

Initiating DBSync integration through Rest-Call

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DBSync integration can also be initiated without having to login to www.mydbsync.com. The sync can be initiated from an external application, say with a click of a button or a URL. The following section illustrates how this customization can be achieved.

When a post request is made to DBSync server, the following parameters are verified.

1. Authentication variable
2. Profile variable
3. Payload - Process Definition Language

HTTP Post Request

Post URL: `http(s)://<<server>>:<<port>>/cw/dbsyncrestservice.m`

Post Parameters:

1. authenticationXML: It provides the authentication username/password and name of the profile.
2. profileXML: Defines the connection profile for the integration process to execute. See "Profile" section below
3. payload: Defines the process to execute. The name is in the form of "processdefinition_"<<process_name>>".xml

All post parameters should be UTF-8 encoded.

The following section illustrates how these parameters can be found within DBSync intallation and modify as per to your DBSync and Adapter configurations.

Authentication :

The authentication module verifies your DBSync **Username**, **Password** and **Profile** used for Integration. The following is a sample DBSync credential which is used for authentication.

Username : your_username@company.com

Password : Password

Profile Name : Sage Sage IntacctToDatabase

```
<authentication>
<userName>username@yourcompany.com</userName>
<password>your_password</password>
<profile>Sage Sage IntacctToDatabase</profile>
</authentication>
```

Profile :

Profile is basically an XML file and it defines the Business Process to execute. The name of a profile or the xml file is always prefixed with "**processdefinition**" and usually is in the form of "**processdefinition_**"<<process_name>>".xml

Profile.xml file stores configuration details of your integration adapters for which you have registered at the time of purchase. The default installation folder of DBSync would be "**C:\DBSync_Cloudworkflow_x**". Presuming that DBSync is installed in the default directory, you can find the path of the **profile.xml** as shown below.

C:\DBSync_CloudWorkflow_x\CloudWF\WEB-INF\conf\ldb\<DBSync Username>\<Profile Name>\profile.xml

A sample profile.xml file is shown below with configuration details of the adapters that are used for integration.

```

<?xml version="1.0" encoding="UTF-8"?>

<!-- DBSync User Details -- >

<profile id="your_username@company.com" name="Sage Sage IntacctToDatabase"
loglevel="ALL" email="" guid="0006FBC6">

<!-- Sage Sage Intacct Adapter Configuration -- >

<adapter name="Sage Sage Intacct" type="com.avankia.appmashups.adapter.Sage
Sage Intacct.Sage Sage IntacctAdapter">
<property name="userid">username</property>
<property name="password" encrypted="true">XXXXXX</property>
<property name="senderid">avankia</property>
<property name="dtdversion">2.1</property>
<property name="hostUrl">www.Sage Sage Intacct.com</property>
<property name="companyid">company-DEV</property>
<property name="controlpassword">XXXXXXX</property>
</adapter>
<adapter name="ConsoleAdapter"
type="com.avankia.appmashups.engine.conversion.adapters.ConsoleAdapter" />

<!-- Database Adapter Configuration -- >

<adapter name="database"
type="com.avankia.appmashups.engine.conversion.adapters.DatabaseAdapter">
<property name="password" encrypted="true">XXXXXX</property>
<property name="url">jdbc:sqlserver://localhost:1433;databaseName=Sage Sage
Intacct</property>
<property name="autocommit">true</property>
<property name="driver">sqlserver</property>
<property name="dbname">Sage Sage Intacct</property>
<property name="username">sa</property>
</adapter>
</profile>

```

Payload – Process Definition Language :

The PDL file (Process Definition Language) can be found in the same directory as the profile.xml file or you can also download the **PDL file** from DBSync. A screenshot below illustrates step-by-step instructions to download the same.

1. Login to www.mydbsync.com and click on **Customer Login** tab
2. Login with the provided DBSync **Username & Password**
3. Click on **My Home** link from the **Menu**, you will be re-directed to **Launch** page.
4. Once into DBSync Home page, Click on **Launch Development Studio** button and you will be directed to workspace page of DBSync.
5. Once inside the profile page, click on Manage --> Edit as shown below. You will be re-directed to **Process-Builder** page

- Right-Click on the Process-Definition on the top right hand corner and select **Download** form the right-click menu as shown.

- Save the zip file to a desired location and extract the same.

The following section shows a Sample Java Code which can be used to make a REST-CALL. The highlighted section shows the modified parameters as per to your **DBSync**, **Database** and **Sage Sage Intacct** credentials.

Sample Java Code :

```
package com.avankia.appmashups.rest;

import java.io.File;
import java.net.URLEncoder;
import org.apache.commons.io.FileUtils;

public class TestClient
{
    public static void main(String[] args) throws Exception
    {

        String authenticationXML = "<authentication>" +
        "<userName>username@company.com</userName>" +
        "<password>password</password>" + "<profile>Sage Sage
        IntacctToDatabase</profile>" + "</authentication>";
        String profileXML2="";
        String profileXML = "<?xml version=\"1.0\" encoding=\"UTF-8\"?>\"+

        /*
        Sage Sage Intacct Adapter Configuration
        */

        "<profile id=\"localhost@avankia.com\" name=\"Sage Sage Intacct\"
        loglevel=\"ALL\" email=\"\"guid=\"01F6CCDC\">\"+
        "<adapter name=\"Sage Sage Intacct\"
        type=\"com.avankia.appmashups.adapter.Sage Sage Intacct.Sage Sage
        IntacctAdapter\">\"+
        "<property name=\"userid\">admin</property>\"+ // Sage Sage Intacct UserId
        "<property name=\"password\" encrypted=\"true\">XXXXXXXXXX</property>\"+
        //Encrypted Sage Sage Intacct Password
        "<property name=\"senderid\">company</property>\"+ // Sage Sage Intacct
        SenderId
        "<property name=\"dtdversion\">2.1</property>\"+ // Sage Sage Intacct DTD
        Version
        "<property name=\"hostUrl\">www.Sage Sage Intacct.com</property>\"+ // Host
        URL
        "<property name=\"companyid\">Company-ID</property>\"+ // Sage Sage Intacct
        Company Id
        "<property name=\"controlpassword\">YYYYYYYY</property>\"+ // Sage Sage
        Intacct Control Password
        "</adapter>\"+

        /*
        Database Adapter Configuration
        */
```

```

"<adapter name="database"
type="com.avankia.appmashups.engine.conversion.adapters.DatabaseAdapter">"+
"<property name="password" encrypted="true">XXXXXXX</property>"\+
//Database Password
"<property name="url">jdbc:mysql://localhost:3306/yourdb</property>"+ //
Database Connection String
"<property name="autocommit">true</property>"+
"<property name="driver">mysql</property>"+ // Database Driver
"<property name="dbname">mysql</property>"+
"<property name="username">root</property>"+ // Database User
"</adapter>"+
"</profile>";
\\
StringBuilder content = new StringBuilder();
content.append("authenticationXML=");
content.append(URLEncoder.encode(authenticationXML, "UTF-8"));
content.append("&");
content.append("profileXML=");
content.append(URLEncoder.encode(profileXML, "UTF-8"));
content.append("&");
content.append("payload=processdefinition_testpdl.xml");
String response =
Http.post("http://localhost:8080/dbsync2/dbsyncrestservice.m",
content.toString(), "application/x-www-form-urlencoded");
System.out.println("HTTP Response:\n"+response);

```

```
}  
}
```

Return Value

If successfully submitted, the return value is "success"

If there is an error, an HTTP Error is returned with HTTP Error string with the error message.