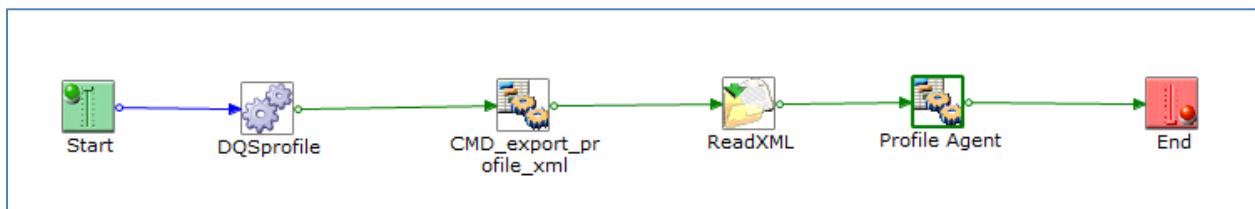




## Creating a Data Quality Server Profile to Import Into iWay Data Profiler

This use case describes how to create a Data Quality Server (DQS) profile from an existing DQS plan, and then how to transform this profile into XML format to be imported into iWay Data Profiler (iDP).

The following process flow can be executed using an iWay Service Manager (ISM) channel.



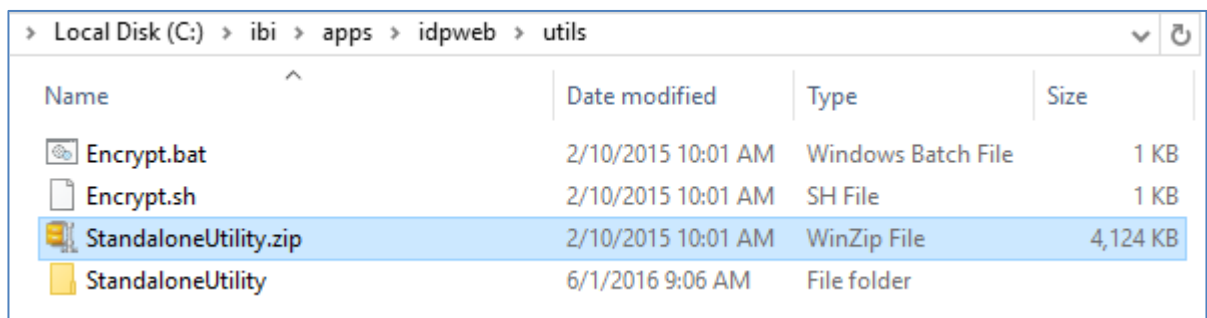
**Note:** The *create\_profile\_convert\_load.zip* archive file that is provided with the use case contains this preconfigured process flow. You can import this process flow into iWay Integration Tools (iIT) and add it to a channel to be executed.

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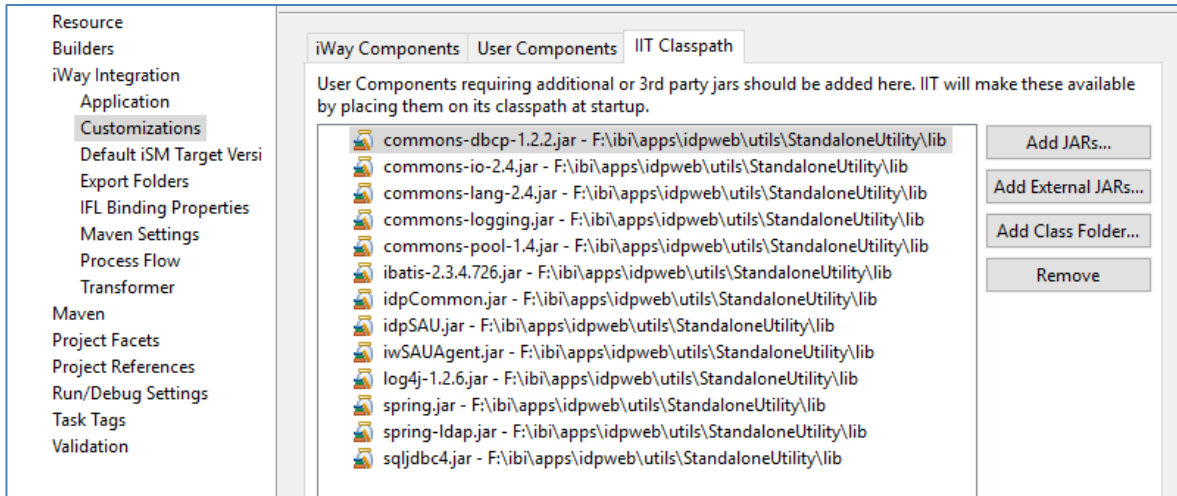
## Preparing Your Environment

1. Extract the *StandaloneUtility.zip* file in the `<ibi_home>\apps\idpweb\utils` directory. For example:

`C:\ibi\apps\idpweb\utils`

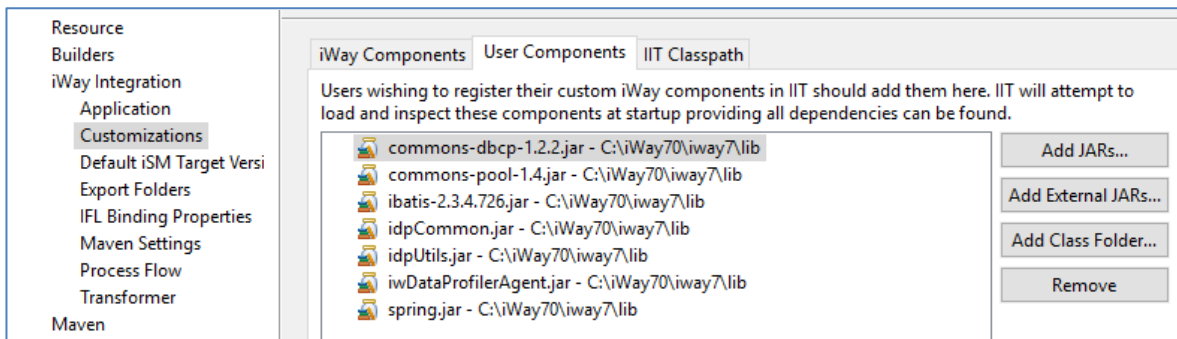


2. In iWay Integration Tools (iIT), add the extracted .jar files to the classpath of the Integration Project and the specific *ojdbc.jar* file that will be used in the project to connect to the database.



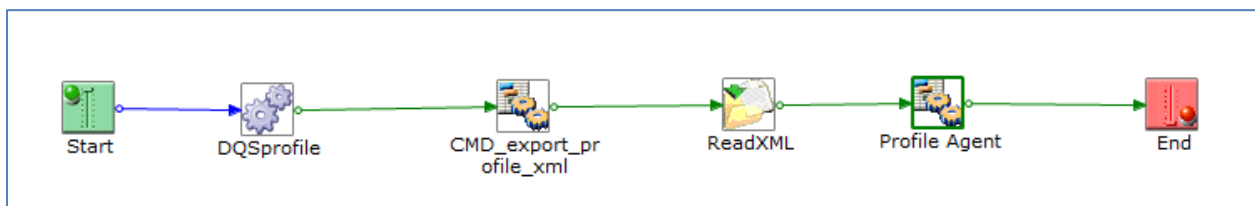
3. In IIT, add the following .jar files to the User Components tab:

- commons-dbcp-1.2.2.jar
- commons-pool-1.4.jar
- ibatis-2.3.4.726.jar
- idpCommon.jar
- idpUtils.jar
- iwDataProfilerAgent.jar
- spring.jar

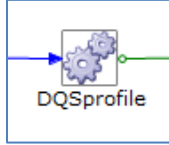


### Analyzing the Objects Used in the Process Flow

This section describes the behavior of the key objects (components) that are configured and used in the process flow.



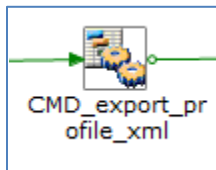
## 1. Profiling



The *DQSPROFILE* object uses the DQS service (com.ibi.agents.XDDQAgent2), which links to a DQS plan and exports the profile. The following is a screenshot of the parameters that are configured for this service.

Main	
Data Quality Runtime Provider	The configured Data Quality Runtime provider that should be invoked. <input type="text" value="CreateProfile"/>
DQS plan file	Location of the DQS plan file containing the logic of the data quality operation. <input type="text" value="C:/DQS/DQS903/workspace/Test_project/make_profile.plan"/>
Runtime Configuration File	Optional: Location of iWay DQS runtime configuration file. This file is used to def <input type="text"/>
XPath Expression	XPath Expression <input type="text" value="//profileExport"/>

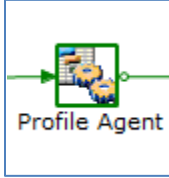
## 2. Exporting to XML



The *CMD\_EXPORT\_PROFILE\_XML* object uses the Run OS Shell Command service (com.ibi.agents.XDRunCmdAgent). This service executes the *profile2xml.bat* file in order to convert the profile to XML format. The following is a screenshot of the Command parameter that is configured for this service.

Main	
Command	The system command to execute. Note that on Windows systems it is usually necessary to prepend the command with "cmd /C" <input type="text" value="C:/DQS/DQS903/runtime/bin/profile2xml.bat C:/DQS/DQS903/workspace/Test_project/Last_Names.profile C:/test/Last_Names.xml"/>

### 3. Importing into iWay Data Profiler (iDP)



The *Profile Agent* object uses the Data Profiler service (`com.ibi.agents.XDDataProfilerAgent`), which imports the profile into the iDP database. The following is a screenshot of the parameters that are configured for this service.

▼ Main	
Type	Type of output from DQC to process
	<input type="text" value="DQC Profiling Output"/>
DB Provider Name	Name of the JDBC Data Provider to the iWay Data Profiler DB
	<input type="text" value="idpwrite"/>