

# *Managing SunATM Interfaces with SNMP*

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The SunATM software package provides an SNMP (Simple Network Management Protocol) agent which supports the ATM UNI and LAN Emulation Management Information Bases (MIBs) defined in the User Network Interface and LAN Emulation Specifications. This agent will provide information to a network management system, such as the SunNet Manager™ system.

## *D.1 Installing the SunATM SNMP Software*

The SunATM SNMP software is made up of three parts: the SunATM SNMP daemon, `atmsnmpd`; the SNMP management console configuration files; and the agent configuration files. The management configuration files, which are installed in the `/opt/SUNWatm/snmp` directory, are part of the SUNWatmu package. The ATM SNMP daemon and its configuration files, which are part of the SUNWatm package, are installed in the `/etc/opt/SUNWatm/bin` and `/etc/opt/SUNWatm/snmp` directories, respectively.

## *D.2 Setting Up the Management Console*

The schema and oid files containing the required ATM MIB definitions for SunNet Manager are installed in `/opt/SUNWatm/snmp`. In addition, the MIB files in abstract syntax notation (ASN.1) format are included if you are running a network manager that does not use schema files. Refer to the documentation for your network manager for information on how to generate the appropriate configuration files from the MIB files provided.

To configure your SunNet Manager console system to recognize SunATM agents:

- 1. Start the `snm` console program and save your management database.**  
This can be done using File -> Save -> Management database from the `snm` console menus.
- 2. Copy the SunATM schema and oid files which were installed on the SunATM hosts to the schema directory on the manager.**  
The files are called `atmf.mib.schema`, `lane.mib.schema`, `atmf.mib.oid`, and `lane.mib.oid`, and are installed in the `/opt/SUNWatm/snmp` directory on SunATM hosts. They should be copied to the `/opt/SUNWconn/snm/agents` directory on the management system.
- 3. Build the object identifier database to include the SunATM object identifiers.**  
Do this by executing the following command on the management console system:

```
# /opt/SUNWconn/bin/build_oid /opt/SUNWconn/snm/agents
```

- 4. Start the `snm` console with the `-i` flag:**

```
# snm -i
```

- 5. Load your management database using File -> Load -> Management database from the menus.**  
The SunATM MIBs, `atmf.mib` and `lane.mib`, should now be available when you create or update a component.

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**Note** - For further information on using SunNet Manager to monitor `snmp` agents, refer to the SunNet Manager documentation.

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## D.3 Setting Up Agent Systems

To configure a SunATM host system to run as an SNMP agent, select the System Parameters option on the `atmadmin` main menu. From this option, you will be given the choice of setting your system to run as a SNMP agent or not (see Section 4.3, “Using the `atmadmin` Configuration Program,” for more information about the `atmadmin` configuration program).

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**Note** – This option applies to the entire system, and not for each SunATM interface.

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Whether the system is running as an agent or not, the daemon must be running, since it communicates with other parts of the SunATM software. If the system is configured to run as an ATM SNMP agent, the daemon will bind to the UDP port used by SNMP network managers (port 161). If the system is not configured as an agent, the agent will not bind to this port, and it will not respond to requests from network management software.

The default community values for the SunATM agent are public for read and private for write. If you wish to change these values, they should be changed in the `/etc/opt/SUNWatm/snmp/agent.cnf` file. This file contains SNMP agent configuration information, and you may customize these values as needed. The `atmsnmpd` daemon must be restarted after any changes to any of its configuration files, including the `agent.cnf` file.

