint 5000 SPU indoor unit



Physical interconnection to the Kentrox Remote is through the Ethernet LAN port on the TRuepoint Controller card, shown below. This, along with user configuration, enables the interface to transport traffic. Configuration examples are given below.

SNMP Connectivity Requirements

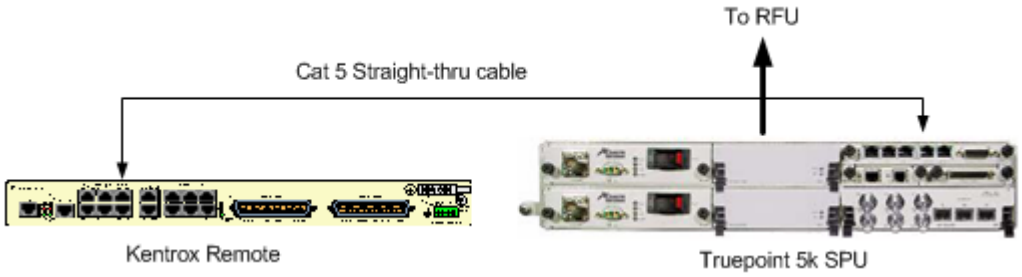
Some conditions must be met to set up the TRuepoint radio for SNMP connectivity:

- A 10BASE-T straight-thru cable is required to connect the Ethernet LAN port on the controller card and any available Ethernet port on the Kentrox Remote (see figure 7.2 below)

Standard Configuration

A standard configuration refers to a network where the only radio with the Ethernet LAN port on the controller card enabled is the radio connected to the Kentrox Remote.

Figure 7-2: Standard Configuration Example



This example is a very basic LAN setup, where no IP connections are dropped at the remote sites.

Based on Figure 7-2, the following assumptions are made:

- Only one subnet is needed because no IP segments will be dropped at remote sites.
- Private class C IP (192.168.2.0/24) is used.
- Kentrox Remote: 192.168.2.1/24
- TRuepoint Ethernet LAN IP: 192.168.2.4/24
  - If more than one radio at a site is to be connected, use IP address 192.168.2.5, 192.168.2.6, etc. for IP numbering

All IP configurations are found in the following keypad menu:

CONFIGURATION Menu

To set up SNMP managers or trap destinations, you may enter up to 10 SNMP managers and 10 trap destinations.

Use the **Configuration** menu on the keypad to gain access to the following **Network Management** submenu.

IP Networking
Keypad: Configuration > Network Management > IP Routing >

NETCOM INTERFACE: ENABLE
NCOM IP ADDR MODE: AUTO
NCOM MANUAL IP ADDR: 10.1.1.1
NCOM MANUAL IP MASK: 255.255.255.0
NCOM IP MTU SIZE 236

ETHERNET INTERFACE: ENABLE
ENET IP ADDR MODE: MANUAL
ENET MANUAL IP ADDR: 192.168.2.4
NET MANUAL IP MASK: 255.255.255.0
ENET DHCP SERVER: Disable
IP FORWARDING: HOST
DEFAULT ROUTER: 192.168.2.1
STATIC ROUTES: Route 1 > Enable
IP ROUTE N ADDRESS: 192.168.2.0

IP ROUTE N MASK: 255.255.0
NEXT IP ROUTER 1: 192.168.2.1
DYNAMIC ROUTING: Disable

SNMP Parameters
Keypad: Configuration > Network Management >SNMP > SNMP Managers >

SNMP MANAGERS > Manager 1 > 192.168.2.1 Enable
COMMUNITY STRINGS > Get Community: "public"
Set Community: "private"
TRAP DESTINATION > 192.168.2.1
TRAP PARAMETERS > Community: "public"
TRAP CUSTOMIZATION > N/A
DEF USER AUTH PWD > N/A
DEF USER PRIV PWD > N/A
AUTH PROTOCOL > N/A
PRIV PROTOCOL > N/A

SNMP Trap Configuration Confirmation

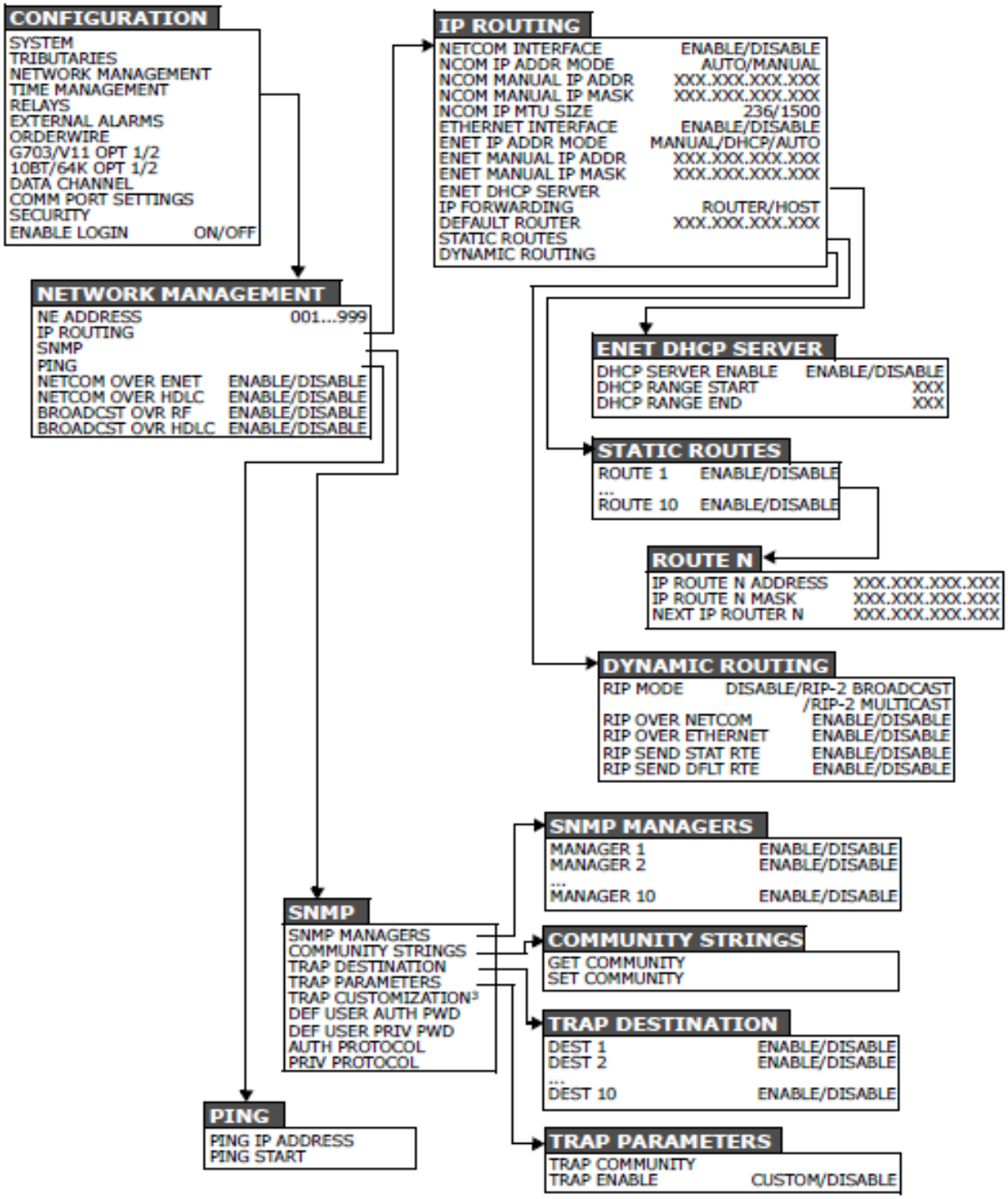
The following SNMP traps are available:

CONFIGURATION > NETWORK MANAGEMENT > TRAP PARAMETERS.

ETHERNET ADDR, LOAD CORRUPTED, SPI COMM ALM, MODEM CABLE, REBOOT ALM, SIGNAL DEGRADED, RFU COMM, FLASH FILE SYS, CONFIG FILE, INVALID SK, ATPC FAIL, EXTERNAL ALM, ALIGN ALM, BER ALM, RSL RFU, INPUT LOS, OUT_FAIL ALM, CODE ERROR, INPUT AIS, LOCK, INPUT LPBK, RADIO LPBK, HIGH LPBK, RFU MUTE, CW TONE, CARD MISMATCH, CARD ABSENT, CARD DWNLD, CARD FAIL, UNKNOWN_CARD, NOT SUPPORT SIMPLEX, FW NOT UPGRADED, CARD SETTING, REPLACE ME, REMOTE RADIO LPBK, MDM TX SYNTH, SYNC LOSS, INPUT OOF, MUX INP DEGR, ETH LINK TEST, MUX AIS INSERT, RFU TX EQ, RFU RX EQ, SILENT FAIL, CE TUN. CONFLICT, CE TUN. COM FAIL, RFU PA LOW, RFU PA RANGE, RFU EEPROM, RFU SYNTH, RMT LPBK REQ, CLBR TBL MISMATCH, TX CLOCK INPUT LOSS, WRONG CONFIG, RDI ALARM, TIMING RF, TIMING INPUT, TIMING SPUR, TIMING PDH, TIMING EXT1, TIMING EXT2, EVENT LOG, RADIUS ACCESS FAIL, SNMP AUTH FAIL, LOGIN ATK ALM, SVC CHAN COMM FAIL, LINKID MISMATCH, MDM BATT ALM, MUXB NOT ALLOWED, SDM NOT ALLOWED, XCON MISMATCH, BKPN MISMATCH, SPUR INP LPBK, SPUR RAD LPBK.

All of the above Traps should be enabled.

Configuration Menu Layout



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