IBM Electronic Service Agent for IBM eServer xSeries and Netfinity

Version 3.0

User's Guide

Total Pages: 53

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Note:

Before using this information and the product it supports, read the information in Appendix A, "Notices and Trademarks," on page 48.

FIRST EDITION (June 2003)

This edition applies to version 3.0 of IBM® Electronic Service Agent TM for IBM® eServerTM xSeries® and Netfinity® (product number 5639-L09) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Table of Contents

Chapter 1. About This User's Guide	5
Introduction	
Who Should Read This Guide	5
Conventions Used in This Manual	5
Chapter 2. Understanding Electronic Service Agent	6
What is Electronic Service Agent?	6
How Electronic Service Agent Works	6
What Electronic Service Agent Will Do For You	
Security Controls	7
Communications	7
Administrative User	
Chapter 3. Before You Install	8
System Requirements	
Network Requirements	8
Domain Name Server	8
Firewalls	10
Prerequisites	10
Chapter 4. Installation	11
Obtaining Electronic Service Agent Code	
Installing Gateway	
Installing Data Collectors	
Configuring Data Collector Manually	
Installing Electronic Service Agent if IBM Director is Already Installed	
Uninstalling Electronic Service Agent	
Chapter 5. Configuration	
Configuring a Gateway	
System Status	24
Company	29
Contact	30
Location	31
Communications	32
Advanced	34
Configuration End	
Configuring a Data Collector	35
System Status	
Company	42
Contact	43
Location	44
Communications	45
Advanced	46
Configuration End	46
Chapter 6. Support	
Entitlement to Automatic Problem Submission	
Contacting Support	47
Web Sites	47

IBM PC Support and Information	. 47
IBM Support Center contact information	. 47
Electronic Service Agent installation package	. 47
Appendix A. Notices and Trademarks	
Notices	. 48
Trademarks	. 49
Appendix B. Remote Installation	50
Appendix C. Glossary	53
Appendix D. Forms	55
Company Form	55
Contact Form	55
Location Form	55
Machine List Form	56

Chapter 1. About This User's Guide

Introduction

This guide provides overview information, prerequisite information, installation instructions, and configuration instructions for the IBM® Electronic Service AgentTM for IBM eServer TM xSeries® and Netfinity®, Version 3.0, hereafter referred to as "Electronic Service Agent."

Who Should Read This Guide

This document is intended for use by the Information Technology or network administrators who are responsible for WindowsTM systems. Readers should have extensive knowledge of their LAN environment and a general knowledge of operating systems.

Conventions Used in This Manual

This guide uses several typeface conventions for special terms and actions, as follows:

Bold

Commands and other controls, keywords, and other information you should use literally appear in **bold**. *Italics* Variables that you must provide appear in *italics*. Monospace Examples of code or text you should type appear in monospace.

Chapter 2. Understanding Electronic Service Agent

What is Electronic Service Agent?

Electronic Service Agent is a secure, remote, information-gathering program designed to help you minimize the resources required to run and maintain your networked computers, increase your systems' availability, and aid IBM in servicing and maintaining your systems.

Electronic Service Agent monitors your system hardware for errors and automatically sends service information to a secure central IBM server. This information includes:

- ^a Inventory data, such as hardware and software configuration error conditions
- System state information
- ^a Service requests to IBM Support Center when a hardware error is detected

This information is used by IBM to reduce server downtime and to provide enhanced problem determination and resolution. When Electronic Service Agent automatically detects and transmits a hardware error to IBM, you will be contacted by the IBM xSeries Support Center.



Electronic Service Agent is installed on every system you want monitored. Each system being monitored is designated as a Data Collector, and one system within your network is designated as a Gateway, which is also considered a managed system. The Data Collector gathers information about your system and forwards it to the Gateway. The Gateway machine formats all the information and sends the collected data to IBM, either by dial-up or via the Internet.

How Electronic Service Agent Works

What Electronic Service Agent Will Do For You

Electronic Service Agent will:

- ^a Collect information about your hardware configuration and the software installed
- Monitor your hardware
- ^{**D**} Issue a Service Request in the event of a failure
- ^D Report the failing Field Replaceable Unit (FRU), if available
- ^a Prompt a callback from the IBM xSeries Support Center¹
- ^D Communicate periodically with IBM to report the operational status of each of the managed systems

Security Controls

Communications

Electronic Service Agent accesses only machine inventory and error data. <u>No unique customer data is</u> <u>ever accessed</u>. Managed systems communicate with the Gateway by using Secure Socket Layer (SSL) to encrypt the data stream.

Electronic Service Agent only allows for outbound calls to be created from your location. <u>No inbound</u> <u>calls are allowed</u>. Electronic Service Agent communicates with IBM using an IBM Certified Secure Network structure. This is to protect both IBM and you from malicious attacks attempted by other users of the shared public infrastructure.

Administrative User

Access to programs providing control over Electronic Service Agent is restricted to users with Windows Administrative rights. Access to Electronic Service Agent control files and collected data is similarly restricted.

¹ The machine must be under warranty or have an IBM Service Agreement.

Chapter 3. Before You Install

Before starting to install, you should verify that all of the systems meet the requirements and that the prerequisites have been met.

System Requirements

The following table shows the software and hardware requirements for installing and running Electronic Service Agent.

Operating System	 Windows 2000 (Service Pack 3 required) 	
	 Windows 2000 Server (Service Pack 3 required) 	
	 Windows 2000 Advanced Server (Service Pack 3 required) 	
Microprocessor	x86 (Pentium or higher)	
Hard disk space	110 mb available	
	The Gateway requires 100 mb, plus 10 mb per Data Collector	
Modem or Internet access	Required for Gateway machine	

Network Requirements

Domain Name Server

The Data Collector systems and Gateway communicate with each other using a Local Area Network (LAN). Normally the host names of the systems will be obtained using a Domain Name Server (DNS). It is a requirement that all systems running Electronic Service Agent and communicating with each other be able to resolve the system hostnames. It is expected that in most cases all Electronic Service Agent machines will be on the same subnet, but this is not a strict requirement for operation. Electronic Service Agent is intended for a production environment where the network configuration is not undergoing major changes such as systems moving to new subnets.

This is easy to verify using the following procedure:

- 1. From the Windows screen, enter **Start->Run.** You see an entry box.
- 2. Enter **cmd.exe.** A command window opens.
- 3. Enter **ping** *machine*, where "*machine*" is the name of the machine to be contacted.

As an example, consider two machines named quartz and slate, each operating in the role of Data Collectors and a machine named ruby acting as a Gateway.

The two machines executing as Data Collectors would execute the command:

ping ruby

The Gateway machine, ruby, would execute the commands:

ping quartz ping slate

In all cases, the ping command should show that the destination machine name is resolved. The name resolution is the indication of success, not necessarily the data transmission. This is because some systems ignore ping requests.

An example of successful name resolution in which data is transmitted:

C:\>ping www.ibm.com
Pinging www.ibm.com [129.42.16.99] with 32 bytes of data:
Reply from 129.42.16.99: bytes=32 time=130ms TTL=231
Reply from 129.42.16.99: bytes=32 time=121ms TTL=231
Reply from 129.42.16.99: bytes=32 time=150ms TTL=231
Ping statistics for 129.42.16.99:
 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
 Minimum = 121ms, Maximum = 150ms, Average = 132ms

An example of successful name resolution in which no data is transmitted:

C:\>ping www.ibm.com
Pinging www.ibm.com [129.42.16.99] with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 129.42.16.99:
 Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
Approximate round trip times in milli-seconds:
 Minimum = 0ms, Maximum = 0ms, Average = 0ms

An example of unsuccessful name resolution:

C:\>ping www.ibm.com Unknown host www.ibm.com.

Should name resolution not be enabled, it is necessary to tell machines how to resolve a host name. If any machine is unable to ping a machine by the host name, as shown in the example above, you will need to enter the IP address and host name in the `hosts' file on the machine.

For example, if machine ruby was not able to ping machine slate, you would edit the hosts file on machine ruby and create an entry containing the IP address of machine ruby.

The hosts file will typically be found as: C:\WINNT\system32\drivers\etc\hosts If the IP address of ruby is 12.20.137.15, the hosts entry would appear as: 12.20.137.15 ruby

You can obtain the IP address of a machine by executing the ipconfig command in a DOS window.

Firewalls

The normal operation of Electronic Service Agent is "Auto Discovery," in which the Data Collector systems are able to locate a Gateway system. This is accomplished by the Data Collector executing a multicast operation to network address 239.1.2.3 and port 5557.

It would be unusual to have a hardware firewall between a Data Collector and a Gateway. If there is a hardware firewall, you will need to allow ports 5557 (UDP) and 19955 (TCP) to be open. The mechanics of this are dependent on the hardware in use.

If a system is running a software firewall, it must be configured to allow the Java program to communicate through the firewall. The exact procedure will depend on the firewall used. The typical method will be to allow the following program to communicate TCP/UDP protocol: "C:\Program Files\IBM\ServiceAgent_jvm\jre\bin\javaw.exe"

This is the default installation location. If an alternate installation location is chosen, the path will have to be modified accordingly.

The normal data communications port is 19955. If this port is blocked by a firewall, it will be necessary to enable communications on this port. If a different port is selected for communications, as discussed in "Configuring Data Collector Manually" on page 20, and a firewall is in use, it will be necessary to enable use of the selected port.

Prerequisites

To prepare your environment for installing and configuring Electronic Service Agent, please complete the following steps:

- 1. Identify which machine will be used as the Gateway machine.
- 2. Ensure that the Gateway machine has access to a 56 Kbs modem capable of dialing the IBM Electronic Service site, or has access to the Internet. If a modem if used, be sure that the modem is connected and operational.
- 3. Ensure that the Gateway machine and all of the Data Collector machines meet the system requirements.
- 4. Ensure the person installing Electronic Service Agent has Administrator authority.
- 5. Ensure that the monitored machine is under warranty or has an IBM Service agreement.
- 6. Fill out the required information forms. To expedite configuration, forms are provided in "Appendix D. Forms" on page 55.

Chapter 4. Installation

Obtaining Electronic Service Agent Code

Electronic Service Agent is available by download from an IBM web site using your browser. To obtain the code:

- 1. Access the following web site: Http://www.pc.ibm.com/qtechinfo/MIGR-40870.html
- 2. Download a package consisting of:
 - ^{**D**} The file 5639-n89-30.exe. Save this to a temporary directory.
 - This user's guide. Save to a directory where you can print it.
 - A Readme file. Save to a directory where you can print it or read it online.
 - An installation options file. This file can be used for the remote installation of one or more Data Collectors. Please see "Appendix B. Remote Installation" on page 50 for instructions on using this file.

Installing Gateway

Notes:

- 1. You must install and configure Gateway before installing data collectors.
- 2. The installation involves restarting Windows. Do not begin installation if Windows can't be restarted at this time.
- 3. If you see a pop-up window containing an alert, click **OK** and continue the installation process. More information about this pop-up may be included in the Readme file.

To install the Gateway code:

1. Access the 5639-n89-30.exe file in the temporary directory where you saved it.

2. Execute the file to invoke the install wizard. You see a screen asking you to select an installation type.

IBM Electronic Servi	e Agent (tm) Version 3.0
S.	Electronic Service Agent gathers inventory and error information about your system. The information is sent to an IBM service center and stored there where it is available to you and the IBM support staff.
	Electronic Service Agent supports two types of system installations: 1) a system which simply collects data 2) a gateway system which collects data and communicates with IBM. Generally, there is only one system which communicates with IBM per site and it should be installed first. For this type of system select Gateway. For all other systems, select Data Collection.
	Select Installation Type:
	C Data Collection
	(€ [Gateway]
InstallShield	
	 Back Next > Cancel

3. Select **Gateway** and click **Next**. You see a screen asking you to select a language for displaying the license Agreement.

IBM Electronic Service A	ent (tm) Version 3.0 Select the language for display of the licensi	agreement.
E.	English	
1		
InstallShield		
		< Back Next > Cancel

4. Select the language and click **Next**. You see a screen asking you to read the license agreement.

IBM Electronic Service	Agent (tm) Version 3.0	- 🗆 ×
-	Please read the following license agreement carefully.	
	International License Agreement fo Services Programs	or
	Table of Contents Part 1- General Terms	*
installShield	 I accept the terms of the license agreement. I do not accept the terms of the license agreement. 	_
THIORNING THE C	Back Next >	Cancel

5. Select the option to accept the terms of the agreement and click **Next**. You see a screen asking where (in which directory) you want Electronic Service Agent installed.

IBM Electronic Service	Agent (tm) Version 3.0	_ 🗆 ×
	Click Next to install "IBM Electronic Service Agent" install to a different directory.	to this directory, or click Browse to
	Directory Name:	
	C:\Program Files\IBM\ServiceAgent	
		Browse
-		
InstallShield		
	< Ba	ick Next > Cancel

6. Take the default or select **browse** for a new location. Click **Next**. You see a confirmation screen.

BM Electronic Service A	gent (tm) Version 3.0	- 🗆 ×
	Please read the information below.	
	IBM Electronic Service Agent will be installed in the following location:	
	C:\Program Files\IBM\ServiceAgent	
	for a total size:	
	82.7 MB	
installShield		
	< Back Next >	Cancel

- 7. Verify your selections, and then click **Next**. A progress indicator will show how long the install process is taking.
- 8. You see a message telling you that the IBM Director Agent is being installed.



9. After IBM Director Agent has been installed, you see a message that the system must be restarted. Click **Next** to start the Process.

IBM Electronic Service A	gent (tm) Yersion 3.0	<u>_0×</u>
	The system must be restarted so that Service Agent can obtain informati necessary for configuration.	on
InstallShield -	[
	< Back Next >	Cancel

10. After the machine is restarted, you see the System Status screen, which lets you start configuring the Gateway. You must configure the Gateway before installing the Data Collectors. Please see "Chapter 5. Configuration."

Installing Data Collectors

Notes:

- 1. You must install and configure Gateway before installing data collectors.
- 2. The installation involves restarting Windows. Do not begin installation if Windows can't be restarted at this time.

To install the Data Collection code:

1. Access the 5639-n89-30.exe file in the temporary directory where you saved it.

2. Execute the file to invoke the install wizard. You see a screen asking you to select an installation type.

IBM Electronic Servi	ce Agent (tm) Version 3.0	
	Electronic Service Agent gathers inventory and error in system. The information is sent to an IBM service cer it is available to you and the IBM support staff. Electronic Service Agent supports two types of system which simply collects data 2) a gateway system whic communicates with IBM. Generally, there is only one communicates with IBM per site and it should be insta system select Gateway. For all other systems, select	nter and stored there where n installations: 1) a system th collects data and system which alled first. For this type of
2	Select Installation Type: © Data Collection © Gateway	
InstallShield	- Back	Next> Cancel

- 3. Select **Data Collection** and click **Next**. You see a screen asking you to select a language for displaying the license Agreement. (Please see the screens in the previous section for the remainder of this process. The screens for Gateway and Data Collection are identical.)
- 4. Select the language and click **Next**. You see a screen asking you to read the license agreement.
- 5. Select the option to accept the terms of the agreement and click **Next**. You see a screen asking where (in which directory) you want Electronic Service Agent installed.
- 6. Take the default or select browse for a new location. Click Next. You see a confirmation screen.
- 7. Verify your selections, and then click **Next**. A progress indicator will show how long the install process is taking. You see a message telling you that the IBM Director Agent is being installed.
- 8. After IBM Director Agent has been installed, you see a message that the system must be restarted.

9. Click **Next** to restart the machine. When Windows is restarted, you see a screen containing configuration choices.

IBM Electronic Service A	gent (tm) Version 3.0	
	The recommended procedure is to allow a Data Collection system to automatically detect a Gateway system. If necessary you can manually er and address information.	iter port
	 Automatically detect Gateway system. 	
	C Manually enter port and network information.	
InstallShield		
THE PARTNER WITH THE PARTNER WITH	< Back	Cancel

10. Do one of these:

- Select "Automatically detect Gateway System" to have the Data Collector configure itself. This option is not available if you install a Data Collector on a separate subnet. See the next section of this document for directions for dealing with this situation.
- ^a Select "Manually enter port and network information" to configure the data collector yourself.

Configuring Data Collector Manually

If you install a Data Collector system on a separate subnet from the location of your Gateway, you cannot use the standard auto configuration. This is because the multicast used for auto discovery typically will not be passed across your router. In this situation:

1. On the screen shown above, select Manually enter port and network information.

2. You see a data entry screen.

BIBM Electronic Service A	gent (tm) Version 3.0	
	Enter the Hostname or IP address for the Gateway system. Leave blank to automaticaly discover the system.	
	Change the default port number used by this System.	
A	19955	
	Change the default port used by the Gateway system. If changed a hostnar must be supplied.	ne
InstallShield		
THE REAL PROPERTY OF THE PROPERTY OF THE REAL PROPE	< Back Next > C	ancel

3. Enter data as follows:

- In the first field, enter one of these:
 - A fully qualified hostname, for example, "abcgate.someplace.com" rather than just "abcgate."

An IP address such as "12.120.37.15"

In either case, make sure that your Data Collection machine can resolve the name given. You can check this by using the "ping" command on your Data Collector.

- In the second field, if you have other software that is using the port value 19955, and if you need to change the value only on a Data Collection system, enter a new port.
- In the third field, if you need to alter the port used by both Data Collection and Gateway systems, enter the new port for the Gateway system. In many cases, it will be the same as the port for the Data Collection system. Click Next.

Installing Electronic Service Agent if IBM Director is Already Installed

If IBM Director 4.1 is already installed, you must install Electronic Service Agent Version 3.0 on the Director Server or the Director console. Electronic Service Agent Version 3.0 cannot be installed on a Director managed server.

If IBM Director 3.1.1 is already installed, you must either upgrade to IBM Director 4.1, or install Electronic Service Agent Version 2.1.

Please refer to *IBM Electronic Service Agent for IBM eServer xSeries and Netfinity Version* 3.0 - *Director Extension User's Guide* for instructions.

Uninstalling Electronic Service Agent

Before uninstalling Electronic Service Agent, check to be sure that your machine is not a Gateway being used by one or more Data Collectors. Uninstalling the program would disable Electronic Service Agent on those machines.

To uninstall Electronic Service Agent, use the Windows Add/Remove programs function:

1. Select **Start -> Settings -> Control Panel -> Add/Remove Programs.** You see the Add/Remove Programs screen.

Currently installed programs:	Sort by: Name		
e or 🔥 Adobe Acrobat 5.0	Size	15.9MB	
ams AFP Workbench for Windows	Size	5.53MB	
AT&T Network Client	Size	11.3MB	
ConfigSafe	Size	70.7MB	
/ IBM Director Agent	Size	58.5MB	
Click here for <u>support information</u> .	Used	<u>rarely</u>	-
To change this program or remove it from your computer, click Change or Remove.	⊆hange	Remove	
State IBM Electronic Service Agent	Size	40.1MB	
📆 IBM Global Network Dialer	Size	1.87MB	
IBM Migration Restore Assistant for ISCI	Size	72.0KB	
🛃 IBM Personal Communications	Size	111MB	
IBM System Migration Assistant 3.1	Size	72,0KB	
IBM ThinkPad Configuration	Size	2,15MB	
🐺 IBM TrackPoint Accessibility Features	Size	1.25MB	
BM TrackPoint Support			
Infoprint Select	Size	4,96MB	
	<u>11</u> 10		

- 2. Highlight IBM Director and click Remove. You must remove this program first.
- 3. Highlight IBM Electronic Service Agent and click Remove.

Chapter 5. Configuration

The Electronic Service Agent Manager program collects information about your company and your systems.

The Electronic Service Agent Manager <u>must</u> be executed for Gateways. It automatically starts right after installation.

Configuration is usually not required for Data Collectors. The Data Collectors employ a method of Auto-Discovery to download configuration information from the Gateway to the Data Collectors. If you do have to make a change in configuration, you may override the default information by running the Electronic Service Agent Manager on the Data Collector. This might be done if the Data Collector has a different location or contact name than the Gateway server.

To invoke the Electronic Service Agent Manager, for the purpose of configuring a Gateway or a Data Collector, execute the following program:

c:\Program Files\ibm\ServiceAgent\esa\bin\esamanager.exe
 (where c:\Program Files\ibm\ServiceAgent is the directory where you have stored
 your files).

There are six areas, each represented by a tab, that can be configured.

System Status: this tab reports the current status of Electronic Service Agent and allows you to start and stop it.

Company: contains information about your company.

Contact: contains information about whoever is responsible for this system.

Location: describes where this system is located

Communications: contains information about the network setup.

Advanced: lets you define who can view the data.

For each tab:

- 1. Fill in data as requested. Mandatory fields are signified by an asterisk.
- 2. At the bottom of each page, you see three tabs: OK, Cancel, and Apply.
- 3. Do one of these:
 - Click Apply to save your changes and remain on the page
 - Click **Cancel** to cancel changes and exit the application
 - Click **OK** to save changes and exit the application
- 4. Click another tab to configure another page. You can select tabs in any order you wish.
- 5. Fill in data and click **Apply**.
- 6. When you have completed configuring all required fields, click **OK** to save all your changes and exit the Configuration process.

Configuring a Gateway

System Status

When you install Electronic Service Agent on a Gateway, you see the System Status screen for Data Collection & Gateway.

ystem Name Machine Type Model Serial Number	W-DEBBJ2 2645 4AU 78BKZA2	Service Agent is not configured.	
Role	Data Collection & Gateway		

This screen reports on the current status of Electronic Service Agent and provides a method to start or stop the program. The Name, Machine Type, Model, and Serial are shown as they will be sent to IBM.

The Status field displays one of the following messages:

	gent(tm) Version 3.0 any Contact Location Communicat		_10
System Name Machine Type Model Serial Number Role	W-DEBBJ2 2645 4AU 78BKZA2 Data Collection & Gateway	Service Agent is not configured.	
	OK Can	zet Apply	

Service Agent is not configured. This is the initial status before you have completed configuration.

Comina	Acomt	10 0	atommod	a a material	manually	maatantad
Service	Agent	IS 5	sionea	umun	manuany	restarted.
~ ~ ~ ~ ~ ~ ~						100000000

lectronic Service	Agent(tm) Version 3.0	
stem Status Corr	ipany Contact Location Comm	nunications Advanced
	panyl connect coontonl conn	initiation of Frankrice (
System		
Name	W-DEBBJ2	
Hame		Status
Machine Type	2645	Openities the second standard sector and sector and sector
Model	4AU	Service Agent is stopped until manually restarted.
		Start
Serial Number	78BKZA2	
Role	Data Collection & Gateway	
	1	A CONTRACT OF A
	OK	Cancel Apply

You can elect to start Electronic Service Agent by clicking the **Start** button, or you can wait until the next reboot.

Service Agent is stopped until the next reboot.

tronic Service Agent(tm) Version 3.0	
m Status Company Contact Location Comm stem ame W-DEBBJ2 achine Type 2645 odel 4AU erial Number 78BKZA2 ole Data Collection & Gateway	unications Advanced Status Service Agent is stopped until the next reboot. Start

You can click **Start** or wait until the next reboot.

/stem		Status
Name	W-DEBBJ2	Service Agent is running but NOT reporting data to IBM.
Machine Type	2645	Start reporting data to IBM
Nodel	4AU	C Stop Service Agent until next reboot
Serial Number	78BKZA2	C Stop Service Agent until manually restarted
Role	Data Collection & Gateway	Change Status

Service Agent is running but not reporting data to IBM.

You can select one of the following options:

- Start reporting data to IBM.
- Stop Electronic Service Agent until next reboot.
- Stop Electronic Service Agent until manually restarted.

If you make changes, click **Apply** to save them.

The following sections describe the pages you have the option of changing for the purpose of configuring the Gateway.

Company

This screen requests information about your company.

Electronic Service Agen	t(tm) Version 3.0
System Status Company	Contact Location Communications Advanced
Company*	IBM Corporation
Country or Region*	UNITED STATES
Telephone*	5035784826
Extension	123
email	[info@ibm.com
	IBM 'Enterprise Number' or 'ECI ID' it helps IBM ensure that you receive any special services arranged with IBM. Please see the User's Guide for more information.
Enterprise or ECI ID	123
	OK Cancel Apply

Fill in data as follows and click **Apply**:

Company: free-form text field

Country or Region: select from pull-down menu

Telephone: telephone number (10 digits in the U.S., beginning with area code), no parentheses, hyphens, or spaces

Extension: free-form field

email: your company's Internet address, such as abc@abc.com.

Enterprise or ECI ID: enter one of these:

- ^D Your IBM-assigned Enterprise number. An Enterprise is a grouping of customer numbers.
- Your Electrontic Customer Interface (ECI) ID. These numbers are used to identify customers and their associated service agreement terms. Your purchasing team may be able to provide an ECI ID.

Note: An ECI ID is also known as ESC+ ID or ECCOID.

Contact

This screen contains information about the person who supports this machine. This is the person IBM would be contacting in the event of a problem.

Electronic Service Agent	(tm) Version 3.0	- 🗆 🗡
System Status Company	Contact Location Communications Advanced	
Contact name*	John Smith	
Country or Region*	UNITED STATES	×
Telephone*	5035784826	
Extension	123	
email*	john@ibm.com	
]
	OK Cancel Apply	
]
	System Status Company Contact name* Country or Region* Telephone* Extension	Country or Region* UNITED STATES Telephone* 5035784826 Extension 123 email* john@ibm.com

Fill in data as follows, and and click Apply:

Contact name: free-form text field

Country or Region: select from pull-down menu

Telephone: telephone number (10 digits in the U.S., beginning with area code), no parentheses,

hyphens, or spaces

Extension: free-form field

email: your Internet address, such as janedoe@abc.com

Location

This screen requests information about the location of the machine. This is NOT the mailing address: it is the physical location used by IBM to dispatch a field service representative.

fype in details of the loca find the system if a Servic	ation of your managed systems. This Information is used by the IBM service representative to ce Request is sent to IBM.
Building, Floor, Office*	Rhein Second floor
Country or Region*	UNITED STATES
Address*	15300 SW Koll Parkway
City∕*	Beaverton
State / Province*	Oregon
Post/Zip Code*	97006

Fill in data as follows and click **Apply**:

Building, Floor, Office: free-form text field Country or Region: select from pull-down menu Address: street address, free-form text City: free-form text State/Province: select from pull-down menu if one exists for your country/region Post /Zip Code: free-form text

Communications

The Gateway can communicate with IBM in one of two ways: Via a dial-up modem. Via the Internet.

The Communications screen asks you to select a connection method: Dial-Up or Internet.

onnection to IBM - • Dial-Up		Connection to this system		
C Internet		Port Number*	19955	
ial-Up Connection	Details			
Modem*	ThinkPad Modem			*
Country*	UNITED STATES			¥
Region*	Oregon			¥
City*	503-268-0305 Beaverton			Ŧ
Number to dial*	9503-268-0305			
			Test Connec	tior:

The "Connection to this system" port number is the port the Data Collectors will use to send data to this Gateway. You can accept the default or override it.

Communications/Dial-up

1. Select "Dial-up." You see a screen asking for dial-up connection details.

Connection to IBM		Connection to this system	i	
Oial-Up				
C Internet		Port Number*	19955	
Dial-Up Connection Details				
Modem*				*
Country* UNITED STA	TES			*
Region*				
City*				*
Number to dial*				
			Test C	onnection
	ок Га	ancel Apply		

- 2. Fill in these fields:
 - ^D Modem: if there is more than one modem on your system, you can select which modem to use.
 - Country: select from pull-down menu
 - Region: select from pull-down menu
 - City: select from list that includes phone numbers followed by city names. Choose the combination that has the least calling charge associated with it.
 - Number to dial: this is a free-form field that lets you insert a "9" or other number if necessary to access a dial tone.
- 3. Click **Test Connection** to test your changes.
 - Testing the dialer communication may take a moment. A progress indicator will indicate approximately how long.
 - [•] This action tests the settings you entered: it detects the modem, verifies the phone line is connected and active, and verifies the connection to IBM.
 - If you are changing settings that are working and the test fails, click Cancel. The existing setting remain unchanged. (Be sure that you have clicked Apply to save changes to other screens. If you haven't, your changes will be lost.)

Communications/Internet

1. Select "Internet." You see a screen asking for Internet connection details.

onnection to IBM	Connect	tion to this system	
C Dial-Up			
 Internet 	Port N	umber*	19955
ternet Connection Details			
🗖 Use proxy			
Proxy Address*			
Port Number*			
			Test Connectio
	OK Cancel	Apply	

- 2. Fill in fields
 - ^D For a direct connection, leave the "Use proxy" box unchecked.
 - For a proxy connection, check the "Use proxy" box. You must then: Fill in the proxy address. This can be either the dotted decimal or fully qualified domain name format.

Fill in a corresponding port.

- 3. Click **Test Connection** to test your changes. This will resolve the proxy address, contact the proxy server, resolve the IBM address, and establish a secure connection to IBM.
- 4. If the test fails, click **Cancel**. (Be sure that you have clicked **Apply** to save changes to other screens. If you haven't, your changes will be lost.)

Advanced

IBM provides a web site where you can view the data for the systems you have enabled. This web site contains all the inventory data for the machines serviced by Electronic Service Agent.

The Advanced panel allows you to authorize up to two users to view this data.

	rvice Agent(tm) Version :	3.0	_
em Status	Company Contact Loc	cation Communications	lvanced
thorize W	eb Users		
uthorize u			you have enabled for Electronic Services. To ommon Registration user IDs. Please see the
lser ID(s)	userOne		userTwo
		perform further user ID main http://www.ibm.com/suppore	t/electronic
9M⊛ Electro ava and all ficrosoft, Wi ther countri	onio Service Agent(tm) for IBM Java-based trademarks are trad indows, Windows NT, Windows es, or both.	http://www.ibm.com/suppor eServer(tm) for xSeries® and Net demarks of Sun Microsystems, Inc XP and the Windows logo are tra	<mark>Velectronic</mark> finity® . In the United States, other countries, or both. demarks of Microsoft Corporation in the United States,
9M⊛ Electro ava and all ficrosoft, Wi ther countri	onio Service Agent(tm) for IBM Java-based trademarks are trad indows, Windows NT, Windows es, or both.	http://www.ibm.com/suppo eServer(tm) for xSeries® and Net demarks of Sun Microsystems, Inc	<mark>Velectronic</mark> finity® . In the United States, other countries, or both. demarks of Microsoft Corporation in the United States,
9M⊛ Electro ava and all ficrosoft, Wi ther countri	onio Service Agent(tm) for IBM Java-based trademarks are trad indows, Windows NT, Windows es, or both.	http://www.ibm.com/suppor eServer(tm) for xSeries® and Net demarks of Sun Microsystems, Inc XP and the Windows logo are tra	<mark>Velectronic</mark> finity® . In the United States, other countries, or both. demarks of Microsoft Corporation in the United States,
9M⊛ Electro ava and all ficrosoft, Wi ther countri	onio Service Agent(tm) for IBM Java-based trademarks are trad indows, Windows NT, Windows es, or both.	http://www.ibm.com/suppor eServer(tm) for xSeries® and Net demarks of Sun Microsystems, Inc XP and the Windows logo are tra may be trademarks or service mark	traity® In the United States, other countries, or both, demarks of Microsoft Corporation in the United States, is of others.

For example, you might want to authorize a customer's contact and the contact's manager. These rules apply:

The users you authorize must have an IBM Common Registration ID. To obtain this registration, have the users sign on to IBM Registration at http://www.ibm.com/registration/selfreg.

You may add more than two users by visiting <u>http://www.ibm.com/support/electronic</u>. This web site provides more details about the Advanced function.

Configuration End

When all of the panels are complete, click OK.

Configuring a Data Collector

The Data Collector will configure itself by means of "Auto Discovery" at installation time, so it will probably not be necessary for you to do any further configuration. However, if you need to make changes, you can change any of the configuration items by running the Electronic Service Agent Manager on the Data Collector. This might be done if the Data Collector has a different location or contact name than the Gateway server.

To invoke the Electronic Service Agent Manager, for the purpose of configuring a Data Collector, execute the following program:

c:\Program Files\ibm\ServiceAgent\esa\bin\esamanager.exe (where c:\Program Files\ibm\ServiceAgent is the directory where you have stored your files).

System Status

When you install Electronic Service Agent on a Data Collector, you see the System Status screen for Data Collection & Transmission.

ystem			
Name	W-DEBBJ2	Status	
Machine Type	2645		
Model	4AU	Service Agent is stopped until manually restarted.	
Serial Number	78BKZA2		Start
Role	Data Collection		
	09	Cancel Apply	

This screen reports on the current status of Electronic Service Agent and provides a method to start or stop the program. The Name, Machine Type, Model, and Serial are shown as they will be sent to IBM.

The Status field displays one of the following messages:

ystem			
Name	W-DEBBJ2		
Machine Type	2645	Status	
Model	4AU	Service Agent is not configured.	
Serial Number	78BKZA2		
Role	Data Collection		

Service Agent is not configured. This is the initial status before you have completed configuration.

ystem			
Name	W-DEBBJ2	Status	
Machine Type	2645		
Model	4AU	Service Agent is stopped until manually restarted.	
Serial Number	78BKZA2		Start
Role	Data Collection		

Service Agent is stopped until manually restarted.

You can elect to start Electronic Service Agent by clicking the **Start** button, or you can wait until the next reboot.

Service Agent is stopped until the next reboot.

ystem Name Machine Type Model Serial Number Role	W-DEBBJ2 2645 4AU 78BKZA2 Data Collection	Service Agent is stopped until the next reboot.	Start

You can click **Start** or wait until the next reboot.
lystem		Status
Name	W-DEBBJ2	Service Agent is running but NOT reporting data to IBM.
Machine Type	2645	C Start reporting data to IBM
Model	4AU	C Stop Service Agent until next reboot
Serial Number	78BKZA2	C Stop Service Agent until manually restarted
Role	Data Collection	Change Status

Service Agent is running but not reporting data to IBM.

You can select one of the following options:

- Start reporting data to IBM.
- ^D Stop Electronic Service Agent until next reboot.
- ^D Stop Electronic Service Agent until manually restarted.

Service Agent is currently running.

ystem	-	Status
Name	W-DEBBJ2	Service Agent is currently running.
Machine Type	2645	Stop Service Agent from reporting data to IBM
Model	4AU	C Stop Service Agent until next reboot
Serial Number	78BKZA2	C Stop Service Agent until manually restarted
Role	Data Collection	Change Status

You can select one of the following options:

- Stop reporting data to IBM.
- ^D Stop Electronic Service Agent until next reboot.
- Stop Electronic Service Agent until manually restarted.

If you make changes, click **Apply** to save them.

The following sections describe the pages you have the option of changing for the purpose of configuring the Data Collector. Please note that many of the screens are the same as those used for configuring the Gateway, but they are repeated here for the convenience of users who may only wish to configure the Data Collector.

Company

This screen requests information about your company.

Electronic Service Agen	t(tm) Version 3.0
System Status Company	Contact Location Communications Advanced
Company*	IBM Corporation
Country or Region*	UNITED STATES
Telephone*	5035784826
Extension	123
email	[info@ibm.com
	IBM 'Enterprise Number' or 'ECI ID' it helps IBM ensure that you receive any special services arranged with IBM. Please see the User's Guide for more information.
Enterprise or ECI ID	123
	OK Cancel Apply

Fill in data as follows and click Apply:

Company: free-form text field

Country or Region: select from pull-down menu

Telephone: telephone number (10 digits in the U.S., beginning with area code), no parentheses,

hyphens, or spaces

Extension: free-form field

email: your company's Internet address, such as abc@abc.com

Enterprise or ECI ID: enter one of these:

- ^a Your IBM-assigned Enterprise number. An Enterprise is a grouping of customer numbers.
- Your Electrontic Customer Interface (ECI) ID. These numbers are used to identify customers and their associated service agreement terms. Your purchasing team may be able to provide an ECI ID.

Contact

This is information about the person who supports this machine. This is the person IBM would be contacting in the event of a problem on this machine.

Electronic Service Agen	t(tm) Version 3.0	_0×
System Status Company	Contact Location Communications Advanced	
Contact name*	John Smith	
Country or Region*	UNITED STATES	*
Telephone*	5035784826	
Extension	123	
email*	john@ibm.com	
	OK Cancel Apply	

Fill in data as follows, and and click **Apply**:

Contact name: free-form text field

Country or Region: select from pull-down menu

Telephone: telephone number (10 digits in the U.S., beginning with area code), no parentheses,

hyphens, or spaces

Extension: free-form field

email: your Internet address, such as janedoe@abc.com

Location

This screen requests information about the location of the machine. This is NOT the mailing address: it is the physical location used by IBM to dispatch a field service representative.

	ition of your managed systems. This information is used by the IBM service representative to se Request is sent to IBM.		
Building, Floor, Office*	Rhein Second floor		
Country or Region*	UNITED STATES		
\ddress*	15300 SW Koll Parkway		
City/*	Beaverton		
State / Province*	Oregon		
Post/Zip Code*	97006		
	OK Cancel Apply		

Fill in data as follows and click **Apply**:

Building, Floor, Office: free-form text field Country or Region: select from pull-down menu Address: street address, free-form text City: free-form text State/Province: select from pull-down menu Post /Zip Code: free-form text

Communications

You cannot use the Auto Discovery feature if:

- ^a You have installed a Data Collector on a separate subnet from the location of your Gateway
- You have other software that uses port 19955

In both cases, you will want to override the default setting for how this machine will communicate to the Gateway (Data Transmission System). The Communications tab lets you do this by filling in the 'Port Number' and 'IP address or host name' fields.

Electronic Service Agent(tm)	Version 3.0	
stern Status Company Cont	act Location Communications Advanced	
nem orangel oomponiet oom	The second s	
Connection to Gateway System	0	
Port Number*	19955	
IP address or host name*	esaGateway.lbm.com	
Connection to this system		
Port Number*	9955	
	OK Cancel Apply	

Port number:

- ^a Identifies which port the Data Collector will use to attempt to connect to the Gateway.
- ^a Must be changed if another application in the network uses the default port.
- Note: All Electronic Service Agent systems in the network must have the same port configured. The IP address or host name is the address or host name of the Gateway.
- This is normally blank and should be completed only if you do not want to use broadcast to contact the Gateway system, or the Gateway is unreachable by broadcast. This would be the case where the Data Collector and the Gateway are on separate subnets.

^D The host name should be entered as a fully qualified name or the IP address of the Gateway. The system port is the port number this machine will use to receive messages. Again, if you have software using port 19955, you will want to change this to an unused port. All port numbers are a decimal number up to 65535.

Advanced

IBM provides a web site where you can view the data for the systems you have enabled. This web site contains all the error data for the machines serviced by Electronic Service Agent.

The Advanced panel allows you to authorize up to two users to view this data.

lectronic 5	ervice Agent(tm) Version	3.0	
tem Status	Company Contact Lo	cation Communications Advanced	1
luthorize V	Veb Users		
authorize u		an view details of the systems you hav lation, enter one or two IBM Common I	e enabled for Electronic Services. To Registration user IDs. Please see the
User ID(s)	userOne	userTw	0
Java and al Microsoft, W other count	l Java-based trademarks are tra Vindows, Windows NT, Windows ries, or both.	1	f Microsoft Corporation in the United States,
Uthercomp	any, product or service names	may be trademarks or service marks of other	5.
		OK Cancel Apply	
		OK Cancel Apply	

For example, you might want to authorize a customer's contact and the contact's manager. These rules apply:

The users you authorize must have an IBM Common Registration ID. To obtain this registration, have the users sign on to IBM Registration at https://www.ibm.com/registration/selfreg.

You may add more than two users by visiting <u>http://www.ibm.com/support/electronic</u>. This web site provides more details about the Advanced function.

Configuration End

When all of the panels are complete, click **OK**.

Chapter 6. Support

Entitlement to Automatic Problem Submission

You are entitled to automatic problem submission from IBM only if your systems are under warranty and/or your organization has a maintenance agreement with IBM Service. This service program is not intended for customers who have a third party maintaining the xSeries and Netfinity servers. IBM's standard warranty response time is the next business day unless you have purchased an upgrade to the service level agreement.

Contacting Support

If you encounter problems or have technical questions regarding Electronic Service Agent, you should call your nearest IBM support center. You can obtain support center contact details that are appropriate for your country/region from the following web site:

http://publib.boulder.ibm.com/pubs/html/as400/v4r4/ic2924/info/rzajitbl.htm

If you are a resident in the United States, contact support at 1-800-IBM-SERV (1-800-426-7378). hardware support. You should have your machine type and serial number ready to give to the IBM support staff. Your machine type is identified by a four-digit number.

Web Sites

IBM PC Support and Information http://www-3.ibm.com/pc/support/site.wss/

IBM Support Center contact information http://publib.boulder.ibm.com/pubs/html/as400/v4r4/ic2924/info/rzajitbl.htm

Electronic Service Agent installation package http://www.pc.ibm.com/qtechinfo/MIGR-40870.html

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Appendix B. Remote Installation

IBM Electronic Service Agent gives you the ability to remotely install one or more Data Collectors, using an installation options file named "datacollector.rsp." This file contains the default options for Data Collectors that are installed on the same subnet as the Gateway. To use this file for Data Collectors on different subnets, refer to "Configuring Data Collector Manually" in Chapter 4.

The contents of the file are included here.

InstallShield Options File # # Wizard name: Setup # Wizard source: setup.jar # Created on: Thu May 22 12:41:37 PDT 2003 # Created by: InstallShield Options File Generator # # This file contains values that are necessary to remotely install Electronic # Service Agent. It can be used to configure Setup with the options specified # below when the wizard is run with the "-options" command line option. Read # each setting's documentation for information on how to change its value. # # A common use of an options file is to run the wizard in silent mode. This lets # the options file author specify wizard settings without having to run the # wizard in graphical or console mode. To use this options file for silent mode # execution, use the following command line arguments when running the wizard: # # 5639-n89-30.exe -options "datacollector.rsp" -silent # # NOTE: The system must be rebooted after the remote install. The reboot is not part of the default action. # ##### ##### # User Input Field - SystemType # -W dadtChoice.SystemType="collection"

User Input Field - language
#

-W licenseLanguage.language="EN"

License Agreement State # # The initial state of the License Agreement panel. Legal values are: # # 0 - Nothing will be selected # 1 - "I &accept the terms of the license agreement." will be selected 2 - "I &do not accept the terms of the license agreement." will be # # selected # # For example, to configure the panel to initially display "I &accept the terms # of the license agreement.", use #-WlpEnglish.selection=1 # #One of the values below must be '1' and all the others '2'. # -W lpChineseTaiwan.selection=2 -W lpChinesePrc.selection=2 -W lpEnglish.selection=1 -W lpFrench.selection=2 -W lpGerman.selection=2 -W lpItalian.selection=2 -W lpJapanese.selection=2 -W lpKorean.selection=2 -W lpSpanish.selection=2

#

IBM Electronic Service Agent Install Location

#

The install location of the product. Specify a valid directory into which the

product should be installed.

If the directory contains spaces, enclose it in double-quotes. For example, to

install the product to C:Program FilesMy Product, use

#

-P installLocation="C:Program Files\My Product"

#

-P installLocation="C:\Program Files\IBM\ServiceAgent"

#

Update Network and gatewayName choices -- Use one set of values OR the other,

but not both.

#

The manual selection must be used if the data collection system is not on the

same subnet as the gateway system. If "manual" is used, then a valid

gatewayName must be selected.

#

-W askUpdateNetwork.choice="manual"

-W enterDaNetworkInfo.gatewayName="abcgate.someplace.com"

This is the selection to be used if the data collection system is on the same

subnet as the gateway.

-W askUpdateNetwork.choice="auto"

-W enterDaNetworkInfo.gatewayName=""

User Input Field - daPort
#
#
-W enterDaNetworkInfo.daPort="19955"

User Input Field - dtPort

#

-W enterDaNetworkInfo.dtPort="19955"

Appendix C. Glossary

AGN

AT&T Global Network.

Configuration

Adaptation of files to a specific customer site for execution.

Configuration file

A file that contains information supplied by the customer, for example, customer contact information. It is created or changed during the install and configuration process; may also be changed during an Electronic Service Agent upgrade or via commands from other subsystems or from the SDR.

Configurator

The program that performs the process of configuring to the requirements of the customer site.

Data Collector

The subsystem responsible for collecting system and information and sending it to the appropriate destination as messages.

ECI

Electronic Customer Interface.

Encryption

A method of encoding messages to provide message security. Local encryption encodes messages moving among distributed subsystems in a networked environment. External encryption encodes messages before transfer between the Gateway and IBM.

Entitlement

Relates to the level of support provided to a customer. The level of support is determined by the contractual arrangement between IBM Global Services and the customer.

Error information

Information describing the conditions on the managed system that are beyond the specified tolerances of normal system behavior.

Event

An event is a means of identifying a change of state of a process or device on the network. For example, an event identifies when a critical resource threshold such as virtual memory utilization is met.

FRU

Field Replaceable Unit.

Gateway

The subsystem that establishes secure communication with IBM and transfers messages between the Data Collector and IBM.

IBM Director

A systems management product providing support for IBM xSeries servers.

ICR

IBM Common Registration.

Installation

The placement of binary, non-customized control files, and support files in a directory hierarchy on the customer system. Establishment of specific user accounts, groups, etc., and of default permissions and authentication requirements.

Inventory information

Information describing the basic configuration of a managed system. Included are a list of the physical characteristics of the managed system (number of processors, amount of memory and disk, etc.), and a list of installed software.

LAN Local Area Network.

Log File

Files that record information about normal and abnormal operation. A file that contains entries delimited by a time stamp.

Managed systems

An operating system instance or hardware platform monitored by Electronic Service Agent.

Problem report

A technology-neutral term describing a problem that requires the attention of IBM service personnel. This term can be used in place of the RETAIN-specific term, *problem management report* (PMR).

Registration

Registration associates authorized local users with a managed system, allowing them access to data about that system on the Electronic Service Agent web site. Registration is initiated by Electronic Service Agent .

Schedule driven

Collectors and detectors that gather information about managed systems at specified times.

Service Data Receiver (SDR)

The facility on the IBM server that receives messages from Electronic Service Agent

SSL Secure Socket Layer.

WAN Wide Area Network.

Appendix D. Forms

Company Form

Company Name:			
Country:			
Company Phone:		Extension:	
Company email:			
IBM Enterp	rise Number:		

Contact Form

Contact Name:		
Contact Phone:	Extension:	
Contact email:		

Location Form

Bld/Flr/Ofc:		
Street Address:		
City/Locality:	State/Province:	
Post Code:		

Machine List Form

Machine Type	Machine Model	Machine Serial	Comment