

# README

## Search Interface to SAS 1.1

### Installing Search Interface to SAS

After you have successfully downloaded the executable, use the following procedure to install Search Interface to SAS:

1. Run `searchsas.exe`.
2. When the Welcome screen opens, click **Next** to continue.
3. The next dialogue prompts for the location to install Search Interface to SAS. If you would like to install Search Interface to SAS in a location other than the default, enter that location in the text box. You may also use the **Browse** button to search for a location to install the Search Interface to SAS. When the location for your SAS Software Depot is entered into the text box, click **Next**.
4. The confirmation dialogue opens. Confirm the location by clicking **Next** or click **Back** to make any changes.
5. The install will begin. Once it is complete, a success dialogue opens. Click **Finish** to close the dialogue.

After Search Interface to SAS is successfully installed, your directory structure will look as follows:

| Directory     | Contents  |
|---------------|---|
| \             | SASSearchService.war - the WAR file to be deployed in Tomcat  |
| \config       | search_service_config.properties - the file containing configuration information for Search Interface to SAS    |
| \_uninstSESAS | files required to uninstall Search Interface to SAS   |
| \GOOGLE       | deploy_onebox.pdf - the file containing steps to integrate Search Interface to SAS with Google Search Appliance |

### Deploying Search Interface to SAS on Tomcat

#### Step 1 - Deploy the WAR File SASSearchService.war

1. If Search Interface to SAS has not been installed in the default location (C:\Program Files\SAS\SearchSAS\1.1), the location of the configuration file needs to be changed in `config_file_info.properties` in the WAR file. To change the location, follow the steps below. These steps can be skipped if Search Interface to SAS is installed in the default path.

- a. Copy the `SASSearchService.war` file in a temporary directory. For example, if Search Interface to SAS is installed in `C:\SAS\SearchSAS` and the temporary directory is `C:\Temp`, perform the following command:

```
copy C:\SAS\SearchSAS\SASSearchService.war C:\Temp
```

- b. Change the working directory to `C:\Temp`, using the following command:

```
cd C:\Temp
```

- c. Extract the WAR file using the following command:

```
jar -xvf SASSearchService.war
```

- d. Edit `C:\Temp\WEB-INF\classes\config\config_file_info.properties`. Change the value of the variable `search.service.config.filename` to the location of `search_service_config.properties` file. For example, if Search Interface to SAS is installed in `C:\SAS\SearchSAS`, then the `search.service.config.filename` property will be

```
search.service.config.filename =  
C:/SAS/SearchSAS/config/search_service_config.properties
```

**Note:** Make sure that the file separator is `"/`.

- e. Update the war file with the changed `config_file_info.properties` with the following command:

```
jar -uvf SASSearchService.war WEB-INF\classes\config\config_file_info.properties
```

- f. Copy the WAR file to the location where Search Interface to SAS is installed. For example, if Search Interface to SAS is installed in `C:\SAS\SearchSAS`, perform the following command.

```
copy C:\Temp\SASSearchService.war C:\SAS\SearchSAS\
```

2. Copy the `SASSearchService.war` file to the `<tomcat_home>\webapps` directory. For example, if Tomcat is installed in `C:\tomcat-4.1.18`, then place the `SASSearchService.war` in `C:\tomcat-4.1.18\webapps`.

## Step 2 - Grant Security Permissions

Grant sufficient security permissions to Search Interface to SAS by adding the following lines to `<tomcat_home>\conf\catalina.policy`:

```
grant codeBase "file:${catalina.home}/webapps/SASSearchService/-" {  
    permission java.security.AllPermission;  
};
```

If Tomcat is installed in `C:\tomcat-4.1.18`, you would edit `C:\tomcat-4.1.18\conf\catalina.policy`.

## Step 3 - Revise the Entries in `search_service_config.properties`

Edit the `search_service_config.properties` file. If Search Interface to SAS is installed in `C:\Program Files\SAS\SearchSAS\1.1`, you would make the changes in `C:\Program Files\SAS\SearchSAS\1.1\config\search_service_config.properties`.

- `omiserver.address` - location of the metadata server
- `omiport` - port of the metadata server
- `repname` - repository name where the search is performed

- repository.username - SAS username having privileges to access the repository ID
- repository.password - password for repository.username
- sas.webappserver.address - <server name> : port of the SAS Web Report Studio or any application the search opens to
- sas.searchsas.address - <server name>: port where Search Interface to SAS is deployed
- default.username - the default user name for normal search. This is to be provided if Search Interface to SAS is registered with Google Search Appliance with "No user authentication" option.
- default.password - password for default.username
- default.related.username - the default user name for related search. This is to be provided if Search Interface to SAS is registered with Google Search Appliance with the "No user authentication" option.
- default.related.password - password for default.related.username

#### **Step 4 - Restart Tomcat**

Restart Tomcat for the changes to be effective.

#### **Reloading the Properties File Dynamically**

After Tomcat is started, whenever any changes are made to the property file, it needs to be reloaded dynamically.

1. This application is secured for users having the admin role in Tomcat.
2. Go to `http://<machine name>:<port>/SASSearchService/LoadProperties`.
3. Enter the user name and password having "admin" privileges.
4. Click **Load** to display the property file in the browser.
5. Verify the changes made.
6. Click **Reload** to save the modified properties.

**Note:** If you do not click **Reload**, the modified properties will not be effective.

#### **Integrating Search Interface to SAS with Google Search Appliance**

A document containing steps for integrating Search Interface to SAS with Google Search Appliance is available in the sub directory \GOOGLE. If Search Interface to SAS is installed in C:\Program Files\SAS\SearchSAS\1.1, then the integration steps can be found in C:\Program Files\SAS\SearchSAS\1.1\GOOGLE\deploy\_onebox.pdf.

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