

STRATEGY™ Analyzer 6.1 Guide

11/19/02



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Technical Support

Contacting Support

Phone. Our goal is to provide one-on-one technical support. However, based on the complexity and/or frequency of calls, you may reach our phone-mail system. Leave your name, company name, and telephone number, and a support member will call you back.

Fax. Send your name, company name, and telephone and fax numbers along with the details of your request and the name of the product with which you need assistance.

Internet. Enter your request on the Support Web site. You can also use the site to find documentation, download patches, open a case, and participate in the customer forum. See “Internet Support” below.

E-mail. Include your name, e-mail address, company name, the feature that you have a question about, and your question or request.

Internet Support

Table 1-1
Internet addresses

Site	Address
Support Web site	http://support.spss.com
Documentation team e-mail	docfeedback@spss.com

The following information is on the SPSS Support Web site at <http://support.spss.com>. It requires you to log in.

Troubleshooting. Search for a resolution, view frequently used resolutions, open a support case, and view the status of your cases.

Documentation. Read SPSS Support policies, browse the newsletters for technical issues, or view and download the latest documentation, including the *Installation Guide*, *Administrator's Guide*, *Upgrade Guide*, and *Quick Start* guides.

Upgrade Info. Order an upgrade and view upgrade information pertinent to each release.

Patches. Download patches for all supported products.

My Corporate Info and My Personal Info. View your agreements, passwords, cases, and other status information.

Contacting Us. Find the most current phone numbers, e-mail addresses, and fax numbers for North American, European, and Japanese/Asia Pacific support. You can also open a case here.

Customer Forum. Network with other maintenance customers in this discussion group.

Other Links. Find information about products, training, Webinars, and upcoming events.

North American Support

For the most current contact information, go to the SPSS Support Web site at <http://support.spss.com>. It requires you to log in.

Table 1-2
North American services and support information

Topic	Phone	Fax	E-mail
North American support (relational products)	(507) 288-5922 Option 2, then option 1	(507) 287-2809	scsupport@spss.com
North American support (multidimensional products)	(507) 288-5922 Option 2, then option 2	(507) 287-2809	scsupport@spss.com
Product training and consulting services	(312) 261-6544	(847) 779-6544	TrainingServices@spss.com

European Support

For the most current contact information, go to the SPSS Support Web site at <http://support.spss.com>. It requires you to log in.

Table 1-3
European support information

Country	Language	Phone	Fax	E-mail
Austria	German	49 89 48 9074 333	32 2 474 03 63	eursupport@spss.com
Belgium	Dutch	32 2 477 17 00	32 2 474 03 63	eursupport@spss.com
Belgium	French	32 2 477 17 01	32 2 474 03 63	eursupport@spss.com
Belgium	German	32 2 477 17 02	32 2 474 03 63	eursupport@spss.com
Denmark	Danish and English	45 361 58731	32 2 474 03 63	eursupport@spss.com
France	French	33 155 21 25 32	32 2 474 03 63	eursupport@spss.com
Germany	German	49 89 48 9074 333	32 2 474 03 63	eursupport@spss.com
Italy	Italian and English	39 0280 663036	32 2 474 03 63	eursupport@spss.com
Luxembourg	French	32 2 477 17 03	32 2 474 03 63	eursupport@spss.com
Switzerland	French	41 227 100034	32 2 474 03 63	eursupport@spss.com
Switzerland	German	49 89 48 9074 333	32 2 474 03 63	eursupport@spss.com
The Netherlands	Dutch	31 205 82 94 96	32 2 474 03 63	eursupport@spss.com
United Kingdom	English	44 1483 719 202	32 2 474 03 63	eursupport@spss.com

Japan and Asia Pacific Support

For the most current contact information, go to the SPSS Support Web site at <http://support.spss.com>. It requires you to log in.

Table 1-4
Japan and Asia Pacific support information

Region	Phone	Fax	E-mail
Japan and Asia Pacific	603 6411 7660	603 6411 7661	jpscsupport@spss.com

Release Overview

Welcome to the STRATEGY Analyzer 6.1 Guide. This guide supports the limited availability version of Analyzer and will help Analyzer administrators understand Analyzer enhancements, restrictions, and requirements. It will also help them install Analyzer and set up security.

STRATEGY Analyzer supports Hyperion Analyzer 6.1 features and functions with iSeries-specific differences and exceptions noted in this guide. For a complete list of Hyperion enhancements, see the Hyperion Analyzer documentation.

An Adobe Acrobat (.pdf) version of this guide is available on the STRATEGY Analyzer CD-ROM. Viewing and printing the document requires Adobe Acrobat Reader. If necessary, you can download it at no cost from www.adobe.com.

For the latest release notes, see the Analyzer Readme ([anzreadme.htm](#)).

Locating Documentation

All Analyzer documentation can be found on the Analyzer Information Map after you install. It is located on the Analyzer Launch Page (<http://hostname:port/Analyzer6/index.html>). For instructions on connecting to the Launch Page, see “Connecting to the Analyzer Launch Page” on p. 21.

You can also find STRATEGY Analyzer documentation (this guide and the Analyzer Readme) on the Technical Support Web site at <http://support.spss.com>. After you log on, click Documentation > STRATEGY Manuals.

Enhancements

Sophisticated Graphical User Interface

The most important feature of Analyzer is that it provides an easy-to-use interface for sophisticated multidimensional and relational analysis. Its methods and metaphors make online analysis as easy as surfing the Internet.

Scalability

Analyzer has been restructured to run inside leading J2EE-compliant application servers. The supported J2EE Application Server shares Analyzer business logic, manages network traffic, maintains system security for large numbers of concurrent users, and provides load balancing, fault tolerance, and fail over.

Personalization

Users can personalize their Analyzer client through innovative new user preferences. Options include:

- Modifying the look and feel of the client interface
- Creating personal database connections
- Creating points of view (POV) that superimpose the dimensions that interest the user in other reports
- Creating personal variables (personally defined selection lists)

Relational Integration

A new easy-to-use interface expedites the process of drawing relational data into Analyzer, and enables users to explore relational data with the same analysis tools used to analyze online analytical processing (OLAP) data.

Integrated Functionality and Design Tools Application

The Analyzer Java Web Client has been enhanced to perform all the functionality previously provided by the Analyzer Windows Client and Analyzer Design Tools.

Licensing

Analyzer licensing is handled through Warehouse Manager Server. When you install Warehouse Manager Server, you receive 60-day demo access to Analyzer. To enable Analyzer beyond the demo period, you must enter your new license password via the iSeries interface or Warehouse Manager Client. If you have an Analyzer license password from a previous Analyzer release, your current password will work, and no updating is required.

Administrators can use Warehouse Manager Client to perform other licensing tasks such as adding, changing, transferring, and removing Analyzer passwords and showing active connections. For more information, see the *STRATEGY Installation Guide*, Chapter 4.

Integrated Security

In Analyzer Administration Tools, the System Settings dialog box provides new security/authentication options. You can now use Analyzer security with OS/400 without having to recreate your OS/400 user groups/profiles. You will create and maintain users and groups with Warehouse Manager Client or an iSeries command line. For more information, see “Security Settings” on p. 21.

Important: When implementing security, use the security information in this guide, which describes Analyzer on the iSeries.

View Report Script

A View Report Script option has been added to the Analyzer Java Web Client on the Tools menu. This option will display the Essbase report script for the active data source. If the active data source is a relational database, then the SQL statement will be displayed. The report script or SQL statement can then be copied and pasted into other applications, such as Essbase Application Manager or Query. This feature may be helpful to administrators or Technical Support personnel for debugging purposes. For instructions, see the Analyzer Java Web Client online help.

Linking to Executables

With drill linking in Analyzer Java Web Client, not only can you navigate to other reports by double-clicking cells with pre-placed links, but you can also navigate to executable applications. The Analyzer Java Web Client’s Select a Report dialog box, accessed from the Drill Link Options dialog box, has a Link to Executables button. For more information, see the Analyzer Java Web Client online help’s Drill Linking topic.

Exporting to Excel

Users can export Analyzer reports to Microsoft Excel. You can find instructions in Analyzer Java Web Client online help’s Export to Microsoft Excel topic.

Enhanced Printing

Reports can be printed with a summary page and exported to Adobe Acrobat Reader *.pdf* files.

New Chart Types

Bubble, Spline, Curved Area, and Box Plot chart types are now available.

New Commands

The following iSeries commands are new in this version of Analyzer.

Table 2-1
New Commands

Command	Function	Additional Information
STRESSSVR	Starts one or all Essbase/400 servers, including Essbase Enterprise Services server (EES)	<i>Essbase/400 Administrator's Guide</i>
ENDESSSVR	Ends one or all Essbase/400 servers, including EES	<i>Essbase/400 Administrator's Guide</i>
ANZINST	Installs Analyzer	Installation and Uninstallation chapter
UNINSTANZ	Uninstalls Analyzer	Installation and Uninstallation chapter
STREESCMD	Administers Essbase Enterprise Services (EES)	Analyzer Administration chapter

Release Notes

STRATEGY Analyzer supports Hyperion Analyzer 6.1 features and functions with the following iSeries-specific exceptions. For a complete list of release notes, see the Hyperion Analyzer documentation.

Essbase/400 Dependencies

Analyzer connects to the Essbase/400 OLAP Server via Essbase/400 Enterprise Services (EES). EES acts like a gate between Essbase/400 and Analyzer, so to access to Essbase/400 servers and user profiles with Analyzer, you must add them to EES. The Essbase/400 information you add to EES depends on your security setting. For more information, see “Connecting Analyzer to Essbase/400” on p. 27.

Preserve Active Connections With Proper Logout

To properly release Analyzer active connections and licenses in Warehouse Manager Client, when you log out of Analyzer, use the Logout button on the Analyzer tool bar, or select Logout from the File menu. Your Active Connections value may be incorrect if users close the Analyzer window without using the Logout option. However, it will be corrected when the Analyzer session times out (default is 30 minutes). You can use the Analyzer Analysis Server Console to end the session or change the timeout value.

Log Out of Analyzer Before Stopping the Orion Application Server

Stopping the Orion Application Server while users are still logged in to Analyzer will cause Orion to use up an equivalent number of Analyzer licenses permanently. Before stopping the Orion Application Server (ENDORI command), make sure all users are logged out of Analyzer. To forcibly log out all users, log in to the Analyzer Analysis Server Console, and select each box

labeled Kill for all the User Sessions listed. Click the Submit button. This will log out each user from their session and release the session license. As the Server Console refreshes, the User Session list will empty until there are no User Sessions left. Then it is safe to stop the Orion Application Server.

No Lockout Recovery

There is no lockout recovery. Administrators locked out of Analyzer must reinstall the product. Do not lose or forget your Administrator password. If you are locked out of Analyzer and must reinstall, all data will be lost. There is no way to rebuild or recover your repository.

Supported Relational Database

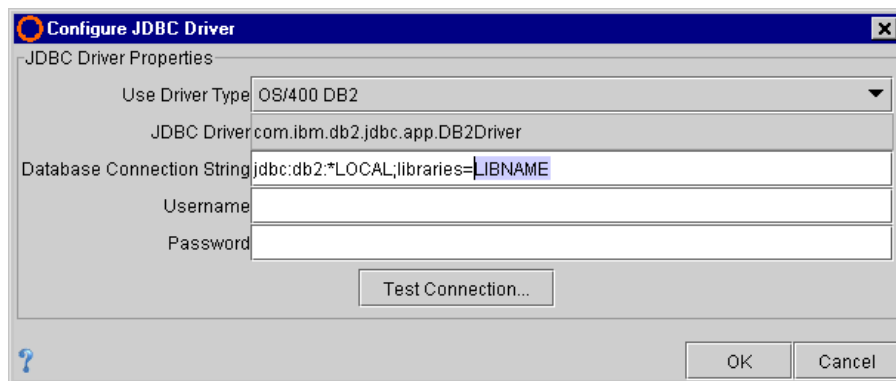
The only relational database officially supported at this time is OS/400 DB2 using the "native" JDBC DB2 driver.

Note: In Analyzer Administration Tools, when configuring a relational database connection and specifying OS/400 DB2 as the Driver Type, remember the library name you chose in the Database Connection String section. When you proceed to the Select Table dialog box, be sure to select that same library name. Otherwise, you won't have access to the column names in the tables you choose.

To configure a relational database connection, open Analyzer Administration Tools. Right-click on the Databases folder, and select New Relational Connection. This opens the Configure JDBC Driver dialog box.

Figure 2-1

Configuring a relational database connection



Supported OLAP Database

Analyzer supports the Essbase/400 6.5 OLAP server.

Supported Application Servers

The Orion Application Server is the only supported application server at this time. Documentation references to Tomcat and Websphere application servers do not apply to this version of Analyzer.

Orion Application Server Installation Key

An Orion Application Server installation key is included with your software package. The key is required during Orion installation on the iSeries. If you do not have a key, contact Technical Support to obtain one. For information about Orion Application Server requirements, see “Orion Application Server” on p. 14.

Migration and Release Compatibility

This version of Analyzer does not support migration from STRATEGY 4.x or Hyperion 5.x Analyzer. In addition, this version is not compatible with any previous version of STRATEGY Analyzer, and any connection of older clients to the 6.1 server or of 6.1 clients to older servers is unsupported.

Saving and Restoring in Analyzer

STRATEGY 4.x The SAVSRVRINF and RSTSRVRINF commands are not supported in this version of Analyzer. Restoring Analyzer 4.x data into Analyzer 6.1 is not supported.

STRATEGY Analyzer 6.1 or Hyperion 6.1. To back up reports saved in this iSeries 6.1 version or in the Hyperion 6.1 Windows NT versions, you can use the Import and Export features in Analyzer Java Web Client. However, you must manually recreate your database connections and user definitions. For import and export instructions, see the Java Web Client online help.

Note: You cannot export from Hyperion Analyzer 6.0 directly into the iSeries version of 6.1. Doing so will result in an error message. If you plan to migrate your Hyperion Analyzer data to the iSeries, you should first upgrade to Hyperion Analyzer 6.1 (on NT), and then use the Export/Import features.

Password Character Limit

Analyzer supports mixed case iSeries passwords, including these special characters: @ # \$ _

You can only sign on to Analyzer with a password of 30 characters or less.

Analyzer HTML Web Client Not Available.

The Analyzer HTML Web Client is not available in this version of Analyzer.

Running Analyzer with Enterprise Reporting

If you are running Enterprise Reporting, be aware that both Enterprise Reporting and Analyzer use the Orion Application Server. Starting or stopping the server for one application will affect the other.

Installation and Uninstallation

This chapter covers Analyzer requirements, installation, and uninstallation.

Licensing

Analyzer licensing is still handled through Warehouse Manager Server. When you install Warehouse Manager Server, you receive 60-day demo access to Analyzer. To enable Analyzer beyond the demo period, you must enter your new license password via the iSeries interface or Warehouse Manager Client. If you have an Analyzer license password from a previous Analyzer release, your current password will work, and no updating is required. For licensing information, see your *STRATEGY Installation Guide*, Chapter 4.

Environment Requirements

Read this information carefully. If you fail to meet the software requirements in this chapter, Analyzer may not function properly.

iSeries Requirements

STRATEGY

Before installing Analyzer, you must have STRATEGY 4.5 installed with patch 4 (4.50.040) or a later 4.5 patch. To determine your version, you can use the DSPSCAUT command on an iSeries command line.

Supported OS/400 Version

Analyzer requires OS/400 Version 5 Release 1 (V5R1)

Disk Space

Make sure you have enough free disk space to install the server.

Table 3-1
Disk space required for server installation

Component	Space Required
Analyzer Server	100 MB
Temporary Space	50 MB (After installation, this space is freed when the installer signs off.)
Run-time Space	500 MB (This temporary space is allocated by JDBC and is used for improving performance. The memory will be released when you stop the Orion Application Server.)

Orion Application Server

Analyzer requires the Orion Application Server. If you did not install Orion when you installed the STRATEGY servers, see “To Install Orion Application Server Using the INSTORI Command” on p. 15. Orion Application Server must be stopped while you are installing Analyzer. For instructions, see “Starting and Stopping Orion Application Server” on p. 17.

Note: Enterprise Reporting and Analyzer both use the Orion Application Server. Stopping Orion will affect both applications.

Essbase Requirements

If you will use Analyzer with multidimensional databases, Analyzer requires Essbase/400 6.5, which includes the Essbase/400 OLAP Server and Essbase/400 Enterprise Services (EES). You will need your EES IP address (default 127.0.0.1) and port number (default 5001) when you install Analyzer. You will also need to enter the EES domain, which has a default of Essbase.

If you will not use Analyzer with multidimensional databases, you can accept the default information during installation.

Java Developer Kit

Analyzer requires JDK 1.3.1 with Java group PTF SF99069-11 or later.

Database Support

Analyzer requires Database group PTF SF99501-09 or later.

You must also have the ability to run the iSeries RUNSQLSTM command.

Client PC Software and Hardware Requirements

The following table lists minimum client software and hardware requirements for Analyzer.

Table 3-2
PC requirements

Computer	IBM or IBM-compatible personal computer
Operating System	Microsoft Windows 98; Microsoft Windows NT 4.0, Service Pack 6; Microsoft Windows 2000, Service Pack 2; or Microsoft Windows XP
Web Browser	Microsoft Internet Explorer 5.5 or later
Microprocessor*	450 MHz minimum. 850 MHz recommended.
RAM	128 MB
Hard Disk Space	30 MB temporary space

*Because Analyzer processing is done via applet on the PC, performance will increase relative to processor speed.

Java Plug-in

To use the Analyzer Java Web Client and Analyzer Administration Tools, users must have Sun Java Plug-in 1.3.1 with the latest patch. If you do not have the plug-in installed, you will be prompted to install it when you log in to Analyzer and click the Java Web Client link or the Analyzer Administration Tools link.

Note: You must have Administrator authority to install the plug-in.

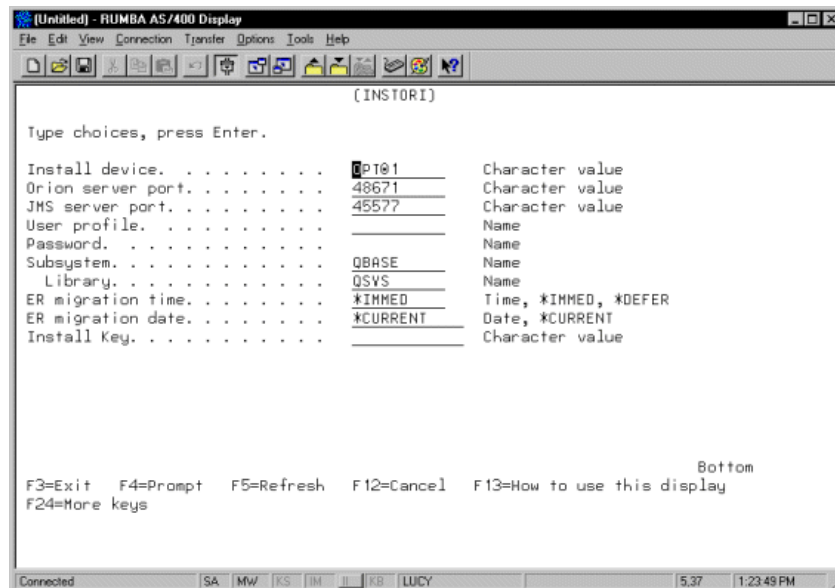
To Install Orion Application Server Using the INSTORI Command

- ▶ Load the STRATEGY iSeries CD into the iSeries CD drive.
- ▶ At an iSeries command line, add your 4.5 Warehouse Manager Server library name to your library list. For example, at the iSeries prompt, type:

```
ADDLIBLE SCSEVER
```

 where *SCSEVER* is the library in which the Warehouse Manager Server is installed.
- ▶ At an iSeries command line, type `INSTORI`, and press F4.
- ▶ Enter the following information:

Figure 3-1
Installing the Orion Application Server using INSTORI



Orion Server Port. The Orion Application Server requires a port number different from the Warehouse Manager Server port number. Accept the default port number (48671 or the next available number) or enter a port number in the range of 6000-65535. To see what port numbers are already in use, run the WRKSRVTBLE command from an iSeries command line.

Note: Remember this port number. You will use it in your Analyzer URL.

JMS Server Port. This port is required by the Orion Application Server. Accept the default (45577 or the next available number) or enter a port number in the range of 6000-65535.

User Profile and Password. Enter an existing user profile that has *ALLOBJ or *SECADM privileges, and a password to be stored for security.

Subsystem and Library. Your current subsystem, as determined by the QCTLSBSD system value, is displayed and should not be changed.

Note: If the controlling subsystem is QBASE, then QBASE is the default. If the controlling subsystem is QCTL, then QCMN is the default. To find the controlling subsystem, type DSPSYSVAL SYSVAL(QCTLSBSD).

The subsystem description resides in the specified Library. QSYS is the default.

Install Key. Enter the Orion iSeries installation key. If you do not have a key, contact Technical Support to obtain one.

Starting and Stopping Orion Application Server

To start and stop the Orion Application Server, follow the instructions below. Orion Application Server affects both Analyzer and Enterprise Reporting.

To Start or Stop Orion Application Server on an iSeries

To start or stop Orion Application Server on an iSeries, follow the steps described below.

Start. The *STRORI* command starts the Java process that starts Orion Application Server. Follow these steps:

- ▶ Verify you have compiled the Java Toolbox classes as described in the *STRATEGY Administrator's Guide*.
- ▶ Log on with *JOBCTL authority. *ALLOBJ authority is also recommended. However, if you don't have *ALLOBJ authority, grant the user who will be using STRORI *USE authority to the following objects:

STRORI (command type object) in the server library.

STRTCP (command type object) in QSYS.

QUSER (*USRPRF type object) in QSYS.

- ▶ Add the library containing the Warehouse Manager Server to your library list. For example, at the iSeries prompt, type:

```
ADDLIBLE SCSEVER
```

where *SCSEVER* is the library in which the Warehouse Manager Server is installed.

- ▶ To start Orion Application Server, at the iSeries prompt, type STRORI.

Stop. The *ENDORI* command stops the Java process that is running Orion Application Server. Follow these steps:

- ▶ Log on with *ALLOBJ and *JOBCTL authority.
- ▶ Add the library containing the Warehouse Manager Server to your library list. For example, at the iSeries prompt, type:

```
ADDLIBLE SCSEVER
```

where *SCSEVER* is the library in which the Warehouse Manager Server is installed.

- ▶ To stop Orion Application Server, at the iSeries prompt, type ENDORI.

Analyzer Installation Checklist

Before beginning installation, make sure you have the following components and have completed the following steps.

- OS/400 V5R1 operating system
- STRATEGY 4.5 library installed into a new 4.50.040 Warehouse Manager Server library. We do not recommend installing Analyzer 6.1 over an existing production library. Instead, install a new 4.5 library and apply patch 4. When you install STRATEGY, be sure to install the Orion Application Server and make note of the Orion port number.
- Orion Application Server installed and stopped
- Orion Application Server port number
- Essbase/400 6.5 servers (OLAP and EES) installed and running
- EES Server IP address (default 127.0.0.1)
- EES Server port number (example 5001)
- EES domain (type Essbase)
- Java Developer Kit 1.3.1 with Java group PTF SF99069-11 or later
- Database group PTF SF99501-09 or later and ability to run the RUNSQLSTM command.
- Internet Explorer 5.5 or higher with Sun Java Plug-in 1.3.1
- Analyzer 6.1 is not currently installed in the library where you plan to install.

Installing Analyzer

- ▶ Insert the CD into the iSeries CD drive.
- ▶ Log on with QSECOFR or equivalent authority (**ALLOBJ*, **IOSYSCFG*, **SAVSYS*, **JOBCTL*, and **SECADM* special authorities are needed). **The installation will fail if the installing profile's User Profile setting is OWNER(*GRPPRF). *GRPPRF cannot own new objects created by the installing profile.**
- ▶ Type LODRUN and press F4.
- ▶ You are prompted for a device name. Choose *OPT or the name of your optical device.
- ▶ You are prompted for a path name. Accept the default path.
- ▶ On the next screen, you are prompted for the following information. If you will not use Analyzer with multidimensional databases, you can accept the default information.
 - 4.5 Warehouse Manager Server library name (default is *SCSERVER*).
 - Essbase Enterprise Server (EES) IP address (default 127.0.0.1).
 - EES server port (default 5001).
 - EES domain (use Essbase.)

- ▶ At the confirmation screen, enter Y to begin installation.
- ▶ When the installation is successful, you will see the message "Analyzer setup completed successfully."

To connect to the Analyzer Launch Page, see instructions in "Connecting to the Analyzer Launch Page" on p. 21.

Uninstalling Analyzer

Warning: When you uninstall Analyzer 6.1, all of your Analyzer 6.1 information, including any data and reports created with Analyzer 6.1, will be removed. However, uninstalling Analyzer will not affect data created in Enterprise Reporting.

- ▶ Stop the Orion Application Server, using the instructions in To Start and Stop Orion Application Server on an iSeries.
- ▶ Using a QSECOFR profile with *ALLOBJ authority, run the following command, where *SCSERVER* is the library in which the Warehouse Manager Server is installed:
`RSTOBJ OBJ(*ALL) SAVLIB(QTEMP) DEV(*SAVF) SAVF(SCSERVER/UNINSTANZ)`
- ▶ Type QTEMP/UNINSTANZ, and press F4 to prompt.
- ▶ Enter the name of your 4.5 Warehouse Manager Server library where Analyzer is installed.
- ▶ At the confirmation screen, enter Y to begin uninstalling.
- ▶ When the uninstallation is successful, you will see the message "Analyzer uninstall completed successfully."

Analyzer Administration

This chapter describes how to connect to the Analyzer Launch page, how to set up and manage security, and how to connect Analyzer to Essbase/400.

Connecting to the Analyzer Launch Page

- ▶ Start the Orion Application Server, using the instructions in “To Start or Stop Orion Application Server on an iSeries” on p. 17.
- ▶ Start Internet Explorer, and enter the following URL, where *SERVERNAME* is the name of your iSeries, and *ORIONPORT* is your Orion server port number:

`http://SERVERNAME:ORIONPORT/Analyzer6/index.html`

For example: `http://prodserver:48693/Analyzer6/index.html`

- ▶ Click the Java Web Client link or the Analyzer Administration Tools link to log in.
If this is the first time you log in, you may be prompted to install the Java Runtime Environment.
- ▶ You will be prompted with a Java Security Warning. Select Grant this Session to continue.
- ▶ At the Login dialog box, enter your user ID and password. Analyzer has an initial user ID, *Administrator*, and password, *password*. They are case sensitive. Use this information to log in the first time. You may then want to change the password for security reasons.

Responding to the Java Security Warning

To avoid unexpected problems with the Analyzer applet, when you log in to Java Web Client or Analyzer Administrator Tools, we recommend choosing the Grant this session button or the Grant always button on the Java Security Warning.

Security Settings

In this version of Analyzer, there are two available security settings, *OS/400 and Analyzer security* and *Analyzer Security Only*. You can access them via the Analyzer Administration Tools link.

OS/400 and Analyzer Security. This Analyzer Integrated Security setting is the default setting and recommended security setting. If you use this setting with Essbase/400 Integrated Security, user IDs and passwords will be authenticated based on OS/400 security. You do not need to recreate users in Analyzer that you previously created on the OS/400. You will only need to create identically-named user groups on the OS/400 and in Analyzer and assign Analyzer report groups, databases, and roles to these groups. See “Managing User Groups” on p. 24.

If you use this setting without Essbase/400 Integrated Security, you must complete some additional steps using Essbase/400 Enterprise Services (EES). See “When to Use Essbase/400 Enterprise Services (EES)” on p. 27.

Analyzer Security Only. With this setting, you create user IDs and passwords in Analyzer security. These user IDs and passwords will not be linked to the iSeries, Essbase/400, or Essbase/400 Enterprise Services (EES), so to access any of the servers, you must maintain user IDs and passwords in each location.

If you use this setting and want to access Essbase/400 via Analyzer, you must maintain users and passwords in Analyzer and in Essbase/400. Because Analyzer uses EES to connect to Essbase/400, you must then use an iSeries command line to add the Essbase/400 servers and users and passwords to EES so Analyzer users can connect to Essbase/400.

The **Essbase and Analyzer Security** option is not available in this version.

Setting Up Security

Set up security in the following order:

Determine and specify a security setting. For instructions, see “Choosing a Security Setting” on p. 23.

The following instructions apply if you are using the default security setting, OS/400 and Analyzer security.

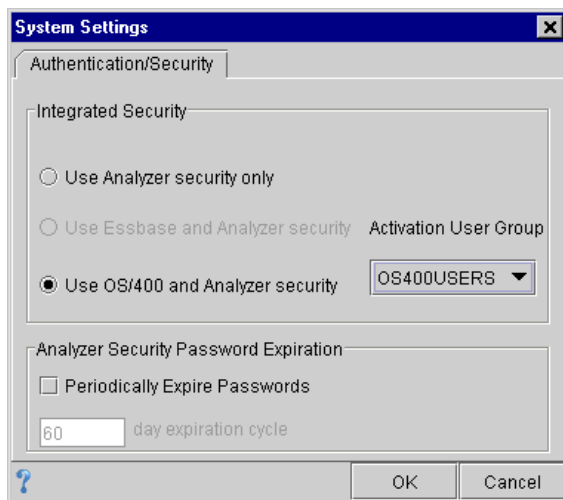
- ▶ Add Essbase/400 OLAP server(s) to EES so Analyzer can access the Essbase/400 databases. For instructions, see “Connecting Analyzer to Essbase/400” on p. 27.
- ▶ Use Warehouse Manager Client or an iSeries command line to create an Analyzer-specific user group on the OS/400, and add users to it.

Analyzer is pre-set with an **Activation User Group** called *OS400USERS*. This group is the default group for all integrated users, and it governs whether or not a user on the external system can log in to Analyzer. To allow OS/400 users to log in to Analyzer, you must create an identically named user group (*OS400USERS*) on the OS/400 and add Analyzer users to it.
- ▶ In Analyzer, assign authority or properties to the Activation User Group (*OS400USERS*) that will apply to all externally authenticated users.

Choosing a Security Setting

- ▶ Open the Analyzer Launch Page. For instructions, see “Connecting to the Analyzer Launch Page” on p. 21.
- ▶ Click the Analyzer Administration Tools link.
- ▶ When prompted, log in. If this is your first time logging in, use the default user ID, *Administrator*, and default password, *password*. These are case sensitive.
- ▶ On the Edit menu, choose System Settings.
- ▶ The default setting, Use OS/400 and Analyzer security, is selected. The default Activation User Group, *OS400USERS*, is also set. If this is acceptable, click OK.

Figure 4-1
System Setting dialog box



You must specify one of two available security settings:

Analyzer security only. User IDs and passwords will be authenticated based on Analyzer security you implement. To create and manage Analyzer users, user groups, and report groups, see the Analyzer Administration Tools online help.

Note: Analyzer-only user IDs and passwords are case sensitive.

Essbase and Analyzer security. Not available in this version.

OS/400 and Analyzer security. This is the default and recommended setting. Members of the Activation User Group on the OS/400 will be authenticated based on OS/400 security. The default Activation User Group is *OS400USERS*. To allow OS/400 users to log in to Analyzer, you must create an identically named user group on the OS/400 and add Analyzer users to it. See “Managing User Groups” on p. 24.

Managing User Groups

There are three types of user groups in Analyzer:

Activation User Group. The Activation User Group is the default group for all integrated users and governs whether or not an OS/400 user can log in to Analyzer. The default is *OS400USERS*, and this user group has the **Integrated Security enabled** check box selected by default. To allow OS/400 users to log in to Analyzer, you must create an identically named user group (*OS400USERS*) on the OS/400 and add Analyzer users to it (using Warehouse Manager Client or an OS/400 command line). If a user is not a member of the external OS/400 group, that user will not be able to log in to Analyzer.

Note: You can change the name of the Activation User Group. See “Changing the Activation Group” on p. 25.

Integrated User Groups. With OS/400 and Analyzer security, use Analyzer to create identically-named user groups as your OS/400 user groups, and assign Analyzer report groups, databases, and roles to these user groups. For instructions on creating a new user group, see the Analyzer Administration Tools online help.

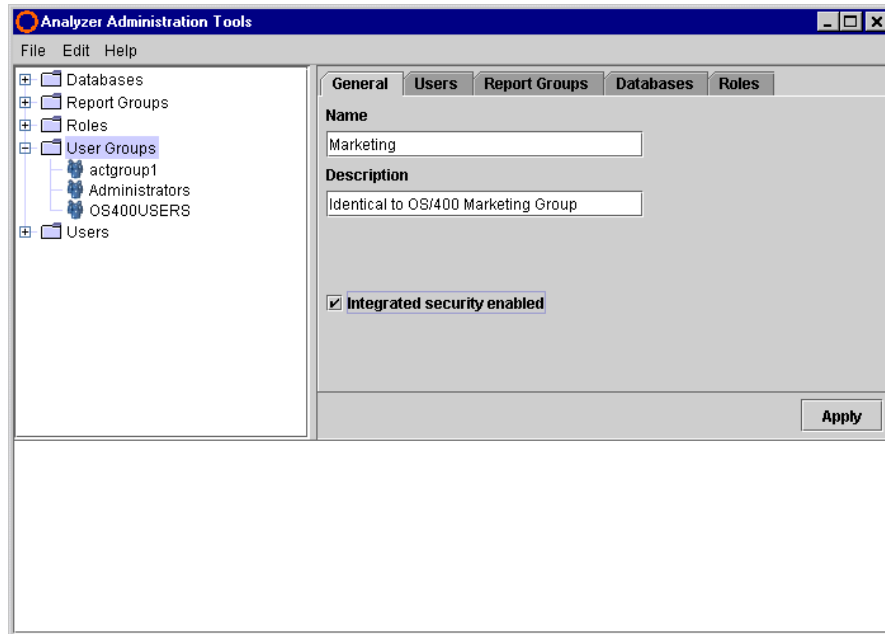
When creating identically-named user groups (for example, Marketing), on the General tab of the group, select the **Integrated security enabled** check box. Analyzer user group membership is then managed by the OS/400.

Important: When Analyzer Integrated Security is enabled, you must use the OS/400 to add and remove OS/400 users from user groups. (Use Warehouse Manager Client or an iSeries command line.) **Do not** use Analyzer to add OS/400 users to Analyzer Integrated Security user groups or remove OS/400 users from Analyzer Integrated Security user groups. Analyzer is re-synchronized with the OS/400 each time a user logs in to Analyzer, so changes made in Analyzer will not take effect.

If you wish, you can add Analyzer-only users to integrated user groups in Analyzer. These users are not governed by external servers.

Analyzer-Only User Groups. If you want to create user groups that are not managed from the OS/400 (Analyzer only), create user groups in Analyzer and do not select the **Integrated security enabled** check box.

Figure 4-2
Creating a new user group



Changing the Activation Group

If you are using Essbase/400 Integrated Security and you already have a group profile that identifies OS/400 users with access to Essbase/400 (default name is *ESSUSERS*), you may want to use your existing group as your Analyzer Activation Group. To do this, create a user group in Analyzer with the same name as your Essbase/400 group.

To change your Activation Group:

- ▶ Open Analyzer Administration Tools.
- ▶ Create a new user group in Analyzer with the same name as the OS/400 group that will allow users to access Analyzer. You may want to use *ESSUSERS*.
- ▶ On the General tab of the group, select the Integrated security enabled check box.
- ▶ On the Edit menu, select System Settings.
- ▶ Select OS/400 and Analyzer security, and in the Activation User Group drop-down, select your new group (*ESSUSERS*). This new group becomes the default user group for all integrated users and governs whether or not an OS/400 user can log in to Analyzer.

Guidelines for Using Analyzer Integrated Security

When using Analyzer Integrated Security (OS/400 with Analyzer security), users and passwords are authenticated based on the OS/400. The following situations apply to systems with Analyzer Integrated Security enabled.

Administrative User

- The initial Administrative user, *Administrator*, is exempt from Analyzer Integrated Security (Analyzer with OS/400 security).

Adding Users or Groups

- You must use the OS/400 to add OS/400 users to user groups. (Use Warehouse Manager Client or an iSeries command line.) **Do not** use Analyzer to add OS/400 users to Analyzer Integrated Security user groups. Analyzer is re-synchronized with the OS/400 each time a user logs in to Analyzer, so changes made in Analyzer will not take effect.
- When you create a new OS/400 user and assign it membership to the Activation User Group (*OS400USERS*), the user is automatically added to Analyzer upon login.
- When a user logs in to Analyzer, the user is added to Analyzer. If there is a group associated with the user on the OS/400, and that group is also an Analyzer user group and managed by Analyzer Integrated Security (specified in the **Integrated security enabled** check box on the General tab of the user group), then the user will be added to that Analyzer group and inherit its properties.

Removing Users or User Groups

- You cannot remove a user group that has the **Integrated Security enabled** check box selected.
- You must use the OS/400 to remove OS/400 users from user groups. Do not use Analyzer.
- If you remove a user from the Activation User Group on the OS/400, the user will no longer have access to Analyzer. However, all objects that the user owns or has created remain on the server.
- If a user is a valid OS/400 user AND a valid Analyzer user AND a member of the Analyzer Activation User Group BUT not a member of the OS/400 group that identically matches the Analyzer Activation User Group, this user will be removed from Analyzer upon login.
- You cannot deselect the **Integrated Security enabled** check box for the Activation User Group.

Security Hints and Restrictions

- There is no lockout recovery. Administrators locked out of Analyzer must reinstall the product. Do not lose or forget your Administrator password. If you are locked out of Analyzer and must reinstall, all data will be lost. There is no way to rebuild or recover your repository.

Hints for Analyzer Integrated Users

- When you are using the default security setting, Analyzer with OS/400 security, follow the password guidelines for your OS/400.
- You can only sign on to Analyzer with a password of 30 characters maximum.
- When Administrators create OS/400 user profiles and set the password to expired, the user will not be prompted to change their password when logging in to Analyzer if this user has never logged in to Analyzer before. Externally authenticated users must log in at least once before they can take advantage of the change expired password tool.

Hints for Analyzer Only Users

- The Analyzer user ID and password are case sensitive.
- Analyzer passwords must be between 6 and 30 characters.
- Analyzer passwords must be alphanumeric.

Connecting Analyzer to Essbase/400

Analyzer connects to the Essbase/400 OLAP Server via Essbase/400 Enterprise Services (EES). EES acts like a gate between Essbase/400 and Analyzer, so to access to Essbase/400 servers and user profiles with Analyzer, you must add them to EES. The Essbase/400 information you add to EES depends on your security setting.

Note: This version of EES supports the TCP/IP communications protocol only.

When to Use Essbase/400 Enterprise Services (EES)

- All Essbase/400 OLAP servers that Analyzer needs to access must be added to EES.
- If you are not using Essbase/400 Integrated Security, all Essbase/400 users that need to connect to Analyzer must be maintained in EES.

Expired Essbase/400 Passwords

If you are **not** using Essbase/400 Integrated Security: Analyzer does not recognize expired Essbase/400 passwords, and changing an Essbase/400 password does not automatically update EES passwords. Therefore, if an Essbase/400 password changes or expires, an administrator must log in to EES and change the EES password to match the new Essbase/400 password. Then Analyzer will be able to connect the user to Essbase/400.

Signing on to EES

Administrative user. The EES administrative user is the only user that should administer EES. The user name is *system* and the initial password is *password*. They are case sensitive. You may change the password after the initial signon.

Administrative command. The command for configuring and administering the EES command console is **STREESCMD**. With it, you can specify the Essbase/400 servers and users that Analyzer needs to connect.

To sign on to EES:

- ▶ Before you sign on to EES, the EES server must be running. For instructions on starting the EES server, see the *Essbase/400 6.5 Administrator's Guide*, Chapter 2.
- ▶ At an iSeries command line, type the following command, where **ESSBASE** is the library where you installed Essbase/400: **ESSBASE/STREESCMD**.

If this is the first time the command is run, it may take a few minutes to compile the Java.

- ▶ You will see a screen with the **ESS>** prompt. On the command line, you can type **Help** for a list of EES subcommands.
- ▶ To sign on to the Essbase/400 domain, type **signon**. The signon prompts for the following information, separated by commas:
 - **User.** Enter the default administrative user, **system**.
 - **Password.** Enter the default administrative user's password, **password**.
 - **Domain.** Enter **Essbase**.
 - **Prefserver.** Enter **localhost** or your iSeries name or IP address.
 - **Plugin.** Always enter **TCPIP** for plugin.
 - **Port.** Enter the EES port number that you chose during Essbase/400 installation.

Enter the information in the following format: **user,password,domain,prefserver,plugin,port**

For example, enter: **system,password,Essbase,localhost, TCPIP,45897**

- ▶ After you successfully sign on, you can perform other EES activities, including adding an OLAP server and users.

Working with EES

When you sign on to EES, the following subcommands allow you to work with EES. Typing **Help** at the **ESS** prompt will list the subcommands and a description of each.

Table 4-1

EES subcommands

Quit/exit	Listusers	Apiver
Help	Removeuser	Setprompt
Adduser	Addolapserver	Apiverdetail
Signon	Listolapservers	Syncubereplicas (not supported in this version)
Signoff	Removeolapserver	Runningeesservers (not supported in this version)
Syncsectoes	Changepwd	

Figure 4-3
EES commands on the iSeries display

```

Session A - [24 x 80]
File Edit Transfer Appearance Communication Assist Window Help
[Icons: PrintScreen, Copy, Paste, Send, Recv, Display, Color, Map, Record, Stop, Play, Quit, Clipboard, Sup]
Java Shell Display

ESS>
> help

quit/exit      - exit the command console
help           - help for commands
runningeeservers - lists all the currently running ees servers
signon        - sign on to domain
signoff       - sign off from domain
apiver       - api version
apiverdetail  - api version detail
adduser      - adds an user to the root domain
changepwd   - changes the password for a user
listusers   - lists the users in the root domain
removeuser  - removes an user in the root domain

===>

F3=Exit  F6=Print  F9=Retrieve  F12=Exit
F13=Clear F17=Top  F18=Bottom  F21=CL command entry
  
```

Use `addolapserver` to add an Essbase/400 OLAP server to EES so Analyzer can connect to Essbase/400. Use `adduser` to add Essbase/400 users to EES so the users can connect to Essbase/400 via Analyzer. Note that you cannot add Essbase/400 groups to EES.

To run an EES subcommand:

- ▶ Type the subcommand and press Enter.
- ▶ You will be prompted to enter information to complete the task. For example, if you want to add a user to EES, type `adduser`, and press Enter.
- ▶ The display prompts for the following information:
Enter input as `userName,password`.
- ▶ Enter the Essbase/400 user name and password, and press Enter to add the user to EES. When this user logs in to Analyzer, he/she will have access to the Essbase/400 OLAP server you specify with the `addolapserver` command

Changing the EES Port Number

Analyzer uses the `Analyzer.properties` file to connect to the EES server. The EES information in the `Analyzer.properties` file should always match the information in the `Essbase.properties` file.

When you change your EES port number in the `Essbase.properties` file, you must also change the `Analyzer.properties` file.

Changing the `Essbase.properties` File

EES is configured using the `Essbase.properties` file. The only changes you should make to this file are changes to the EES TCP/IP port number.

To change the EES server port number:

- ▶ Run the following command, where `ESSBASE` is the name of your `Essbase/400` installation library:
`EDTF '/ESSBASE/JAVA/ESSBASE.PROPERTIES'`
- ▶ Find the following line: `Server.TCPIP.Port=xxxxx`
- ▶ Replace the number with your new number, and save the file.
- ▶ To remove the service table entry containing the old port number, type the following command:
`RMVSRVTBLE SERVICE(ESSBASE_ENTERPRISE) PORT(xxxxx) PROTOCOL(TCP)`
where `xxxxx` is your old port number.
- ▶ To add the new service table entry, type the following command:
`ADDSRVTBLE SERVICE(ESSBASE_ENTERPRISE) PORT(xxxxx) PROTOCOL(TCP)`
where `xxxxx` is your new port number.
- ▶ Stop and restart your EES server. For instructions, see the *Essbase/400 6.5 Administrator's Guide*, Chapter 2.

Changing the `Analyzer.properties` File

You should modify the `Analyzer.properties` file in the following instances:

- If you change the EES port in the `Essbase.properties` file, you should also change the EES port in the `Analyzer.properties` file.
- If you switch to use a different EES server, you should change the IP address and/or the port number in the `Analyzer.properties` file.

To change the `Analyzer.properties` file:

- ▶ Run the following command, where `SCSERVER` is the name of your `STRATEGY` installation library:
`EDTF '/SCSERVER/PRODDATA/CONFIG/ANALYZER.PROPERTIES'`
- ▶ The only properties you should change are:

SPSS.EES.IP=xx.xx.xx.xx (EES server IP address)

SPSS.EES.PORT=xxxxx (EES server IP port number)

Replace the number(s) with your new number(s), and save the file.

- ▶ Before changes will take effect, you must stop and restart the Orion Application Server. For instructions, see “Starting and Stopping Orion Application Server” on p. 17.

Troubleshooting Analyzer

Object xxx.x.x.x not found.

If you receive this error in Analyzer, your Essbase/400 OLAP Server has not been added to EES. Use the EES subcommand `addolapserver` to add your Essbase/400 OLAP server to EES.

Unable to Log In to Analyzer

If you or your users cannot log in to Analyzer, check your Essbase/400 OLAP Server application and database privileges and group membership, and check all user IDs and passwords.

Other Problems

If you have unexplained problems, the Essbase/400 server may have timed out. If this happens, log out of Analyzer and log back in. You can change the timeout value in Application Manager.

Modifying the Security Setting

If, after you have set your security setting, you modify the setting in the System Settings dialog box, and if there are users that were externally authenticated (on the OS/400), you will be prompted to convert the profiles or remove them from Analyzer security.

For example, if you had originally specified Analyzer and OS/400 security, but later modify the setting to use Analyzer security only, a **Modifying the Authentication** message will appear if there are users in the Activation User Group (*OS400USERS*) that were externally authenticated. You must specify whether those users will be granted access to Analyzer (Convert) or denied access to Analyzer (Delete). For more information, see the **Modifying the Authentication** help topic in Analyzer Administration Tools online help.

Important: If you convert from integrated security to Analyzer-only security, user IDs and passwords become case sensitive. This is because Analyzer passwords are case sensitive.

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