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The Oracle Real-Time Integration Business Insight Administrator’s Guide provides details about the administrative tasks that an Insight Administrator needs to perform in the Oracle Real-Time Integration Business Insight product.

Audience

This book is intended for the users with an Administrator role who use the Oracle Real-Time Integration Business Insight application for their business needs.

It is assumed that you have basic knowledge of the following:

- Oracle WebLogic Server console
- What is running on the WebLogic Servers
- Oracle Business Intelligence Publisher (BI Publisher).

For more information, see Adding Users/Groups to Pre-defined Roles.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

For more information, see these Oracle Resources:

- Understanding Oracle Real-Time Integration Business Insight
- Getting Started with Oracle Real-Time Integration Business Insight
- Using Oracle Real-Time Integration Business Insight.
## Conventions

The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td>monospace</td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
Oracle Real-Time Integration Business Insight is an application designed for business users and provides a business-friendly experience. The administrators can perform many actions like adding users/groups, configuring data connections, configuring reports, purging, and cleaning data objects and projects at regular intervals.

Oracle Real-Time Integration Business Insight provides a web-based feature to allow to business users to:

- Model business concepts easily
- Map to implementation naturally
- Monitor business progress immediately
- Efficiently monitor workflow and runtime through
  - Zero development effort
  - Minimal impact to runtime
- Access advanced analytics through exposed star-schema
- Access bundled reporting capabilities.

Differences Between Using this Component in the Cloud and On-Premises Environments

There may be differences between using this component in the cloud and on-premises environments that impact the information described in this guide.

For information about differences, see Differences Between the Cloud and On-Premises Environments and Known Issues for Oracle SOA Cloud Service.

Introduction to Insight

Oracle Real-Time Integration Business Insight (also known as Insight) puts business users in control by allowing them to model, collect and monitor business-level metrics without reliance on the Information Technology personnel.

The Insight Administrator needs to perform certain tasks for the application to function properly:

- Create users and assign them appropriate role privileges
- Set up connections to SOA or Service Bus Servers
- Configure and set up the reporting functionality.
Understanding Users and Their Roles

Oracle Real-Time Integration Business Insight has a variety of user personas. Each user has a defined set of roles and the areas of the application the user can access varies based on the permissions attached to the user role.

The following user personas are available and have an application role associated with each:

- **InsightBusinessUser**
  - Thinks in business terms like:
    * Process Milestones
    * Business Facts
    * Service levels.

- **InsightIntegrationArchitect**
  - Understands implementation of:
    * Software Architecture
    * Process Topology
    * Application Structure.

- **InsightExecutive**
  - Has access to dashboards. Can:
    * Create dashboards
    * Edit dashboards
    * View dashboards.

- **InsightAdmin**
  - Super user with all privileges in the application. Can create users and assign role permissions provided this user has the appropriate permissions and privileges in Oracle WebLogic and Oracle Enterprise Manager consoles:
    * Create users and assign role permissions
    * Configure reports
    * Create and manage data connections.

- **InsightModelCreator**
  - Has role privileges to:
    * Create models
    * Edit models
    * View models.
This user is the owner of the model.

- *InsightConnectionCreator*
  - Has role permissions to:
    * Create connections to servers
    * Edit connections
    * Delete connections
    * Test and configure connections.

Only users with *InsightAdmin* or *InsightConnectionCreator* role privileges can manage the connections.

The *InsightAdmin* user has the privileges to create as many users as required and to assign the users with appropriate role permissions, provided this user also has the appropriate permissions and privileges on the Oracle WebLogic Server and Oracle Enterprise Manager consoles. In general, it is common for a user to have multiple role privileges. For example, a user Karl can be *InsightAdmin, InsightModelCreator*, and *InsightIntegrationArchitect* as well. The number of users and their role permissions are governed by the business need.

For more information, see *Adding Users/Groups to Pre-defined Roles*. 
Adding Users/Groups to Pre-defined Roles

User roles determine the tasks or activities that a user can perform in the application. Users exist individually or in groups.

Before you can add users/groups to pre-defined roles, you need to:


Oracle Real-Time Integration Business Insight provides six pre-defined roles along with the installation. A Role is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members. Application role is the set of privileges or permissions a user or a group of users has within the application.

If you need to edit/create roles, you must have Admin access to the Oracle Enterprise Manager Fusion Middleware Console.

**Editing Users Associated with a Role**

To add/delete users or groups associated with an existing role:

1. Log in to the Oracle Enterprise Manager console as an administrator.

2. Go to WebLogic Domain > Security > Application Roles.
   The Application Roles page opens.
3. Select *Insight* as the Application Stripe.

4. Click the arrow against the Role Name field to populate all the existing roles.

5. Select the role to which you want to add/delete users and click Edit.
   
The Edit Application Role page opens.

6. Edit the Display Name and Description if required.

7. Click Add.
   
The Add Principal dialog opens.
8. Select Application Role, Group or User as the Type. If you select Group, all the users in that group will be affected.

9. Search for the user or the group based on the Principal Name or the Display Name.

10. Select the check box under the Advanced Options to enter principal name instead of searching.
    
    a. Enter a Principal Name. This is a mandatory field.
    
    b. Enter a Display Name.

11. Click OK.

The selected role permission is edited.

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**Important:** Any user who needs permission to access the consoles and the dashboards must be associated with the **BAMContentCreator** group. For detailed instructions about associating users with groups, see [http://docs.oracle.com/html/E24401_02/taskhelp/security/AddUsersToGroup.html](http://docs.oracle.com/html/E24401_02/taskhelp/security/AddUsersToGroup.html).

For instructions about deleting groups and users, see [http://docs.oracle.com/html/E24401_02/taskhelp/security/ManageUsersAndGroups.html](http://docs.oracle.com/html/E24401_02/taskhelp/security/ManageUsersAndGroups.html).
Oracle Real-Time Integration Business Insight provides the ability for business users to create an abstract model of an application, and then map that model to implementation on various Oracle Fusion Middleware technologies such as SOA Suite and Service Bus. Mapped models can then be activated and the system observes the application for business activity. Both mapping and runtime extraction of metrics is done using data connections.

Data connections allow the system to communicate with a runtime engine, and must be configured with appropriate location and authentication information. These integrations are hosted on various technologies such as SOA and Service Bus.

You can use the Real-Time Integration Business Insight REST API to collect metrics for integrations that are not implemented using compatible versions of SOA Suite or Service Bus.

A user with the role permissions of an **InsightAdmin** or an **InsightConnectionCreator** have the privilege to create and manage connections. For more information about data connections, see Working with Data Connections in *Using Oracle Real-Time Integration Business Insight*.

**Creating a Data Connection**

Only users with the role **InsightConnectionCreator/InsightAdmin** can create connections.

To create a data connection:

1. Click the **Administration** tab or the navigational shortcut on the **Home** page.
   
   The **Data Connections** page opens.

2. Click **Create Connection**.
   
   The **Create Connection** dialog opens.

3. Enter the following details:
   
   a. **Name**: an appropriate name for the connection
   b. **ID**: enter a unique ID for the connection. By default, this field is populated by the value you entered in the **Name** field.
   c. **Description**: enter a suitable description for the connection
   d. **Type**: select the type of connection, SOA or Service Bus
   e. **Host Name**: the host name for the connection
Note: You can create a connection to a SOA Suite Server or Service Bus running within the same domain or on a different domain. The SOA Suite / Service bus Insight Agents should be running on the SOA Suite/Service bus servers for the insight data connections to connect to them. Also note that this version of Insight does not support multiple instances of Insight that are mapped to a single agent.

f. Port Number: an appropriate port number for the connection

g. Select SSL Enabled if you want the connection to be enabled with SSL.

Note: When creating a connection to SOA Suite/Service Bus SOA Cloud Service instances, you must use the Public IP address of the instance, select SSL Enabled, and use port 443, regardless of the port you normally use to access the instance.

h. Login: the user name to be used for the connection

i. Password: the password to be used for the connection

4. Click Test Connection to test if a successful connection is established to the Server with the provided parameters.

   If the connection is established successfully, you see a Configured message.
   For more information, see Testing a Data Connection.

5. Click Create.
After a connection is created, there are 3 states a connection can be in.

- **Draft** state if the connection has not been tested yet
- **Configured** state if the connection has been tested either while creating or editing it, and the test has passed
- **Disconnected** state if the connection has been tested either while creating or editing it, and the test has failed.

**Editing a Data Connection**

Only users with the role `InsightConnectionCreator/InsightAdmin` can edit/update connections.

To edit a connection:

1. Click the **Administration** tab or the navigational shortcut on the **Home** page.
The **Data Connections** page opens.

2. Click the **Edit** icon (the pencil icon) next to the connection you want to edit.

![Edit Connection](image1.png)

The **Edit Connection** dialog opens.

![Edit Connection Dialog](image2.png)

3. Click **Retest Connection** to test the connection with the changes you have made.

   The connection state changes to **Configured** if the test passes or **Disconnected** if the test fails.

4. Make the required updates and click **Save**.
The data connection is edited with the changes you made.

**Testing a Data Connection**

Testing a data connection is essential, because it ensures that the credentials entered are valid and the connection can be used for implementation.

You can use tested connections for implementing mappings in new models. Only users with the role *InsightConnectionCreator/InsightAdmin* can test connections.

To test a data connection:

1. Click the **Administration** tab or the navigational shortcut on the **Home** page.
   
   The **Data Connections** page opens.

2. Click the **Test Connection** icon against the connection you want to test.

   The state of the connection changes to **Configured** if the test passes. Else the state changes to **Disconnected** if the test fails. The test may fail because of either of the following reasons:

   - the provided credentials are incorrect
   - the Server referred to in the connection is unavailable.

   ![Figure 3-4  Connection Tested](image)

3. Click **Test All** on the **Data Connections** page to test all the connections at a time.

   **Note:** You cannot test the connections with the **Test All** button if the connections are in **Draft** state.

**Deleting a Data Connection**

You can delete data connections that are no longer in use. Only users with the role *InsightConnectionCreator/InsightAdmin* can delete data connections.

To delete a data connection:

1. Click the **Administration** tab or the navigational shortcut on the **Home** page.

   The **Data Connections** page opens.

2. Click the **Delete Connection** icon against the connection you want to delete.

   The **Delete Connection** icon will be enabled only if the data connection is in a:

   - **Disconnected** state
   - **Draft** state
   - **Configured** state but not used in any active model.
Note: You cannot delete a data connection if it is being used in an activated model.

Figure 3-5  Delete Icon for a Data Connection

The selected data connection is deleted.
Reports are not supported in Oracle Real-Time Integration Business Insight Cloud instances.

The Reports tab remains visible, but you can’t configure reports on this page.
Purging permanently removes data from the Insight Event Store. The metrics collected as part of Insight need to be purged based on a configuration to maintain database growth and application performance.

The data for Insight is stored in the Insight Event Store and in the Business Activity Monitoring Data Objects created for each of the Insight activated models. Data in these two sources needs to be purged periodically based on configuration provided through the ConfigMBean of Insight.

**InsightConfigBean Parameters**

Configurable MBeans and MBean parameters determine the purge settings for data objects and events in Insight.

The following configurable parameters will be made available as part of the InsightConfigBean. The mBean is as follows:

```java
com.oracle.procmon.engine.management.mbeans.impl:name=InsightConfigBean,type=ConfigMBean,Application=insight
```

**Parameters**

The details of the parameters are described below:

- **BAMMetricsRetentionPeriod** — this parameter controls the retention period of the metrics captured as part of BAM Data Objects. The default value is 90 days. Once the attribute is updated, the retention period of BAM Data Objects of all activated models gets updated with the same value. A value of 0 signifies that the metrics will be retained indefinitely and never be purged.

- **EventStoreRetentionPeriod** — this parameter controls the retention period of the raw events captured. The default value is -1, which implies that table data will be purged immediately once they are processed and metrics published in BAM. A value of 0 implies that data will not be purged. A change in value of this attributes needs a server restart for the purge job to take effect.

**Purging Events Captured in Event Store**

Insight events generated by agents are persistent in the database tables. A purge job runs to purge data based on the EventStoreRetentionPeriod attribute in InsightConfigBean attribute comparing the CREATION_DATE column.

The default value is -1, which means the purge job will always be running in background and deletes events once they are processed. Once a non-zero value is configured in the mBean, a server restart is required for the purge job to pick up the configured value. Any events older than the retention period (comparing CREATION_DATE column will be deleted.
You can purge only successful events.

**Purging Metrics Captured in BAM Data Objects**

During activation of a model, BAM Data Objects specific to the model get created. To purge the metrics captured in these Data Objects, you need to leverage the BAM data retention feature. Based on the `BAMMetricsRetentionPeriod` in the `InsightConfigBean`, the retention period of the data in these Data Objects will be set. The default value is 90. BAM internal jobs will take care of purging of metrics created beyond the retention period. A nightly job takes care of the purging, the time of running the purge job is done through the BAM configuration. An update of `InsightConfigBean` attribute results in immediate update of the retention period of all activated model Data Objects. The BAM metrics are a global configuration and not model specific.