

SAS[®] Contextual Analysis 14.3: Administrator's Guide

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SAS® Contextual Analysis 14.3: Administrator's Guide

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About This Book

Audience

This book is designed for administrators of the SAS Contextual Analysis application. It guides administrators through the process of configuring the software for use at your site. It is assumed that you have some familiarity with SAS programs and installation processes.

Requirements

For a full list of software requirements for SAS Contextual Analysis, go to System Requirements.

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Accessibility

For information about the accessibility of this product, see Accessibility Features of SAS Contextual Analysis 14.3 at support.sas.com.

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Chapter 1 SAS Contextual Analysis Administrator's Guide Overview

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Overview of SAS Contextual Analysis

SAS Contextual Analysis is a web-based text analytics application that uses contextual analysis to provide a comprehensive solution to the challenge of identifying and categorizing key textual data. Using this application, you can build models (based on training documents) that automatically analyze and categorize a set of documents. You can then customize your models in order to realize the value of your text-based data. In addition, you can create rules to extract concepts, which are properties such as a book title, last name, city, gender, and so on.

The SAS Contextual Analysis architecture is designed for single-tier or three-tier deployment.

SAS Information Online

The following resources are available to you online:

- The product page for SAS documentation for SAS Contextual Analysis, available at http://support.sas.com/software/products/ca/index.html
- SAS Technical Support, available at support.sas.com
- Help within the SAS Contextual Analysis application

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Chapter 2 Quick Start for Running SAS Contextual Analysis

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Quick Start Overview

This chapter is designed to help you start your SAS Contextual Analysis installation quickly. It provides basic steps for completing these tasks:

- signing in to SAS Management Console and creating a SAS library
- registering a data set for use in SAS Contextual Analysis
- adding a user profile in SAS Management Console
- signing in to the SAS Contextual Analysis application

Note: Before you perform the quick start steps, complete the installation from the SAS Install Center (available at support.sas.com) and complete the configuration steps. For information about installation and configuration, see "Install and Configure SAS Contextual Analysis" on page 20.

Quick Start Steps

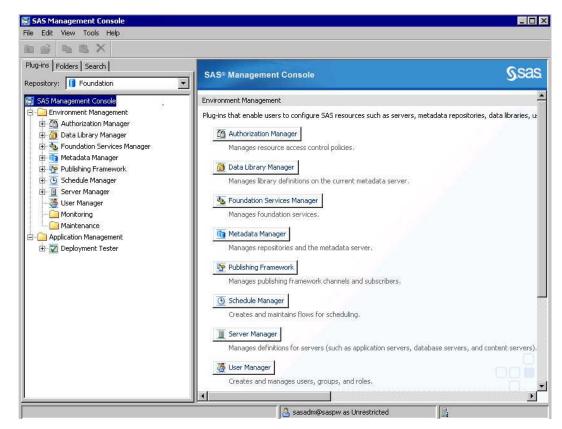
After you install and configure SAS Contextual Analysis, complete the following steps:

1. Open SAS Management Console. Connect to the metadata repository using these credentials:

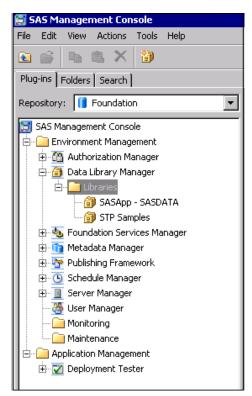
Metadata server host name: the host name that you entered during installation and configuration

User name: the default user name (sasadm@saspw) or other established user name

Password: the password that you specified during installation and configuration



- *Note:* If you are installing SAS Contextual Analysis on a UNIX host, you must use SAS Management Console on a Windows computer (that has SAS Management Console installed on it).
- 2. In the left pane under Environment Manager, navigate to the Data Library Manager plug-in and right-click Libraries. The New Library wizard appears.



3. Select SAS BASE Library, and click Next.

Library Wizard w Library Wizard lect the type of library you wish to define.	
···· 👔 Oracle Library	
👔 PI System Library	
👔 Postgres Library	
SAP HANA Library	
Sybase IQ Library	
Sybase Library	
- 👔 Teradata Library 	
The second se	
SAP Library	
Generic Library	
High-Performance Analytics	
SAS Data in HDFS Library	
SAS LASR Analytic Server Library	
Pre-assigned Library	
🖻 🦳 SAS Data	
AS BASE Library	
- 7 SAS Federation Server Library	
👔 SAS Scalable Performance Data Engine Library	
👔 SAS Scalable Performance Data Server Library	
👔 SAS TAPE Engine Library	
👔 SAS V6 Compatibility Library	
👔 SAS XML Library	
👔 SAS XMLV2 Library	
🔤 👔 SAS/SHARE REMOTE Engine Library	

- 4. Enter a name for the library in the Name field (for example, sca_data), and click Next.
- 5. Select SASApp as the application server, and click Next.
- 6. In the New Library Wizard, enter a libref name in the Libref field.

Click New to specify the path to the sample data sets. Sample data sets are provided in the [SAS_HOME] \SASFoundation\9.4\tmine\sample directory. In a Windows environment, the default location is C:\Program Files\SASHome \SASFoundation\9.4\tmine\sample. Select the directory from the dialog box.

lew Library Wizard	x
New Library Wizard Enter the following library pr	operties.
Libref:	sca_data
Engine:	BASE
🔲 Enable WebDAV	Support
Content Server:	(Select One)
Path Specification:	Available items: Selected items:
	C:\Derst\usr \Documents\My SAS Files\9.4\ C:\Users\usr \Documents\My SAS Files\9.4\ C:\Users\Users\usr \Documents\My SAS Files\9.4\ C:\Users\Users\usr \Documents\My SAS Files\9.4\ C:\Users\Users\usr \Documents\My SAS Files\9.4\ C:\Users\Users\usr \Documents\My SAS Files\9.4\ C:\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users
	Advanced Options
	< Back Next > Finish Cancel Help

Click Next, and then click Finish to create the data library.

7. Register the tables from the data library into metadata. With the library selected, right-click to access the menu and then select **Register Tables**.

SAS Management Console File Edit View Actions Tools Help				
File Edit View Actions Tools Help				
Plug-ins Folders Search	Name	Engine	Description	Location
Repository: Foundation	🗿 SASApp - SASDA	-		/Shared Data
	STP Samples	BASE	SAS Stored Process Samples.	/Products/SAS Intelligence Plat
SAS Management Console	🚊 🥂 Register Ta	bles		/Shared Data
Control Province Management Description Manager		MME Statement		
Autorization Manager	Edit Assigni			
🗖 🔤 Libraries	X Delete			
- 🗃 SASApp - SASDATA	Rename			
STP Samples	Properties		-	
contextual_analysis_data Foundation Services Manager				
Metadata Manager				
🕀 📅 Publishing Framework				
🕀 🕒 Schedule Manager				
🗈 📃 Server Manager				
Monitoring				
Application Management				
⊕ 🗹 Deployment Tester				
	L			
J]				
3 objects		👌 sasadm@s	aspw as Unrestricted	

8. Enter the Libref name, and then click Next.

-		_
🔁 Register T		×
Select a SA Select the SAS	S library that will point to the tables you are registering.	
CACLINARY	Endertain E	
SAS Library:	contextual_analysis	New
Library det	tails	
Libref:	sca_data	
Engine:	BASE	
Path:	C:\Program Files\SASHome\SASFoundation\9.4\tmine\sample	
		Edit
Enable c	ase-sensitive DBMS object names	
🔲 Enable s	pecial characters within table or column object names	
🔽 Include f	formats and informats in column definitions	
	< Back Next > Finish Cancel	Help

The Log On window for the application server appears.

- 9. In the Log On window, enter credentials for an administrator account on the application server.
- 10. Select the tables that you want to register. Click **Next**, and then click **Finish** to register the tables in metadata.

ect Tables	 	
ABSTRACT AFINN_SENTIMENT		Select All Tables
VEWS		Select None
UGISTOP WDSTOP		
SVDTUTOR		
M_ABSTRACT_TOPIC		
RTEXT		

The tables are now accessible from within SAS Contextual Analysis.

11. In SAS Management Console, use the User Manager to create a user profile.

🛐 New User Propei	ties	×
General Groups an	d Roles Accounts Authorization	
<u></u>	User	External Identities
Name:	sasdemo	
Display Name:	SAS Demo User	
Job Title:	[

12. Click the **Groups and Roles** tab. Grant the user membership to the following group in order to enable project sharing within the application: **SAS Contextual Analysis Users**.

C Search		(View All	
Show Groups 🔽 Show Roles			🔽 Sear	ch All Repositories
 Nested group memberships are not displayed. Set 	the Help for deta	il.		
vailable Groups and Roles:	Membe	er of:		
Comments: Administrator Home: Administration Home: Usage Job Execution: Job Administrator Job Execution: Job Designer Job Execution: Job Scheduler Job Execution: Job Submitter Management Console: Advanced Management Console: Content Management Metadata Server: Operation Metadata Server: Unrestricted Metadata Server: Unrestricted Metadata Server: User Administration SAS Administrators SAS Environment Manager App Server Tier Users SAS Environment Manager Guests SAS Environment Manager Super Users SAS General Servers SAS Studio: Report Consumer SAS Studio: Usage SAS System Services Theme Designer for Flex: Administration Visual Analytics Users Properties	T T			

13. On the **Accounts** tab, click **New**. Enter the login for the user. If you leave the **Password** field blank, SAS uses the system's password (the domain password) for the credential.

🔄 New Login Properties	; ;	×
Enter Login information. Er domain\userid. See help fo	iter User IDs for Microsoft Windows in the format of r details.	
User ID:	localhost\sasdemo	-
Password:		
Confirm Password:		
Authentication Domain:	DefaultAuth New	
	OK Cancel Help	

14. Start SAS Contextual Analysis by using the following URL, where *localhost* is the name of the machine where the application is installed: http://localhost/ SASContextualAnalysis. The Sign In window appears.

User ID:	
Password:	
SIGN IN	
About @ 2002-2015 SAS Institute Inc.	Sas Treas

15. Sign in using your user credentials. The SAS Contextual Analysis application appears.

Eile Edit View History Bookmarks Tools Help			
SAS Contextual Analysis +			
() jourmachine/SASContextualAnalysis/ V C Q Search	+	合☆ 自 ●	• 🖸 🍹 🔳
SAS [©] Contextual Analysis			§sas
File Help			Sign Out
Projects (0 of 0) Search: (none)		Search: Projects	Save Search -
C Den 🔻 📰 🗸			
Name 🔺 Last Run Date	Run Status	✓ Properties	
₩ 88 View ▼			53
Progress:			User:SAS Demo User

See Also

• For more information about SAS Management Console connection profiles, see "Change, Create, Delete, or Edit a Connection Profile" in *SAS Intelligence Platform: Desktop Application Administration Guide*

- For more information about creating a data library, see "Establishing Connectivity to a Library of SAS Data Sets" in *SAS Intelligence Platform: Data Administration Guide*
- For more information about registering tables in metadata, see "Registering and Verifying Tables" in SAS Intelligence Platform: Data Administration Guide
- For information about creating a project in SAS Contextual Analysis, see SAS Contextual Analysis: User's Guide

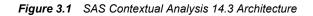
Chapter 2 • Quick Start Steps

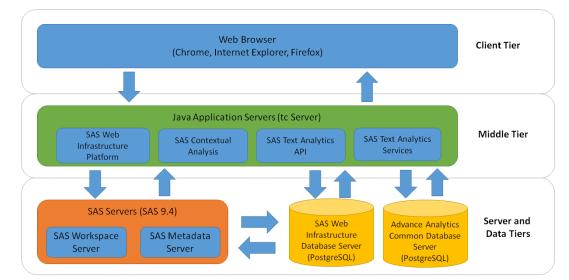
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Overview of the SAS Contextual Analysis Architecture

The SAS Contextual Analysis architecture is designed for single-tier or three-tier deployment. Figure 3.1 depicts a three-tier deployment model, which includes a client tier, a middle tier, and a server and data tier.





SAS Contextual Analysis Architecture

SAS Contextual Analysis Components

The SAS Web Infrastructure Platform (WIP)

provides the primary middle-tier components for the SAS platform. It supports *n*-tier architectures that are built around HTTP-based technologies. The middle-tier components in the SAS WIP not only provide for common infrastructure but also support distributed deployments and configurations that support enterprise requirements.

SAS Contextual Analysis middle tier

is the web application that is responsible for serving the user interface to a client's web browser. After a client's browser has loaded the Adobe Flex user interface for SAS Contextual Analysis, Flex uses a REST API to communicate back to the SAS middle tier. The SAS Contextual Analysis middle tier also serves as the conduit through which a user's requests are routed to the SAS Text Analytics API middle tier.

SAS Text Analytics API middle tier

is the web application that hosts the REST API that is used for communication between the Flex client and the SAS Text Analytics Service middle tier.

SAS Text Analytics Services middle-tier

is the home of the majority of the "brains" for SAS Contextual Analysis. The SAS Text Analytics Services middle tier often communicates with the Advanced Analytics Common Database Server to store objects that are related to a SAS Contextual Analysis project (concepts, categories, and so on). The SAS Text Analytics Services middle tier also communicates through the SAS Web Infrastructure Platform to SAS Workspace Servers to process user requests that require a SAS session.

SAS Workspace Server

enables client applications to submit SAS code to a SAS session by using an application programming interface (API). SAS Contextual Analysis generates the SAS code necessary to perform a project's analytical tasks and submits it to a SAS Workspace Server. You can run as many instances of SAS Workspace Servers as are needed to support your workload.

SAS Metadata Server

controls access to a central repository of metadata that is shared by all of the SAS applications in the deployment. The SAS Metadata Server enables centralized control so that all users access consistent and accurate data. Administrators use SAS Management Console to administer the SAS Metadata Server, including SAS server configurations. SAS Contextual Analysis also uses the SAS Metadata Server to obtain metadata about SAS libraries, tables, and SAS Workspace Servers, and to authenticate users.

SAS Web Infrastructure Database Server

is a database server that is used by the SAS WIP as the default location for middle tier data. These data include alerts, comments, and workflows.

Advanced Analytics Common Database Server

is a PostgreSQL database that is used to store SAS Contextual Analysis projectrelated data such as projects, concepts, categories, and so on.

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Update Overview

There are two ways to update to SAS Contextual Analysis 14.3:

- Update SAS Contextual Analysis software on an existing deployment.
- Install SAS Contextual Analysis software on a target machine and migrate your settings and project data from an existing deployment.

Updating an Existing Deployment

To update SAS Contextual Analysis software on an existing deployment, you must use the SAS Deployment Wizard. There you can choose to upgrade your current SASHOME directory. For more information, see *SAS Guide to Software Updates*.

Updating on a Target Machine and Migrating Project Data

To install SAS Contextual Analysis software on a target machine, you must use the SAS Deployment Wizard. For more information, see *SAS Guide to Software Updates*.

To upgrade SAS Contextual Analysis on a target machine that is not the existing deployment, use the SAS Migration Utility. For more information, see *SAS Intelligence Platform: Migration Guide*. The section "Product-Specific SAS Migration Utility Properties" includes specific steps for SAS Contextual Analysis.

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After the migration of the software is complete, you must copy the data that you used in your projects (in the folder that you registered to the data library during post-installation) from the source machine to the target machine.

You must copy all the project folders from the source machine to the same location on the target machine. For example, if you have a project folder in C:\Users\myuserid \Documents\My SAS Files\9.4 on the source machine, then you must store the project folder in the same location on the target machine.

Note: During project migration, category names might be appended with an underscore and a number (_n). SAS Contextual Analysis appends category names only when name duplications occur.

Chapter 5 Preparing Your Data for Use with SAS Contextual Analysis

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Registering Data (Including Start, Stop, and Synonym Lists)	18

Data Access Requirements

When you are accessing data in SAS Contextual Analysis, keep in mind that SAS Contextual Analysis must follow the rules of the user accounts on the SAS Workspace Server machine. For example, if you are a standard user, then you cannot access data that are stored in another user's personal folder. You also cannot access data that are stored in commonly restricted folders such as C:\Windows\system32.

Text and Category Variable Names

The names of text variables (columns that you are analyzing) and category variables must follow these standard SAS variable naming conventions:

- Names can be up to 32 characters in length.
- The first letter must begin with an English letter or an underscore. Subsequent characters can be English letters, numeric digits, or underscores.
- The name cannot contain blanks or any special characters (other than an underscore).

Note: Variables that do not follow these naming conventions could cause errors during processing.

For more information about naming conventions for SAS variables, see *SAS Language Reference: Concepts*.

Registering Data (Including Start, Stop, and Synonym Lists)

You must register any data that you are using for text analysis, including synonym lists, stop lists, and start lists. Follow the steps for registering data in the section "Quick Start Steps" on page 3.

- For more information about creating a data library, see the section "Establishing Connectivity to a Library of SAS Data Sets" in *SAS Intelligence Platform: Data Administration Guide*.
- For more information about registering tables in metadata, see the section "Registering and Verifying Tables" in *SAS Intelligence Platform: Data Administration Guide.*
- **TIP** You can organize your metadata so that you can easily find data. For example, you can create metadata folders within the Shared Data folder for data sets, synonym lists, start lists, and stop lists. Register the respective data sets to each library so that you can see the structure within the browse window. An example is shown in the following graphic.



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Installation Overview

Here are the major steps for installing SAS Contextual Analysis:

- 1. Make any system preparations that are necessary.
- 2. Create a SAS Software Depot.
- 3. Run the SAS Deployment Wizard.
- 4. Select from the standard deployment plans to install and configure SAS Contextual Analysis.

Pre-Installation Tasks

Overview

Before you install SAS Contextual Analysis, make any preparations to your system that you deem necessary. You might need to increase the shared memory of your machine, and you must create a SAS Software Depot on your machine.

Shared Memory Requirement for UNIX Systems

In order to ensure enough shared memory for operating the application's database on the SAS Advanced Analytics Common Data Server, it is recommended that you extend the size of your shared memory to 6 GB.

Refer to the documentation for your operating system and machine to determine the current shared memory settings. For example, on a 64-bit Linux machine, you can run the command ipcs -1 on the command line and note the value in the results for **max total shared memory**.

To extend the shared memory to 6 GB, refer to the documentation for your operating system.

Create a SAS Software Depot

A SAS Software Depot is a file system that is used by the SAS Deployment Wizard, which is the tool used to install and initially configure SAS. The depot contains the SAS Deployment Wizard executable, one or more deployment plans, a SAS installation data file for each order, order data, and product data.

To create a SAS Software Depot, follow the instructions in "Creating a Software Depot" in *SAS Intelligence Platform: Installation and Configuration Guide*. During the creation of the depot, you identify on the target machine where you want to download the depot.

Install and Configure SAS Contextual Analysis

Installation and Configuration Process

To complete the installation and configuration process, you must have completed the steps to download the SAS Software Depot. For more information, see "Create a SAS Software Depot" on page 20.

SAS Contextual Analysis Server Standard Deployment Plans

Deployment plans are blueprints for installing and configuring your software. SAS Contextual Analysis provides you with two standard plans in the SAS Software Depot: a one-machine deployment and a three-machine deployment.

To access the standard plan that is delivered with your SAS Software Depot, open the plan file. Select **Select a standard deployment plan**. Select **Contextual Analysis, one machine** or **Contextual Analysis, three machine**, depending on your desired configuration. For more information about the SAS Deployment Wizard, see SAS Deployment Wizard and SAS Deployment Manager: User's Guide.

Note: If you cannot access your SAS Software Depot for some reason, you can download deployment plans from the SAS Install Center, available at http:// support.sas.com/documentation/installcenter/index.html. In the navigation pane, select Standard Plans. Under SAS 9.4, select 9.4 Standard Deployment Plans, and then select SAS Contextual Analysis. Download the appropriate plan.

Note: You need to have access to your software order details in order for SAS Contextual Analysis to create a depot.

SAS Deployment Wizard		_ 🗆 ×
Specify Deployment Plan		
Specify a customized or standard deployment plan.		
C Specify the full path to a customized deployment plan		
C:\SAS Software Depot\plan_files	Bro	wse,
Jertana potentia a popertinan Turas		moonn
Select a standard deployment plan		
Contextual Analysis, one machine	▼ 50	earch
Clinical Data Integration, one machine		
Deta Clinical Data Integration, two machines		
SerClinical Data Integration, three machines		_
Contextual Analysis, one machine		
Contextual Analysis, three machines		
DIServer, one machine		
DIServer, two machines		
DIServer, three machines		
1. SAS Deployment Agent		
2. SAS Remote Deployment Agent Client		
3. SAS Providers for OLE DB		
4. SAS Integration Technologies Client		
5. SAS Foundation 6. SAS High Performance Server Help and Documentation		
Help	< Back Next > Ca	ancel

In the SAS Deployment Wizard, a prompt for the location of **SAS Home** appears. A default value is provided, based on the operating system on which are deploying. For example, on a 64-bit Windows machine, the default location is **C:\Program Files \SASHome**. If you choose to enter different location, be sure to note the location for later use.

SAS Deployment Wizard	
Specify SAS Home	
Specify the location where SAS software will be installed on this machine.	
	U.
1 All future installations will be made to SAS Home once this location is established.	
SAS Home: C:\Program Files\SASHome	Browse

Enter a password for the database.

SAS Deployment Wizard			
SAS Text Analytics Services Database Specify information for the SAS Text Analytics Services database that is u SAS Advanced Analytics Common Data Server.	sed with the		00
Database Name: TAServices User ID: TAServices Password: ******** Confirm Password: ********			
Help	< Back	Next >	Cancel

You must also supply your host name, port, and administrator name (and password) for the SAS Advanced Analytics Common Data Server.

SAS Deployment Wizard			<u>- 0 ×</u>
SAS Advanced Analytics Common Data Server Specify information for SAS Advanced Analytics Common Data Server.			
Host Name:			
your-host-name			
Port:			
10432			
Data Server Administrator:			
administrator-name			
Data Server Administrator Password:			

Confirm Password:			

Help	< Back	Next >	Cancel

Continue through the wizard as described in SAS Deployment Wizard and SAS Deployment Manager: User's Guide.

Note: If your data are encoded in UTF-8, you must select the box that sets up the SAS server as a Unicode server. Setting up the server as a Unicode server ensures that your UTF-8 is processed properly. For more information about setting up a Unicode server, see "Locale and Encoding Considerations" in *SAS Intelligence Platform: Installation and Configuration Guide*.

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Configure SAS Contextual Analysis in SAS Management Console

To start SAS Management Console, you must log on to the metadata repository using a specific set of credentials. For more information, see Step 1 on page 3.

Define Additional SAS Contextual Analysis Users

You can define additional SAS Contextual Analysis users by creating user profiles in SAS Management Console. For more information, see Step 11 on page 8.

Establish a Lock-Down Path List

If you are using SAS on a server that is in a locked-down state, you must establish a path list that can be accessed. For more information about servers in a locked-down state, see "Locked-Down Servers" in *SAS Intelligence Platform: Security Administration Guide*.

Set Up Integrated Windows Authentication

SAS Contextual Analysis supports Integrated Windows authentication (IWA). IWA enables the system to verify credentials through the logged-in Windows accounts,

thereby eliminating the need for users to separately sign in to SAS Contextual Analysis. For information about setting up IWA, see "Support for Integrated Windows Authentication" in *SAS Intelligence Platform: Middle-Tier Administration Guide*.

Naming Project Files in SAS Contextual Analysis

SAS Contextual Analysis projects can be updated by different people, but projects are not meant to be shared concurrently. It is important that you understand the file system so that you can guide users appropriately.

When SAS Contextual Analysis projects are created, libraries are created in the Library Manager of SAS Management Console and are assigned the project name. Each project name is associated with the user who created it.

Note: Users are prevented from using a project name more than once. However, multiple users can create projects that have the same name. You must sign in as an unrestricted user to see duplicate project names in the Library Manager of SAS Management Console.

Configure Secure Sockets Layer (SSL)

Secure Sockets Layer (SSL) configuration enables clients to authenticate with the SAS middle tier by using a client certificate that is installed in their web browser. When this type of client certificate is used for authentication, you are not required to provide a user name and password to log on. For more information, see "Support for SSL with Client Certificate Authentication" in *SAS Intelligence Platform: Middle-Tier Administration Guide*.

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Troubleshooting

Log Files

The location of the SAS log files for the SAS Contextual Analysis middle tier varies from system to system, depending on the system configuration. In general, SAS Contextual Analysis middle tier log files are located here: [configuration-directory] \Config\Lev1\Web\Logs\SASServer1_1

Log Information

You can adjust the amount of information that is output to the SAS Contextual Analysis middle-tier log. To increase the information that is output to the log, do the following:

- 1. In the file system, navigate to [configuration-directory] \Config \Lev1\Web\Common\LogConfig\.
- 2. Open the TextAnalyticsServices-log4j.xml file in a text editor.
- 3. Locate this section of code:

```
<category
additivity="false"
name="com.sas.ta">
<priority value="WARN"/>
<appender-ref ref="SAS_CONSOLE"/>
<appender-ref ref="SAS_FILE"/>
</category>
<category
additivity="false"
name="com.sas.ta.service">
<priority value="WARN"/>
```

```
<appender-ref ref="SAS_CONSOLE"/>
<appender-ref ref="SAS_FILE"/>
</category>
Change the value
WARN
to
INFO
4. Restart the web application server.
```

TIP When enhanced logging is used, the SAS code that is output can be copied and pasted into a SAS session on the server machine.

Locating the Rules Files (LI and MCO)

The LI files (used for concept rules) and MCO files (used for category rules) are located within the configuration folder of the project directory. For example, the location of the folder on a Windows machine is C:\Users\[user ID]\Documents\My SAS Files\9.4\sca_project_1\config\. The folder contains the concepts.li file and the categories.mco file for the sca_project_1 project. These files can be used with the SAS Enterprise Content Categorization Server for scoring other documents. For more information, see SAS Enterprise Content Categorization Studio: User's Guide.

Garbage Characters When Testing Uploaded Files

If you use an uploaded text file to test concepts or categories, you might see garbage characters displayed in SAS Contextual Analysis. Garbage characters can occur when the encoding of the test file does not match the encoding on your workspace server.

Recommended Reading

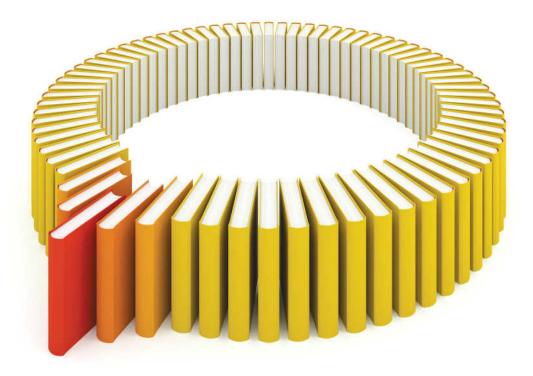
Here is the recommended reading list for this title:

- SAS Content Categorization Single User Servers: Administrator's Guide
- SAS Deployment Wizard and SAS Deployment Manager 9.4: User's Guide
- SAS Encoding: Understanding the Details
- SAS Enterprise Content Categorization Studio: User's Guide
- SAS Intelligence Platform: Data Administration Guide
- SAS Intelligence Platform: Desktop Application Administration Guide
- SAS Intelligence Platform: Installation and Configuration Guide
- SAS Web Applications: Tuning for Performance and Scalability
- Technical Paper, "Multilingual Computing with SAS 9.4"
- Text Mining and Analysis: Practical Methods, Examples, and Case Studies Using SAS

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