Oracle® Fusion Middleware
Oracle WebCenter Forms Recognition API Installation Guide
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Documentation for the WebCenter Forms Recognition RESTful API, that describes methods to upload and manage external documents.
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1 About the WebCenter Forms Recognition RESTful API

The WebCenter Forms Recognition RESTful API provides methods for uploading and managing external documents. Runtime Server further processes the uploaded documents.

1.1 About the User Role

The WebCenter Forms Recognition API user must be a valid WebCenter Forms Recognition user with AEB or ADM role. See Users, groups, and roles in the WebCenter Forms Recognition Designer Guide for more information.

1.2 Prerequisites

1.2.1 Internet Information Services

WebCenter Forms Recognition API requires that you have installed on your server or workstation Internet Information Services (IIS) and .NET Framework 4.6 or later.

Before you install the WebCenter Forms Recognition API, make sure that the following features are enabled:

- .NET Extensibility
- ASP.NET 4.5
- Windows Authentication
- .NET Framework
2 Getting Started with WebCenter Forms Recognition API Installation

The WebCenter Forms Recognition API installation files are included in the WebCenter Forms Recognition setup package.

2.1 Install WebCenter Forms Recognition API

To install the WebCenter Forms Recognition API, complete the following steps:

Note: You need to run the installation from a local directory.

2. Optional. Copy the [WebCenter Forms Recognition setup]\BrainwareAPI directory to the workstation or server on which you want to install WebCenter Forms Recognition API.
3. Open BrainwareApi_Installer.bat with a text editor.
4. Search for the InstallDir, AppPoolName, BrainwareApiAppName, and ServerApiPath attributes and verify that the values correspond to your needs.

Note: InstallDir should be something like <Installation Path>\WebCenter Forms Recognition\BrainwareAPI. Replace <Installation Path> path with actual path.

5. Save and close the file.
6. Execute BrainwareApi_Installer.bat as an administrator user.
7. Review the command prompt window for success or error messages.

Note: In case of errors, you can rerun BrainwareApi_Installer.bat as often as required.

8. Modify the database connection string as described in the next section.

2.2 Modify the Database Connection String

To modify the database connection string, complete the following steps:

1. From the [Installation path]\WebCenter Forms Recognition\WebCenter Forms Recognition Web Server directory, open Web.config in a text editor.
2. Search for the <connectionStrings> element.
3. For an ORACLE database, modify the following values.
   a. Set Data Source.
   b. Set User ID to the service account user ID.
   c. Set Password to the service account password.
<connectionStrings> <add name="Entities" connectionString="metadata=res://*/Entity.ORAEntities.csdl|res://*/Entity.ORAEntities.ssdl|res://*/Entity.ORAEntities.msl; provider=EPOracleProvider; Provider Connection String='DataSource=<OracleServerName\InstanceName>;UserID=<UserID>;Password=<UserPassword>'" providerName="System.Data.EntityClient" /> </connectionStrings>

4. For a SQL Server database, modify the following values:
   a. Set Data Source.
   b. Set Initial Catalog to the SQL Server database catalog.
   c. Set User ID to the service account user ID.
   d. Set Password to the service account password.

<connectionStrings> <add name="Entities" connectionString="metadata=res://*/Entity.Entities.csdl|res://*/Entity.Entities.ssdl|res://*/Entity.Entities.msl; provider=System.Data.SqlClient;provider connection string="Data Source=<DataSource>;Initial Catalog=<SQLServerDatabaseCatalog>;Integrated Security=false;User ID=<UserId>;Password=<UserPassword>;MultipleActiveResultSets=True" providerName="System.Data.EntityClient" /> </connectionStrings>

5. Optional. Encrypt the password for a database connection string as described in the next section.
6. Save and close the file.

2.3 Encrypt the Password for a Database Connection String

Password encryption in configuration files is optional, but highly recommended. To provide an encrypted password for the database connection in a configuration file, complete the following steps:

1. To create an encrypted password, complete the following substeps:
   a. In the [Installation path]\WebCenter Forms Recognition\Bin\bin directory, create a new batch file and give it a meaningful name, such as CreateEncryptedPassword.bat.
   b. Copy the following line to the batch file, replacing MyPassword with the password you want to encrypt.

   DstCrypt.exe /text MyPassword > EncryptedPassword.txt

   Note: The maximum password length is 30 characters.

c. Save and close the file.
   d. In Windows Explorer, double-click the batch file.
e. From [Installation path]\WebCenter Forms Recognition\Bin\bin, open EncryptedPassword.txt in a text editor and copy the encrypted password to the clipboard.

2. Open the required configuration file in a text editor.
3. Search for the <connectionStrings> element.
4. In the <add name> element, set password as an asterisk.
   <add name="Entities" Password=*
5. In the <appSettings> element, add a line with your encrypted password according to the following example.
   <appSettings> <add key="EncrPwd" value="The_encrypted_Password"/>
   </appSettings>
6. Save and close the file.

2.4 Specify the Maximum Document File Size

The maximum file size allowed is 256MB. To specify a smaller maximum file size complete the following steps:

1. From the [Installation path]\WebCenter Forms Recognition\WebCenter Forms Recognition Web Server directory, open Web.config in a text editor.
2. Search for the following line.
   <add key="MaxFileUploadLimit" value="262144" />
3. Set the value parameter to the required value in KB.

2.5 Enable Method Logging

To enable method logging, complete the following steps:

Note: Enable method logging for debugging purposes only, as this may affect performance

1. From the [Installation path]\WebCenter Forms Recognition\WebCenter Forms Recognition Web Server directory, open Web.config in a text editor.
2. Search for the following line.
   <add key="EnableMethodLog" value="false" />
3. Set the value parameter to true.
4. In the [Installation path]\WebCenter Forms Recognition\WebCenter Forms Recognition Web Server directory, review the trace.log file.

2.6 Specify the Token Expiry Time

To specify the token expiry time, complete the following steps:

1. From the [Installation path]\BrainwareApiServer directory, open Web.config in a text editor.
2. Search for the following line.
   <add key="TokenExpireTime" value="60" />
3. Set the value parameter to the required value in minutes.
2.7 Specify the Batch List Limit

To specify the maximum number of batches returned by the GET ExternalBatch method, complete the following steps:

Note:

The GET ExternalBatch method uses the BatchListLimit value as default if the optional limit parameter is not specified before executing the method.

1. From the [Installation path]\BrainwareApiServer directory, open Web.config in a text editor.
2. Search for the following line:
   
   `<add key="BatchListLimit" value="1000" />`
3. Set the value parameter to the required number.

2.8 Configure IIS

The Brainware API installer performs the initial IIS configuration. To verify or modify this configuration, complete the following steps:

1. In IIS, under Default Web Site, select BrainwareAPI.
2. In the left pane, right-click BrainwareAPI and then click Edit Permissions.
3. In the Properties dialog box, on the Security tab, review the permissions and then click OK.
4. In the middle pane, double-click Authentication.
5. In the Authentication pane, verify that Windows Authentication is enabled.
6. Right-click Windows Authentication and then click Providers.
7. In the Providers dialog box, verify or add the required providers.
8. In the left pane, click Application Pools.
9. In the middle pane, right-click BrainwareAPIAppPool and then click Advanced Settings.
10. In the Advanced Settings dialog box, verify the following settings and then click OK.
    - Identity = NetworkService

      Note: The chosen identity needs permissions to access and read files from the [Installation path]\BrainwareApiServer directory and its subdirectories

      - Enable 32-bit Applications = True

2.9 Configure Component Logging

To configure the location of the component log files, complete one of the following steps.

- To save component log files to the default location, in the C:\Windows\SysWOW64\inetsrv directory, create a directory named Log.
- To save component log files to a custom location, see Create the registry key ErrorTraceDir in the Brainware Intelligent Capture Installation Guide.
Note: If WebCenter Forms Recognition is installed on the same server, this registry key directs all WebCenter Forms Recognition component log files to this custom location.

2.10 About API Command Line

BrainwareApi.CommandLine.Client is an example application, which uses WebCenter Forms Recognition API to upload sets of documents as external batches. Both the source code and compiled application are provided.

See Readme.txt in the [InstallationPath]\BrainwareAPI\Brainware.CommandLine.Client directory for more information.

2.11 Display the API Documentation

The Brainware API installation creates a shortcut to the documentation. To display the documentation, complete the following step:

1. In the [Installation path]\BrainwareApi directory, double-click BrainwareAPI_Documentation.

The Brainware API documentation displays in your browser.

Note: For testing purposes, the documentation provides a Try it out! button for each method.

2.12 Update Brainware API

The Brainware API installer does not provide an update procedure. If you need to update to a newer version, complete the following steps to retain your unique customizations and back up your settings.

1. Copy the [Installation path]\BrainwareAPI directory to a backup directory.
2. If you modified the settings for the BrainwareAPI application in IIS, note your settings.
3. Complete the steps in Install WebCenter Forms Recognition API.
4. Compare all customized settings in the backed up CONFIG files with the CONFIG files in [Installation path]\BrainwareAPI and modify the values if required.
5. In IIS, compare the settings for the BrainwareAPI application with your previous settings and modify the settings if required.