Business Objects

BusinessObjects Enterprise XI

Adding New Active Directory Users to the Central Management Console using a Java IDE

Overview

This technical document discusses how to automatically add new Active Directory users to the Central Management Console using a Java IDE.

Contents

Introduction

This technical document discusses how to automatically add new Active Directory (AD) users to the Central Management Console (CMC) using a Java IDE.

Steps are given for creating the project, setting its properties, and creating the class. Code, screenshots, and CMC parameters are also provided.

Create the project

Download and install the IDE

To start the process, download and install the Java IDE. This paper uses the Eclipse IDE. It can be downloaded from http://www.eclipse.org/downloads/.

Once it is installed, create the project.

Here are the steps:

1. Click **Window > Open Perspective > Java** to open a Java Perspective.
2. Click the **Java Project** button.
3. Give the project a name. Ensure that it uses the 1.4 JRE. There is a **Configure JRE** link next to it that allows addition of the older JRE. It is important that the JRE is the same as the one used in the Enterprise deployment.
4. Click **Finish**.

The project is created.

Figure 1 – Eclipse Java IDE

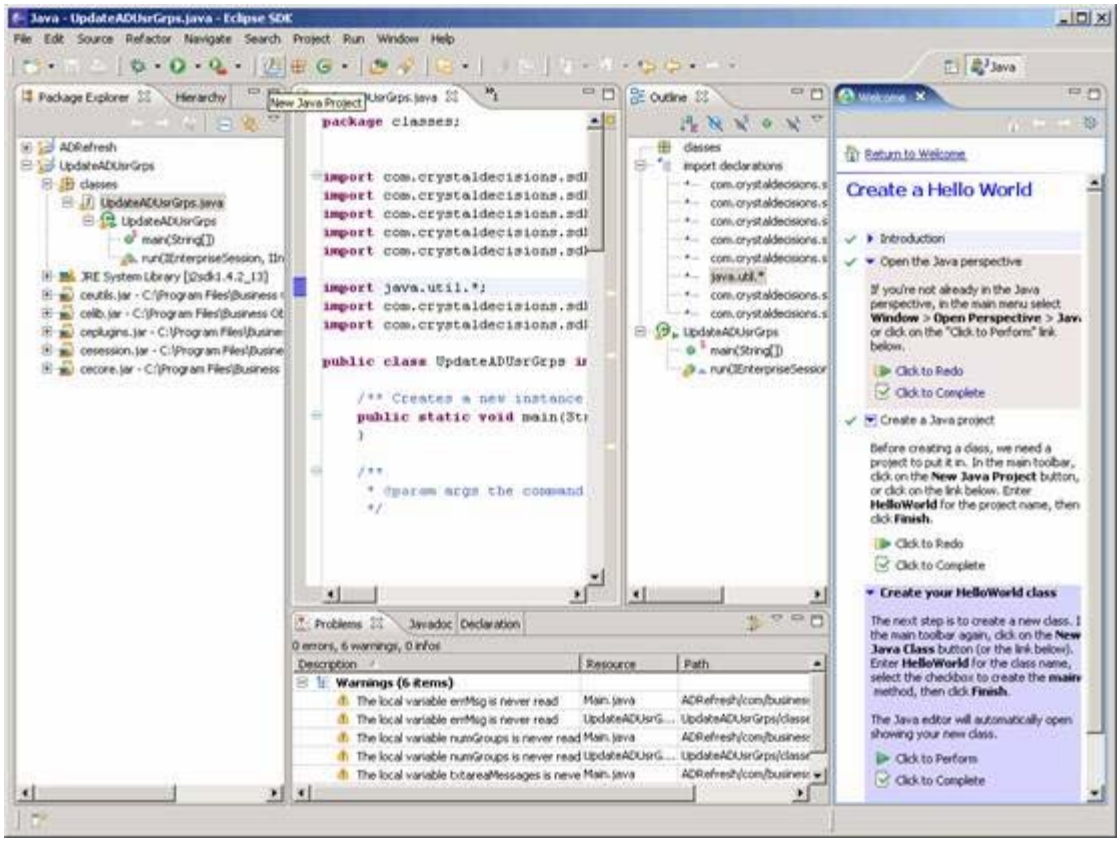


Figure 2 – Naming the project

Set the project properties

Once the project is created, set the properties.

Here are the steps:

1. Right-click on the **project name** > click **Properties**.
2. Click the **Java Build Path** set of properties on the properties screen.
3. Click the **Add External JARs** button.
4. Add the following JARs that represent the Enterprise XI APIs from the following path: **<installation directory>:/Program Files/BusinessObjects/common/java**.
5. Click **OK**.

Figure 3 – Java build path

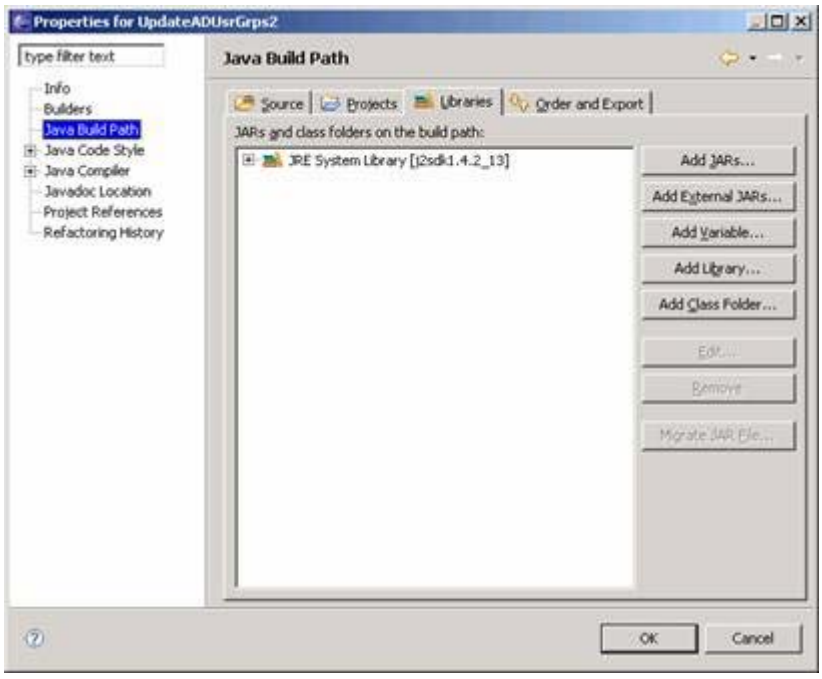
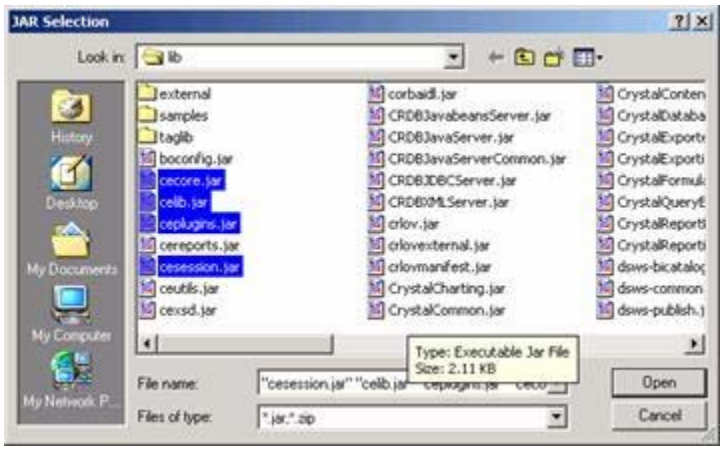


Figure 4 – Adding the appropriate JAR files



Create a folder and class

Next, create a class to contain the code.

Here are the steps:

1. Right-click the **project**. Click **New > Folder**. Name the folder "classes", or a similar descriptive name.
2. Right-click the **new folder** > click **New > Class**.
3. Create a Class for the code to refresh the users in the Active Directory groups. Name the class "UpdateADUsrGrps".
4. Click the **public static void main(String[] args)** property.
5. Click **Finish**.

Figure 5 – Creating a new Classes folder

Figure 6 – Naming the class

Add the code

Copy and paste the following code over the Public Class code block in the main IDE window (**Figure 7**):

```
package classes;
import
com.crystaldecisions.sdk.framework.IEnterpriseSession;
import com.crystaldecisions.sdk.occa.infostore.IInfoStore;
import com.crystaldecisions.sdk.exception.SDKException;
import
com.crystaldecisions.sdk.occa.infostore.IInfoObjects;
import com.crystaldecisions.sdk.occa.infostore.IInfoObject;


import java.util.*;
import java.lang.Object;
import com.crystaldecisions.sdk.occa.infostore.*;
import
com.crystaldecisions.enterprise.ocaframework.ServiceNames;
import
com.crystaldecisions.sdk.occa.security.ILogonTokenMgr;
import
com.crystaldecisions.sdk.plugin.desktop.program.IProgramBas
e;


public class UpdateADUsrGrps implements IProgramBase {


    /** Creates a new instance of Main */
    public static void main(String args[]) {
    }


    /**
     * @param args the command line arguments
     */


    public void run(IEnterpriseSession iEnterpriseSession,
IInfoStore iInfoStore, String[] string) throws SDKException
{
        //Java's file i/o'
        System.out.println("Hello!!!!");
```

```
        String txtareaMessages = "";
        String txtLoggedIn = "";



        try {
            System.out.println("\nLog on was successful on
BOE XI system:  " + iEnterpriseSession.getCMSName() + "
" + new Date() + "\n\n");
            txtLoggedIn = "true";
        } catch (Exception error) {
            txtLoggedIn = "false";
            System.out.println("\nThe login was
unsuccessful");
        }



        int numGroups = 0;



        if (txtLoggedIn == "true") {


////////////////////////////////////////////////////////
////////////////////////////////////////////////////////
//////////////////////////
            //Update BOE XI R2 AD User Groups against the
LDAP repository
            //
            IInfoObjects IInfoObjects_ADGrpRefresh;
            IInfoObject secLDAPplugin;
            try {



                            IInfoObjects_ADGrpRefresh =
iInfoStore.query("SELECT TOP 1* FROM CI_SYSTEMOBJECTS WHERE
SI_NAME='secWinAD'");


                            secLDAPplugin = (IInfoObject)
IInfoObjects_ADGrpRefresh.get(0);


secLDAPplugin.properties().getProperty(CePropertyID.SI_UPDA
TE_TS).setValue(new Date());


iInfoStore.commit(IInfoObjects_ADGrpRefresh);
```

```
                    } catch (Exception error) {
                        String errMsg;
                        System.out.println("There was an
error querying the CMS: (" + error.getMessage() + ") for
query: (SELECT TOP 1* FROM CI_SYSTEMOBJECTS WHERE
SI_NAME='secWinAD'");
                        throw new Error("There was an
error querying the CMS: (" + error.getMessage() + ") for
query: (SELECT TOP 1* FROM CI_SYSTEMOBJECTS WHERE
SI_NAME='secWinAD')");
                    }


////////////////////////////////////////////////////////
////////////////////////////////////////////////////////
//////////////////////////
            //END Update BOE XI R2 AD User Groups against
the LDAP repository
            //



            }
        }

}
```

Figure 7 – Code window with Public Class code block

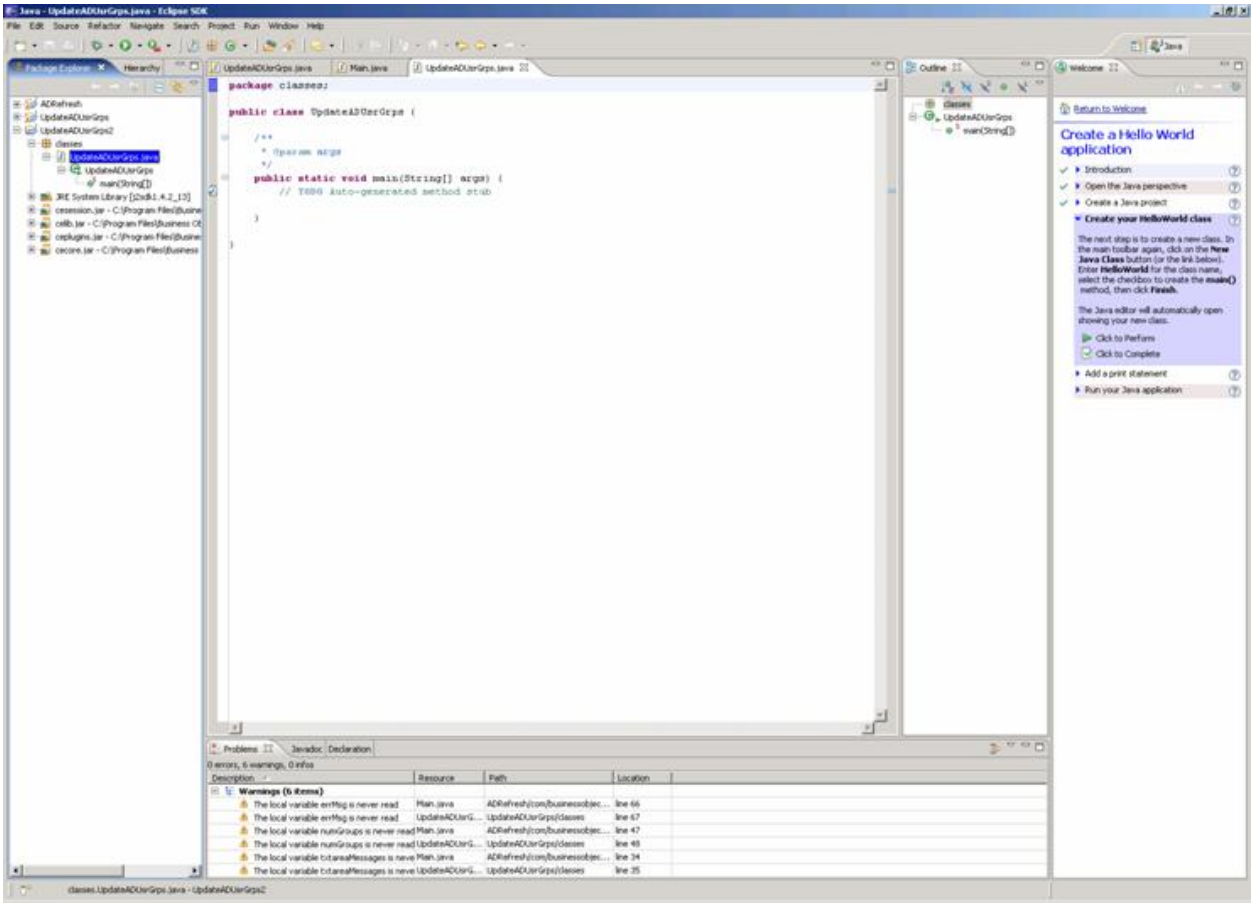
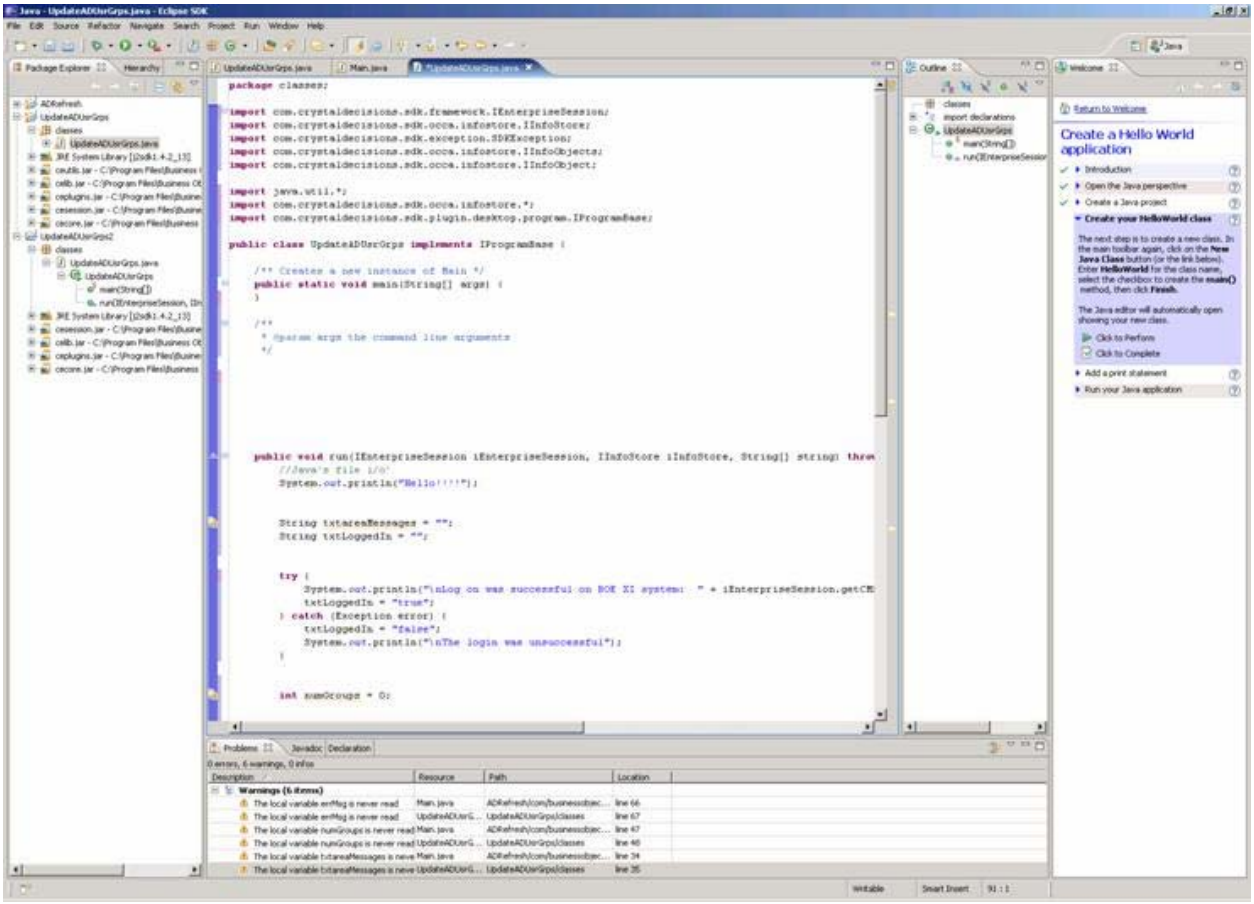


Figure 8 – Code window with the code block applied



After adding the code, create and define the JAR file as follows:

1. Save the project.
2. Click **File > Export > Java > JAR file > Next**. This creates the JAR file.
3. Ensure the settings are defined as in **Figure 10** below. Designate a specific file location.
4. Click **Finish**.

Figure 9 – Creating the JAR file

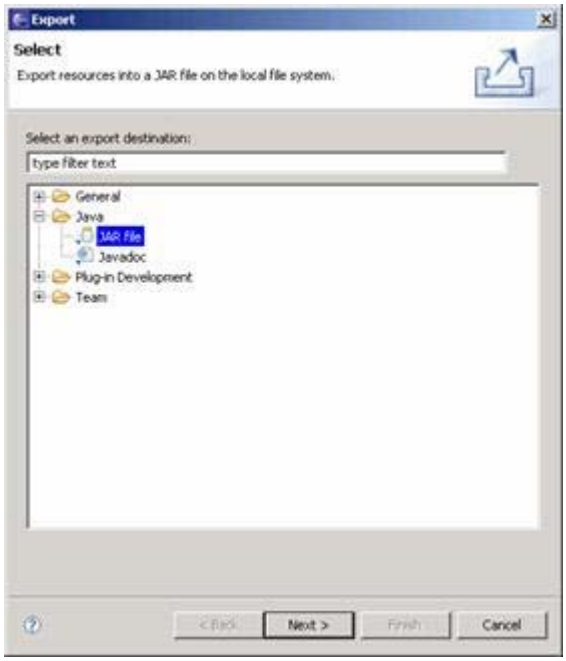
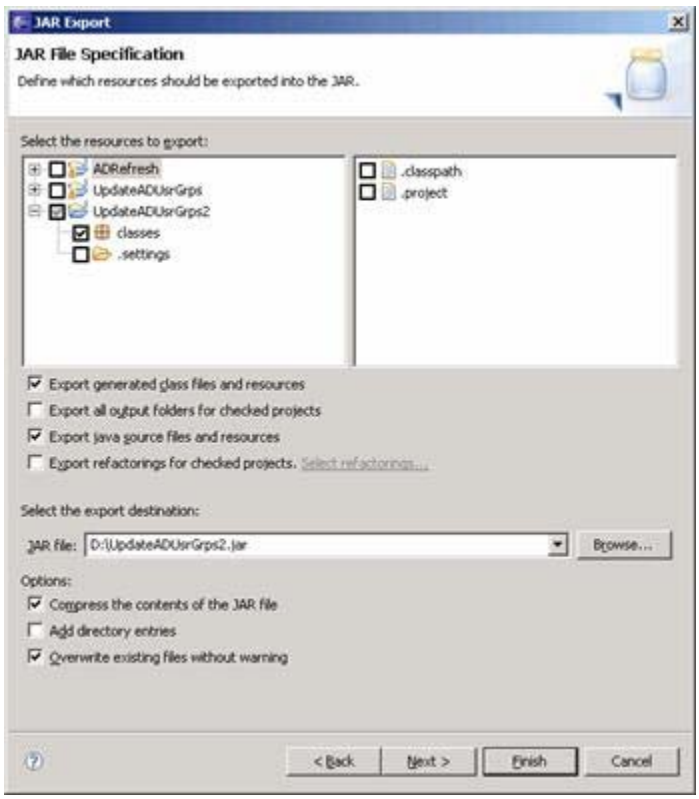


Figure 10 – Defining the JAR file settings



Update the Central Management Console

With the JAR file created, update the CMC as follows:

1. Log on to the CMC as administrator. Publish the JAR file as a Program Object.
2. Click **Process** > **Logon** page for the new Program Object.
3. Enter the desired Enterprise user name. Normally, this is **administrator**. Refer to **Figure 12**.
4. Click **Update**.
5. Click **Process** > **Parameters** tab.
6. Define the properties so that the application can locate the class created in the JAR. Refer to **Figure 13**.
7. Click **Update** > **History** tab **>Run**.

A successful instance appears.

Figure 11 – Publishing the Program Object

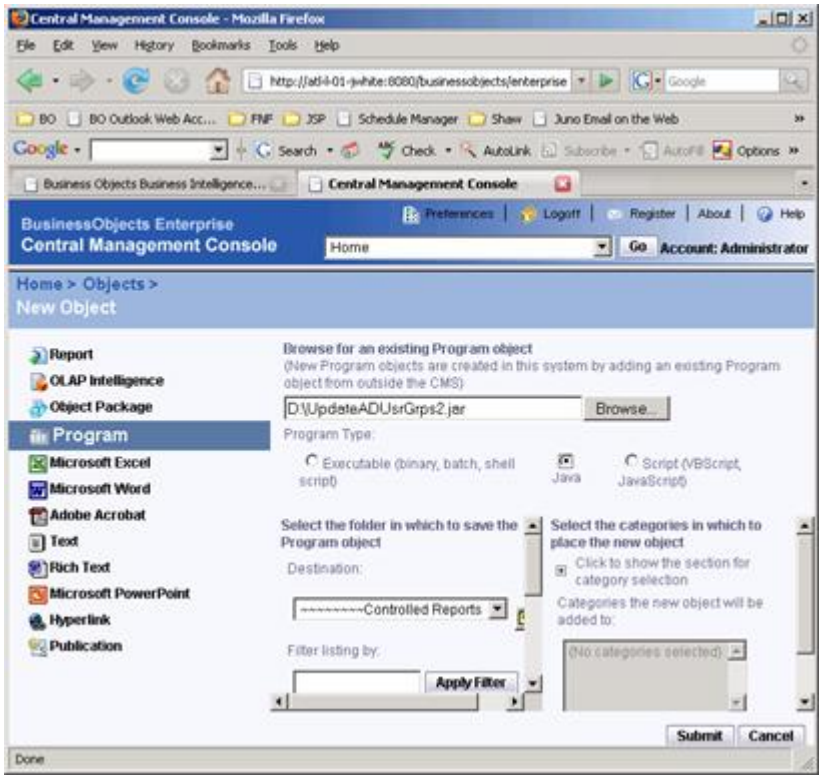


Figure 12 – Setting the credentials under the Process tab

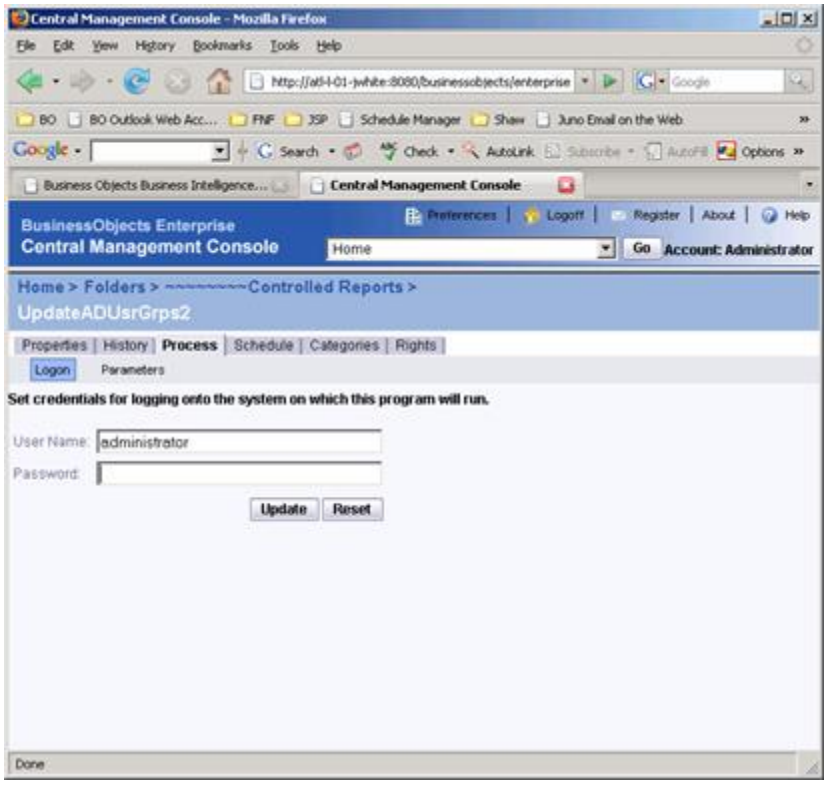


Figure 13 – Setting the class parameters

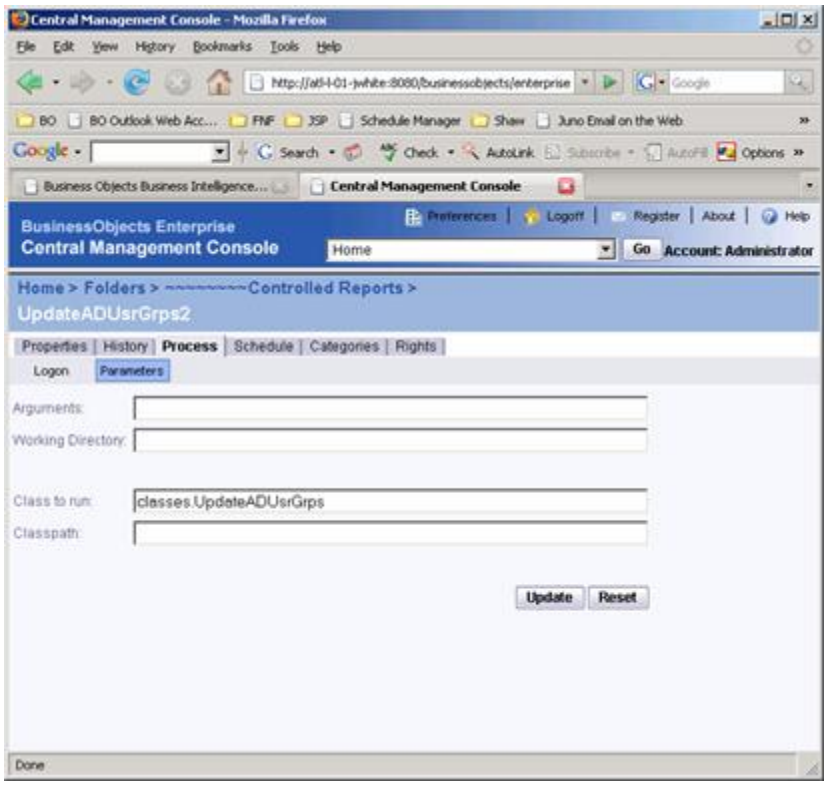
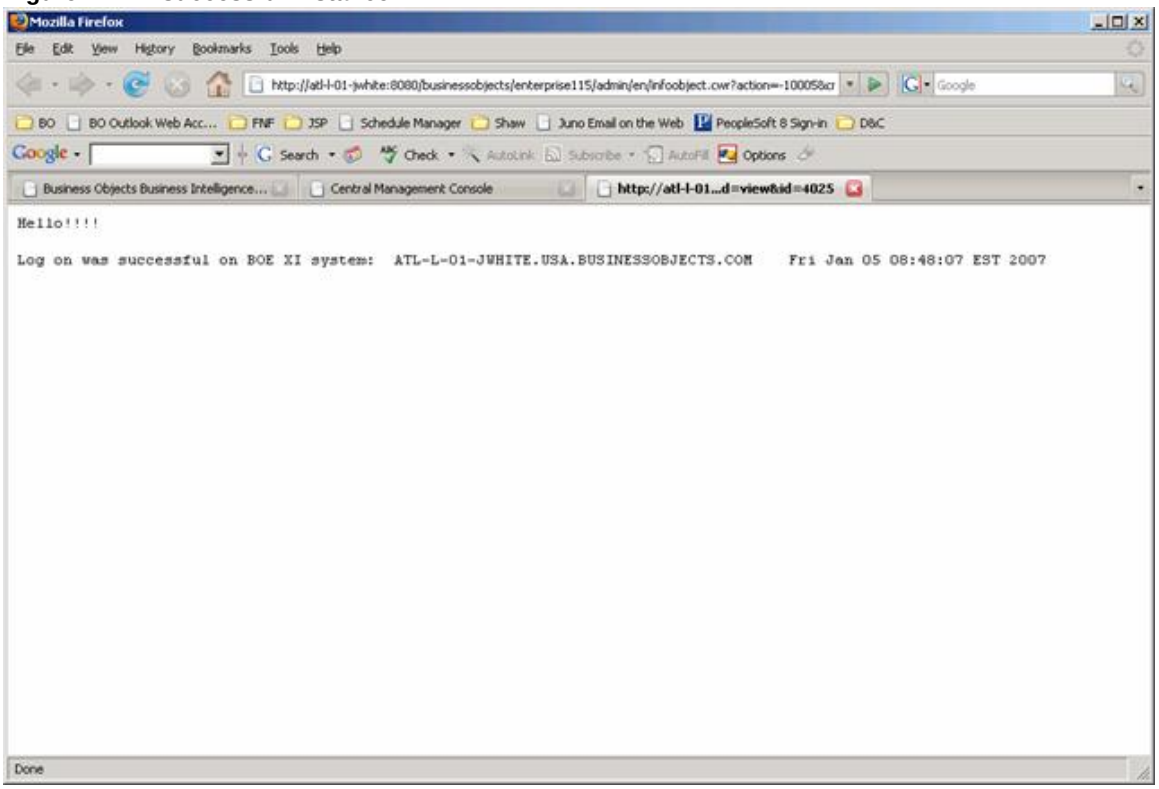


Figure 14 – A successful instance



The application has successfully updated all of the AD groups with the newest users from the AD repository.

Finding more information

For more information and resources, refer to the product documentation and visit the support area of the web site at

http://www.businessobjects.com/