Installation Guide

Sun™ ONE Integration Server
Secure Trading Agent

Version 1.0

816-6461-10
February 2003

Copyright (c) 2003 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, U.S.A. All rights reserved.

THIS SOFTWARE CONTAINS CONFIDENTIAL INFORMATION AND TRADE SECRETS OF SUN MICROSYSTEMS, INC. USE, DISCLOSURE OR REPRODUCTION IS PROHIBITED WITHOUT THE PRIOR EXPRESS WRITTEN PERMISSION OF SUN MICROSYSTEMS, INC.U.S. Government Rights - Commercial software. Government users are subject to the Sun Microsystems, Inc. standard license agreement and applicable provisions of the FAR and its supplements. Use is subject to license terms.

This distribution may include materials developed by third parties.

Sun, Sun Microsystems, the Sun logo, Solaris, Java, J2SE, and Ultra are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.

Netscape Navigator is a trademark or registered trademark of Netscape Communications Corporation in the United States and other countries.

All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. in the U.S. and other countries. Products bearing SPARC trademarks are based upon architecture developed by Sun Microsystems, Inc.

UNIX is a registered trademark in the U.S. and other countries, exclusively licensed through X/Open Company, Ltd.

This product is covered and controlled by U.S. Export Control laws and may be subject to the export or import laws in other countries. Nuclear, missile, chemical biological weapons or nuclear maritime end uses or end users, whether direct or indirect, are strictly prohibited. Export or reexport to countries subject to U.S. embargo or to entities identified on U.S. export exclusion lists, including, but not limited to, the denied persons and specially designated nationals lists is strictly prohibited.

Copyright (c) 2003 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, Etats-Unis. Tous droits réservés.

CE LOGICIEL CONTIENT DES INFORMATIONS CONFIDENTIELLES ET DES SECRETS COMMERCIAUX DE SUN MICROSYSTEMS, INC. SON UTILISATION, SA DIVULGATION ET SA REPRODUCTION SONT INTERDITES SANS L AUTORISATION EXPRESSE, éCRITE ET PRéALABLE DE SUN MICROSYSTEMS, INC.Droits du gouvernement américain, utlisateurs gouvernmentaux - logiciel commercial. Les utilisateurs gouvernmentaux sont soumis au contrat de licence standard de Sun Microsystems, Inc., ainsi qu aux dispositions en vigueur de la FAR [(Federal Acquisition Regulations) et des suppléments à celles-ci.Distribué par des licences qui en restreignent l'utilisation.

Cette distribution peut comprendre des composants développés pardes tierces parties.

Sun, Sun Microsystems, le logo Sun, Solaris, Java, J2SE, et Ultra sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux Etats-Unis et dans d'autres pays.

Netscape Navigator est une marque de Netscape Communications Corporation aux Etats-Unis et dans d'autres pays.

Toutes les marques SPARC sont utilisées sous licence et sont des marques de fabrique ou des marques déposées de SPARC International, Inc. aux Etats-Unis et dans d'autres pays. Les produits protant les marques SPARC sont basés sur une architecture développée par Sun Microsystems, Inc.

UNIX est une marque déposée aux Etats-Unis et dans d'autres pays et licenciée exlusivement par X/Open Company, Ltd.

Les produits qui font l'objet de ce manuel d'entretien et les informations qu'il contient sont régis par la législation américaine en matière de contrôle des exportations et peuvent être soumis au droit d'autres pays dans le domaine des exportations et importations. Les utilisations finales, ou utilisateurs finaux, pour des armes nucléaires, des missiles, des armes biologiques et chimiques ou du nucléaire maritime, directement ou indirectement, sont strictement interdites. Les exportations ou réexportations vers des pays sous embargo des États-Unis, ou vers des entités figurant sur les listes d'exclusion d'exportation américaines, y compris, mais de manière non exclusive, la liste de personnes qui font objet d'un ordre de ne pas participer, d'une façon directe ou indirecte, aux exportations des produits ou des services qui sont régi par la législation américaine en matière de contrôle des exportations (“U.S. Commerce Department's Table of Denial Orders” et la liste de ressortissants spécifiquement désignés (“U.S. Treasury Department of Specially Designated Nationals and Blocked Persons”), sont rigoureusement interdites.

This product includes Hypersonic SQL.

ORIGINAL LICENSE (a.k.a. “hypersonic_lic.txt”)

For content, code, and products originally developed by Thomas Mueller and the Hypersonic SQL Group:

Copyright (c) 1995-2000 by the Hypersonic SQL Group. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- All advertising materials mentioning features or use of this software must display the following acknowledgment: “This product includes Hypersonic SQL.”

- Products derived from this software may not be called “Hypersonic SQL” nor may “Hypersonic SQL” appear in their names without prior written permission of the Hypersonic SQL Group.

- Redistributions of any form whatsoever must retain the following acknowledgment: “This product includes Hypersonic SQL.”

This software is provided “as is” and any expressed or implied warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed. In no event shall the Hypersonic SQL Group or its contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption). However caused any on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

This software consists of voluntary contributions made by many individuals on behalf of the Hypersonic SQL Group.

For work added by the HSQL Development Group (a.k.a. hsqldb_lic.txt):

For content, code, and products subsequently developed by the hsqldb

Development Group:

Copyright (c) 2001-2002, The HSQL Development Group

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer, including earlier license statements (above) and comply with all above license conditions.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution, including earlier license statements (above) and comply with all above license conditions.

Neither the name of the HSQL Development Group nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS “AS IS” AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL HSQL DEVELOPMENT GROUP, HSQLDB.ORG, OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Contents

List of Figures 7

List of Tables 9

List of Procedures 11

Preface 13
Audience for This Guide 13
Organization of This Guide 14
Documentation Resources 15

Installing Secure Trading Agent 17

Secure Trading Agent Distribution 17
Secure Trading Agent Components 18
Installed Directory Structure 19
Requirements 21
Secure Trading Agent Administrator 22
Installation Procedure for Solaris Platforms 22
Before Installing Secure Trading Agent 23
Alternate Procedures for Solaris Platforms 23
Installation Procedure 24
Uninstall Procedure for Solaris Platforms 33
Uninstall the Sun Management Center and Secure Trading Agent 34
Uninstall Secure Trading Agent Only 34
Installation Procedure for Windows Platforms 36
Before Installing Secure Trading Agent 36
Installation Procedure 36
Uninstall Procedure for Windows 47
Configuration of Secure Trading Agent 50
Secure Trading Agent Services 51

Registration for Secure Trading Agent **51**
Registration Procedure 52
Registration Verification 54
What to Do Next **60**

List of Figures

Figure 1 Secure Trading Agent Installation Program . . . 25
Figure 2 Select Installation Type . . . 26
Figure 3 Select Installation Directory . . . 27
Figure 4 Ready to Install . . . 28
Figure 5 Administrator User Id . . . 29
Figure 6 Custom Installation Startup Option . . . 30
Figure 7 Configure Secure Trading Agent . . . 31
Figure 8 Installation Summary . . . 32
Figure 9 Secure Trading Agent Uninstall Program . . . 35
Figure 10 Secure Trading Agent Installation Program . . . 37
Figure 11 Select Installation Type . . . 38
Figure 12 Select Installation Directory . . . 39
Figure 13 Ready to Install . . . 40
Figure 14 Administrator User Id . . . 41
Figure 15 Automatic Startup Option . . . 42
Figure 16 Specify Tomcat Web Server Home Directory . . . 43
Figure 17 Configure Secure Trading Agent . . . 44
Figure 18 Installation Summary . . . 45
Figure 19 Windows Uninstall Welcome Screen . . . 47
Figure 20 Windows List of Components to Uninstall . . . 48
Figure 21 Windows Uninstall Stop Services . . . 49
Figure 22 Windows Uninstall Details . . . 50
Figure 23 Sun Management Center Welcome . . . 55
Figure 24 Secure Trading Agent Messaging Inbox . . . 56
Figure 25 Messages Received . . . 57
Figure 26 Messages Details . . . 58
Figure 27 Messages Details . . . 59

List of Tables

Table 1 Book Contents 14
Table 2 Secure Trading Agent Documentation Set 15
Table 3 Installation Files for Secure Trading Agent 17
Table 4 Secure Trading Agent Components 18
Table 5 Default Installation Paths for Solaris Platforms 19
Table 6 Default Installation Paths for Windows Platforms 20
Table 7 Child Directories to Secure Trading Agent's S1ISSTA Directory 20
Table 8 Secure Trading Agent Requirements 21

List of Procedures

To install Secure Trading Agent on Solaris platforms 24
To uninstall Secure Trading Agent and the Sun Management Center 34
To uninstall Secure Trading Agent only (interactive) 34
To install Secure Trading Agent on Windows platforms 37
To uninstall Secure Trading Agent on Windows 47
To register Secure Trading Agent on Windows platforms 52
To register Secure Trading Agent on Solaris platforms 53
To view the registration response from the Sun registration server 55

Preface

Sun™ Open Net Environment (Sun ONE) Integration Server, Secure Trading Agent implements a system that provides for the exchange of business documents between trading partners, according to an agreement between the trading partners. This book, the *Sun ONE Integration Server, Secure Trading Agent, 1.0 Installation Guide*, provides information to both Secure Trading Agent regular users and Secure Trading Agent administrators on how to use Secure Trading Agent to engage in electronic business transactions.

This preface contains the following sections:

- Audience for This Guide
- Organization of This Guide
- Documentation Resources

Audience for This Guide

This guide describes how to install Secure Trading Agent and includes information on system requirements for installation, components of a Secure Trading Agent system, how to uninstall Secure Trading Agent, and how to use the Secure Trading Agent registration procedure to verify that your installation is set up correctly.

You must have root access (Solaris platforms) or administrator privileges (Solaris platforms) to install Secure Trading Agent.

Organization of This Guide

This guide is not designed to be read from beginning to end, but instead contains a single chapter with some sections that apply to all users and other sections containing platform-specific instructions. Table 1 briefly describes the contents of key sections in this manual.

Table 1 Book Contents

Section	Description
"Secure Trading Agent Distribution"	Provides the location and name of the files needed to install Secure Trading Agent.
"Secure Trading Agent Components"	Describes the components of a Secure Trading Agent installation.
"Installed Directory Structure"	Describes the key directories created when you install Secure Trading Agent.
"Requirements"	Describes the hardware and software requirements for Secure Trading Agent.
"Installation Procedure for Solaris Platforms"	Step-by-step installation procedure.
"Uninstall Procedure for Solaris Platforms"	Procedure to remove Secure Trading Agent.
"Installation Procedure for Windows Platforms"	Step-by-step installation procedure.
"Uninstall Procedure for Windows"	Procedure to remove Secure Trading Agent.
"Configuration of Secure Trading Agent"	Information on configuring Secure Trading Agent.
"Secure Trading Agent Services"	Information on the services that make up the Secure Trading Agent runtime.
"What to Do Next"	Information on how to get started with Secure Trading Agent.

Documentation Resources

In addition to this guide, Secure Trading Agent provides additional documentation resources. The documents that comprise the Secure Trading Agent documentation set are listed in Table 2 in the order in which you would typically use them.

Table 2 Secure Trading Agent Documentation Set

Document	Description
Release Notes	Available in PDF and HTML formats. The *Release Notes* contains late-breaking information on Secure Trading Agent.
Installation Guide	Available in PDF and HTML formats. The *Installation Guide* contains installation instructions and procedures for Secure Trading Agent.
User's Guide	Available in PDF and HTML formats. Manual for both Secure Trading Agent administrators and regular users that explains how to use Secure Trading Agent.
Inline Help	Help messages displayed on each page of the Communications Center and Agreement Editor, providing a brief description of the task at hand. Inline help contains links to the online help pages.
Online Help	Context-sensitive help files provided with the Communications Center and Agreement Editor. The online help guides you through the editing pages of these applications. The online help should be used together with the *User's Guide* for a complete understanding of using Secure Trading Agent.
Tutorial	Available in PDF and HTML formats. The *Secure Trading Agent Tutorial* walks you through the creation and deployment of ebXML agreements as well as exchanging messages and business documents with your trading partners. Use the *Tutorial* as a "Quick Start" to using Secure Trading Agent. After completing the *Tutorial*, read the *User's Guide* for a fuller understanding of Secure Trading Agent.
Command Reference Guide	Available in PDF and HTML formats. The *Secure Trading Agent Command Reference Guide* provides documentation on commands available for the ebScript utility.

Table 2 Secure Trading Agent Documentation Set *(Continued)*

Document	Description
ebScript Help	Command line help available from the ebScript utility. For information on using ebScript and its help, refer to the Secure Trading Agent Administration chapter in the *Secure Trading Agent User's Guide*.

Installing Secure Trading Agent

This manual provides instructions on how to install Sun ONE Integration Server, Secure Trading Agent on Solaris™ and Windows platforms. It also provides configuration information for your Secure Trading Agent installation and shows you how to uninstall Secure Trading Agent.

Secure Trading Agent Distribution

The Secure Trading Agent installation program and related installation files are available either on CD ROM or by download from the following location:

`http://wwws.sun.com/software/download/`

The installation files are the same, whether you are installing from a CD ROM or downloading the files. Table 3 lists the installation files for Secure Trading Agent.

Table 3 Installation Files for Secure Trading Agent

File	Platform	Description
`S1ISSTA-1_0_0-win.exe`	Windows	Executable file that installs Secure Trading Agent on supported Windows platforms.
`j2sdk-1_4_0_01-windows-i586.exe`	Windows	Executable file that installs the supported version of the Java™ 2 SDK on Windows platforms.
`S1ISSTA_1_0_0_sol8.tar`	Solaris 8	Archive file that contains the files needed to install Secure Trading Agent on Solaris 8 platforms. You must extract the contents of this file before beginning the installation.

Table 3 Installation Files for Secure Trading Agent *(Continued)*

File	Platform	Description
`S1ISSTA_1_0_0_sol9.tar`	Solaris 9	Archive file that contains the files needed to install Secure Trading Agent on Solaris 9 platforms. You must extract the contents of this file before beginning the installation.

Secure Trading Agent Components

The Secure Trading Agent installer installs the components listed in Table 4.

Table 4 Secure Trading Agent Components

Module	Description
Message Handler	Secure Trading Agent service that listens for inbound messages and forwards outbound messages to destinations specified in ebXML agreements.
Java 2 Software Development Kit (Java 2 SDK), Standard Edition	Refer to Table 8 on page 21 for the supported versions of the Java 2 SDK. The Solaris installation program includes the installer for the SDK. For Windows installations, you must download the SDK separately. You must install the Java 2 SDK prior to installing Secure Trading Agent.
Apache Tomcat, version 4.0.1 (Solaris) Apache Tomcat, version 4.0.3 (Windows)	Web server that hosts Secure Trading Agent. The installer installs Apache Tomcat if it is not installed on your system. If Apache Tomcat had previously been installed on your system, then the installer installs a Tomcat instance for Secure Trading Agent.
HSQL Database engine, version 1.7.0	Default database service used by Secure Trading Agent. Refer to the chapter, "Secure Trading Agent Administration" in the *Secure Trading Agent User's Guide* for information on configuring Oracle as the database service for Secure Trading Agent.
Sun Management Center	Web server that launches the Secure Trading Agent Communications Center.

Table 4 Secure Trading Agent Components *(Continued)*

Module	Description
Secure Trading Agent Communications Center	Secure Trading Agent web-based application for importing and deploying ebXML agreements, and for sending and receiving messages based on the agreements. This application also launches an Agreement Editor for creating and editing ebXML agreements.
ebScript utility	Secure Trading Agent scripting utility that provides a command-line equivalent to the Secure Trading Agent Communications Center.
Secure Trading Agent Control Panel	Configuration tool available as a command line utility. A read-only version of the Control Panel is available from the Secure Trading Agent Communications Center.

Installed Directory Structure

This section describes the key directories created when you install Secure Trading Agent. Table 5 contains paths to the default installation locations for Solaris. Table 6 contains paths to the default installation locations for Windows. Table 7 describes key directories and files installed under your Secure Trading Agent installation for both platforms.

Table 5 Default Installation Paths for Solaris Platforms

Directory Path	Description
`/opt/SUNWebXML/S1ISSTA`	Default installer location for Solaris. You can specify an alternate location during install time.
`/opt/SUNWtcatu`	The root of your Apache Tomcat installation. This is where the installer places Apache Tomcat.

Table 6 Default Installation Paths for Windows Platforms

Directory Path	Description
`C:\Sun\S1ISSTA`	Default installer location for Windows. You can specify an alternate location at install time.
`C:\Sun\S1ISSTA\tomcat`	This is where the installer places Apache Tomcat.

Table 7 lists significant child directories to the Secure Trading Agent S1ISSTA directory. The permissions of S1ISSTA and most of its contents allow access by the Secure Trading Agent administrator only.

Table 7 Child Directories to Secure Trading Agent's S1ISSTA Directory

Directory	Contents
`bin`	Executable files for Secure Trading Agent and its utilities. These include: • Secure Trading Agent Control Panel (`ebctl`) • Message Handler (`ebmsh`) • ebScript Utility (`ebscript`)
`conf`	Stores user and password information.
`config`	Internal configuration files for Secure Trading Agent.
`docs`	Directories for examples, manuals, and online help files.
`etc`	Holds files generated and used by the registration procedure.
`install`	Contains scripts and web applications used by Secure Trading Agent.
`install/scripts`	Internal scripts used by Secure Trading Agent.
`install/webapps`	Directories and files used by Secure Trading Agent web applications.
`jdbc`	Repository for the HSQL database service.
`lib`	Jar files used internally by Secure Trading Agent.
`log`	Log files for tomcat servers and HSQL database service.
`smc`	Used by the installer when installing the Sun Management Center.
`tmp`	Log files generated from Secure Trading Agent services.
`tomcat`	The root directory of the Apache Tomcat instance for Secure Trading Agent applications.

Requirements

Table 8 lists the minimum platform and hardware requirements for operation of Secure Trading Agent.

Table 8 Secure Trading Agent Requirements

Component	Windows Requirement	Solaris Requirement
Operating system	Windows 2000 Professional Service Pack 3 Windows 2000 Server Service Pack 3 Windows 2000 Advanced Server Service Pack 3 Windows-XP Professional Service Pack 1	Solaris 8 or Solaris 9 (SPARC® platforms) See Release Notes for required patches.
CPU	500 Mhz	Sun Ultra™ 1 (or compatible) workstation
RAM	256 Mbytes	256 Mbytes
Disk space	30 Mbytes for Secure Trading Agent and associated applications. 60 Mbytes for Sun Management Center and associated packages, which include Java 2 Platform, Standard Edition (J2SE™ Platform), Sun ONE Application Framework software, and Apache Tomcat If you use HSQL as a database, then you have additional disk space requirements for your installation. This additional space requirement is dependent on the number and size of messages you plan to send. Refer to the *Secure Trading Agent Release Notes* for more information	20 Mbytes for Secure Trading Agent and associated applications 130 Mbytes for Sun Management Center and associated packages, which include J2SE, Sun ONE Application Framework software, and Apache Tomcat If you use HSQL as a database, then you have additional disk space requirements for your /var partition. This additional space requirement is dependent on the number and size of messages you plan to send. Refer to the *Secure Trading Agent Release Notes* for more information
/tmp partition	(not applicable)	120 Mbyte minimum size for /tmp partition

Table 8 Secure Trading Agent Requirements *(Continued)*

Component	Windows Requirement	Solaris Requirement
Java 2 Software Development Kit (Java 2 SDK), Standard Edition	Version 1.4.0_01 required for Windows platforms. Install this version of the Java 2 SDK before running the Secure Trading Agent installer. This version is available from the same location you downloaded Secure Trading Agent.	Version 1.4.0_00 required for Solaris platforms. The Secure Trading Agent installer for Solaris prompts you to install the correct version of the Java 2 SDK if it cannot find it on your system.
Oracle® database: Oracle 8i, Oracle 9i (if overriding the default HSQL database)	(Database requirement is not platform dependent)	(Database requirement is not platform dependent)
Web browser	Netscape Navigator™ 7.01 Internet Explorer 6.0	Netscape Navigator 7.01

Secure Trading Agent Administrator

There must be a user on your system that you can designate as the Secure Trading Agent administrator before you install Secure Trading Agent. The administrator is the only user that has permission to start and stop the Secure Trading Agent message handling service.

After installation, to change the Secure Trading Agent administrator, run the Control Panel as root on Solaris platforms or with Windows administrator privileges on Windows platforms. For more information on using the Control Panel, refer to the "Secure Trading Agent Administration" chapter in the *Secure Trading Agent User's Guide*.

Installation Procedure for Solaris Platforms

This section describes the procedure to install Sun ONE Integration Server, Secure Trading Agent on Solaris. This procedure installs both the Sun Management Center and Secure Trading Agent.

Before Installing Secure Trading Agent

Before installing Secure Trading Agent do the following:

- Obtain the Secure Trading Agent distribution either on CD ROM or by downloading as described in "Secure Trading Agent Distribution" on page 17.
- Make sure you have a user on your system that you can designate as the Secure Trading Agent administrator, as explained in "Secure Trading Agent Administrator" on page 22.
- Make sure you have root access on your system.

  You must be root to perform the installation procedure.
- Make sure your DISPLAY variable is correctly set, and that root has access to your display
- Uninstall any previous installed version of Secure Trading Agent before you begin the installation procedure.

  Refer to "Uninstall Procedure for Solaris Platforms" on page 33 for information on how to uninstall Secure Trading Agent.

Alternate Procedures for Solaris Platforms

The procedures for installation in this manual use a graphical dialog to guide you through the installation process. Solaris platforms provide the following alternate procedures that do not use a graphical dialog to guide you through installation:

- Full installation (Sun Management Center and Secure Trading Agent)

  Uses the `setup.sh` script with the `--nogui` option.
- Solaris package commands

  Uses `pkgadd` and `pkgrm` to install and uninstall Secure Trading Agent as the SUNWebXML package

For information on these procedures, refer to the "Secure Trading Agent Administration" chapter in the *Secure Trading Agent User's Guide*.

Installation Procedure

The following procedure first installs the Sun Management Center and then provides a dialog to guide you through the Secure Trading Agent installation process.

➤ **To install Secure Trading Agent on Solaris platforms**

1. Login as root.

   You must have root privileges to perform this procedure.

NOTE	If you use `su` to become root on your system, make sure you allow root access to your display using `xhost`. For example, specify `xhost +` to grant access to all users.

2. Make sure your DISPLAY environment variable is correctly set.

   The install fails if it cannot open a window on your display.

3. Extract the installation files for the Secure Trading Agent distribution to a directory on your system, as described below:

   For example, if you are installing into a Solaris 9 environment, then do the following to extract the distribution:

   ```
   tar -xvf S1ISSTA_1_0_0_sol9.tar
   ```

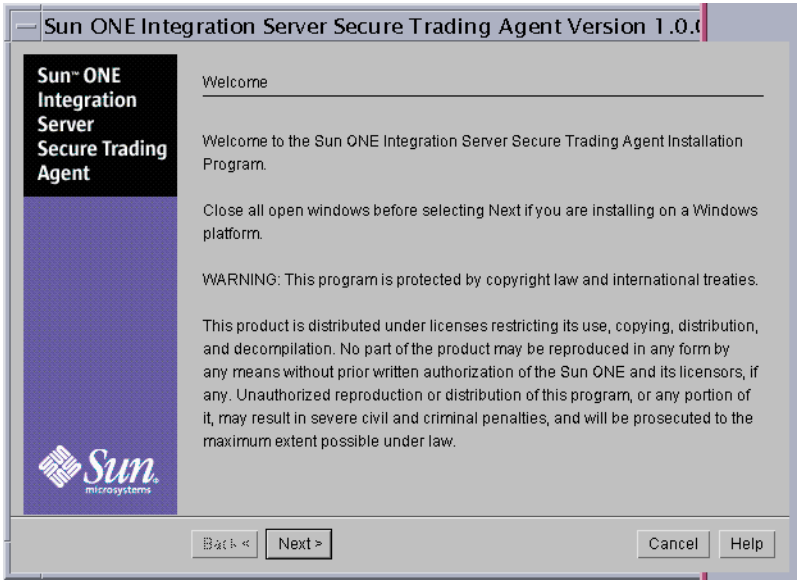
   The Secure Trading Agent distribution is available either on CD ROM or by downloading as described in "Secure Trading Agent Distribution" on page 17.

4. From the extracted files, execute the following command:

   ```
   ./setup.sh
   ```

   The setup program installs the Sun Management Center and then opens the Secure Trading Agent Installer.

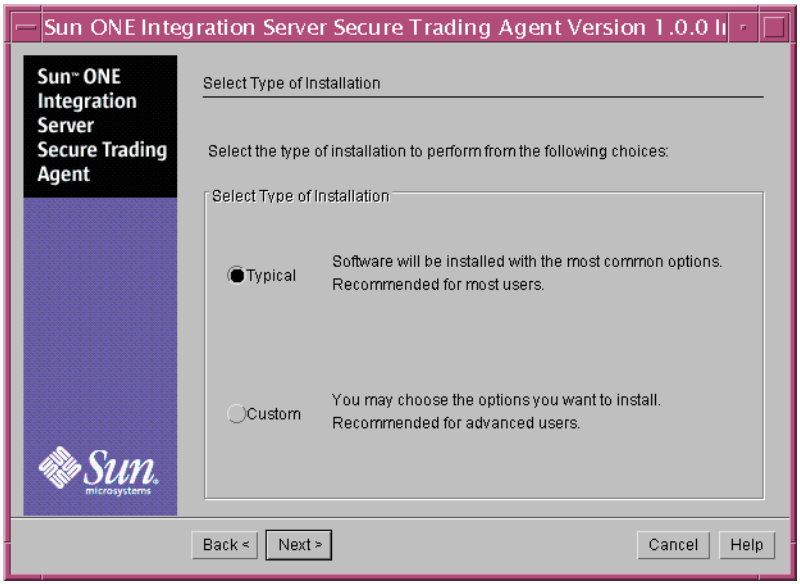
Figure 1 Secure Trading Agent Installation Program



5. Select Next to continue, and then read and accept the Software License Agreement.

   After accepting the Software License Agreement, the installer displays the types of installations.

Figure 2 Select Installation Type



6. Select an installation type and select Next.

   - Select Typical to install Secure Trading Agent using default startup values.

     A Typical install automatically starts Secure Trading Agent services when the installation completes. A Typical install also configures Secure Trading Agent to automatically start Secure Trading Agent at system startup.

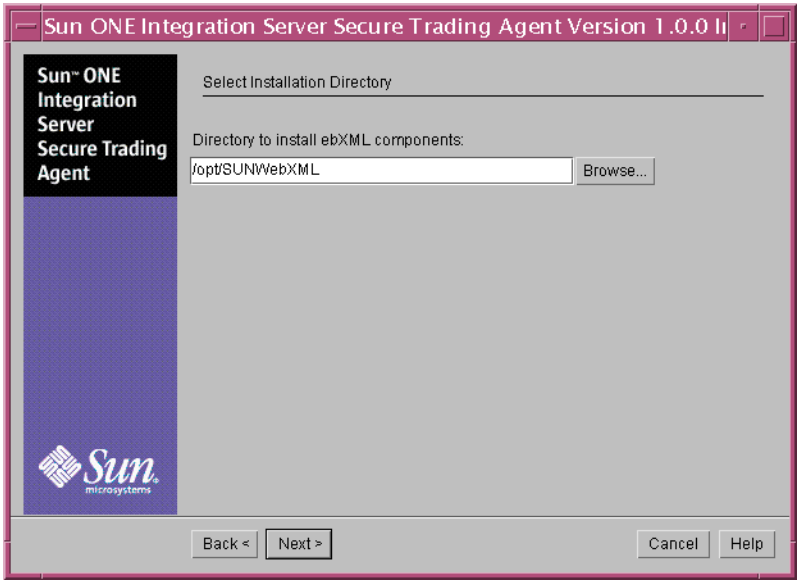
   - Select Custom to install Secure Trading Agent and disable automatic startup of Secure Trading Agent services. (The Custom options appear after Step 9 on page 29.)

NOTE The Custom Option dialog allows you to disable automatic startup of Secure Trading Agent services. If you disable automatic startup of services, you must manually start Secure Trading Agent's services before you can use Secure Trading Agent.

For information on manual operation of services, refer to the "Secure Trading Agent Administration" chapter of the *Secure Trading Agent User's Guide*.

The Installer prompts you for a location for your Secure Trading Agent installation.

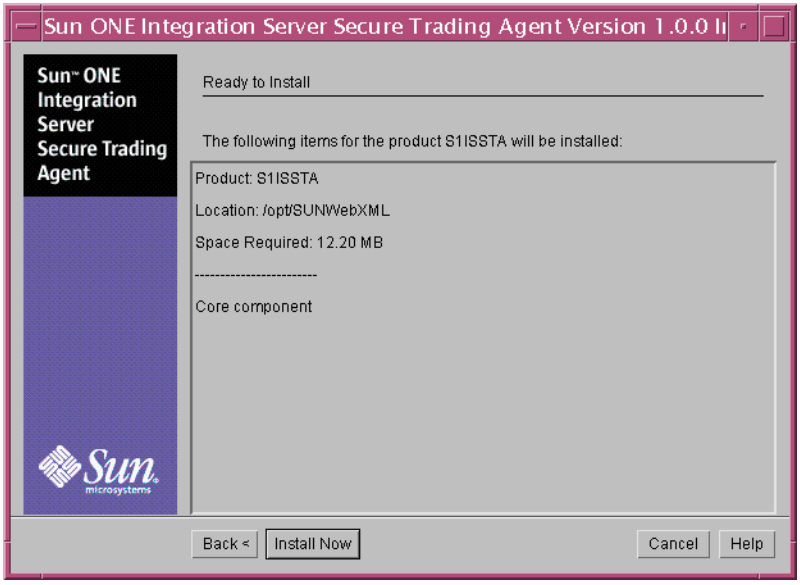
Figure 3 Select Installation Directory



7. Accept the default location or specify another location and select Next.

   All components must be installed, so continue through the Installer to the Ready to Install screen.

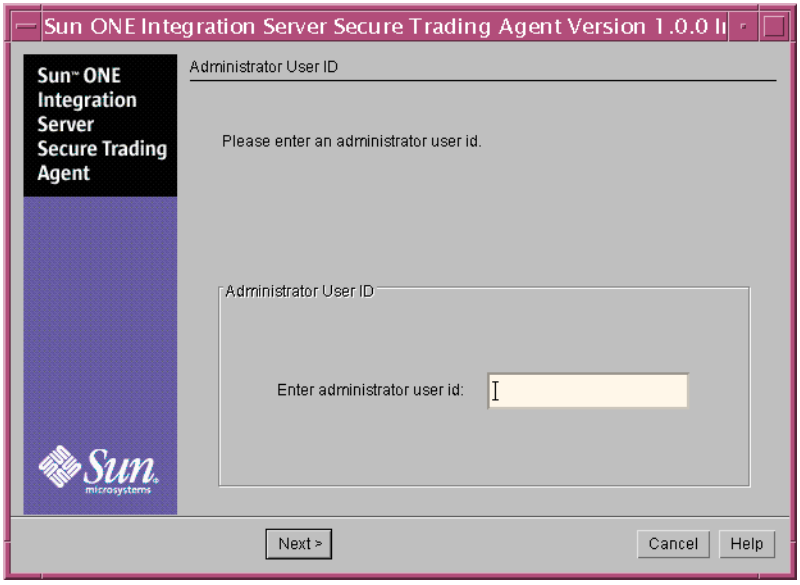
Figure 4 Ready to Install



8. Select Install Now to begin the installation.

   The Installer prompts you for the user name of the Secure Trading Agent administrator.

Figure 5 Administrator User Id

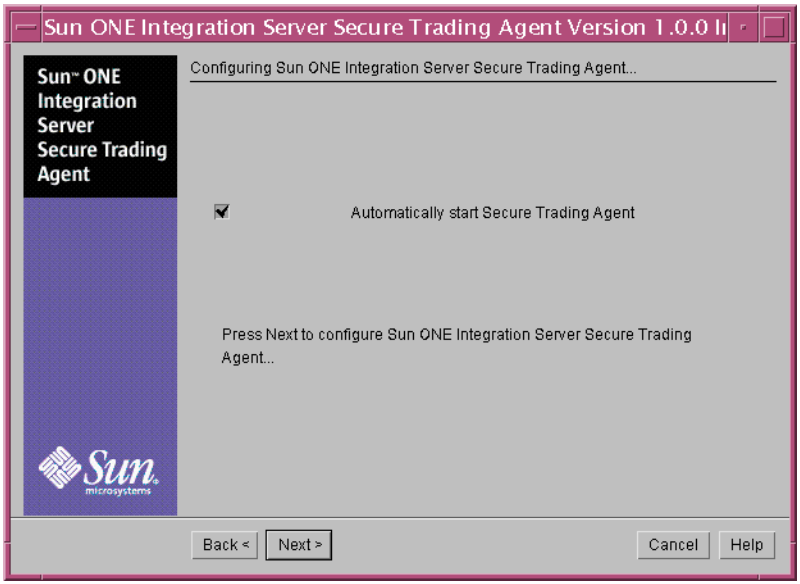


9. Enter the user name for the Secure Trading Agent administrator, who should be a valid user on your system, and select Next.

CAUTION The Secure Trading Agent installer does not validate the administrator user Id that you specify here. If you specify a user that is not on your system, you will not have administrator access to start up or stop the message handler service. The section "Configuration of Secure Trading Agent" on page 50 discusses how to reconfigure Secure Trading Agent should this situation occur.

(Custom Install only) If you selected the Custom Install option in Step 6 on page 38, the installer displays the Custom Option dialog. Select or deselect the Automatically Start Services toggle and select Next.

Figure 6 Custom Installation Startup Option



The installer then prompts you to continue with the configuration process.

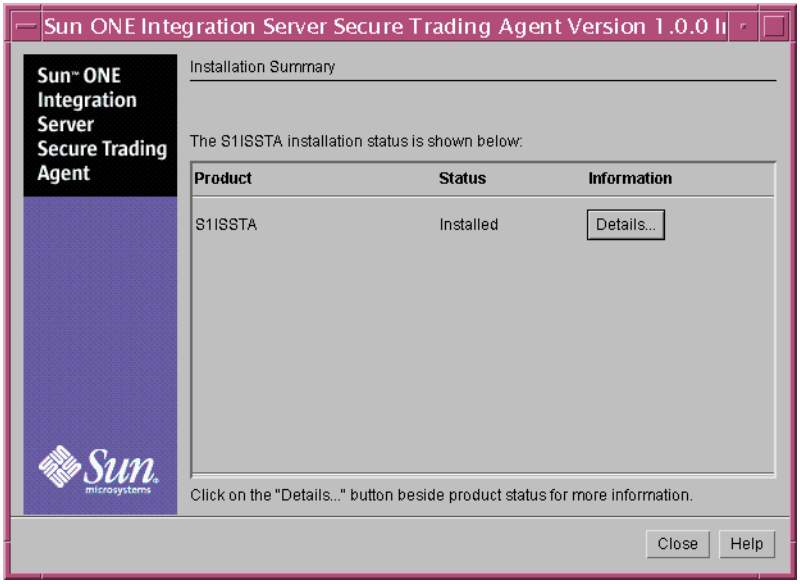
Figure 7 Configure Secure Trading Agent

10. Select Next to configure Secure Trading Agent and complete the installation.

    The installation may take several minutes to complete.

    When the installation is complete, the Installer displays a summary of the installation process.

Figure 8 Installation Summary



11. Select Details to view the installation log, then select Close to exit the installer.

    If you selected the Typical installation option in Step 6 on page 26, Secure Trading Agent services are automatically started.

    If you plan to use Oracle as a database service, you should configure access to Oracle before you import or deploy any agreements. For information on configuring your system to use Oracle as a database service, see the "Secure Trading Agent Administration" chapter of the *Secure Trading Agent User's Guide*.

After you complete your installation, your Secure Trading Agent installation is ready for use. If you selected a Typical installation, you can point a browser to the following URL to login to the Sun Management Center:

```
https://<Server>:6789
```

Server is the machine on which you installed Secure Trading Agent.

From the Sun Management Center, you can launch the Secure Trading Agent Communications Center.

If you performed a Custom installation and disabled automatic startup of Secure Trading Agent services, you must manually start Secure Trading Agent's services before you can access the Secure Trading Agent Communications Center.

If this is your first time installing Secure Trading Agent, proceed to the sections "Configuration of Secure Trading Agent" on page 50 and "Secure Trading Agent Services" on page 51.

The section, "What to Do Next" on page 60, provides information on how to get started using Secure Trading Agent.

Uninstall Procedure for Solaris Platforms

When you run the Secure Trading Agent installer, the setup script installs the Sun Management Center and the Secure Trading Agent applications. There are several ways you can uninstall Secure Trading Agent:

- Uninstall the Sun Management Center and Secure Trading Agent.
- Uninstall Secure Trading Agent only

  Does not remove the Sun Management Center. This procedure provides a dialog to guide you through the uninstall process.
- Uninstall Secure Trading Agent using the package remove (pkgrm) utility

  Refer to the "Secure Trading Agent Administration" chapter of the *Secure Trading Agent User's Guide* for information on using the `pkgrm` utility.

Uninstall the Sun Management Center and Secure Trading Agent

The following procedure uninstalls both Secure Trading Agent and the Sun Management Center.

➤ **To uninstall Secure Trading Agent and the Sun Management Center**

1. Login as root.

   You must have root privileges to perform this procedure.

2. Navigate to the location where you downloaded the Secure Trading Agent distribution.

3. Execute the following command:

   ```
   ./setup.sh -u
   ```

   You are prompted to confirm removal of the SUNWebXML package. After responding with yes to continue, the uninstall program first removes the Sun Management Center packages and then removes Secure Trading Agent.

Uninstall Secure Trading Agent Only

The following procedure uninstalls Secure Trading Agent only, leaving the Sun Management Center installed on your system.

➤ **To uninstall Secure Trading Agent only (interactive)**

1. Login as root.

   You must have root privileges to perform this procedure.

   NOTE If you use `su` to become root on your system, make sure you allow root access to your display using `xhost`. For example, specify `xhost +` to grant access to all users.

2. Make sure your DISPLAY environment variable is correctly set.

   The uninstall fails if it cannot open a window on your display.

3. Navigate to the location where you installed Secure Trading Agent.

   During installation, the installer creates the `uninstall_S1ISSTA.class` file in the installation directory.

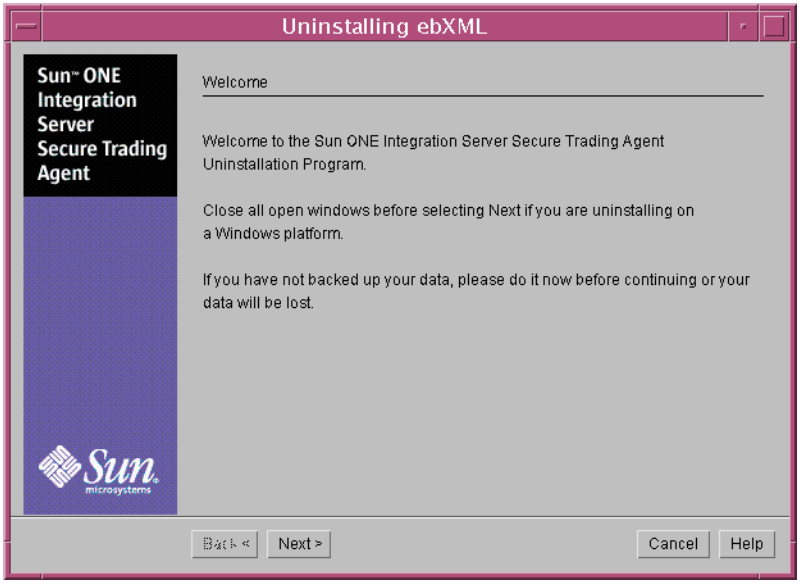
   The default installation directory is:

   `/opt/SUNWebXML/`

4. Run the uninstaller, as illustrated below:

   ```
   java -cp . uninstall_S1ISSTA
   ```

Figure 9 Secure Trading Agent Uninstall Program



5. Follow the prompts of the Uninstall program until the uninstall is complete.

Installation Procedure for Windows Platforms

This section describes the procedure to install Sun ONE Integration Server, Secure Trading Agent on Windows platforms. This procedure installs both the Sun Management Center and Secure Trading Agent.

Before Installing Secure Trading Agent

Before installing Secure Trading Agent do the following:

- Obtain the Secure Trading Agent distribution either on CD ROM or by downloading as described in "Secure Trading Agent Distribution" on page 17.
- Make sure you have a user on your system that you can designate as the Secure Trading Agent administrator, as explained in "Secure Trading Agent Administrator" on page 22.
- Make sure you have administrator privileges on your system.

  You must have administrator privileges to perform the installation procedure.
- Uninstall any previous installed version of Secure Trading Agent before you begin the installation procedure.

  Refer to "Uninstall Procedure for Windows" on page 47 for information on how to uninstall Secure Trading Agent.
- Make sure you have the supported version of the Java Software Development Kit (JDK) installed.

  Many systems may have multiple versions of the JDK installed. If the installer finds an unsupported version of the JDK on your system, it opens a file chooser that allows you to navigate to the supported version. If you do not have the supported version on your system, exit the Installation program and install the supported version.

  Table 8 on page 21 lists the supported version of the JDK. The installer for this JDK is available from the Secure Trading Agent CD ROM or the location where you downloaded the Secure Trading Agent distribution.

Installation Procedure

The following procedure installs both the Sun Management Center and Secure Trading Agent.

➤ To install Secure Trading Agent on Windows platforms

1. Make sure you have installed the supported version of the JDK, as described in "Before Installing Secure Trading Agent" on page 23.

   If the installer finds an unsupported version of the JDK on your system, it opens a file chooser that allows you to navigate to the supported version. Use this chooser to navigate to the directory in which you installed the supported version of the JDK.

   If you do not have the supported version on your system, exit the Installation program and install the supported version.

2. Login as an administrator on your system.

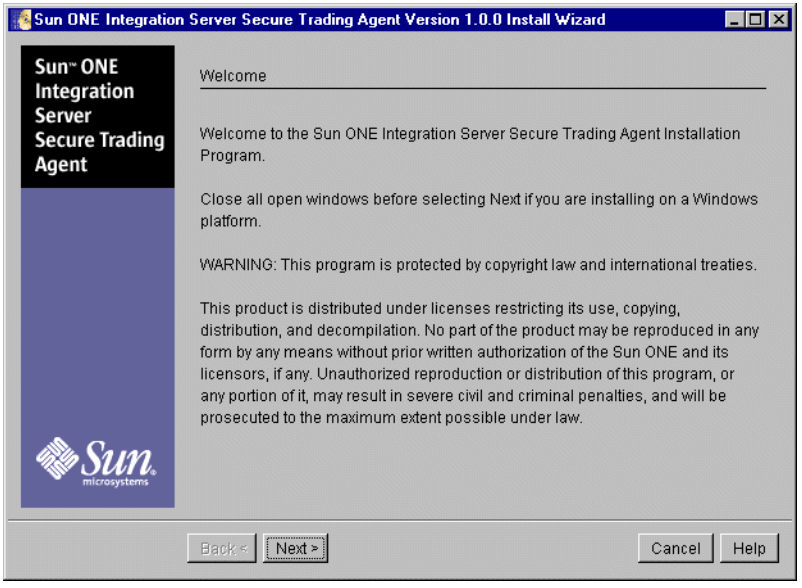
   You must have administrator privileges to perform this procedure.

3. Quit any other programs you are running and close any open windows.

4. From the Secure Trading Agent distribution, run the `S1ISSTA-1_0_0-win.exe` program.

   The program extracts the necessary files and launches the Secure Trading Agent Installer.

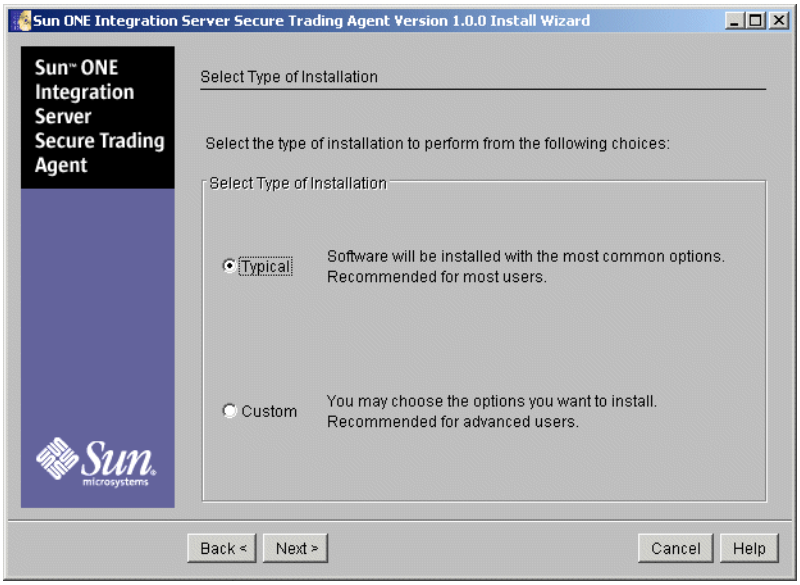
Figure 10 Secure Trading Agent Installation Program



5. Select Next to continue, and then read and accept the Software License Agreement.

   After accepting the Software License Agreement, the installer displays the types of installations.

Figure 11 Select Installation Type



6. Select an installation type and select Next

   - Select Typical to install Secure Trading Agent using default startup values.

     A Typical install automatically starts Secure Trading Agent services when the installation completes. A Typical install also configures Secure Trading Agent to automatically start Secure Trading Agent at system startup.

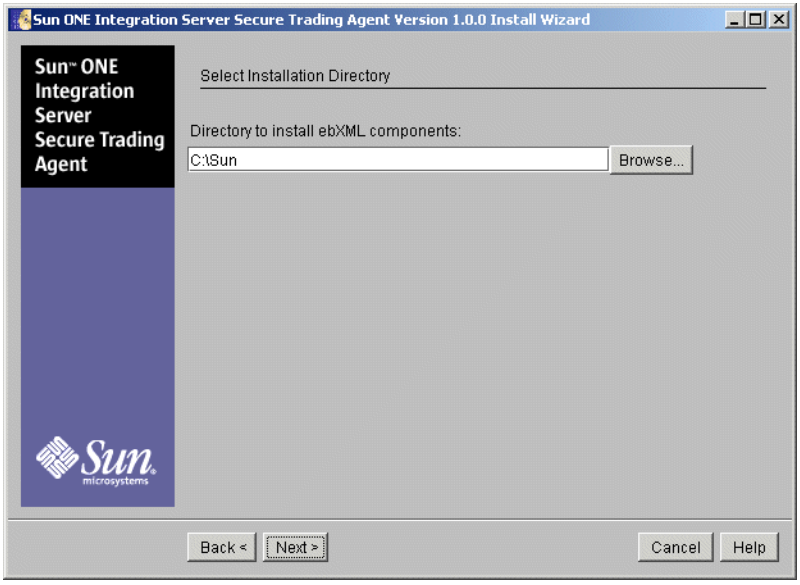
- Select Custom to install Secure Trading Agent and disable automatic startup of Secure Trading Agent services. (The Custom Option dialog appears after Step 9 on page 41.)

NOTE The Custom Option dialog allows you to disable automatic startup of Secure Trading Agent services. If you disable automatic startup of services, you must manually start Secure Trading Agent's services before you can use Secure Trading Agent.

For information on manual operation of services, refer to the "Secure Trading Agent Administration" chapter of the *Secure Trading Agent User's Guide*.

The Installer prompts you for a location for your Secure Trading Agent installation.

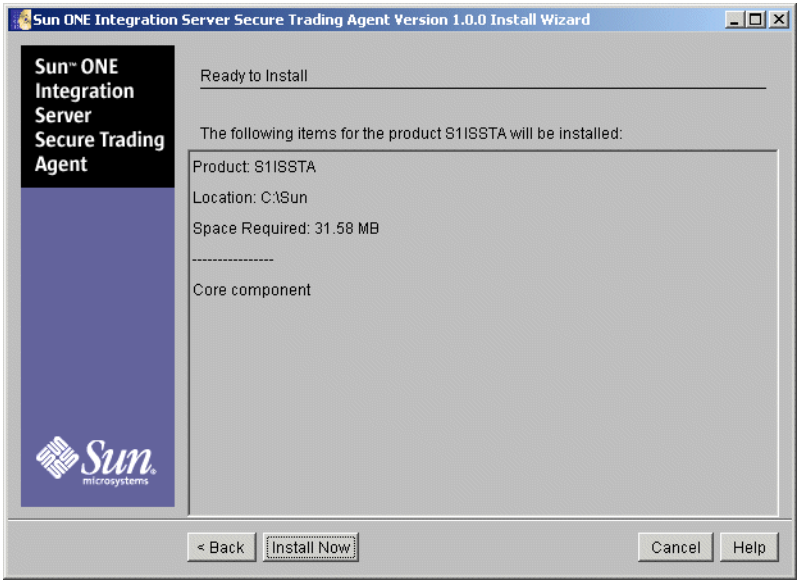
Figure 12 Select Installation Directory



7. Accept the default location or specify another location and select Next.

   All components must be installed, so continue through the Installer to the Ready to Install screen.

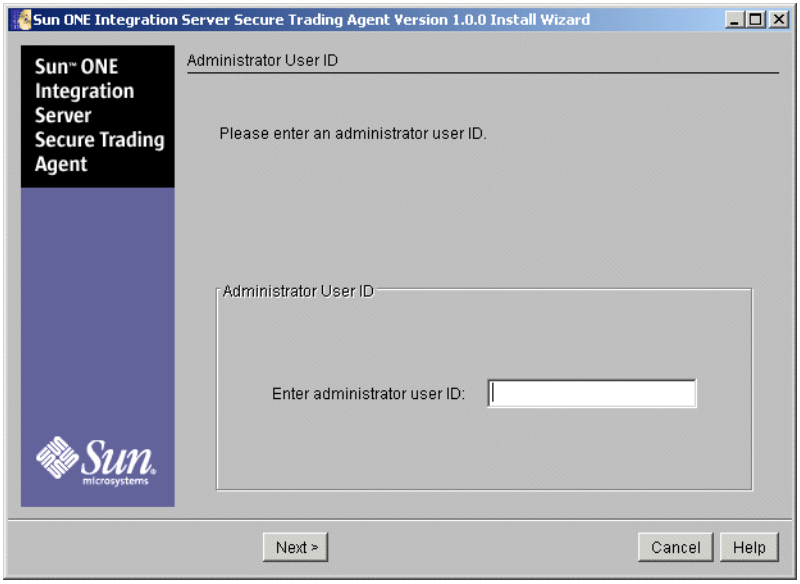
Figure 13 Ready to Install



8. Select Install Now to begin the installation.

   The Installer prompts you for the user name of the Secure Trading Agent administrator.

Figure 14 Administrator User Id

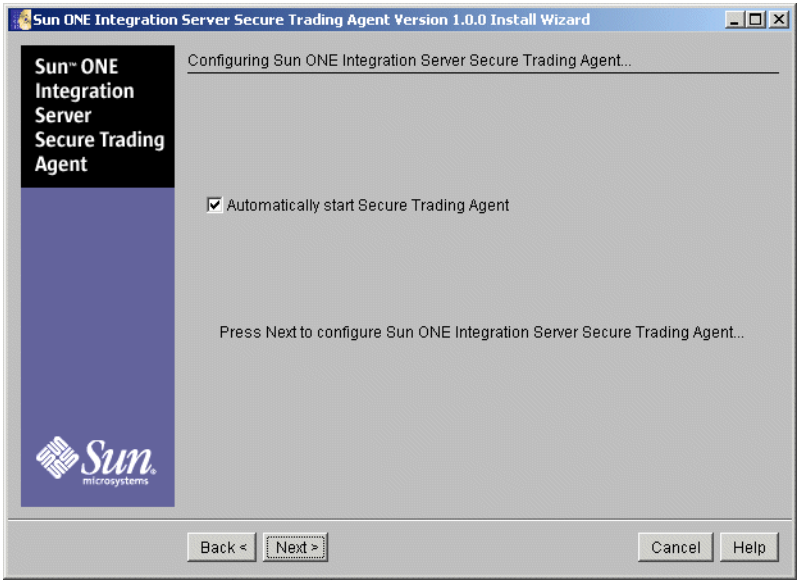


9. Enter the user name for the Secure Trading Agent administrator, who should be a valid user on your system, and select Next.

CAUTION The Secure Trading Agent installer does not validate the administrator user Id that you specify here. If you specify a user that is not on your system, you will not have administrator access to start up or stop the message handler service. The section "Configuration of Secure Trading Agent" on page 50 discusses how to reconfigure Secure Trading Agent should this situation occur.

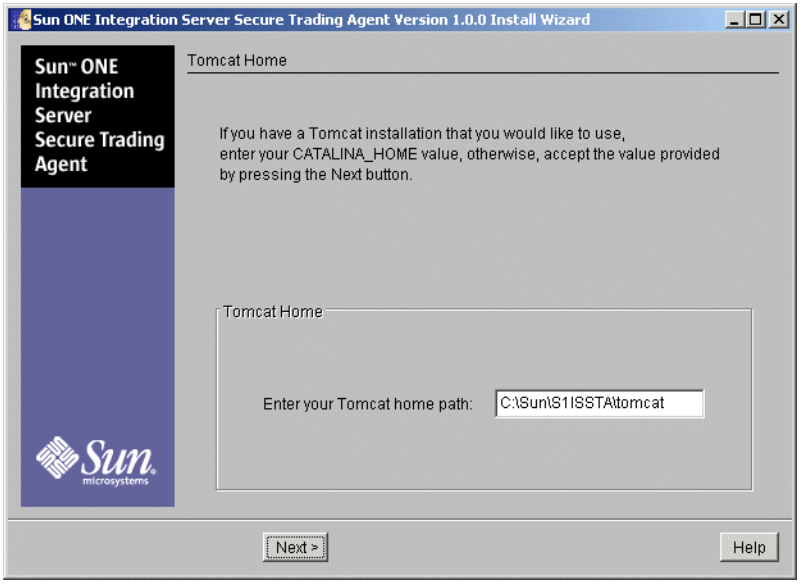
(Custom Install only) If you selected the Custom Install option in Step 6 on page 38, the installer displays the Custom Option dialog. Select or deselect the Automatically Start Services toggle and select Next.

Figure 15 Automatic Startup Option



The installer then prompts you to specify the Tomcat web server home directory.

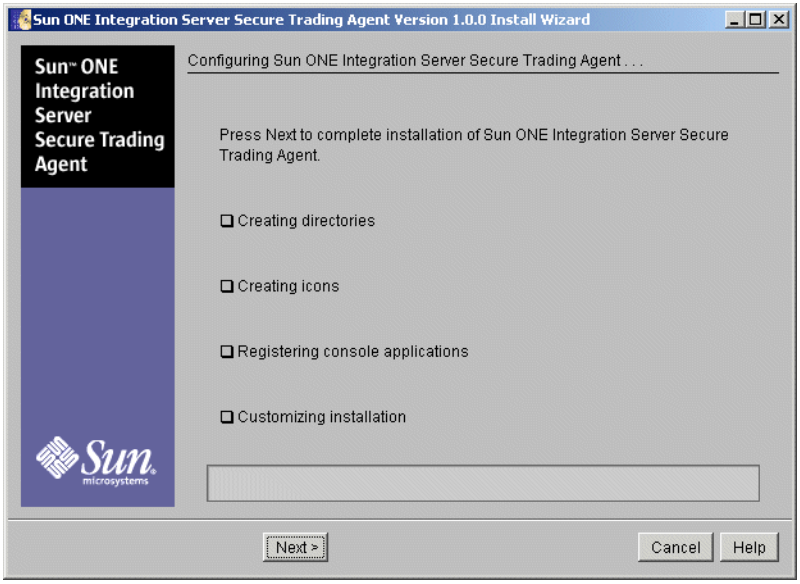
Figure 16 Specify Tomcat Web Server Home Directory



10. Specify a path to the Tomcat web server directory and select Next.

The installer prompts you with the default location. After you specify the location for the Tomcat web server directory, the installer prompts you to continue with the configuration process.

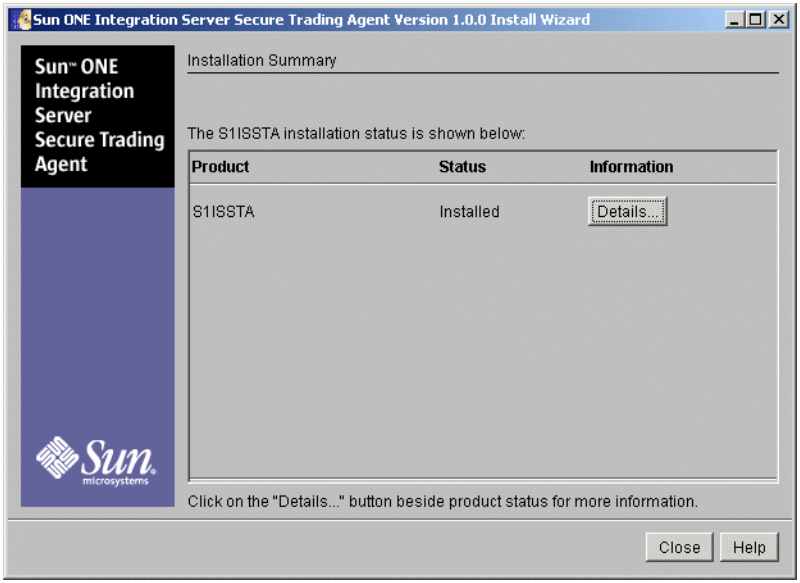
Figure 17 Configure Secure Trading Agent



11. Select Next to configure Secure Trading Agent and complete the installation.

    When the installation is complete, the Installer displays a summary of the installation process.

Figure 18 Installation Summary



12. Select Details to view the installation log, then select Close to exit the installer.

    If you typically log into a Windows domain, after installation you must first use the Secure Trading Agent Control Panel to specify the Windows domain name before you can log into Secure Trading Agent. For information on running the Secure Trading Agent Control Panel, see the "Secure Trading Agent Administration" chapter of the *Secure Trading Agent User's Guide*.

    If you plan to use Oracle as a database service, you should configure access to Oracle before you import or deploy any agreements. For information on configuring your system to use Oracle as a database service, see the "Secure Trading Agent Administration" chapter of the *Secure Trading Agent User's Guide*.

After you complete your installation, your Secure Trading Agent installation is ready for use. If you selected a Typical installation, you can point a browser to the following URL to login to the Sun Management Center:

```
https://<Server>:6789
```

Server is the machine on which you installed Secure Trading Agent.

From the Sun Management Center, you can launch the Secure Trading Agent Communications Center.

You can also launch the Secure Trading Agent Communications Center from the Windows Start > Programs > Sun Microsystems > Secure Trading Agent menu.

If you performed a Custom installation and disabled automatic startup of Secure Trading Agent services, you must manually start Secure Trading Agent's services before you can access the Secure Trading Agent Communications Center.

If this is your first time installing Secure Trading Agent, proceed to the sections "Configuration of Secure Trading Agent" on page 50 and "Secure Trading Agent Services" on page 51.

The section, "What to Do Next" on page 60, provides information on how to get started using Secure Trading Agent.

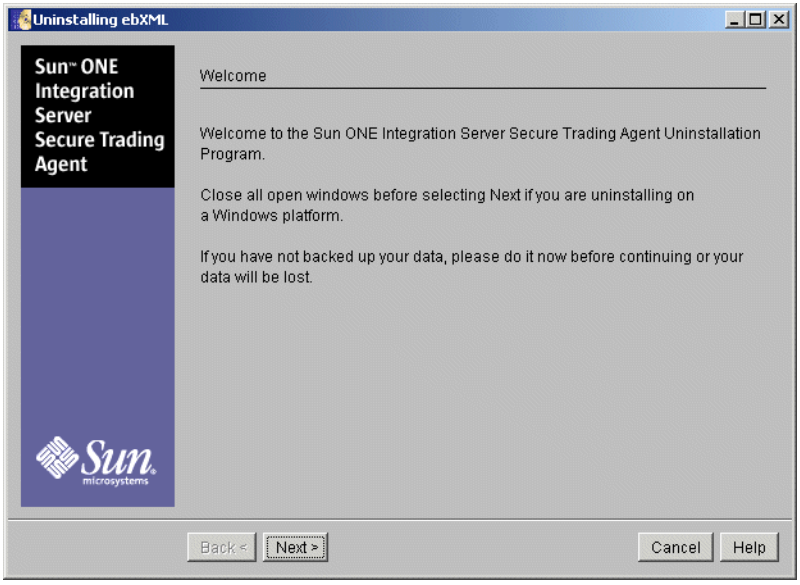
Uninstall Procedure for Windows

➤ **To uninstall Secure Trading Agent on Windows**

1. From the Start > Programs > Sun Microsystems menu, select: Secure Trading Agent > Utilities > Uninstall

   The Secure Trading Agent uninstall program window appears.

Figure 19 Windows Uninstall Welcome Screen

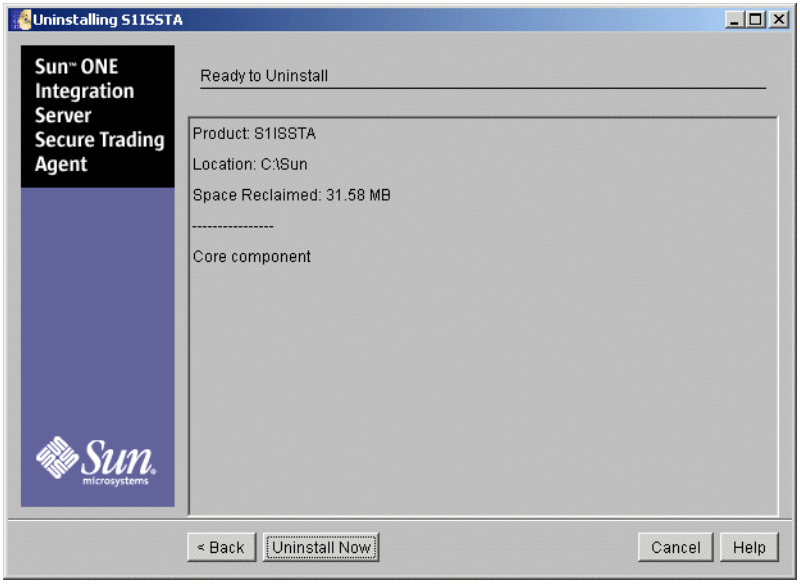


2. Select Next.

   The screen shows all Secure Trading Agent components to uninstall.

NOTE The Secure Trading Agent uninstall utility does not uninstall the Java 2 SDK.

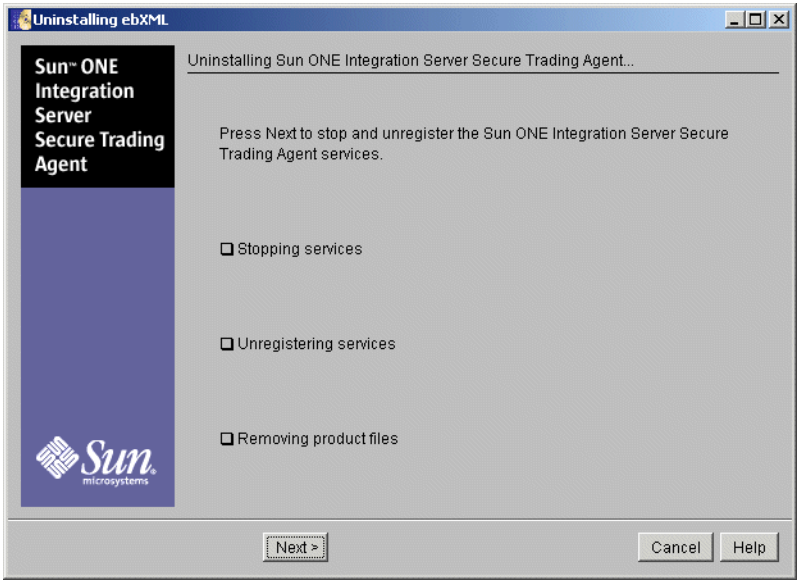
Figure 20 Windows List of Components to Uninstall



3. Select Uninstall Now.

   The Secure Trading Agent uninstall utility prompts you to stop services and continue the uninstall procedure.

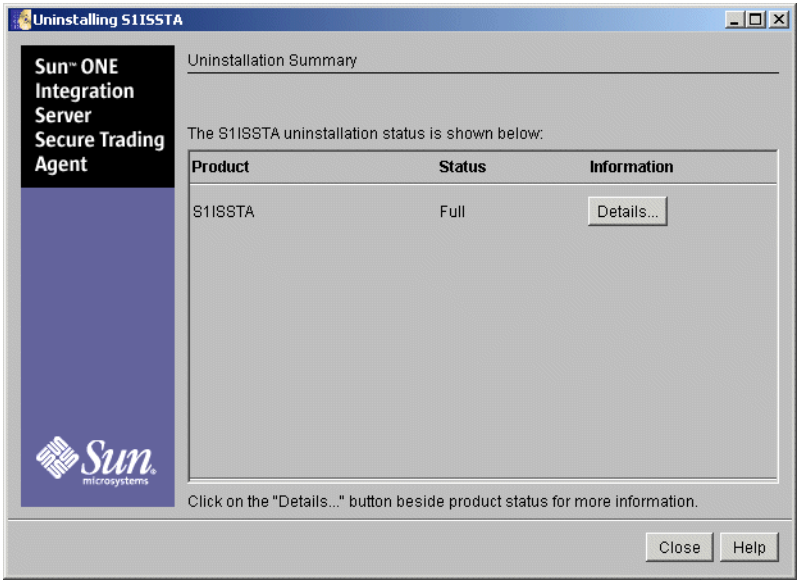
Figure 21 Windows Uninstall Stop Services



4. Select Next to continue the uninstall procedure.

   When the uninstall is complete, the Uninstall utility displays a summary of the uninstall process.

Figure 22 Windows Uninstall Details



5. Select Details to review details of the uninstall, then select Close to exit the uninstall utility.

Configuration of Secure Trading Agent

During the installation of Secure Trading Agent, the installer creates default configuration settings for Secure Trading Agent. You can use the Secure Trading Agent Control Panel to modify the configuration after installation.

Use the Control Panel to modify the following settings:

- Secure Trading Agent Administration User
- HTTP and HTTPS proxy ports to configure access to Secure Trading Agent through a firewall
- Windows domain names (Windows platforms only)
- Communication Ports for receiving ebXML messages
- Ports used by Secure Trading Agent or Apache Tomcat
- Database specifications

For information on running the Control Panel, see the "Secure Trading Agent Administration" chapter of the *Secure Trading Agent User's Guide*.

Secure Trading Agent Services

Secure Trading Agent provides the following services:

- Message Handler

  The Secure Trading Agent message handler manages three services. It is responsible for sending and receiving messages between you and your trading partners. It also starts the Configuration Server, which manages users and passwords for Secure Trading Agent, and the HSQL database, which is the default database installed with Secure Trading Agent.

- Sun Management Center service.

  The Sun Management Center service manages the web server that runs the Secure Trading Agent Communications Center web application. This service is not necessary to run the ebScript utility, which is the command line equivalent of the Communications Center.

Details for managing Secure Trading Agent services vary by platform. For information about managing Secure Trading Agent services, see the "Secure Trading Agent Administration" chapter of the *Secure Trading Agent User's Guide*.

Registration for Secure Trading Agent

Secure Trading Agent contains a registration process that ensures that the product has been installed properly. The registration procedure should be run after Secure Trading Agent is installed and properly configured on your system. You should be logged in as the Secure Trading Agent administrator when running the registration process.

When you run the registration process, the installer creates the following ebXML agreements:

- `installation_verification.cpa`

  An agreement between you and the Sun registration server. This agreement contains a Send action that the Sun registration server uses to send an installation verification message to you. The `installation_verification.cpa` agreement contains the endpoints of your message handler, which the registration server needs to send the message.

- `sun_registration.cpa`

  An agreement that contains a Send action that sends the `installation_verification.cpa` to the Sun registration server as an attachment. When the Sun registration server downloads the agreement, it deploys it and then invokes the Send action that sends the installation verification message to you.

The registration process also creates the following ebScript file:

- `sun_registration.ebs`

  This script imports and deploys the agreements listed above into your Secure Trading Agent system, sends the `installation_verification.cpa` to the Sun registration server, and then listens for a response from the registration server.

The Secure Trading Agent Installer creates certificate and keystore files that are needed to deploy agreements and to send and receive messages between you and the Sun registration server. The generated scripts reference these certificates during the registration process.

Registration Procedure

The details of the registration procedures for Solaris and Windows platforms differ slightly.

➤ **To register Secure Trading Agent on Windows platforms**

1. Login as the Secure Trading Agent administrator.

   You should be the user with Secure Trading Agent administration privileges when running the registration process.

2. Open a command window and navigate to the `ebregister.exe` utility.

   You may want to enable scroll bars for the command window to view messages that the utility generates.

The default location for this utility is:

```
C:\Sun\S1ISSTA\bin\ebregister.exe
```

Your location may differ.

3. Run the `ebregister` program:

   ```
   C:\Sun\S1ISSTA\bin>ebregister
   ```

   When you run this program, it asks you a series of questions. The utility uses your responses to help generate CPA Ids, local party Ids, and unique certificate names that are used in the registration process.

   Use the `--help` to print help for the registration utility to the screen.

   Use the `--defaults` option to bypass the series of questions and use the default information from your installation.

   The following files are created during the ebregister process:

   ```
   C:\Sun\S1ISSTA\etc\sun_registration.cpa
   C:\Sun\S1ISSTA\S1ISSTA\etc\sun_registration.ebs
   C:\Sun\S1ISSTA\S1ISSTA\etc\installation_verification.cpa
   C:\Sun\S1ISSTA\S1ISSTA\etc\verify_request.payload
   ```
   various certificate (.cer) and keystore (.jks) files

4. Change directory as indicated below and run the following ebscript command, which takes the `sun_registration.ebs` script as an input file:

   ```
   C:\>cd \SUN\S1ISSTA
   C:\>bin\ebscript -u <admin-user> -i etc\sun_registration.ebs
   ```

   admin-user is the user name of your Secure Trading Agent administrator.

   After the license information is displayed, you are prompted for the admin-user password.

   Proceed to "Registration Verification" on page 54.

➤ **To register Secure Trading Agent on Solaris platforms**

1. Login as the Secure Trading Agent administrator.

   You should be the user with Secure Trading Agent administration privileges when running the registration process.

2. Navigate to the `ebregister` utility, as explained below.

   On Solaris platforms, the default location for this utility is:

   ```
   /opt/SUNWebXML/S1ISSTA/bin/ebregister
   ```

In a typical installation, the default directory for this utility is `/opt/SunWebXML/S1ISSTA/bin`. Your location may differ.

3. Run the `ebregister` program:

   ```
   ebregister
   ```

   The utility asks you a series of questions, using your responses to help generate CPA Ids, local party Ids, and unique certificate names that are used in the registration process.

   Use the `--help` to print help for the registration utility to the screen.

   Use the `--defaults` option to bypass the series of questions and use the default information from your installation.

   The following files are created during the ebregister process:

   ```
   /opt/SUNWebXML/S1ISSTA/etc/sun_registration.cpa
   /opt/SUNWebXML/S1ISSTA/etc/sun_registration.ebs
   /opt/SUNWebXML/S1ISSTA/etc/installation_verification.cpa
   /opt/SUNWebXML/S1ISSTA/etc/verify_request.payload
   ```
   various certificate (.cer) and keystore (.jks) files

4. Change directory as indicated below and run the following ebscript command, which takes the `sun_registration.ebs` script as an input file:

   ```
   cd /opt/SUNWebXML/S1ISSTA
   ./bin/ebscript -u <admin-user> -i ./etc/sun_registration.ebs
   ```

   admin-user is the user name of your Secure Trading Agent administrator.

   After the license information is displayed, you are prompted for the admin-user password.

   After supplying the password, information about the registration process is displayed.

   Proceed to the following section, "Registration Verification."

Registration Verification

The following procedure shows how to open the Secure Trading Agent Communications Center to view the response from the Sun registration server.

➤ **To view the registration response from the Sun registration server**

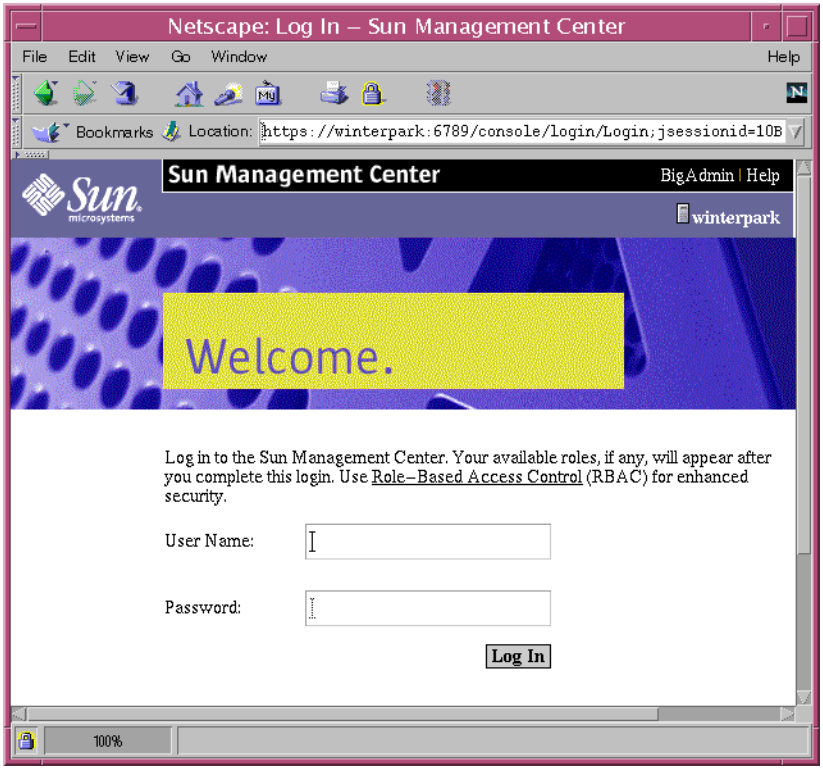
1. Wait a few moments (to allow time for the Sun registration server to respond), then launch the Secure Trading Agent Communications Center, as described below:

   Point a browser to the following location:

   ```
   https://<server>:6789
   ```

   server is the machine on which you installed Secure Trading Agent.

Figure 23 Sun Management Center Welcome



2. Log into the Sun Management Center as the Secure Trading Agent administrator, and then select the Secure Trading Agent Communications Center application.

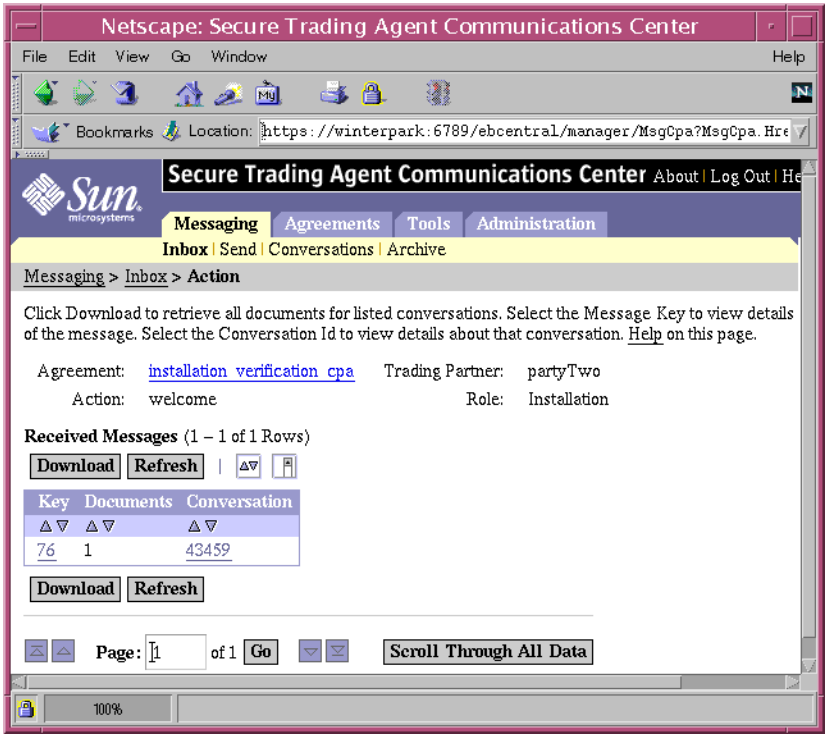
   The Messaging Inbox displays a single message.

Figure 24 Secure Trading Agent Messaging Inbox

If the Inbox does not display the message, wait a few moments, then navigate to the Inbox from the Messaging tab and select Refresh.

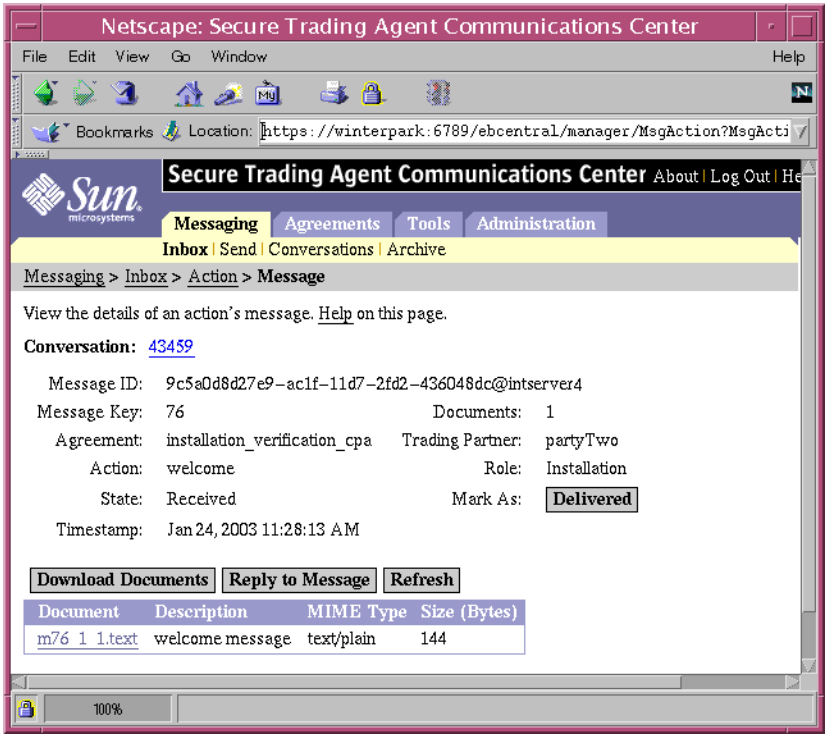
3. In the Inbox, select the Welcome action.

Figure 25 Messages Received



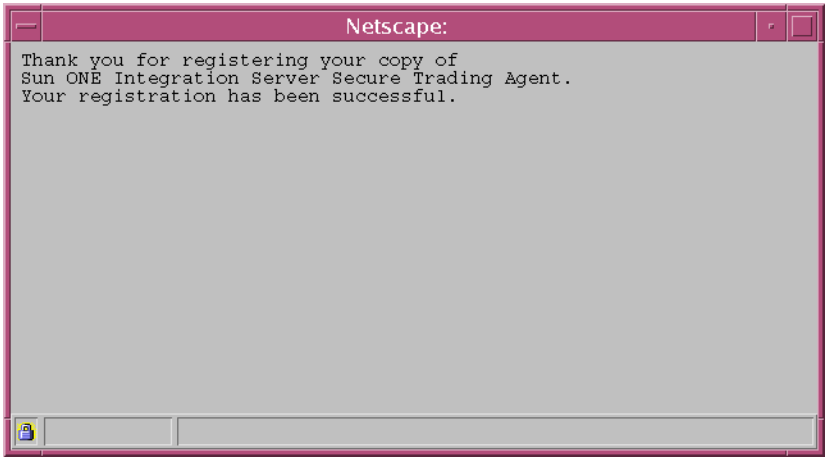
4. In the Received Messages list, select the Key for the message to view the message details.

Figure 26 Messages Details



5. Select the link for the document to view the Registration Success message from the Sun registration server.

Figure 27 Messages Details



What to Do Next

It is recommended that you do the following to get started with Secure Trading Agent:

1. Read the *Release Notes*.
2. Follow the Registration procedure described in "Registration for Secure Trading Agent" on page 51 to ensure that your installation is correctly configured to send and receive messages.
3. Read the "Overview" chapter of the *Secure Trading Agent User's Guide* to familiarize yourself with ebXML concepts.
4. Complete the *Secure Trading Agent Tutorial* for a "Quick Start" on using Secure Trading Agent.
5. Familiarize yourself with the *Secure Trading Agent User's Guide* to understand more about the Secure Trading Agent applications and how to administer them.

Refer to "Documentation Resources" on page 15 for a complete list of the documentation available to you with Secure Trading Agent.