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| eCIS Deployment |
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Revision History

Revisions made to this document throughout the project are recorded in this log. Each log entry includes the author’s name, the date on which changes were made, and a description of the revision.

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| --- | --- | --- | --- |
| Author | Date | Version | Description |
| Mark Proekt | 11-08-2010 | 1.0 | Initial version |
| Bill Reeder | 11/12/2010 | 1.1 | Added section 1.1.1 on configuring a Multi Data Source |
| Bill Reeder | 07/12/2013 | 1.2 | Update Security with new OASISSYSADMIN and OWSUSER groups and roles |
| Bill Reeder | 03/30/2014 | 1.3 | Added info on customApplicationConfigEnv.properties file |
| Mark Proekt | 02/29/2016 | 1.4 | Added JMS and Oracle ACL configuration |
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1. Application Configuration

* Un-zip the eCIS applications into your desired application directory where you plan to deploy it in WebLogic.
* Copy the **customApplicationConfigEnv.properties** from the \eCIS\WEB-INF\classes\dti folder into the **dti** sub-folder of the WebLogic domain directory. This file is intended to contain **environment-specific** properties shared by all OASIS web applications, such as the dbPoolId and environmentName property.

The WebLogic domain directory is located within the Oracle user\_projects\domains folder. For example, if WebLogic is installed on the E: drive under Oracle\Middleware, and the domain name is oasistest, the dti folder is located at E:\Oracle\Middleware\user\_projects\domains\oasistest\dti

* If you would like to specify changes to **non**-environment-specific properties shared by all OASIS web applications, such as the calendar.dateformat property, copy the **customApplicationConfig.properties** from the \eCIS\WEB-INF\classes\dti folder into the **dti** sub-folder of the WebLogic domain directory.
* If you would like specify custom properties for the eCIS application different than for other OASIS web applications, then copy the **customApplicationConfig-cs.properties** from the \eCIS\APP-INF\classes\dti folder into the **dti** sub-folder of the WebLogic domain directory. This file is used by the eCIS only. In most cases, this is not required.
* All changes should be made to the custom\*.properties files in the dti sub-folder of the WebLogic domain directory. If they are made to the files in the APP-INF\classes\dti folder, they will get overwritten during the next deployment.
  1. JDBC Data Source

Set the **dbPoolId** property in the customApplicationConfigEnv.properties file to the JNDI name of the desired Data Source without the 'jdbc/' prefix. For example:

dbPoolId=odev20131

* + 1. Multi Data Source for Oracle RAC environment

If you use a multi data source to connect to a database environment, such as the Oracle RAC environment, set the dbPoolId property to the multi data source name, and add a property to define a comma separated list of all the data sources that are included in the multi data source.

The format of the multi data source property is the data source name + "multidatasource”. For example if the multi data source was named "aspenv" and it contained the data sources "aspenv1" and "aspenv2", the dbPoolId would be set to:

dbPoolId=aspenv

and the multi data source property would be:

aspenv.multidatasource=aspenv1,aspenv2

* 1. Environment Display Name

Add the following definition to the **customApplicationConfigEnv.properties** file to configure the environment display name:

* **environmentName** – When set, environment is displayed on the Login page and across the banner on all pages. By default, this property is set to empty string.
  1. Context Root

If you plan to change the context root of the eCIS application to enable your WebLogic server to support multiple environments, you need to change 3 files before deploying application.

* + 1. application.xml
* Update the META-INF\application.xml file to add a prefix to the context-root element to signify the environment name. For example, for eCIS application in the environment name **odev20131**, change it from eCIS/wsCIS to **odev20131**/eCIS/wsCIS.
  + 1. customApplicationConfigEnv-envname.properties
* Copy the **customApplicationConfigEnv.properties** in the **dti** sub-folder of the WebLogic domain directory to a new name with the environment name added to the file name. For example, for the odev20131 environment, rename the file to   
  **customApplicationConfigEnv-odev20131.properties**.
  + 1. customApplicationConfig-envname.properties
* If you would like to specify changes to **non**-environment-specific properties, copy the **customApplicationConfig.properties** in the **dti** sub-folder of the WebLogic domain directory to a new name with the environment name added to the file name. For example, for the odev20131 environment, rename the file to   
  **customApplicationConfig-odev20131.properties**.
  + 1. customApplicationResources-envname.properties
* If you would like specify custom messages, copy the **customApplicationResources.properties** in the **dti** sub-folder of the WebLogic domain directory to a new name with the environment name added to the file name. For example, for the oodev20131 environment, rename the file to   
  **customApplicationResources-oodev20131.properties**
  + 1. applicationConfig.xml
* Update the applicationConfig.xml file in the eCIS\APP-INF\classes\dti folder to rename the dti/ customApplicationConfigEnv.properties value on about line 41 to the name of the new customApplicationConfigEnv.properties file for this environment. For example, for the odev20131 environment, set the filename to   
  **customApplicationConfigEnv-odev20131.properties**.

1. WebLogic Configuration
   1. JDBC Data Source

* Define a JDBC data source using “Oracle’s Driver (Thin) for Instance connections; Versions:9.0.1 and later” with '**jdbc/**' as a prefix of the JNDI name (ex. jdbc/odev20131)
  1. Security
     1. OASIS Web Service User

Configure a service account user to access all core web services:

* Define a user in the WebLogic Security Realm or Active Directory with a name that matches the desired user in the OASIS pfuser table.

Configure access to the application through a Group or a Role:

* + - 1. Authentication by Group
* Define a group named OWSUSER for access to all core web services. Create this group in the same security provider used to create the user (WebLogic Security Realm or Active Directory).
* Add the user as a member of the group.
* Optionally add a group named OASISSYSADMIN for access to refreshparms.jsp, checklogs.jsp, healthCheck.jsp. Add the user as a member of this group.
  + - 1. Authentication by Role
* Define a Global Role in WebLogic named OWSUSERROLE for access to all core web services.
* Define a Role Expression to assign the user or a group the user belongs to the role.
* Optionally define a global role named OASISSYSADMINROLE for access to refreshparms.jsp, checklogs.jsp, healthCheck.jsp. Define a Role Expression to assign the user or a group the user belongs to this role.
  + 1. System User

Configure admin user, used by the application to change password:

* Define a user in the Security Realm with name “admin”.
* Add user admin to group Administrator.
  + 1. SSL Communication

The wsCIS Web Services application is configured to require access through HTTPS to enforce SSL communication by defining WS-Security policies for the services in the eCIS/wsCIS/WEB-INF/weblogic-webservices-policy.xml deployment descriptor. Ensure that the WebLogic service is **configured** to enable the SSL Listen Port. This is configured on the Configuration 🡪 General tab of the Server configuration for the Managed server.

If you wish to modify the WS-Security Profile configuration, you may remove the weblogic-webservices-policy.xml file, and use the WebLogic console to configure WS-Security policy(s).

* + 1. JMS configuration

JMS service required for notification services.

Configuration of JMS on application side can be found in the applicationConfig-cs.properoties as shown below. This can be overridden in the custom configuration.

#################################################################################

### party notification JMS server

### destinationType: TOPIC or QUEUE, this is used to indicate which type is using

#################################################################################

party.notification.JMS.connectionJNDIName=jms/partyNotificationConnection

party.notification.JMS.topicJNDIName=jms/partyNotificationMessageTopic

party.notification.JMS.queueJNDIName=jms/partyNotificationMessageQueue

party.notification.JMS.destinationType=TOPIC

WebLogic Server side configuration should include setting up JMS Server, JMS Module and adding Connection factory as well as Message Topic or Message Queue.

The JNDI values setting should be the same as setup in the properties file (see above).

* + 1. Oracle ACL settings

Notification services require setting up HTTP connection between PLSQL HTTP client on Oracle side and the PartyEventWebService deployed on WebLogic Server as part of eCIS application.

To allow communication via HTPP protocol Oracle should have ACL for the service using following. The preferred setup is for Oracle PLSQL Services should access the WebLogic Server directly using http, not through proxy services. If HTTPS is required, additional setup will be required to configure the Oracle Wallet which holds all certificates.

BEGIN

DBMS\_NETWORK\_ACL\_ADMIN.CREATE\_ACL(acl => ‘partyNotification’, -- ACL name

description => ‘partyNotification’, -- ACL description

principal => 'SCOTT', -- Principal (database user or role) to whom the privilege

is granted or denied. Case sensitive.

is\_grant => true,

privilege => 'connect');

DBMS\_NETWORK\_ACL\_ADMIN.ADD\_PRIVILEGE(acl => ' partyNotification ',

principal => 'SCOTT',

is\_grant => true,

privilege => 'resolve');

DBMS\_NETWORK\_ACL\_ADMIN.ASSIGN\_ACL(

acl => ‘partyNotification’,

host => 'www.us.oracle.com' – Host to which the ACL will be assigned.

The host can be the name or the IP address of the host.

A wildcard can be used to specify a domain or an IP subnet.

The host or domain name is case-insensitive

lower\_port => <port number>, --Lower bound of a TCP port range if not NULL

upper\_port => <port number> --Upper bound of a TCP port range. If NULL,

lower\_port is assumed

);

END;

/

COMMIT;

The following

* 1. Deploy the eCIS Application

Use the WebLogic console to install the applications.

* Make sure you activate the changes after installing the application.
* After Activating the changes, you must select the application and choose “Start 🡪 Servicing all requests” before you can access the application through the web browser.

1. Contents of Applications
   1. APP-INF

Java classes and configuration files for the eCIS application.

* 1. META-INF

Configuration files for the eCIS application, including the application.xml file.

* 1. wsCIS.war

The eCIS Web Services web application (WAR) exploded directory.

1. Testing

TBD