

BSOA Orchestra

Process Console User's Guide

BULL SERVICE-ORIENTED
ARCHITECTURE (BSOA)



REFERENCE
86 A2 62ER 01

BULL SERVICE-ORIENTED ARCHITECTURE (BSOA)

BSOA Orchestra

Process Console User's Guide

BSOA Orchestra v3.0

Software

November 2006

BULL CEDOC
357 AVENUE PATTON
B.P.20845
49008 ANGERS CEDEX 01
FRANCE
REFERENCE
86 A2 62ER 01

The following copyright notice protects this book under Copyright laws which prohibit such actions as, but not limited to, copying, distributing, modifying, and making derivative works.

Copyright © Bull SAS 2006

Printed in France

Suggestions and criticisms concerning the form, content, and presentation of this book are invited. A form is provided at the end of this book for this purpose.

To order additional copies of this book or other Bull Technical Publications, you are invited to use the Ordering Form also provided at the end of this book.

Trademarks and Acknowledgements

We acknowledge the right of proprietors of trademarks mentioned in this book.

Intel® and Itanium® are registered trademarks of Intel Corporation.

Windows® and Microsoft® software are registered trademarks of Microsoft Corporation.

UNIX® is a registered trademark in the United States of America and other countries licensed exclusively through the Open Group.

Linux® is a registered trademark of Linus Torvalds.

The information in this document is subject to change without notice. Bull will not be liable for errors contained herein, or for incidental or consequential damages in connection with the use of this material.

Table of Contents

Chapter 1.	Introduction to the Orchestra Process Console.....	1
1.1	Console Loading.....	1
1.2	Console Frames Description	2
Chapter 2.	Guide for Process Console Administrator	5
2.1	User Management	5
2.1.1	Orchestra User Management Basic Configuration	5
2.1.2	Orchestra Profiles	6
2.1.3	Changing the Basic Configuration.....	7
2.1.4	Initiating a New Datasource Security Realm for Use by Orchestra	9
2.1.5	Configuring an Ldap Directory for Use by Orchestra – LoginModule Feature	10
2.1.6	Selecting a New Security Realm For User Management	14
2.1.7	Accessing the Description of a Specific Realm	16
2.1.8	Accessing the Users List for a Specific Realm	17
2.1.9	Adding a User to a Specific Realm.....	18
2.1.10	Suppressing a User From a Specific Realm	19
2.1.11	Accessing the List of Users Involved in a Specific BSOA Profile.....	20
2.1.12	Modifying the BSOA Profile or Password for a Specific User.....	22
2.2	Engine Databases	23
2.2.1	Changing Basic Engine Datasources	24
2.2.2	Looking at the Engine Datasource Definition	24
2.3	Editing Custom Properties.....	26
2.4	Setup	28
Chapter 3.	Guide for Process Console Designer	29
3.1	Orchestra Process Models.....	29
3.2	Adding a New Process Model.....	29
3.3	Deleting Process Models	31
Chapter 4.	Guide for Process Console Operator.....	33
4.1	Orchestra Process Models.....	33
4.1.1	Accessing the Orchestra Process Models List.....	33
4.1.2	Accessing the Information for a Specific Model.....	35
4.1.3	Deploying/Undeploying a BPEL Process Model.....	36
4.1.4	Starting a Process Model	36
4.2	BPEL Instances	39

Chapter 5.	Guide for Process Console User	41
5.1	Accessing the Orchestra Process List	41
5.2	Creating a New Instance of an Orchestra Process	43

List of Figures

Figure 1-1.	Process Administration Console Login Screen	1
Figure 1-2.	Administration Console Frames Description.....	2
Figure 2-1.	Orchestra User Management Basic Configuration	5
Figure 2-2.	Illustration of Scope of the Orchestra Profile Roles	6
Figure 2-3.	Changing the Basic Configuration for User Management	7
Figure 2-4.	Navigational Path to Select a New Security Realm.....	14
Figure 2-5.	User Management Core Frame of Administration Console	14
Figure 2-6.	Confirmation Warning When Selecting a New Realm	15
Figure 2-7.	User Management Core Frame Displaying Selected and Available Realms	16
Figure 2-8.	Display of Information for a Selected Realm	16
Figure 2-9.	User Management Core Frame Displaying Selected Realm	17
Figure 2-10.	List of Users for a Selected Realm	17
Figure 2-11.	New User Registration Form	18
Figure 2-12.	Remove Users Form	19
Figure 2-13.	Navigational Path to Select a Datasource Realm.....	20
Figure 2-14.	Datasource Realm Display	20
Figure 2-15.	List of Profiles for a Selected Realm.....	21
Figure 2-16.	List of Users in a Specific BSOA Profile	21
Figure 2-17.	User Information Form	22
Figure 2-18.	Navigational Path to Select Datasource Configuration Display	24
Figure 2-19.	BPEL Datasource Configuration Display.....	25
Figure 2-20.	Display of Available BPEL Datasources.....	25
Figure 2-21.	Navigational Path for Accessing Custom Configuration Form	26
Figure 2-22.	Custom Properties Configuration form.....	26
Figure 2-23.	Process Models Display	27
Figure 2-24.	Navigational Path to Access Setup.....	28
Figure 2-25.	Setup Panel	28
Figure 3-1.	Navigational Path to Add a New Process Model	29
Figure 3-2.	Import Files Frame for Adding a New Process Model.....	30
Figure 3-3.	Specifying an External WSDL File	30
Figure 3-4.	Navigational Path to Process Models List.....	31
Figure 3-5.	Process Models List	31
Figure 4-1.	Navigational Path to Access Process Models List.....	33
Figure 4-2.	Orchestra Process Models List	34
Figure 4-3.	Scrolling Display for List of More than 10 Process Models	34
Figure 4-4.	Display of Information for a Specific Process Model	35
Figure 4-5.	Display of Available Process Models	36
Figure 4-6.	Display of Process Details for a Process Model	37
Figure 4-7.	Screen To Select a Port Type to Start a Process Model	37
Figure 4-8.	Form To Start a Process Model	38
Figure 4-9.	Navigational Path to Access the Instances List	39
Figure 4-10.	Process Instances	39

Figure 5-1.	Navigational Path to Access the Orchestra Process List	41
Figure 5-2.	Orchestra Processes That Have Been Deployed Into the BPEL Engine	42
Figure 5-3.	Display of Available Processes to Start.....	42
Figure 5-4.	Display of Available Port Types and Operations To Instantiate a New Instance of a Process.	43
Figure 5-5.	Form To Create a New Instance of an Orchestra Process	44
Figure 5-6.	Example Response to "Create a New Instance of an Orchestra Process"	45

Preface

This guide describes the Orchestra Process Console and its functions associated with the roles of Administrator, Designer, Operator, and User.

The following documents from the previous version (v2.5) of BSOA Orchestra are now combined in this comprehensive user's guide for v3.0:

- Administrator's Guide
- Designer's Guide
- Operator's Guide
- User's Guide

Chapter 1. Introduction to the Orchestra Process Console

This chapter explains how to load the Orchestra Process Console and provides a description of the console frames.

1.1 Console Loading

To access the Process Administration Console, connect to the following URL
http://Your_Host:Your_HttpPort/jiapAdmin

(default: <http://localhost:9000/jiapAdmin/>, user name "bsoa", password "bsoa").

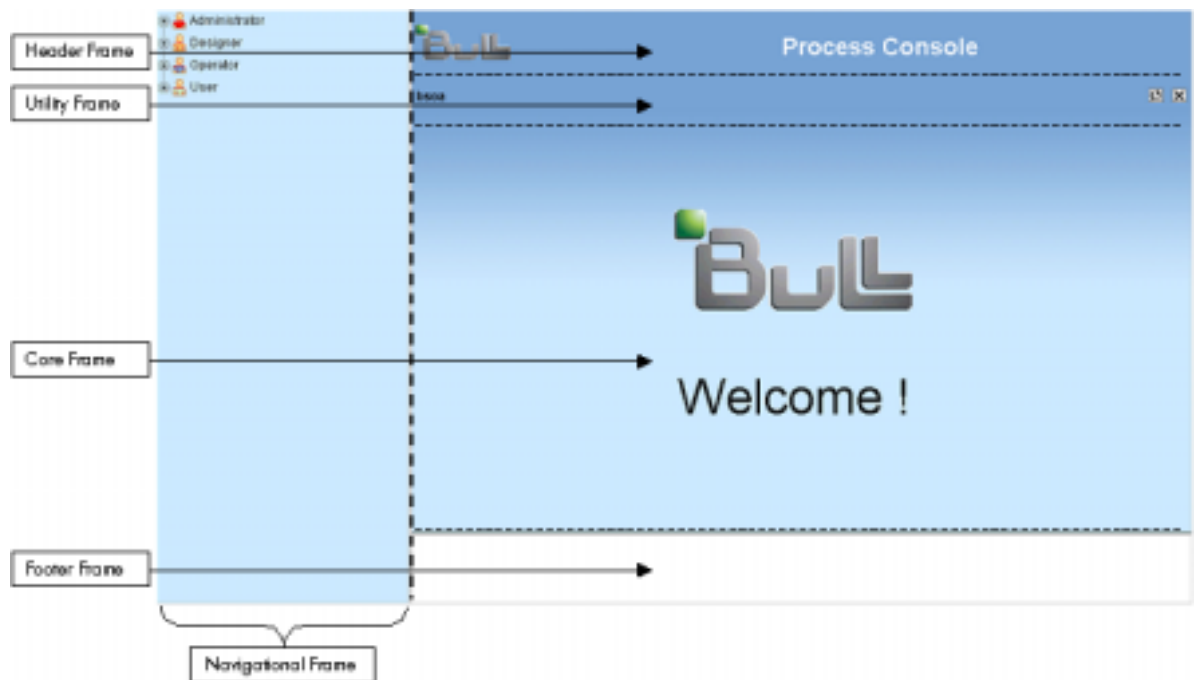
Figure 1-1. Process Administration Console Login Screen



1.2 Console Frames Description



After logging in, the Administration Console is available in the main frame of a browser. It is divided in four parts (five if the footer frame is configured), each with a specific role:

Figure 1-2. Administration Console Frames Description



Navigational Frame

Use this frame to navigate between the different options the console offers, which are based on the user role and the user-application context.



Click either on the  /  signs, or on the desired **labels** to expand/retract a branch.

For a terminal node, the **Core Frame** then displays the corresponding information.

Header Frame

By default, this frame displays the title and icon of the Process Console. The console administrator may customize the content of this frame by displaying the content of a configured URL. It also displays the path corresponding to the actual information shown in the Core Frame.

Utility Frame

This frame displays the name of the user logged in, a  button to refresh the header, core and footer frames, and a  button to exit the console. It also displays the path corresponding to the actual information shown in the Core Frame.

Core Frame

This is the main frame of the console. A navigational path showing the tree structure of the information displayed along with the actual information is available. Different tabs may be accessed in this zone, and all information entered will be displayed within it.

Footer Frame

By default this frame is not displayed. The console administrator may configure this frame to display the content of a configured URL (see **Customizing Header/Footer URLs** below).

Customizing Header/Footer URLs

To customize the header frame or display a customized footer frame, the properties **\$JONAS_BASE/conf/jiapadmin_custom.properties** file must be edited. This can be done either within the navigational tree by navigating to the **Edit Custom Frames** link of the **Administrator** tree, or by manually editing the above properties file. The following is an example of a configured footer frame, while preserving the default header frame:

```
# Custom console fields

# bottom frame (footer) of the Admin Console.
footer=http://www.somewhere.com/acme.html

# top frame (header) of the Admin Console.
header=
```

It is the responsibility of the administrator to make sure the customized frame content fits within the dimensions of the frame.

Chapter 2. Guide for Process Console Administrator

This chapter describes the functions for the role of Process Console Administrator.

For an explanation about the different BSOA roles and how to modify these profiles, see the “Modifying the BSOA Profile or Password for a Specific User” section in this document.

This chapter provides the information necessary to:

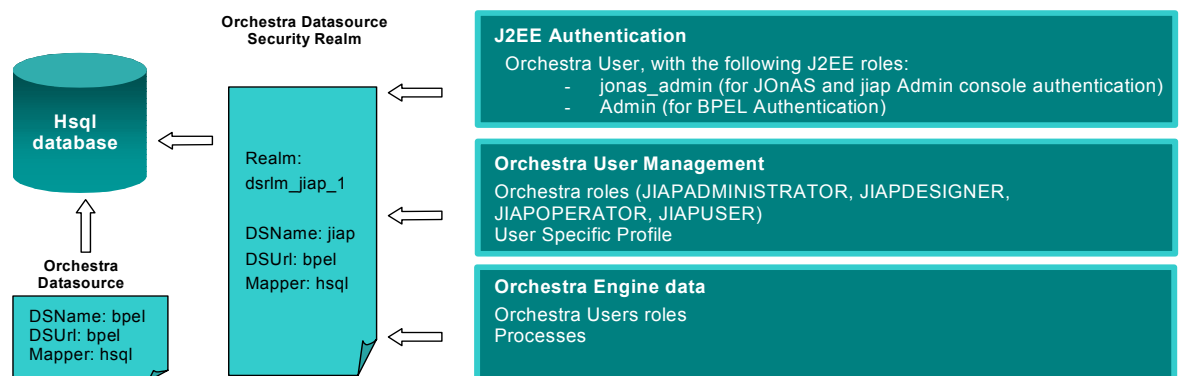
- Modify the basic configuration for user management (Ldap or Datasource Realm),
- In case of Datasource Realm, Add or Remove user, Specifying BSOA profiles for BSOA users,
- Access Orchestra engine Datasource configuration: JNDI name, port number, etc.

2.1 User Management

2.1.1 Orchestra User Management Basic Configuration

After Orchestra is installed, specific information for user management is stored in the default security Datasource realm, as shown below. This Datasource points to an hsql database, which also contains the Administration console and the Orchestra engine data.

Figure 2-1. Orchestra User Management Basic Configuration



The installation process:

- Creates and initiates the Datasources (bsoaadmin.properties file created, and Datasource at Orchestra URL populated).
- Adds the associated Datasource security realm (server.xml and jonas-realm.xml files updated).

This basic configuration can be changed according to specific preferences, for example to use an enterprise Ldap Directory, or to move to another security Datasource realm.

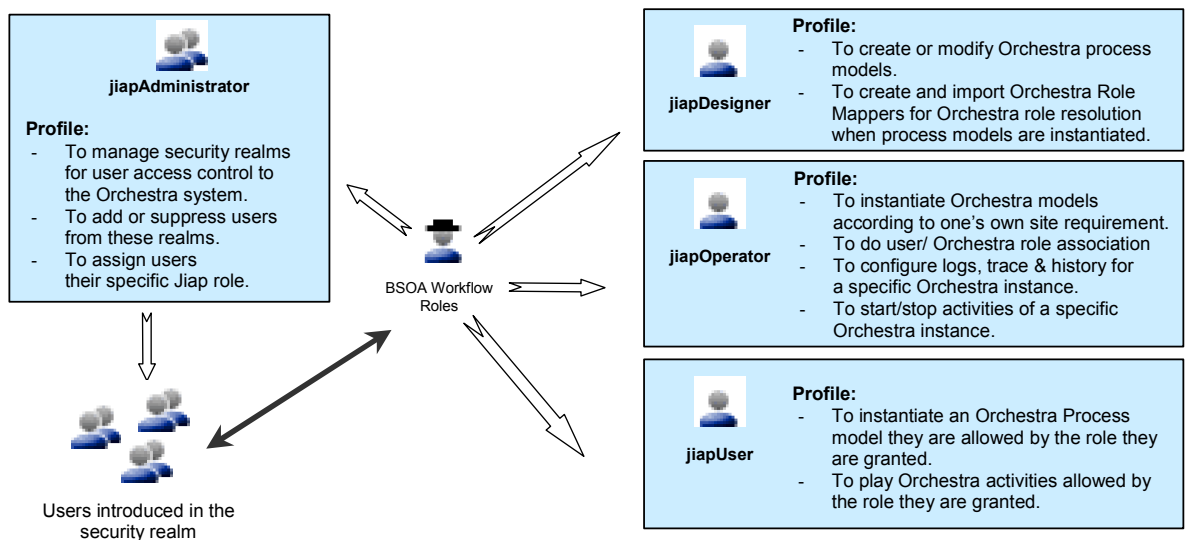
2.1.2 Orchestra Profiles

Orchestra users can be granted four different roles covering the main functions of the BPEL management. The following figure shows the scope of each of these roles (Administrator, Designer, Operator, and User).

Process Models are built from a BPEL and WSDL files and get deployed to the Orchestra engine.

Once a process model is started/instantiated, there is a **Process Instance** in existence for that model.

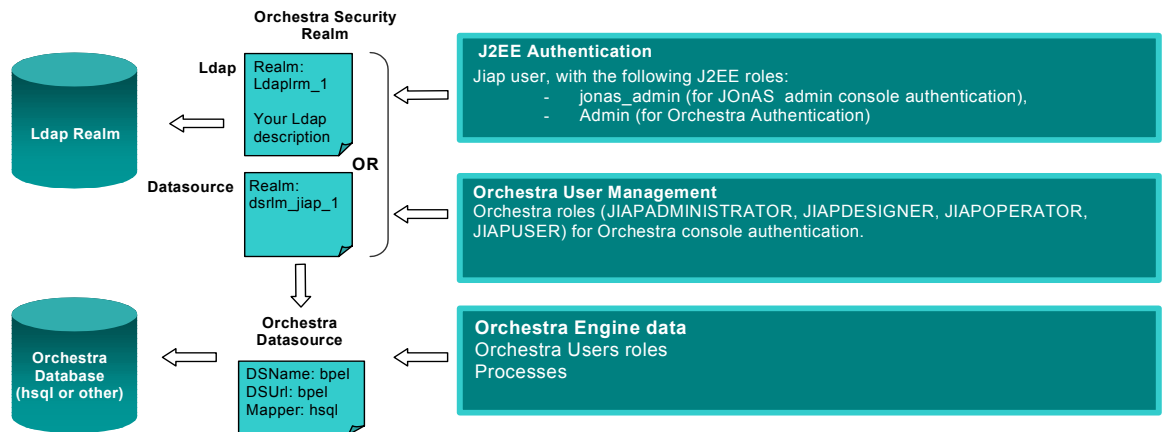
Figure 2-2. Illustration of Scope of the Orchestra Profile Roles



2.1.3 Changing the Basic Configuration

Orchestra can be configured to use an internal Datasource or a pre-existing external Ldap database for User Management.

Figure 2-3. Changing the Basic Configuration for User Management



Orchestra uses the security realm defined at the global context for JOnAS. To change the basic configuration, do the following:

When using another Datasource Security Realm:

- Create the new database that will be used, and adapt the Datasource description file (bsoadmin.properties) to the new URL to be used.
- Initiate this Datasource for correct use with Orchestra (See Section 2.1.4, "Initiating a New Datasource Security Realm for Use by Orchestra.")

When using an Ldap Security Realm:

- Create the LDAP Directory if it does not exist.
- Initiate this directory for correct use with Orchestra (see Section 2.1.5, "Configuring an Ldap Directory for Use by Orchestra – LoginModule Feature").
- Remember to introduce Orchestra users in it, and to enter each of them in the "Admin" group.

At this point, the JOnAS Application server will use the Datasource or Ldap Security Realm. The last step is to configure Orchestra to use the configured Security Realm for its own user management.

To do this:

- Use the Process console to change the User Management realm (see Section 2.1.6, "Selecting a New Security Realm For User Management").
- Stop and Start the JOnAS Server.



Note:

Datasource or Ldap Realm configuration parameters can be accessed and modified by using the **JOnAS** Admin Console http://Your_Host:Your_HttpPort/jonasAdmin, which defaults to <http://localhost:9000/jonasAdmin> with a user of "jonas" and password of "jonas". Access the security information by using the menu choices: Domain > Server JOnAS > Security.

Then, for a **Datasource Security Realm**, the Process Console provides facilities to:

- Add or Remove users,
- Modify their profiles within the BSOA scope.

When managing users with an **Ldap directory**, only the association between users and profiles can be modified through the Orchestra Administration Console. Adding or deleting users must be done according to the user-specific **Ldap Administration process**.

2.1.4 Initiating a New Datasource Security Realm for Use by Orchestra

CREATE THE DATABASE

If using a new database create it first following your specific **Databases administration process**.

When using hsql, the database is automatically created when launching the JOnAS application server, if it does not exist.

Adapt the JOnAS Datasource configuration files:

The best way to do this is to keep the default Datasource names in the jonas.properties file (**bpel** and **bsoaadmin**), and to modify the properties files (bpel.properties and bsoaadmin.properties) according to the new configuration (changing URL for using a new database, and changing Mapper and Driver for using a new rdbms).



Note:

It is mandatory to keep the JNDI names of these Datasources (bpel and jiapadmin, referenced in the properties files).

The following is an example of the properties files for using a PostgreSQL database, named MyDB.

These files are located under \$JONAS_BASE/conf.

Part of [bpel.properties](#) file:

```
datasource.name      bpel
datasource.url        jdbc:postgresql://localhost:5432/db_jiapadmin211
datasource.classname  org.postgresql.Driver
datasource.mapper     rdb.postgres
```

Part of [jonasadmin.properties](#) file:

```
datasource.name=jiap
datasource.url=jdbc:postgresql://localhost:5432/db_jiapadmin211
datasource.mapper=rdb.postgres
datasource.classname=org.postgresql.Driver
```

The application server must then be stopped and restarted with "Start JOnAS". Remember to put the correct drivers under the \$JONAS_ROOT/lib/ext directory. These drivers are located under the bpel/lib/ext directory.

INITIALIZE THE DATABASE(S)

bpel Datasource: go to the installation directory, and execute the **ant initBsoaDb** command.

BsoaAdmin Datasource: go to the bsoaadmin directory and execute the

ant -f initJiapDb.xml initJiapDb command.

The databases are then populated with the BPEL and Jiapadmin tables, and the minimum required data.



Note:

Even if a specific Datasource security realm is already being used, the corresponding database must be initialized as described above. Only data contained in BPEL and jiapadmin tables will be available for Orchestra user management.

2.1.5 Configuring an Ldap Directory for Use by Orchestra – LoginModule Feature

JOnAS configuration:

Jonas-realm.xml file (default path: Orchestra Installation directory \bsoa_base\conf):

The LDAP realm must be described for JOnAS to take it into account. To do this, modify the jonas-realm.xml file (*jonas-ldaprealm* target) to add the Ldap entry point.

The following is an example of the lines that could be added:

```
<ldaprealm name="ldaprlm_1"
  baseDN="dc=frec,dc=bull,dc=fr"
  initialContextFactory="com.sun.jndi.ldap.LdapCtxFactory"
  providerUrl="ldap://localhost:389"
  securityAuthentication="simple"
  securityPrincipal="cn=admin,dc=frec,dc=bull,dc=fr"
  securityCredentials="xxxxxxx"
  authenticationMode="bind"
  userPasswordAttribute="userPassword"
  userRolesAttribute="memberOf"
  roleNameAttribute="cn"
  userDN="ou=jiap_user"
  userSearchFilter="uid={0}"
  roleDN="ou= jiap _group"
  roleSearchFilter="uniqueMember={0}"
  referral="throw" />
```

[server.xml](#) file (default path: Orchestra Installation directory \bsoa_base\conf):

Modify the server.xml file to make it take this new realm into account.

First modify the global realm:

```
Realm className="org.objectweb.jonas.security.realm.web.catalina55.JACC"  
debug="99" resourceName="Ldaprlm_1"/>
```

And change the resourceName field for BPEL Context (path="/bpel"), BPEL Web Services (path="/bpel_ws"), BPEL Form Generator(path="/formgenerator-1.0").



Note:

The Single Sign On (SSO) of Tomcat has been activated.

[Jaas.config](#) file (default path: Orchestra Installation directory \bsoa_base\conf):

To run the BPEL tests or BPEL samples mentioned in the Orchestra documentation, the jaas.config file must be modified to let jaas know which security resource to use (modify the bpel, TestClient, bpel_policy entries).

Refer to the [JOnAS User Documentation](#) for more information about how to modify server.xml and jonas-realm.xml files to introduce a new security realm.

A User Ldap Configuration:

An administrator account that has modify permission to the necessary subTree must be used to update the LDAP directory.

Then, a subtree must be created that will contain the following groups:

```
JIAPUSER  
JIAPOPERATOR  
JIAPDESIGNER  
JIAPADMINISTRATOR  
jonas_admin
```

All these groups are mandatory for Orchestra, unless using the BsoaLogin Module as explained at the end of this section (JIAPUSER, jonas_admin are no longer required in the Ldap server).

JIAPUSER, JIAPOPERATOR, JIAPDESIGNER, JIAPADMINISTRATOR are managed by the **Process Admin Console**.

The following is an example of the minimum configuration to import into a user Ldap, based on the previous mentioned Ldap:

```
dn: dc=frec,dc=bull,dc=fr
objectClass: top
objectClass: dcObject
objectClass: organization
o: bull
dc: frec

dn: cn=admin,dc=frec,dc=bull,dc=fr
objectClass: simpleSecurityObject
objectClass: organizationalRole
cn: admin
description: LDAP administrator

dn: ou=jiap_group,dc=frec,dc=bull,dc=fr
ou: jiap_group
objectClass: top
objectClass: organizationalUnit

dn: ou=jiap_user,dc=frec,dc=bull,dc=fr
ou: jiap_user
objectClass: top
objectClass: organizationalUnit

dn: cn=JIAPUSER,ou=jiap_group,dc=frec,dc=bull,dc=fr
cn: JIAPUSER
uniqueMember: uid=jiap,ou=jiap_user,dc=frec,dc=bull,dc=fr
description: jiap user
objectClass: groupOfUniqueNames
objectClass: top

dn: uid=jiap,ou=jiap_user,dc=frec,dc=bull,dc=fr
cn: jiap
sn: jiap
uid: jiap
objectClass: inetOrgPerson
objectClass: top

dn: cn=JIAPOPERATOR,ou=jiap_group,dc=frec,dc=bull,dc=fr
cn: JIAPOPERATOR
uniqueMember: uid=jiap,dc=frec,dc=bull,dc=fr
objectClass: groupOfUniqueNames
objectClass: top

dn: cn=JIAPADMINISTRATOR,ou=jiap_group,dc=frec,dc=bull,dc=fr
cn: JIAPADMINISTRATOR
objectClass: groupOfUniqueNames
objectClass: top
uniqueMember: uid=jiap,ou=jiap_user,dc=frec,dc=bull,dc=fr
```

```

dn: cn=JIAPDESIGNER,ou=jiap_group,dc=frec,dc=bull,dc=fr
cn: JIAPDESIGNER
objectClass: groupOfUniqueNames
objectClass: top
uniqueMember: uid=jiap,ou=jiap_user,dc=frec,dc=bull,dc=fr

dn: cn=jonas-admin,ou=jiap_group,dc=frec,dc=bull,dc=fr
cn: jonas-admin
uniqueMember: uid=jiap,ou=jiap_user,dc=frec,dc=bull,dc=fr
description: jonas administration group
objectClass: groupOfUniqueNames
objectClass: top

dn: cn=BPELUSER,ou=jiap_group,dc=frec,dc=bull,dc=fr
cn: BPELUSER
description: Bpel Acces Group
objectClass: groupOfUniqueNames
objectClass: top
uniqueMember: uid=jiap,ou=jiap_user,dc=frec,dc=bull,dc=fr

```



Note:

These entries are mandatory for using the BPEL Engine. To use BPEL, have to introduce BPEL users must also be introduced in the Ldap Directory with the "BPELUSER" role.

After all of this has been done, restart the JOnAS server (`bsoap start`).

2.1.6 Selecting a New Security Realm For User Management

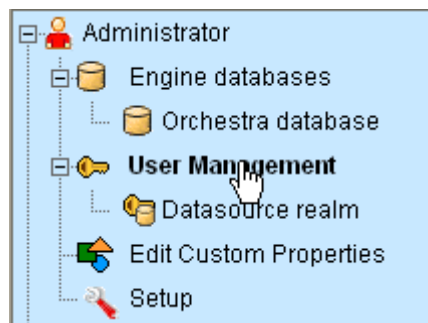
After the previous steps, Orchestra must be configured to modify the User Management configuration.

Orchestra administration

Connect to the Administration console with the appropriate user (Doing this requires an administrator profile. If the basic installation has not been changed, the default login/password (**bsoa/bsoa**) can be used).

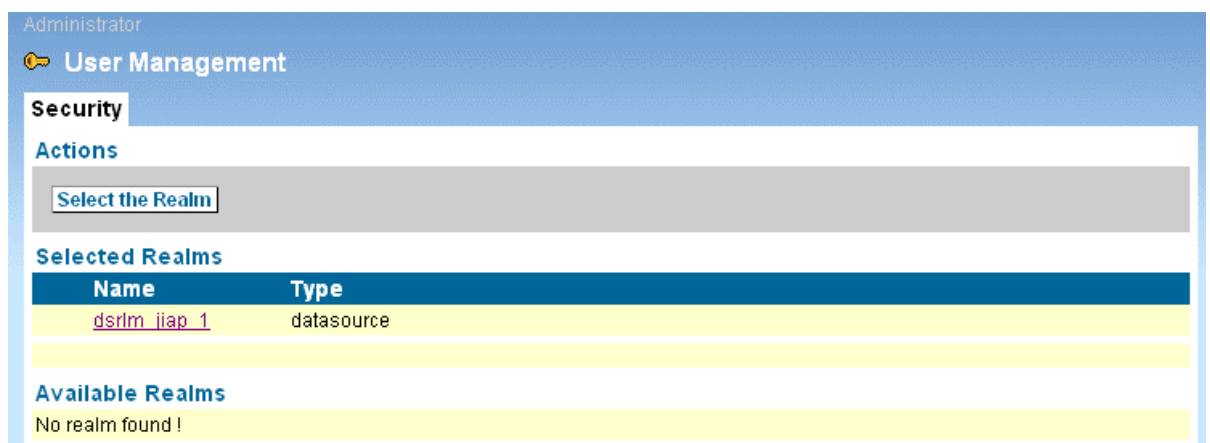
Select the following path in the **Navigational Tree** (Left Panel): **Administrator** → **User Management**.

Figure 2-4. Navigational Path to Select a New Security Realm



The **Core Frame** (Right Panel) presents the selected and available realms.

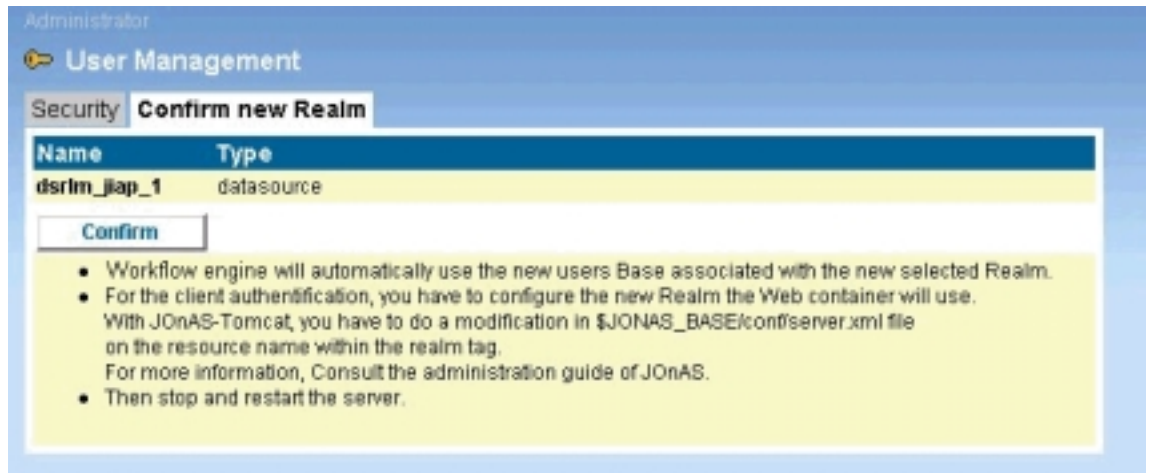
Figure 2-5. User Management Core Frame of Administration Console



To select a new realm, check the box in front of the appropriate realm in the « Available Realms » list in the **Core Frame** and click on the « **Select the Realm** » Button.

A warning is then provided. Confirm your choice by clicking on the “**Confirm**” Button.

Figure 2-6. Confirmation Warning When Selecting a New Realm



Then stop and restart the JOnAS Server: the new User Management configuration will be available.



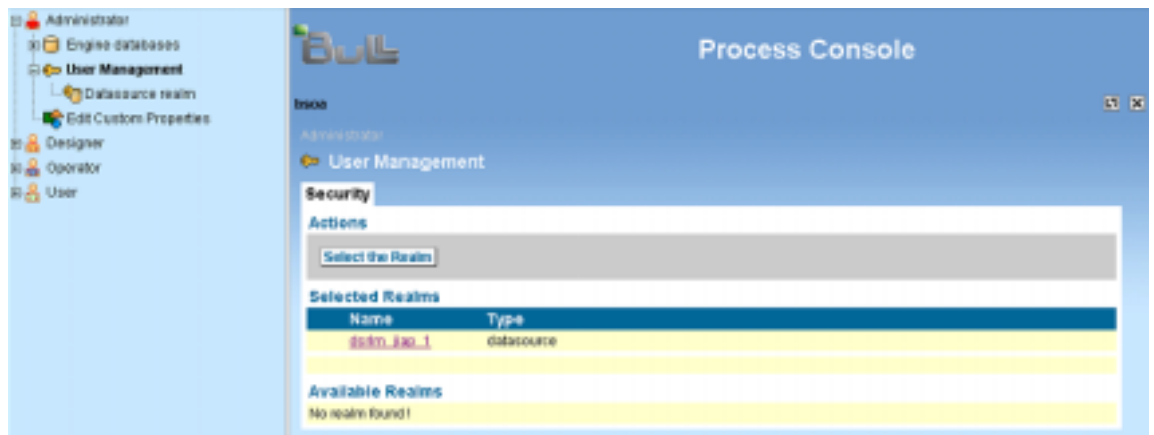
Warning:

The User Manager API of Orchestra immediately recognizes these modifications. This can cause problems for running applications. It is strongly recommended to stop and restart the JOnAS server.

2.1.7 Accessing the Description of a Specific Realm

Select the following path in the **Navigational Tree** (Left Panel): **Administrator** → **User Management**. The **Core Frame** (Right Panel) presents the selected and available realms.

Figure 2-7. User Management Core Frame Displaying Selected and Available Realms



Click on the name of the desired Realm. Related information will be displayed in the **Core Frame**, as shown below for an Ldap Realm.

Figure 2-8. Display of Information for a Selected Realm

Security Realm Idaprim_1		
Ldap realm		
Idaprim_1		
Base DN	dc=frec,dc=bull,dc=fr	DN used by default
User DN	ou=jiap_user	Used DN to access to the user (optional by default the Base DN is used)
Role DN	ou=jiap_group	Used DN to access to the role (optional by default the Base DN is used)
Initial Context Factory	com.sun.jndi.ldap.LdapCtxFactory	Used class to access to Ldap
Provider URL	ldap://frec445362.frec.bull.fr:389	Used URL to Ldap access
Security Authentication	simple	
Authentication Mode	bind	
Security Principal	cn=admin,dc=frec,dc=bull,dc=fr	
Security Credentials	olhvier6	
User Search Filter	uid={0}	
Role Search Filter	uniqueMember={0}	
User Password Attribute	userPassword	
User Roles Attribute	memberOf	
Role Name Attribute	cn	
Language		(optional)
Referral	throw	(optional)
Security Protocol		(optional)
State Factories		(optional)
Algorithm		Default algorithm used to crypt the passwords

2.1.8 Accessing the Users List for a Specific Realm



Warning:

This operation can only be performed on the selected security realm (See the previous sections for more information on how to select a specific Security Realm).

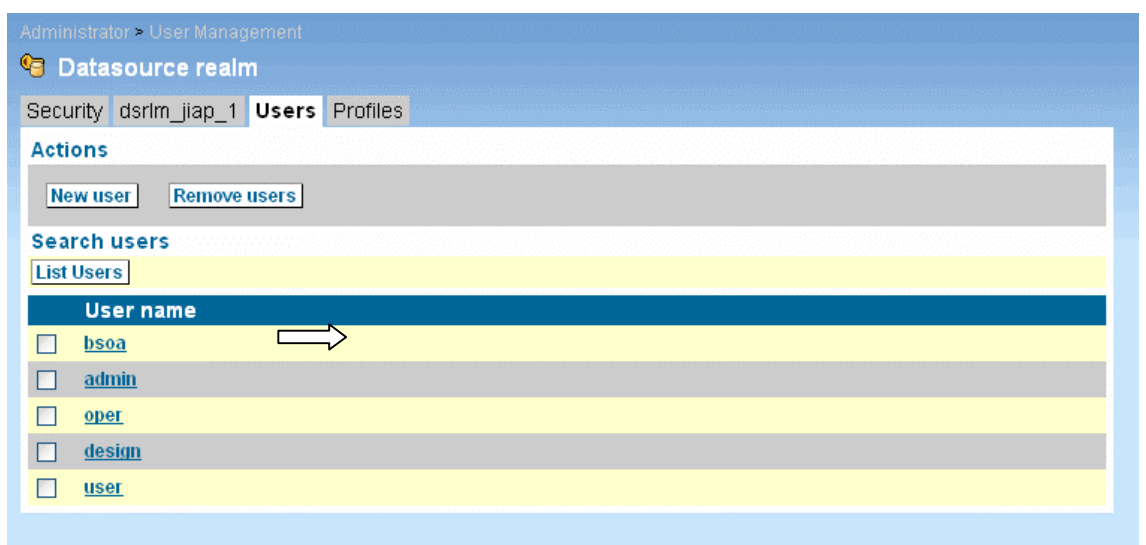
Select the following path in the **Navigational Tree** (Left Panel): **Administrator** → **User Management**. The **Core Frame** (Right Panel) presents the selected realm.

Figure 2-9. User Management Core Frame Displaying Selected Realm



Just click on the name of the selected Realm, choose the “Users” tab in the **Core Frame**, and then click on the “**List Users**” Button. The users’ list will display under the search panel.

Figure 2-10. List of Users for a Selected Realm



2.1.9 Adding a User to a Specific Realm



Warning:

This operation can only be performed on the selected security realm (see the previous sections for more information on how to select a specific Security Realm) in the case of a **Datasource Realm**. **Ldap Realms** must be managed with their specific administration tool.

Figure 2-11. New User Registration Form

The screenshot shows the 'New user' registration form within the 'Datasource realm' of the 'dsrlm_jiap_1' security realm. The form is divided into two main sections: 'User' and 'Roles'.

User Section:

- User login:** Text input field containing 'jdoe'.
- User Given Name:** Text input field containing 'Doe'.
- User First Name:** Text input field containing 'John'.
- User Mail:** Text input field containing 'jdoe@bull.net'.
- Password:** Password input field with four dots.
- Confirm password:** Password input field with four dots.

Roles Section:

- User's profil:** A list box containing 'JIAPUSER' and 'JIAPOPERATOR'. 'JIAPOPERATOR' is currently selected.
- Available:** A list box containing 'JIAPADMINISTRATOR' and 'JIAPDESIGNER'.
- Between the two list boxes are two buttons: '<<<' (left arrow) and '>>>' (right arrow).
- Below the list boxes is a 'Create' button.

First, access the users list of the realm (see Section 2.1.8 "Accessing the Users List for a Specific Realm"). Then click on the **"New user"** Button.

The user registration form is shown in the **Core Frame**. Enter the user information and click on the **"Create"** button.

For more information on the "Profiles" panel, see "Accessing the List of Users Involved In a specific BSOA Profile."

The user is then added to the security realm.

2.1.10 Suppressing a User From a Specific Realm



Warning:

This operation can only be performed on the selected security realm (See the previous sections for more information on how to select a specific Security Realm) in case of a Datasource Realm. Ldap Realms must be managed with their specific administration tool.

First, access the user list of the realm (see Section 2.1.8 “Accessing the Users List for a Specific Realm”). Then check the square in front of the users to be suppressed, and click on the “Remove Users” Button.

Figure 2-12. Remove Users Form

User name	
<input type="checkbox"/>	john
<input type="checkbox"/>	jack
<input checked="" type="checkbox"/>	chris
<input type="checkbox"/>	ilap

The users are deleted from the list (replay **SEARCH** to see it).



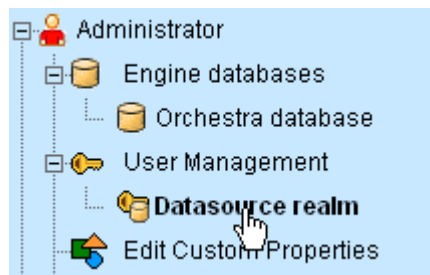
Warning:

These deletions are effective immediately. This can cause problems for users involved in a current Orchestra process.

2.1.11 Accessing the List of Users Involved in a Specific BSOA Profile

Select the following path in the **Navigational Tree** (Left Panel): **Administrator** → **User Management**→**Datasource realm**.

Figure 2-13. Navigational Path to Select a Datasource Realm



The **Core Frame** (Right Panel) presents the selected realm.

Figure 2-14. Datasource Realm Display

Administrator > User Management

Datasource realm

Security **Realm dsrlm_jiap_1** Users Profiles

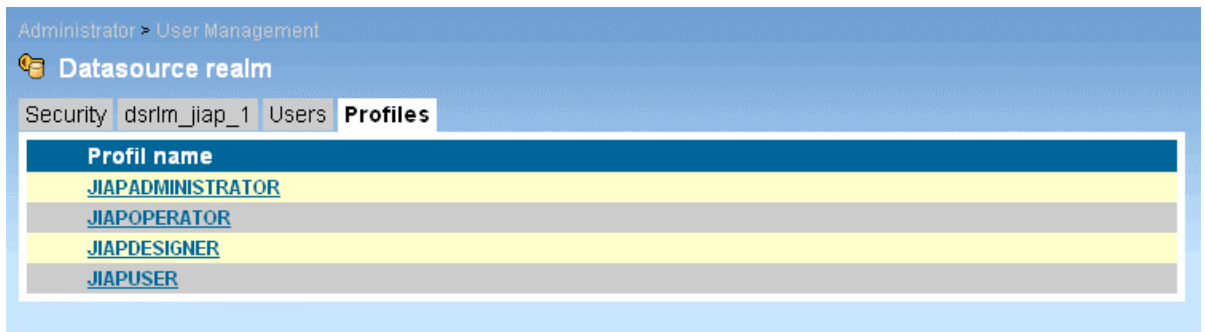
Datasource realm

dsrlm_jiap_1

JNDI name	jiap
User table	The name of table of users
Column Password in User table	The name of the password's column in the User table
Column Username in User table	The name of the username's column in the User table
Role table	The name of table of roles
Column Rolename in Role table	The name of the role's column in the Role table
Column Username in Role table	The name of the user's column in the Role Table
Algorithm	Default algorithm used to crypt the passwords

Click on the name of the selected Realm, and choose the **"Profiles"** tab in the **Core Frame**.

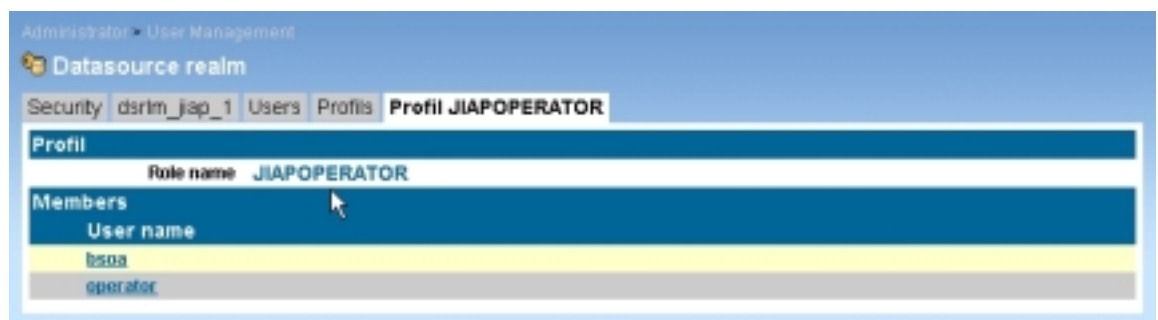
Figure 2-15. List of Profiles for a Selected Realm





The four profiles are then shown: select one by clicking on it.

A new tab is then available in the Core Frame, which lists the users involved in the selected profile.

Figure 2-16. List of Users in a Specific BSOA Profile



To **add a user to this profile**, select the user in the list by clicking on the user name. The **"User xxx"** tab will then be shown in the **Core Frame**. The chosen profile for this user can be selected by clicking first on it in the **"Available"** panel, then on the  arrow.

To **suppress a user from this profile**, select the user by clicking on the user name. The **"User xxx"** tab will then be shown in the **Core Frame**. The chosen profile can then be suppressed from his list by clicking first on it in the **User's profile** panel, then on the  arrow.

2.1.12 Modifying the BSOA Profile or Password for a Specific User




Warning:


This operation can only be performed on the selected security realm (See the previous sections for more information on how to select a specific Security Realm) in case of a Datasource Realm. Ldap Realms must be managed with their specific administration tool.

First, access the users list for the realm (see Section 2.1.8 “Accessing the Users List for a Specific Realm”) and select a user by clicking on his name. The user information form is shown in the **Core Frame**.

Figure 2-17. User Information Form

The screenshot shows the 'Process Console' interface for the 'bsoa' application. The breadcrumb trail is 'Administrator > User Management'. The current view is for the 'Datasource realm'. A tabbed interface shows 'Security', 'dsrlm_jiap_1', 'Users', 'User bob' (selected), and 'Profiles'. The 'User' section contains fields for 'User login' (bob), 'User Given Name' (bob), 'User First Name' (bob), and 'User Mail' (bob@company.com). The 'Roles' section has two lists: 'User's profil' containing 'JIAPUSER' and 'Available' containing 'JIAPADMINISTRATOR', 'JIAPDESIGNER', and 'JIAPOPERATOR'. Navigation arrows '<<<' and '>>>' are between the lists. The 'Change password' section has 'Password' and 'Confirm password' fields, both masked with '***', and an 'Apply' button at the bottom.

To **add a profile for this user**, first select the profile by clicking on it in the **Available** panel (on the right), then click on the  arrow. The profile will then be present in the **User's profile** panel.

To **delete a profile for this user**, first select the profile by clicking on it in the **User's profile** panel, then click on the  arrow. The profile will then be suppressed from the user's profiles.

For other changes, modify user information as necessary.

When finished, click on the **"Apply"** button to validate the changes.



Warning:

These changes are effective immediately. Changing groups cause problems for users currently running the Process Console.

2.2 Engine Databases

Within this version of Orchestra, only the BPEL Engine is provided. In further versions, a workflow engine will also be included.

The Process console offers a means to access the current Datasource configuration for information only.

2.2.1 Changing Basic Engine Datasources

Specifying Datasources (datasource mapper, datasource url, ...), is not in the scope of the Process Console.

This is done at installation time and is described in the Orchestra installation guide, "[Getting Started](#)." This guide explains how to adapt `jonas.properties` and `[datasourceName].xml` files according to user-specific needs.

To access to the Datasource configuration and to modify the JDBC connection parameters, use the Jonas admin console accessed via:

http://Your_Host:Your_HttpPort/jonasAdmin

This defaults to: <http://localhost:9000/jonasAdmin> with a user of "jonas" and password of "jonas".

The Datasource configuration can be accessed in the Jonas console by using the menu choices: Domain → Server JOnAS → Services → Database. There will be a datasource for Orchestra (bpel) and for Orchestra administration (bsoaadmin). The default is manage both of these within the same HSQL database.

2.2.2 Looking at the Engine Datasource Definition

Select the following path in the **Navigational Tree** (Left Panel): **Administrator** → **Engine Databases** → **Orchestra database**.

Figure 2-18. Navigational Path to Select Datasource Configuration Display



The BPEL Datasource configuration is shown in the **Core Frame** (Right Panel).

Figure 2-19. BPEL Datasource Configuration Display

The screenshot shows the 'Engine databases' section with a sub-tab for 'bpel'. Below this, a 'Datasource configuration' table lists the following properties:

Datasource configuration	
JNDI name	bpel
Description	no desc
URL	jdbc:hsqldb:hsqldb://localhost:9002/db_jonas
JDBC Driver	org.objectweb.jonas.dbm.JDBCDataSource
User name	jonas
User password	jonas
Mapper	rdb.hsql

This figure shows the port number used for the database in its connection URL, along with other connection properties.

Clicking on the **Engine database** tab will show the Datasources that are available, as shown in the following figure.

Figure 2-20. Display of Available BPEL Datasources

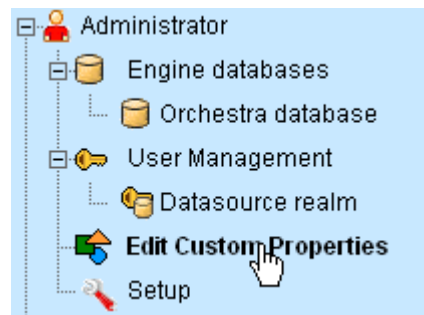
The screenshot shows the 'Engine databases' section with a sub-tab for 'BSOA configuration'. Below this, a message states 'Only One datasource found !'. A table then displays the available datasource:

Engine	JNDI name	JDBC Connection
Orchestra database	bpel	10

2.3 Editing Custom Properties

Select the following path in the **Navigational Tree** (Left Panel): **Administrator** → **Edit Custom Properties**.

Figure 2-21. Navigational Path for Accessing Custom Configuration Form



The Custom Properties configuration is shown in the **Core Frame** (Right Panel).

Figure 2-22. Custom Properties Configuration form

A screenshot of the 'Edit Custom Properties' configuration form. The form is titled 'Administrator' and 'Edit Custom Properties'. It contains several input fields and radio buttons. The fields are: 'Console header URL', 'Console footer URL', 'Forms style sheet file (css) URL', 'Forms style language file (xsl) URL', and 'Console logo URL'. Below these is a 'Rows of items per page' field with the value '10'. There are two radio button groups: 'Include process type in tree' with 'Yes' and 'No' options (where 'No' is selected), and 'Console utility bar' with 'Yes' and 'No' options (where 'Yes' is selected). At the bottom, there are 'Save' and 'Reset' buttons. A 'Refresh Console' button with a circular arrow icon is located in the top right corner of the form area.

To edit the Custom Properties, insert a URL that points to one of the following: a customized file whose content represents an HTML to be displayed in the header or footer frames, a Cascading Style Sheet (CSS), or Extensible Style Language (XSL) definition file. Once the URL(s) are inserted, click the **Save** button. The administrator will be prompted to confirm the save action. Once the confirmation is performed, refreshing the console (🔄) will enable the changes.

Rows of items per page: can have its default value of 10 changed to alter the number of models/processes displayed on a page. The example below shows what happens for displaying process models when this value is changed to 15 (there must be 15 or more models present for this to make a difference):

Figure 2-23. Process Models Display

Operator

Process models

Process Models

Models: 1 - 15 (of 49)

Name	State	Creator	Action
echo	DEPLOYED	bpeladmin	▶▼
echocomplex	DEPLOYED	bpeladmin	▶▼
helloworld	DEPLOYED	bpeladmin	▶▼
incrementService	DEPLOYED	bpeladmin	▶▼
invoke	DEPLOYED	bpeladmin	▶▼
marketplace	DEPLOYED	bpeladmin	▶▼
reply	DEPLOYED	bpeladmin	▶▼
switch	DEPLOYED	bpeladmin	▶▼
wait	DEPLOYED	bpeladmin	▶▼
while	DEPLOYED	bpeladmin	▶▼
bpemdemon1	DEPLOYED	bpeladmin	▶▼
factorialService	DEPLOYED	bpeladmin	▶▼
list	DEPLOYED	bpeladmin	▶▼
unitCopy	DEPLOYED	bpeladmin	▶▼
unitExpr	DEPLOYED	bpeladmin	▶▼

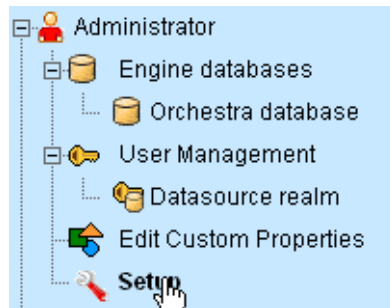
Include process type in tree: Some of expanding/collapsing tree nodes in the left frame contain a "Process type" label node that reads either "Bonita" or "BPEL". Since the console (at least currently) supports only one type at a time this option allows the user the choice of displaying the label or not. Try it out, then look at the node list under the "Operator" tree node. It may be necessary to refresh the view to see the changes.

Console utility bar: The "utility bar" is a narrow frame between the header frame and the main body frame of the console display. It contains the name of the user and an exit and refresh button. The use of this frame is optional via this selection.

2.4 Setup

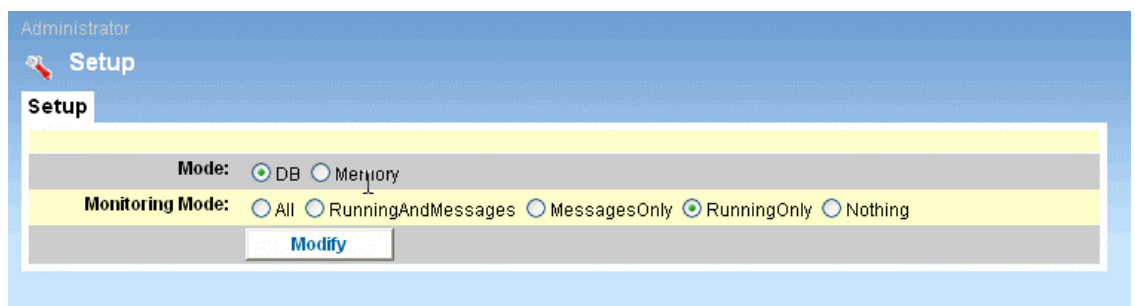
Select the following path in the **Navigational Tree** (Left Panel): **Administrator** → **Setup**.

Figure 2-24. Navigational Path to Access Setup



The Setup panel is shown in the **Core Frame** (Right Panel).

Figure 2-25. Setup Panel



This panel provides access to the settings for the Engine Setup and the Monitoring Mode.

Engine Setup:

- *DB*: with this mode, all activities are saved to the database incrementally.
- *Memory*: choose this mode for optimum performance of Orchestra. Since no backup is made, this option should be chosen for non-critical processes only.

Monitoring Mode:

- *Nothing*: no monitoring at all.
- *RunningOnly*: monitors only executing instances.
- *MessagesOnly*: no monitoring but messages exchanged via the web service are saved.
- *RunningAndMessages*: a combination of the *RunningOnly* and *MessagesOnly* modes.
- *All*: all *instances* are monitored.

A warning is then provided. Confirm the choice by clicking on the "**Confirm**" Button.

Chapter 3. Guide for Process Console Designer

This chapter describes the functions for the role of Process Console Designer.

This includes the information necessary to be able to:

- Access Process Management in order to create, modify, or delete Process Models,
- Manage Orchestra Process Models: import BPEL files, etc.

3.1 Orchestra Process Models

Any user managing process models to view a given process model must have a **designer** profile. An Administrator user of the Process console sets this operator profile. See Section 2.1.2 in the Process Console Administration chapter to set operator profiles.

3.2 Adding a New Process Model

Select the following path in the **Navigational Tree** (Left Panel): **Designer** → **Process management** → **Import files**.

Figure 3-1. Navigational Path to Add a New Process Model



Figure 3-2. Import Files Frame for Adding a New Process Model

The figure above shows an example of importing the “assign” sample.

To specify a BPEL process the console must be given:

- 1) a BPEL file describing the process,
 - 2) a WSDL file describing the interfaces of the process, and
 - 3) a WSDL file (or a set thereof) for each Web Service called within the process. The assign sample does not call any external web services, thus none were supplied with this example.
- Use the “**Browse**” button to specify a BPEL and WSDL file as required.
 - Use the “**Browse**” button to specify an external WSDL file. To import more than one external WSDL file, click the “**Add**” button to browse and import additional files. Once specified, these files are listed under the “**External WSDL file**” line with a “delete” action available, and can be deleted as desired before clicking on the “**Import**” button.

Figure 3-3. Specifying an External WSDL File

- Click the “**Import**” button at the bottom of the form to import the BPEL process definition into the BPEL engine. If there is an existing process model of the same name, it must be deleted before the import will succeed (see 3.3, “Deleting Process Models”).



Note:

At least one BPEL file and one WSDL file are required in order to import a process.

3.3 Deleting Process Models

Select the following path in the **Navigational Tree** (Left Panel): **Designer** → **Process management** → **Process models**.

Figure 3-4. Navigational Path to Process Models List







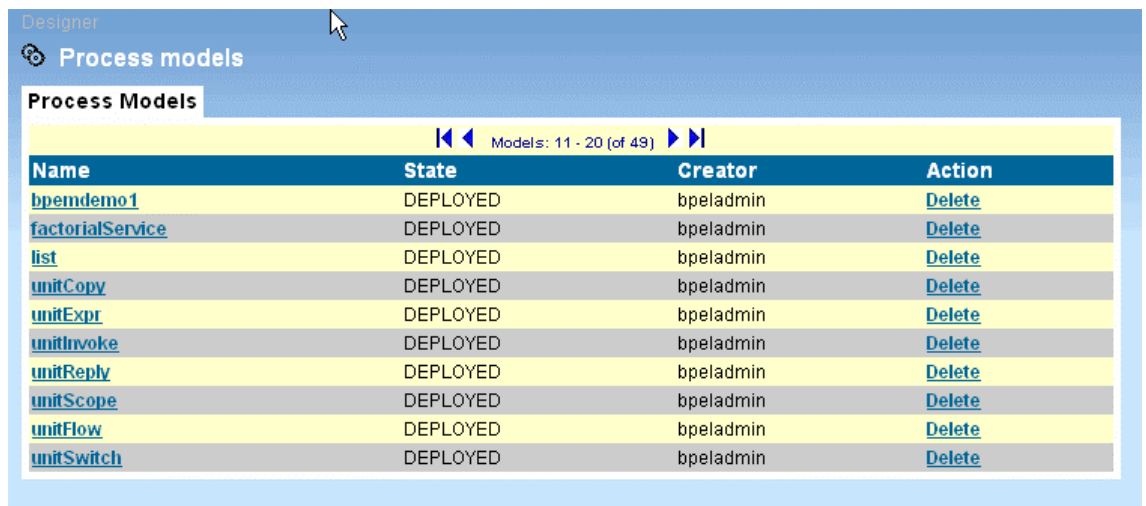
If there are more than 10 models are available, they can be scrolled through by using the forward , backward , begin , and end  buttons at the top of the display, as shown in the following figure which has the second 10 models displayed.

Figure 3-5. Process Models List



Name	State	Creator	Action
bpemdemo1	DEPLOYED	bpeladmin	Delete
factorialService	DEPLOYED	bpeladmin	Delete
list	DEPLOYED	bpeladmin	Delete
unitCopy	DEPLOYED	bpeladmin	Delete
unitExpr	DEPLOYED	bpeladmin	Delete
unitInvoke	DEPLOYED	bpeladmin	Delete
unitReply	DEPLOYED	bpeladmin	Delete
unitScope	DEPLOYED	bpeladmin	Delete
unitFlow	DEPLOYED	bpeladmin	Delete
unitSwitch	DEPLOYED	bpeladmin	Delete

The "Process models" list is displayed in the core panel with the following information:

- **Name:** the name of the imported process model.
- **State:** the state of the process model (DEPLOYED, TODEPLOY).
 - The DEPLOYED state occurs after the Deploy action is taken, which is described under the Operator → Process Models menu choice in Section 4.1.3 "Deploying/Undeploying a BPEL Process Model."
 - The TODEPLOY state occurs after an Import Files operation.
- **Creator:** the login name of the designer who imported the process files into the Orchestra engine.
- The last column of the table, named "**Action**", contains a "**Delete**" link for each process in the list.

Click this "**Delete**" link to delete the process. The process model can be made available again by an import action (see Section 3.2, "Adding a New Process Model").



Note:

This operation will be successful if no instance of this process is still in running state. To terminate a running BPEL process instance, refer to Chapter 4, "Guide for Process Console Operator", which describes the Operator → Process Instance menu choice and the Terminate action.

Chapter 4. Guide for Process Console Operator

This chapter describes the functions for the role of Process Console Operator. This includes the information necessary to be able to:

- Deploy, Undeploy, Start an Orchestra process model,
- Access Orchestra Process Model Instance information,
- Start a new process instance.

4.1 Orchestra Process Models

Any user accessing the process console to view a given process model must have an **operator** profile. An Administrator user of the Process console sets this operator profile. See Chapter 2, “Guide for Process Console Administrator,” to set operator profiles.

4.1.1 Accessing the Orchestra Process Models List


Select the following path in the **Navigational Tree** (Left Panel): **Operator** → **Process models**.

Figure 4-1. Navigational Path to Access Process Models List



The **Core Frame** (Right Panel) displays the available process models.

For each process model, its state and its creator are displayed. Depending on its state, various actions can be taken on it.

- **Deploy** 
When a BPEL process definition file is imported into the Orchestra engine by a designer (see Chapter 3, “Guide for Process Console Designer”), the state of the process is automatically **TODEPLOY**. This means that the operator must deploy it before a user can start the process model.



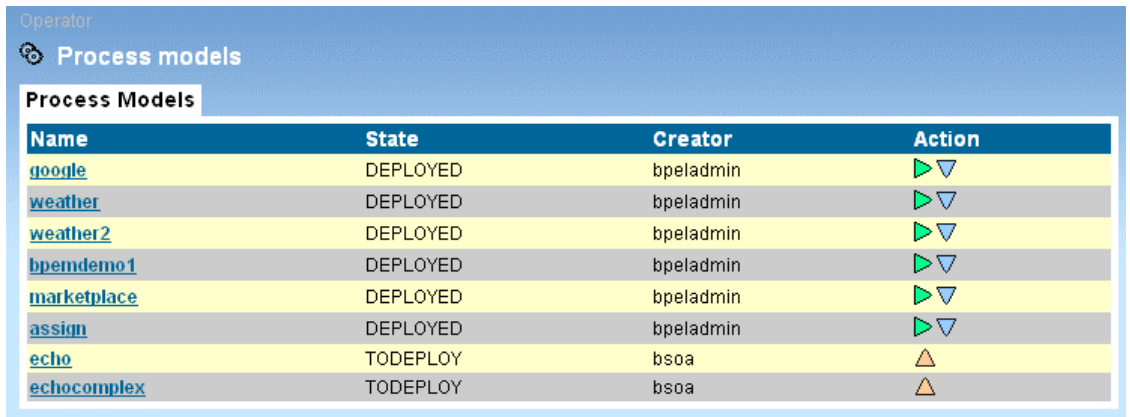














- **Start** 
When a process is deployed, it is then possible to instantiate (start) it. A form will then be displayed offering the ability to choose a Port Type. This process is described in Section 3.1.4, "Starting a Process Model."
- **UnDeploy** 
This action prevents end users from starting new instances of the process. The operator can then import a new version of the process (all process instances must be terminated or canceled before the process model can be deleted). The new version of the process must then be redeployed before being available again for end users.

Figure 4-2. Orchestra Process Models List



Name	State	Creator	Action
google	DEPLOYED	bpeladmin	 
weather	DEPLOYED	bpeladmin	 
weather2	DEPLOYED	bpeladmin	 
bpemdemo1	DEPLOYED	bpeladmin	 
marketplace	DEPLOYED	bpeladmin	 
assign	DEPLOYED	bpeladmin	 
echo	TODEPLOY	bsoa	
echocomplex	TODEPLOY	bsoa	





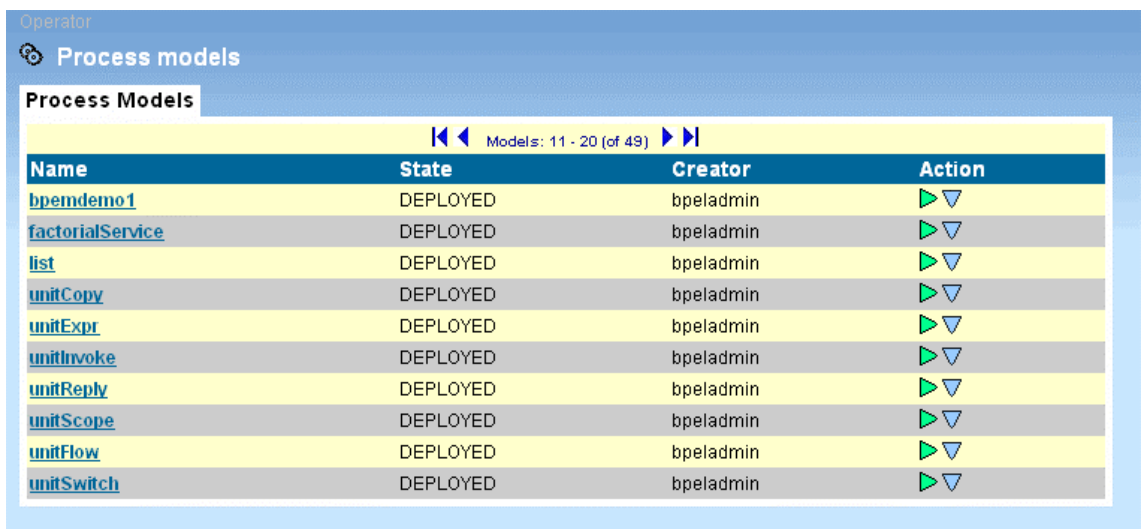




















If there are more than 10 models are available, they can be scrolled through by using the forward , backward , begin , and end  buttons at the top of the display, as shown in the figure below which has the second 10 models displayed:

Figure 4-3. Scrolling Display for List of More than 10 Process Models



Name	State	Creator	Action
bpemdemo1	DEPLOYED	bpeladmin	 
factorialService	DEPLOYED	bpeladmin	 
list	DEPLOYED	bpeladmin	 
unitCopy	DEPLOYED	bpeladmin	 
unitExpr	DEPLOYED	bpeladmin	 
unitInvoke	DEPLOYED	bpeladmin	 
unitReply	DEPLOYED	bpeladmin	 
unitScope	DEPLOYED	bpeladmin	 
unitFlow	DEPLOYED	bpeladmin	 
unitSwitch	DEPLOYED	bpeladmin	 

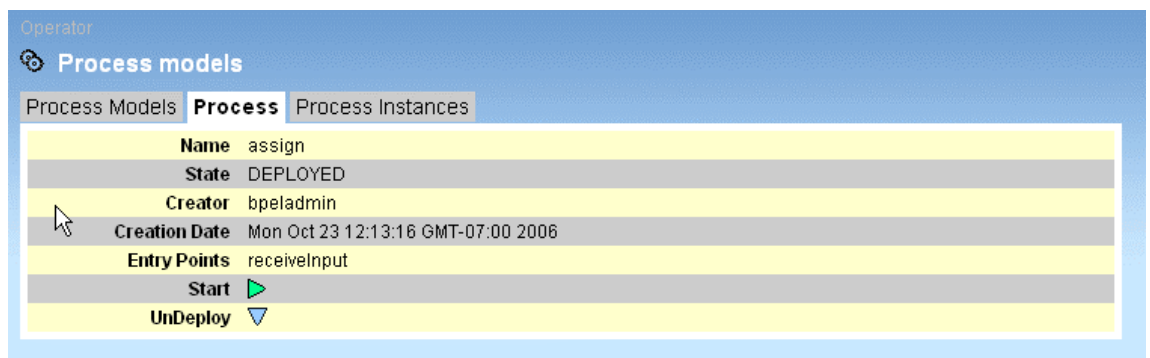
4.1.2 Accessing the Information for a Specific Model

Select the following path in the **Navigational Tree** (Left Panel): **Operator** → **Process models**. The **Core Frame** (Right Panel) displays the available process models.

To select a process and see its specific information, select it in the list by clicking on its name in the **Core Frame**.

The following information is then displayed.

Figure 4-4. Display of Information for a Specific Process Model



- **Name:** the name of the process model.
- **State:** the state of the process model (DEPLOYED, TODOPLOY).
- **Creator:** the login name of the designer who imported the BPEL process definition into the engine.
- **Creation date:** the date on which the model was imported.
- **Entry points:** names of the web Services that allow instantiation of the process.
- **Deploy or (UnDeploy and Start):** available actions as explained in Section 4.1.1.

4.1.3 Deploying/Undeploying a BPEL Process Model

Select the following path in the **Navigational Tree** (Left Panel): **Operator** → **Process models**. The **Core Frame** (Right Panel) displays the available process models.

The first way to deploy/undeploy a process model is to click on the desired action in the right column of the **Core Frame** (named "Action"): Deploy or UnDeploy, depending the current state of the process.

The second way is to select the model in the Model List by clicking on its name, and then clicking on the corresponding button (Deploy, UnDeploy) shown in the **Core Frame**.



Note:

It is necessary to delete an undeployed model before it can be imported again (see Chapter 3, "Guide for Process Console Designer").

4.1.4 Starting a Process Model

Select the following path in the **Navigational Tree** (Left Panel): **Operator** → **Process models**. The **Core Frame** (Right Panel) displays the available process models.

The first way to instantiate a process model is to click on the "Start" (▶) action on the right column of the **Core Frame** (named "Action"). This action is only available for deployed process models.

Figure 4-5. Display of Available Process Models

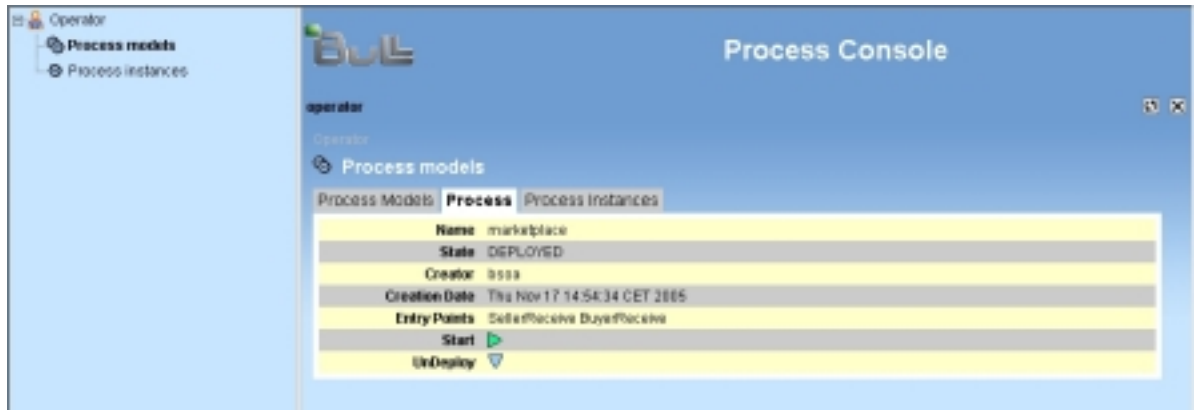



The screenshot shows the 'Process Console' window. On the left is the 'Operator' panel with a tree view containing 'Process models' and 'Process instances'. The main area displays a table titled 'Process Models' with the following data:

Name	State	Creator	Action
marketplace	DEPLOYED	bisa	▶
serviceorder	TODEPLOY	bisa	⚠

The second way is to select the model in the Process Models List by clicking on its name.

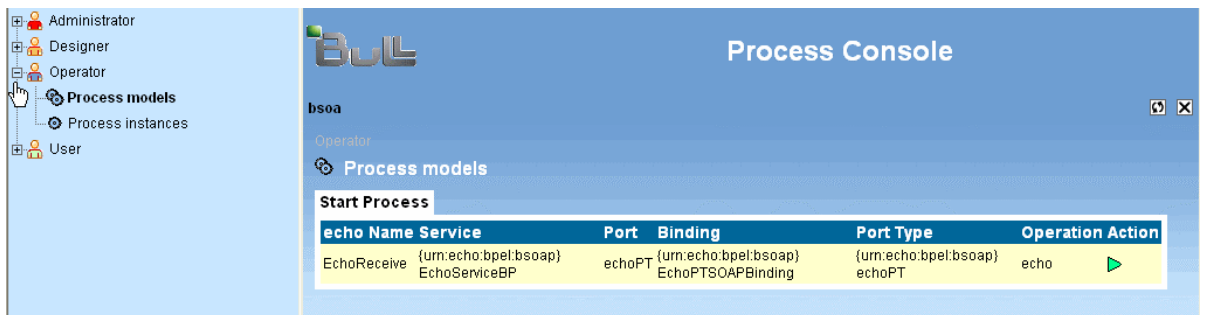
Figure 4-6. Display of Process Details for a Process Model



Then click on the corresponding **"Start"** button () shown at the bottom of the process details screen.

A screen will be displayed with the Port Type available to start the process. Select a Port Type by clicking on the green arrow icon. The following figure is an example of the screen displayed as a result of clicking on the Start button for the Echo sample.

Figure 4-7. Screen To Select a Port Type to Start a Process Model



Then click on the Green Action button for the process. The following form will be displayed with the input fields of the corresponding Web Service.

Figure 4-8. Form To Start a Process Model

The screenshot displays the BULL Process Console interface. On the left is a navigation tree with icons and labels for Administrator, Designer, Operator, Process models, Process instances, and User. The main area is titled 'Process Console' and features the BULL logo. Below the title, the section '-CallParameters' contains several input fields: Process (echo), Service ({um:echo:bpel:bswap)EchoServiceBP), Port (echoPT), Operation (echo), InputMessage ({um:echo:bpel:bswap)StringMessageType), and OutputMessage ({um:echo:bpel:bswap)StringMessageType). Below this, the section '-InputParts' contains a sub-section '-Part' with three input fields: Name (echoString), Type ({http://www.w3.org/2001/XMLSchema}string), and stringDefaultElement (fool). A 'Submit' button is located at the bottom right of the form area.

Fill in any required parameters, and then click on **“Submit”**. The reply will extend the current display in the core frame.

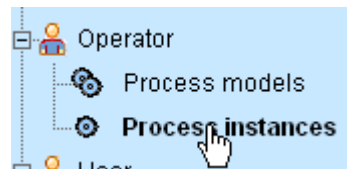
4.2 BPEL Instances

A user accessing the process console to see process instances of a given process model must meet the same requirements as those described in Chapter 2, "Guide for Process Console Administrator."

HOW TO ACCESS THE INSTANCES LIST

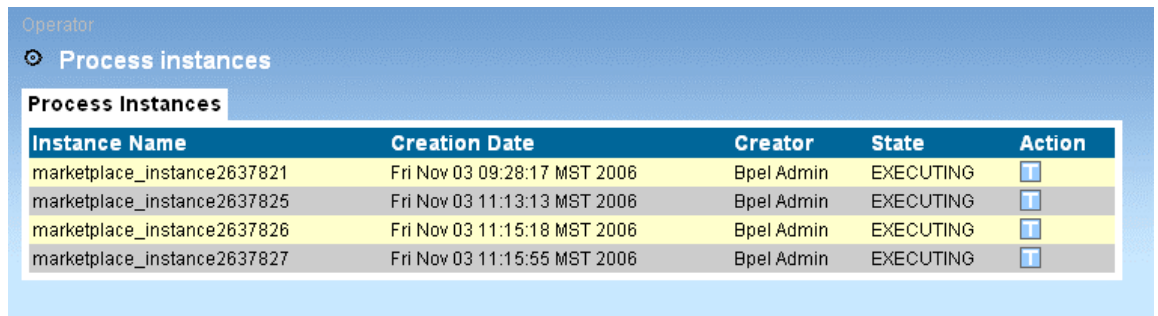
Select the following path in the **Navigational Tree** (Left Panel): **Operator** → **Process instances**.





Figure 4-9. Navigational Path to Access the Instances List




The **Core Frame** (Right Panel) displays the available process instances.

Figure 4-10. Process Instances



Process instances				
Instance Name	Creation Date	Creator	State	Action
marketplace_instance2637821	Fri Nov 03 09:28:17 MST 2006	Bpel Admin	EXECUTING	
marketplace_instance2637825	Fri Nov 03 11:13:13 MST 2006	Bpel Admin	EXECUTING	
marketplace_instance2637826	Fri Nov 03 11:15:18 MST 2006	Bpel Admin	EXECUTING	
marketplace_instance2637827	Fri Nov 03 11:15:55 MST 2006	Bpel Admin	EXECUTING	

The following information is available:

- **Instance Name:** the name of the process instance.
- **Creation date:** the date on which the process instance was created.
- **Creator:** the login name of the end user who created the process instance.
- **State:** when an instance is running its state is "executing", and when it is finished its state is "terminated".
- **Action:** "**Terminate action**" terminates an executing process instance (click on the terminate button  for that process). This only kills that instance of the process, it does not undeploy it or delete it.

Chapter 5. Guide for Process Console User

This chapter describes the functions for the role of Process Console User.

This includes the information necessary to be able to:

- Access the Orchestra process list.
- Start Orchestra Processes.



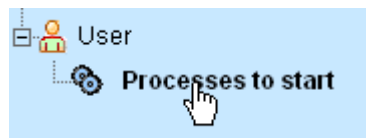
Note:

Since Orchestra processes are automatically instantiated, the User function within the Process Console is only used to start processes for test purposes.

5.1 Accessing the Orchestra Process List

Select the following path in the **Navigational Tree** (Left Panel): **User** → **Processes to start** as shown in the example below.

Figure 5-1. Navigational Path to Access the Orchestra Process List




Authenticated users (to the process console) can see all the Orchestra processes that have been deployed into the BPEL engine.

Details of the selected process are displayed in the **Core Frame** (Right Panel).













- **Name:** the name of the process.
- **Type:** the type of the process (BPEL, ...).
- **Creator:** the login name of the designer who imported the BPEL process definition into the Orchestra engine.
- **Action:** contains the Start button for the process.

Figure 5-2. Orchestra Processes That Have Been Deployed Into the BPEL Engine

User

 **Processes to start**

Processes to start

Name	Type	Creator	Action
google	 Bpel	bpeladmin	
weather	 Bpel	bpeladmin	
weather2	 Bpel	bpeladmin	
bpemdemo1	 Bpel	bpeladmin	
marketplace	 Bpel	bpeladmin	
assign	 Bpel	bpeladmin	






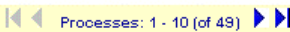
If there are more than 10 processes are available to start, they can be scrolled through by using the forward , backward , begin , and end  buttons at the top of the display, as shown in the figure below which has the first 10 processes displayed:





















Figure 5-3. Display of Available Processes to Start

User

 **Processes to start**

Processes to start

Processes: 1 - 10 (of 49) 

Name	Type	Creator	Action
assign	 Bpel	bpeladmin	
echo	 Bpel	bpeladmin	
echocomplex	 Bpel	bpeladmin	
helloworld	 Bpel	bpeladmin	
incrementService	 Bpel	bpeladmin	
invoke	 Bpel	bpeladmin	
marketplace	 Bpel	bpeladmin	
reply	 Bpel	bpeladmin	
switch	 Bpel	bpeladmin	
wait	 Bpel	bpeladmin	

5.2 Creating a New Instance of an Orchestra Process

Access the Orchestra Process list (See Section 4.1.1, “Accessing the Orchestra Process Models List”).


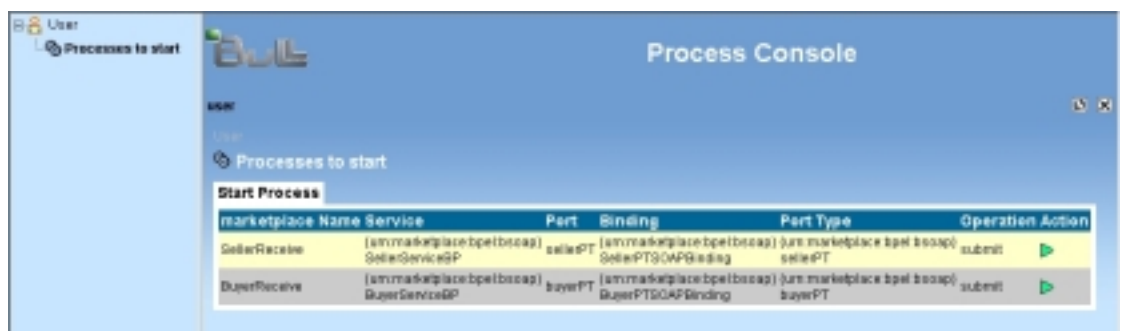

To create a new instance of a process, click on the **“Start”** button  in the “Action” column.

Figure 5-4. Display of Available Port Types and Operations To Instantiate a New Instance of a Process



A list of the available port types and operations that can instantiate the process will be displayed.

Select one of these operations by clicking on the **“Start”** button  in the “Action” column.

A form is then displayed with the input of the corresponding Web Service.

Figure 5-5. Form To Create a New Instance of an Orchestra Process

The screenshot shows the 'Orchestra Process Console' interface. At the top left is the 'bsoa' logo. The title 'Orchestra Process Console' is centered at the top. Below the title, there are two tabs: '-CallParameters' (selected) and '-InputParts'. The form contains several input fields with pre-filled values:

- Process: assign
- Service: {http://orchestra.objectweb.org/samples/assign}AssignServiceBP
- Port: AssignPT
- Operation: initiate
- InputMessage: {http://orchestra.objectweb.org/samples/assign}initiateAssignSoapRequest
- OutputMessage: {http://orchestra.objectweb.org/samples/assign}initiateAssignSoapResponse
- Under the '-InputParts' tab:
 - Part:
 - Name: parameters
 - Element: {http://orchestra.objectweb.org/samples/assign}initiateAssign
 - initiateAssign:
 - name: foo

A 'Submit' button is located at the bottom right of the form.

Fill in any required parameters (the above figure shows in the assign sample with the value "foo" filled in for the "name" parameter) and click on the "**Submit**" button to start the process with those parameters.

The response will then be displayed by extending the current core frame display. An example response using the assign sample is show below:

Figure 5-6. Example Response to “Create a New Instance of an Orchestra Process”

The screenshot shows the 'Orchestra Process Console' interface. It features a blue header with the 'BULL' logo and the title 'Orchestra Process Console'. Below the header, there's a section for '-CallParameters' with fields for Process (assign), Service ({http://orchestra.objectweb.org/samples/assign}AssignServiceBP), Port (AssignPT), and Operation (initiate). The InputMessage field contains {http://orchestra.objectweb.org/samples/assign}initiateAssignSoapRequest and the OutputMessage field contains {http://orchestra.objectweb.org/samples/assign}initiateAssignSoapResponse. Below this is the '-InputParts' section with a '-Part' having Name (parameters) and Element ({http://orchestra.objectweb.org/samples/assign}initiateAssign). Underneath is the '-initiateAssign' section with a 'name' field containing 'foo'. The '-OutputParts' section follows with a '-Part' having Name (parameters) and Element ({http://orchestra.objectweb.org/samples/assign}initiateAssignResponse). Finally, the '-initiateAssignResponse' section has a 'result' field containing 'Hello foo'.

-CallParameters	
Process	assign
Service	{http://orchestra.objectweb.org/samples/assign}AssignServiceBP
Port	AssignPT
Operation	initiate
InputMessage	{http://orchestra.objectweb.org/samples/assign}initiateAssignSoapRequest
OutputMessage	{http://orchestra.objectweb.org/samples/assign}initiateAssignSoapResponse
-InputParts	
-Part	
Name	parameters
Element	{http://orchestra.objectweb.org/samples/assign}initiateAssign
-initiateAssign	
name	foo
-OutputParts	
-Part	
Name	parameters
Element	{http://orchestra.objectweb.org/samples/assign}initiateAssignResponse
-initiateAssignResponse	
result	Hello foo

Technical publication remarks form

Title: BSOA Orchestra

Reference No.: 86 A2 62ER 01

Date: November 2006

ERRORS IN PUBLICATION

SUGGESTIONS FOR IMPROVEMENT TO PUBLICATION

Your comments will be promptly investigated by qualified technical personnel and action will be taken as required.

If you require a written reply, please include your complete mailing address below.

NAME: _____ Date: _____

COMPANY: _____

ADDRESS: _____

Please give this technical publication remarks form to your BULL representative or mail to:

Bull - Documentation Dept.
1 Rue de Provence
BP 208
38432 ECHIROLLES CEDEX
FRANCE
info@frec.bull.fr

Technical publications ordering form

To order additional publications, please fill in a copy of this form and send it via mail to:

BULL CEDOC
357 AVENUE PATTON
B.P.20845
49008 ANGERS CEDEX 01
FRANCE

Phone: +33 (0) 2 41 73 72 66
FAX: +33 (0) 2 41 73 70 66
E-Mail: srv.Dupilcopy@bull.net

CEDOC Reference #	Designation	Qty
__ _ [__]		
__ _ [__]		
__ _ [__]		
__ _ [__]		
__ _ [__]		
__ _ [__]		
__ _ [__]		
__ _ [__]		
__ _ [__]		
__ _ [__]		
__ _ [__]		
__ _ [__]		
__ _ [__]		
__ _ [__]		
[__] : The latest revision will be provided if no revision number is given.		

NAME: _____ Date: _____

COMPANY: _____

ADDRESS: _____

PHONE: _____ FAX: _____

E-MAIL: _____

For Bull Subsidiaries:

Identification: _____

For Bull Affiliated Customers:

Customer Code: _____

For Bull Internal Customers:

Budgetary Section: _____

For Others: Please ask your Bull representative.

BULL CEDOC
357 AVENUE PATTON
B.P.20845
49008 ANGERS CEDEX 01
FRANCE

REFERENCE No.
86 A2 62ER 01