

# Installation & Configuration Instructions for SNMPc Manager Software

This document summarizes installation and configuration of SNMPc Manager Software. For more details refer to SNMPc Reference Guide. SNMPc Manager Software is installed on one or more PCs called Manager Station. NetWatch monitor software is installed on all conversant machines to be monitored using SNMP protocol. Manager Stations are used to monitor all conversant machines from a centralized place. Also NetWatch Monitor software running on conversant machines sends alarms to all configured Manager stations.

## **Pre-installation Preparation**

Before you install SNMPc manager software on one or more Manager station, install NetWatch Monitor package and license package on at least one conversant machine. Refer to NetWatch Monitor Installation Guide for instructions for the installation of NetWatch package. Make sure you have following informations and software before you start installation of SNMPc software :

- SNMPc program disks
- SNMPc Serial Number for each manager station
- Machine name and IP address of all manager stations. Use table at the end of this document to document these names.
- Make sure your manager stations do not use DHCP to get the IP address. Use static IP address.
- Machine names of all conversant machines where NetWatch package is or will be installed. Use table at the end of this document to document these names. Make sure these names are configured on your manager stations. Otherwise SNMPc will not be able to connect to these conversant machines. Contact your LAN administrator for configuring these names if not already done. You can check this by using ping command from DOS window on your manager station.
  - C:> ping <conversant machine name>. You should get message similar to following :
    - Pinging <machine name> [135.5. 3.4] with 32 bytes of data:
    - Reply from 135.5.3.4: bytes=32 time<10ms TTL=255
- Make sure all manager station machine names and IP addresses are configured on all conversant machines (e.g. in /etc/hosts file). You can check this by using ping command from conversant machine.
  - \$ ping <manager station machine name>. You should get message similar to following :
    - Pinging <machine name> [135.5. 4.1] with 32 bytes of data:
    - Reply from 135.5.4.1: bytes=32 time<10ms TTL=255

## **Installation of SNMPc manager**

Perform the following steps to install SNMPc manager software on all manager stations :

- Default installation directory for SNMPc is C:\SNMPc. If you install in different directory, make note of it.
- Insert SNMPc program disk1 into a floppy drive.
- Using Start->Run, run installation program using following command :
  - a:\setup
- Follow installation instruction. Insert program disk2 when prompted.
- After that click 'Exit'. Do not install vendor disks

## **Configuration of SNMPc Manager Software**

If NetWatch package is not loaded on the conversant system, load it first before configuration of SNMPc manager software.

## **Addition and Compilation of NetWatch MIB Files**

- Open DOS Window using Start->Program->Command Prompt.
- Ftp NetWatch MIB files (iti.mib and NetWatch.mib), Menu File (BASIC.MEN) and sample map file (SAMPLE.NDB) from one of the conversant machine (where NetWatch package is installed) using following command:
  - Cd <SNMPc Install Directory> (e.g. cd C:\SNMPc)
  - Cd MIBFILES
  - ftp <conversant machine name> (e.g. ftp conv1)
    - input username and password
    - You will get FTP prompt. Type following commands.
    - ftp> cd /opt/NW/cfg
    - ftp> binary
    - ftp> prompt
    - ftp> mget \*.mib BASIC.MEN
    - ftp> lcd ..
    - ftp> get SAMPLE.NDB
    - ftp> quit
- Start SNMPc program using Start->Program->SNMPc4.2->SNMPc.
- You will be prompted for a user name and password. Use 'admin' as username and no password and Click OK on User Login dialog.
- Click 'Cancel' when prompted to compile MIB.
- Add NetWatch MIBs using following command :
  1. Select 'Config->Compile MIB' menu option. You will get 'Load MIBs..' dialog box.
  2. Select Last MIB in the 'Available MIBs:' list box.
  3. Click 'Add' button. You will get 'Add MIB File' dialog box.
  4. Type iti.mib in the file name and hit 'OK' button.
  5. Repeat steps 2 through 4 for 'NetWatch.mib'.
  6. Repeat steps 2 through 4 for any other MIBs (if any) you want to add.
  7. Hit 'Load All' button. Click 'Yes' for 'Recompile SNMP MIB ?'.
  8. Hit 'Done' on 'Load MIBs..' dialog box.

## **Creation of Map**

- Use Open Map menu option (File->Open Map) to open sample map file. Open Map dialog box prompts for the filename. Use SAMPLE.NDB to open sample map file.
- You will see a map with three nodes (ConvName1, ConvName2 and ServerName).
- Use this map as a base map to create your own map. This will ensure that you get default setting and event filters for NetWatch system.

- Click on the ConvName1 node on the map. Using 'Edit->Edit Object' menu option, edit this node. You will get 'Edit Node Attributes' dialog box. Change 'Node Name' field to the name of the conversant machine you want to display on the map. Change 'Net Address' field to the machine name or IP address of the conversant machine. Select the icon of your choice. Icon defines the icon that will be displayed in the map. Add description of the machine (optional). Use Add button to add this machine in your map.
- Repeat above steps for all conversant machine.
- Delete unwanted nodes by selecting node and 'Edit->Delete Object' menu option.
- Save your map using 'File->Save As' menu option.
- Maps are stored in SNMPc install directory as <filename>.NDB files. You can create maps on one manager station and FTP to other manager stations.

## **Creation of users**

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- Change password of admin user and create your own username(s) using 'Config->Edit Users' menu option. Remember these usernames and passwords.

**Repeat 'Addition and Compilation of NetWatch MIB Files', 'Creation of Map' and 'Creation of users' steps for all manager stations. If all manager stations are using same map, you can create map on one manager station and copy to other manager stations.**

## **Registration of Manager Stations as Fault Managers**

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Registration of Manager Station is required for the reporting of alarms. At least one manager station should be registered. NetWatch monitor running on conversant machines sends alarm to only those manager stations which are registered in its Trap Mib. Use following steps to register Manager Stations you want to alarm notification from NetWatch system :

- If SNMPc application is not running, start SNMPc application and login using your username and password. Open map if not open.
- Click on the conversant machine. Select 'Manage->NetWatch->Configuration->Traps' menu option. You will get empty screen with headers. Double click on the empty area. You will get 'Edit Table Entry' dialog box. Enter following fields and hit 'Set All' button :
  - Host - Manager Station name
  - Port - 162
  - Community - public
  - Status - Select 'Valid' from pull-down menu.
- Repeat above step for all Manager Station to be registered.
- Repeat above steps for all conversant machine. Advanced users can configure one conversant machine and copy data files to other conversant machine. For details refer to NetWatch Monitor User Guide.

## Verification

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To verify installation and configuration, start SNMPc application.

- Login using your username and password.
- Open map to be used for testing.
- Click on the conversant machine. Run system monitor using 'Manage->Conversant->System Monitor' menu option. You will get system monitor for all the channels on the conversant machine. This will refresh every 10 seconds.
- Click on the conversant machine. Check Tip-Ring cards using 'Manage->Conversant->Cars->TipRing' menu option. You will get information for all TipRing cards.
- Check other object using 'Manage->Conversant', 'Manage->UNIX' and 'Manage->NetWatch' menu options.
- Telnet to one of the conversant machines. Login as root. Change directory to /opt/NW/demo (cd /opt/NW/demo). Run following command.
  - ksh demo.sh
  - Every time you hit Enter, you should get Window Pop on your manager station with alarm information.

## SNMPc Manager Station Information

Machine Name	IP Address	SNMPc Serial Number	Install Directory	Fault Manager (Yes/No)	Remarks

## Conversant Machine Information

[illegible]

