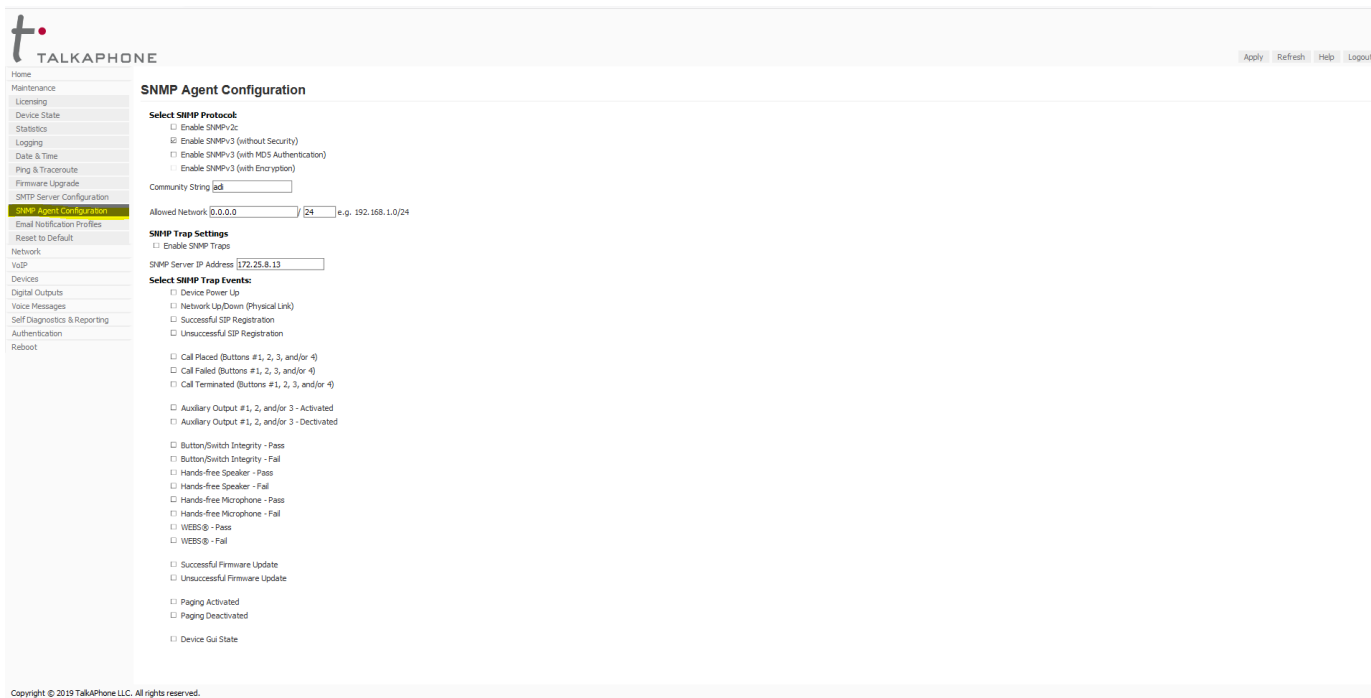


I. Introduction

This document outlines and provides guidance on configuring SNMP for the VOIP-500/VOIP-600 Series IP Call Stations in order to be monitored through a standard SNMP monitoring server.

II. Configure SNMP

1. For configuring SNMP on the VOIP-500/VOIP-600 call stations, verify that they are running firmware version 1.0.2.10 or newer.
2. Through a web browser, log into the call station and navigate to: **Maintenance > SNMP Agent Configuration**



The screenshot shows the 'SNMP Agent Configuration' page in the TalkA-Phone web interface. The sidebar on the left lists various system settings, with 'SNMP Agent Configuration' highlighted. The main content area is titled 'SNMP Agent Configuration' and includes the following sections:

- Select SNMP Protocol:**
 - ☐ Enable SNMPv2c
 - ☒ Enable SNMPv3 (Without Security)
 - ☐ Enable SNMPv3 (With MD5 Authentication)
 - ☐ Enable SNMPv3 (With Encryption)
- Community String:**
- Allowed Network:** / e.g. 192.168.1.0/24
- SNMP Trap Settings:**
 - ☒ Enable SNMP Traps
- SNMP Server IP Address:**
- Select SNMP Trap Events:**
 - ☐ Device Power Up
 - ☐ Network Up/Down (Physical Link)
 - ☐ Successful SIP Registration
 - ☐ Unsuccessful SIP Registration
 - ☐ Call Placed (Buttons #1, 2, 3, and/or 4)
 - ☐ Call Failed (Buttons #1, 2, 3, and/or 4)
 - ☐ Call Terminated (Buttons #1, 2, 3, and/or 4)
 - ☐ Auxiliary Output #1, 2, and/or 3 - Activated
 - ☐ Auxiliary Output #1, 2, and/or 3 - Deactivated
 - ☐ Button/Switch Integrity - Pass
 - ☐ Button/Switch Integrity - Fail
 - ☐ Hands-free Speaker - Pass
 - ☐ Hands-free Speaker - Fail
 - ☐ Hands-free Microphone - Pass
 - ☐ Hands-free Microphone - Fail
 - ☐ WEBS-B - Pass
 - ☐ WEBS-B - Fail
 - ☐ Successful Firmware Update
 - ☐ Unsuccessful Firmware Update
 - ☐ Paging Activated
 - ☐ Paging Deactivated
 - ☐ Device GUI State

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3. Under **SNMP Protocol**, select the SNMP protocol and version to be used with the SNMP server.
4. The default **Community String** is: **adi**
5. Configure **Allowed Networks** to send SNMP traps to the server.
6. Place a checkmark next to **Enable SNMP Traps**. The SNMP daemon will not start unless this is enabled.
7. Enter the **SNMP Server IP Address**.
8. Place checkmarks next to each event for which a trap needs to be sent to the SNMP server for monitoring.

III. General Configuration of the SNMP Server

1. Configure Port 162 for UDP on the SNMP server to listen for incoming trap messages from the VOIP-500/VOIP-600 call stations.
2. Custom MIBs for the VOIP-500/VOIP-600 are defined in **TALKAPHONE-MIB.txt**. Import this file on the SNMP server in order for it to support monitoring VOIP-500/VOIP-600 events.
3. Please note that the VOIP-500/VOIP-600 call stations only support SNMPv2 trap definitions and do not support SNMP OID object instances that can be queried.
4. VOIP-500/VOIP-600 call stations also support SNMPv3 with the following limitations:
 - If the server only supports SNMPv2c, it will not recognize SNMPv3 messages from the VOIP-500/VOIP-600.
 - If the server defaults to SNMPv2c, but provides SNMPv3 support, it may handle SNMPv3 messages coming from the VOIP-500/VOIP-600. However, the processing of SNMPv3 messages will be at the discretion of the server.

IV. List of Supported MIBs

In addition to the custom MIBs as defined in **TALKAPHONE-MIB.txt**, listed below are other MIBs supported by the VOIP-500/VOIP-600 call stations.

AGENTX-MIB.txt
DISMAN-EVENT-MIB.txt
DISMAN-EXPRESSION-MIB.txt
DISMAN-NSLOOKUP-MIB.txt
DISMAN-PING-MIB.tree.txt
DISMAN-PING-MIB.txt
DISMAN-SCHEDULE-MIB.txt
DISMAN-SCRIPT-MIB.txt
DISMAN-TRACEROUTE-MIB.txt
EtherLike-MIB.txt
HCNUM-TC.txt
HOST-RESOURCES-MIB.txt
HOST-RESOURCES-TYPES.txt
IANA-ADDRESS-FAMILY-NUMBERS-MIB.txt
IANAifType-MIB.txt
IANA-LANGUAGE-MIB.txt
IANA-RTPROTO-MIB.txt
IF-INVERTED-STACK-MIB.txt
IF-MIB.txt
INET-ADDRESS-MIB.txt
IP-FORWARD-MIB.txt
IP-MIB.txt
IPV6-ICMP-MIB.txt
IPV6-MIB.txt
IPV6-TCP-MIB.txt
IPV6-TC.txt
IPV6-UDP-MIB.txt
LM-SENSORS-MIB.txt
MAU-MIB.mib
MTA-MIB.txt
NET-SNMP-AGENT-MIB.txt
NET-SNMP-EXAMPLES-MIB.txt

IV. List of Supported MIBs (Continued)

NET-SNMP-EXTEND-MIB.txt
NET-SNMP-MIB.txt
NET-SNMP-MONITOR-MIB.txt
NET-SNMP-SYSTEM-MIB.txt
NET-SNMP-TC.txt
NETWORK-SERVICES-MIB.txt
NOTIFICATION-LOG-MIB.txt
README.mibs
RFC1155-SMI.txt
RFC1213-MIB.txt
RFC-1215.txt
RMON-MIB.txt
SIP-REGISTRAR-MIB.mib
SMUX-MIB.txt
SNMP-COMMUNITY-MIB.txt
SNMP-FRAMEWORK-MIB.txt
SNMP-MPD-MIB.txt
SNMP-NOTIFICATION-MIB.txt
SNMP-PROXY-MIB.txt
SNMP-TARGET-MIB.txt
SNMP-USER-BASED-SM-MIB.txt
SNMP-USM-AES-MIB.txt
SNMP-USM-DH-OBJECTS-MIB.txt
SNMPv2-CONF.txt
SNMPv2-MIB.txt
SNMPv2-SMI.txt
SNMPv2-TC.txt
SNMPv2-TM.txt
SNMP-VIEW-BASED-ACM-MIB.txt
TALKAPHONE-MIB.tree.txt
TALKAPHONE-MIB.txt
TCP-MIB.txt
TRANSPORT-ADDRESS-MIB.txt
TUNNEL-MIB.txt
UCD-DEMO-MIB.inc
UCD-DEMO-MIB.txt
UCD-DISKIO-MIB.inc
UCD-DISKIO-MIB.txt
UCD-DLMOD-MIB.inc
UCD-DLMOD-MIB.txt
UCD-IPFILTER-MIB.inc
UCD-IPFILTER-MIB.txt
UCD-IPFWACC-MIB.inc
UCD-IPFWACC-MIB.txt
UCD-SNMP-MIB.inc
UCD-SNMP-MIB-OLD.txt
UCD-SNMP-MIB.txt
UDP-MIB.txt