SeeBeyond ICAN Suite

SNMP Agent User's Guide

Release 5.0



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Chapter 1

About This Guide

This guide describes how to configure and manage the SNMP (Simple Network Management Protocol) Agent.

This guide is intended for system administrators who are familiar with SNMP technology.

In This Chapter

- "Contents of This Guide" on page 5
- "Writing Conventions" on page 6
- "Supporting Documents" on page 6
- "SeeBeyond Web Site" on page 7

1.1 Contents of This Guide

This document includes the following information:

- Chapter 1 "About This Guide" introduces this user's guide, including its purpose, scope, and contents.
- Chapter 2 "Using SNMP to Monitor eGate Projects" provides an overview the SNMP Agent, its system requirements, and its Management Information Base (MIB).
- Chapter 3 "Installing and Configuring the SNMP Agent" describes how to install and configure the SNMP Agent.
- **Chapter 4 "Managing SNMP Agents"** describes how you start, stop, and reconfigure SNMP Agents.

1.2 Writing Conventions

The following writing conventions are observed throughout this document.

Text	Convention	Example
Button, file, icon, parameter, variable, method, menu, and object names.	Bold text	 Click OK to save and close. From the File menu, select Exit. Select the logicalhost.exe file. Enter the timeout value. Use the getClassName() method. Configure the Inbound File eWay.
Command line arguments and code samples	Fixed font. Variables are shown in <i>bold</i> <i>italic</i> .	bootstrap -p password
Hypertext links	Blue text	For more information, see "Writing Conventions" on page 6.

Table 1Writing Conventions

Additional Conventions

Windows Systems

For the purposes of this guide, references to "Windows" will apply to Microsoft Windows Server 2003, Windows XP, and Windows 2000.

Path Name Separator

This guide uses the backslash (" $\$ ") as the separator within path names. If you are working on a UNIX or HP NonStop system, please make the appropriate substitutions.

1.3 Supporting Documents

The following SeeBeyond documents provide additional information about the ICAN Suite

- SeeBeyond Integrated Composite Application Network Primer
- eGate Integrator Installation Guide
- eGate Integrator User's Guide
- eGate Integrator Tutorial
- SeeBeyond ICAN Suite Deployment Guide

1.4 SeeBeyond Web Site

The SeeBeyond Web site is your best source for up-to-the-minute product news and technical support information. The site's URL is:

http://www.seebeyond.com

Chapter 2

Using SNMP to Monitor eGate Projects

The SNMP Agent enables you to monitor eGate projects alerts using third-party SNMP management systems.

This chapter provides an architectural overview of the SNMP Agent and its MIB.

In This Chapter

- "The SNMP Agent Model" on page 8
- "About eGate SNMP Model Configurations" on page 9
- "About the SNMP Agent MIB" on page 9
- "Supported Platforms" on page 10
- "System Requirements" on page 10

2.1 The SNMP Agent Model

The SNMP Agent enables you to forward eGate alerts as SNMP version 2 traps to a third-party SNMP management system. The Enterprise Manager monitors the Logical Hosts running in an eGate Repository, and the SNMP Agent in turn listens to the Enterprise Monitor for alert information, and forwards the alerts as SNMP traps to the trap port. The SNMP Agent also sends its start/stop status to the Enterprise Manager.

The figure below provides an overview of the SNMP Agent model.





2.2 About eGate SNMP Model Configurations

The components in the eGate SNMP model communicate with each other via the following configurations:

- Trap host name
- Trap port number

The figure below shows where the configurations are set.





The figure above shows the two components that are used for the SNMP Agent to communicate with components in the eGate SNMP model:

Trap host name

This is the host name of the third-party management system.

Trap port

This is the port where the SNMP Agent forwards trap notifications. On the initial SNMP Agent Configuration dialog box, this port is set to 162. If you have a Windows or UNIX SNMP service or daemon installed, change this number, for example, to 162000. Most OS SNMP services use the 162 port and this may create a port conflict.

For more information about SNMP Agent configurations, refer to **"Configuring SNMP Agents" on page 12**.

2.3 About the SNMP Agent MIB

The SNMP Agent provides an SNMPv2 MIB which defines the trap notifications as well as the objects that can be managed in eGate Projects. The SNMP Agent MIB uses Abstract Syntax Notation One (ANS.1), which is industry standard for MIBs.

The SNMP Agent MIB, **EGATE50-SNMP-V2-MIB.txt**, is located in the *<ICANsuite*\monitor\config\snmpagent directory, where *<ICANSuite*> is the directory where you installed eGate Integrator.

The SNMP Agent MIB objects can be found under the following node:

1.3.6.9.4.1.1351.1.1.1.1.2

2.4 Supported Platforms

The SNMP Agent is available for the following platforms:

- Windows Server 2003, Windows XP SP1a, and Windows 2000 SP3
- HP Tru64 V5.1A
- HP-UX 11.0 and 11i
- IBM AIX 5.1 and 5.2
- Sun Solaris 8 and 9

2.5 System Requirements

The system requirements for the SNMP Agent are the same as for eGate Integrator. For information, refer to the *eGate Integrator Installation Guide*.

Installing and Configuring the SNMP Agent

This chapter describes how to install and configure SNMP Agents.

In This Chapter

- "Installing the SNMP Agent" on page 11
- "Configuring SNMP Agents" on page 12
- "Configuring Third-Party SNMP Management Systems" on page 13

3.1 Installing the SNMP Agent

During the eGate Integrator installation process, the Enterprise Manager, a web-based application, is used to select and upload products as .sar files from the eGate installation CD-ROM to the Repository.

Before you install the SNMP Agent, you must already have eGate Integrator installed, or you can install it simultaneously with eGate Integrator as follows:

- Installing the Repository
- Uploading products to the Repository, including
- Downloading components (such as Enterprise Designer and Logical Host)
- Viewing product information home pages

Follow the instructions for installing the eGate Integrator in the *eGate Integrator Installation Guide*, and include the following step:

• During the procedures for uploading files to the eGate Repository using the Enterprise Manager, after uploading the **eGate.sar** file, select and upload the following file:

SNMPAgent.sar

Once you install the SNMP Agent, you must configure the SNMP agent as described below. The SNMP Agent does not have a default configuration.

3.2 **Configuring SNMP Agents**

After installing the SNMP Agent, you must configure the SNMP Agent. The SNMP Agent does not provide a default configuration. To configure SNMP Agents, follow the procedure below. You can specify one SNMP Agent per Repository.

To configure SNMP Agents

- 1 In the Environment Explorer tab of the Enterprise Designer, right-click the Environment of the Repository for which you want to configure an SNMP agent.
- 2 Click **Configure SNMP Agent**. The **Configure SNMP Agent** dialog box appears as shown below.

Configure	SNMP Agent 🛛 🛞	
Version Number : Patch Number :	5.0 0.0	
Listener Port (1024-65535)	16100	
Community	public	
Hostname	localhost	
Trap Port	162	
OK Cancel Help		

Figure 3 Configure SNMP Agent Dialog Box

3 Enter the following configurations:

For This Setting	Enter
Listener Port	This option is currently unavailable.
Community	The trap receiver's community name, for example, public.
Hostname	The host name or IP address of the third-party management system.
Port	The number for the trap port where the SNMP Agent forwards trap notifications. If you have a Windows or UNIX OS SNMP service/daemon installed, do not set this option to 162.

- 4 Click OK.
- 5 On the File menu, click Save All.

This configures the SNMP Agent. You do not need to deploy or active the SNMP Agent, but you must start the SNMP Agent as described in **"Starting and Stopping SNMP Agents" on page 14**.

3.3 Configuring Third-Party SNMP Management Systems

For a third-party management system to receive the eGate Integrator SNMP trap notifications, you must load the SNMP MIB into your management system.

The SNMP Agent MIB, **EGATE50-SNMP-V2-MIB.txt**, is located in the *<ICANsuite*\monitor\config\snmpagent directory, where *<ICANSuite*> is the directory where you installed eGate Integrator.

For more information about the SNMP Agent MIB, refer to **"About the SNMP Agent MIB" on page 9**.

Managing SNMP Agents

You can start and stop SNMP agents in the Enterprise Manager. Reconfiguring SNMP Agents is part of the Enterprise Designer. This chapter provides instructions for managing SNMP Agents.

In This Chapter:

- Starting and Stopping SNMP Agents on page 14
- Reconfiguring SNMP Agents on page 15

4.1 Starting and Stopping SNMP Agents

After installing the SNMP Agent, you must have configured the agent as described in **"Configuring SNMP Agents" on page 12**. You then must start the SNMP Agent to start forwarding SNMP trap notification as described below.

To start and stop SNMP Agents

1 In Internet Explorer, start the Enterprise Manager by entering the following URL:

http://hostname:portnumber

where *hostname* is the name or IP address of the host where the Repository runs and *portnumber* is the number of the port for the Repository.

2 Enter the user name and password and click **Login**.

The Enterprise Manager **Home** page appears.

- 3 Click the **Monitor** icon. The **Monitor** page appears.
- 4 Click **SNMP Agent** and click **Controls**. The **Controls** page shows the stop and start status of the SNMP Agent as shown below.

Environment Explorer	Details: SNMPAgent
Project Environment	Alerts List Logging Controls
myRepository □- SNMPAgent ⊕- ∰ Environment1 ⊕- ∰ Environment2	Start Stop SNMPAgent is stopped
Alerts update Repository update	n

Figure 4 Viewing the SNMP Agent Status

5 To start the agent, click **Start**.

Note: If you are starting the SNMP Agent for the first time, and the Enterprise Manager was active while you installed and configured the SNMP Agent, you must click *Repository Update* before starting the agent.

6 To stop the agent, click **Stop**.

4.2 **Reconfiguring SNMP Agents**

To reconfigure an SNMP Agent for an eGate Project that has already been deployed, follow the procedure below:

To reconfigure SNMP agents

- 1 Stop the SNMP Agent as described in the section above.
- 2 Configure the SNMP Agent as described in "Configuring SNMP Agents" on page 12.
- 3 Restart the SNMP Agent as described in the section above.

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