# **Oracle® Argus Insight**

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Oracle Argus Insight Extensibility Guide, Release 8.0

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# Preface

The *Oracle Argus Insight Extensibility Guide* describes the steps to extend Argus Insight 8.0 for the Advanced Conditions, Code Lists, ETL, and Reporting.

This preface includes the following topics:

- Documentation Accessibility
- Finding Information and Patches on My Oracle Support
- Finding Oracle Documentation
- Conventions

# **Documentation Accessibility**

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#### Access to Oracle Support

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# Finding Information and Patches on My Oracle Support

Your source for the latest information about Argus Insight is Oracle Support's self-service website My Oracle Support.

Before you install and use Argus Insight, always visit the My Oracle Support website for the latest information, including alerts, White Papers, and bulletins.

#### Creating a My Oracle Support Account

You must register at My Oracle Support to obtain a user name and password account before you can enter the website.

To register for My Oracle Support:

- 1. Open a web browser to https://support.oracle.com.
- Click the Register link to create a My Oracle Support account. The registration page opens.

3. Follow the instructions on the registration page.

#### Signing In to My Oracle Support

To sign in to My Oracle Support:

- 1. Open a web browser to https://support.oracle.com.
- 2. Click Sign In.
- **3.** Enter your user name and password.
- 4. Click Go to open the My Oracle Support home page.

#### **Finding Information on My Oracle Support**

There are many ways to find information on My Oracle Support.

#### Searching by Article ID

The fastest way to search for information, including alerts, White Papers, and bulletins is by the article ID number, if you know it.

To search by article ID:

- 1. Sign in to My Oracle Support at https://support.oracle.com.
- 2. Locate the Search box in the upper right corner of the My Oracle Support page.
- **3.** Click the sources icon to the left of the search box, and then select **Article ID** from the list.
- 4. Enter the article ID number in the text box.
- **5.** Click the magnifying glass icon to the right of the search box (or press the Enter key) to execute your search.

The Knowledge page displays the results of your search. If the article is found, click the link to view the abstract, text, attachments, and related products.

#### **Searching by Product and Topic**

You can use the following My Oracle Support tools to browse and search the knowledge base:

- Product Focus On the Knowledge page under Select Product, type part of the
  product name and the system immediately filters the product list by the letters
  you have typed. You do not need to type "Oracle". Select the product you want
  from the filtered list and then use other search or browse tools to find the
  information you need.
- Advanced Search You can specify one or more search criteria, such as source, exact phrase, and related product, to find information. This option is available from the Advanced link on almost all pages.

#### **Finding Patches on My Oracle Support**

Be sure to check My Oracle Support for the latest patches, if any, for your product. You can search for patches by patch ID or number, or by product or family.

To locate and download a patch:

- 1. Sign in to My Oracle Support at https://support.oracle.com.
- **2.** Click the **Patches & Updates** tab. The Patches & Updates page opens and displays the Patch Search region. You have the following options:

- In the Patch ID or Number field, enter the number of the patch you want. (This number is the same as the primary bug number fixed by the patch.) This option is useful if you already know the patch number.
- To find a patch by product name, release, and platform, click the **Product or Family** link to enter one or more search criteria.
- 3. Click Search to execute your query. The Patch Search Results page opens.
- **4.** Click the patch ID number. The system displays details about the patch. In addition, you can view the Read Me file before downloading the patch.
- **5.** Click **Download**. Follow the instructions on the screen to download, save, and install the patch files.

# **Finding Oracle Documentation**

The Oracle website contains links to all Oracle user and reference documentation. You can view or download a single document or an entire product library.

#### **Finding Oracle Health Sciences Documentation**

To get user documentation for Oracle Health Sciences applications, go to the Oracle Health Sciences documentation page at:

http://www.oracle.com/technetwork/documentation/hsgbu-154445.html

**Note:** Always check the Oracle Health Sciences Documentation page to ensure you have the latest updates to the documentation.

#### **Finding Other Oracle Documentation**

To get user documentation for other Oracle products:

**1.** Go to the following web page:

http://www.oracle.com/technology/documentation/index.html

Alternatively, you can go to http://www.oracle.com, point to the Support tab, and then click **Documentation**.

- 2. Scroll to the product you need and click the link.
- **3.** Click the link for the documentation you need.

# Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

# Introduction

1

You can extend Argus Insight 8.0 in the following ways:

- Advanced Conditions
- Code Lists
- ETL
- Reporting

This flexibility allows you to expand the application's functionality in various areas in order to meet your specific needs.

This chapter provides a basic overview about the topics that have been covered in this guide.

Chapter Name	Description
Introduction	This chapter provides a basic overview about the topics that have been covered in this guide.
Advanced Conditions Extensibility	This chapter provides extensibility information about Advanced Conditions to create and configure new custom fields.
Code List Extensibility	This chapter provides extensibility information about using the Flexible Data Recategorization for code lists.
ETL Extensibility	This chapter provides extensibility information about custom routines to configure procedures through ETL to perform custom actions.
Reporting Extensibility	This chapter provides extensibility information specific to the Reporting Tools (Business Intelligence Publisher, BusinessObjects, Cognos, and Oracle Business Intelligence Enterprise Edition).

Table 1–1 Components of the Extensibility Guide

# **Advanced Conditions Extensibility**

You can extend the feature of performing the search using the advanced conditions by creating queries on new fields defined with custom configurations.

This document covers the steps involved in creating and configuring the new custom fields for both Insight Mart and Argus Mart. To configure the new fields, you may need to do some configuration in the following tables:

- CMN\_FIELDS See Section 2.1, "Configuring CMN\_FIELDS Table."
- CMN\_FIELD\_CONFIGURATION See Section 2.2, "Configuring CMN\_FIELD\_ CONFIGURATION Table."
- CMN\_COMPLEXFIELD\_CONFIGURATION See Section 2.3, "Configuring CMN\_COMPLEXFIELD\_CONFIGURATION Table."

# 2.1 Configuring CMN\_FIELDS Table

You can configure the advance condition extensibility columns for the new field ID in the database table CMN\_FIELDS as given below:

Column	Sample Value for Insight Mart	Sample Value for Argus Mart	Description
ENTERPRISE_ID	3	3	Defines the current Enterprise ID.
			This is a mandatory column.
FIELD_ID	3000000	3000000	Defines the Argus Insight new field ID that must be unique and must be in the following range:
			<ul> <li>For customers: 30000000 - 399999999</li> </ul>
			<ul> <li>For partners: 40000000 - 499999999</li> </ul>
			All other IDs are reserved for Oracle.
			This is a mandatory column.
FIELD_LABEL	Custom Product Country	Custom Product Country	Defined the field label having maximum length of 200 characters.
			This is a mandatory column.

Table 2–1 CMN\_FIELDS Column Details

Column	Sample Value for Insight Mart	Sample Value for Argus Mart	Description
TABLE_NAME	V_RPT_PRODUCT	CASE_PRODUCT	Defines the table name that contains the column for search criteria. The maximum length for the table name is 50 characters.
			This is a mandatory column.
COLUMN_ NAME	COUNTRY_ID	COUNTRY_ID	Defines the column name for the search criteria. This column name must exist in table populated in TABLE_NAME. The maximum length of this column is 50 characters.
			This is a mandatory column.
JOIN_FIELD	COUNTRY_ID	COUNTRY_ID	Defines the column name if this field is of drop-down type on UI. This column contains the name of column that you want to use for join condition between the tables populated in TABLE_NAME and SELECT_TABLE.
			This is an optional column.
SELECT_TABLE	LM_COUNTRIES	LM_COUNTRIES	Defines the table name if this field is of drop-down type on UI. This column contains the name of table that you want to use to populate the drop-down values.
			This is an optional column.
SELECT_ COLUMN	COUNTRY	COUNTRY	Defines the column name if this field is of drop-down type on UI. This column contains the name of column that you want to use to populate for the drop-down values.
			This is an optional column.
ADV_COND_ FIELD	1	1	Contains the value for the new field ID as 1.
			This is a mandatory column.
TREE_VIEW	PRODUCTS:Produ ct Information	PRODUCTS:Produ ct Information	Defines the hierarchical structure of field in advance condition tree on Advance Condition Editor page.
			The first level and second level node of the tree must be separated by character ":".
			For example, <b>First Level Tree</b> Node: Second Level Tree Node
			This is a mandatory column.

 Table 2–1 (Cont.) CMN\_FIELDS Column Details

Column	Sample Value for Insight Mart	Sample Value for Argus Mart	Description
SQL_SELECT	ELECT SELECT 1 ID, 'UNITED STATE' STATUS FROM DUAL UNION SELECT 2, 'UNITED KINGDOM' FROM	SELECT 1 ID, 'UNITED STATE' STATUS FROM DUAL UNION SELECT 2, 'UNITED KINGDOM' FROM	Defines the SQL query if this field is of drop-down type on UI. This column contains the selected query that you want to use to populate the drop-down values. This select query must contain the columns ID and STATUS.
	SELECT 3, 'INDIA' FROM DUAL	SELECT 3, 'INDIA' FROM DUAL	Note: If this column is configured then the values configured in columns SELECT_COLUMN, SELECT_TABLE and JOIN_FIELD will be ignored.
			This is an optional column.
HIDDEN	0	0	Contains the value for the new field ID as 0.
			This is a mandatory column.
CONTROL_ TYPE_ID	2	2	Defines the ID of the control that you want to display on UI.
			Refer to the table CMN_ CONTROL_TYPE for supported Control Type ID.
			1 - Textbox
			2 - Dropdown
			3 - DatePicker
			4 - DateTimePicker
			5 - Numeric Control Type
			This is a mandatory column.
ADDITIONAL_ TABLE_LIST	RPT_EVENT	CASE_EVENT	Defines the comma separated table list that is to be added in From clause of final SQL query except table name entered in the column Table_Name, and:
			<ul> <li>V_RPT_CASE (in case of Insight Mart)</li> </ul>
			<ul> <li>CASE_MASTER (in case of Argus Mart)</li> </ul>
			This field is required only if any additional join tables are required.
			This is an optional column.
ADDITIONAL_ WHERE	V_RPT_ PRODUCT.SEQ_ NUM = RPT_ EVENT.SEQ_NUM	CASE_ PRODUCT.SEQ_ NUM = CASE_ EVENT.SEQ_NUM	Defines the additional Where clause that you want to add in the final SQL query of advance condition.
	PRODUCT. COUNTRY_ID > 0	PRODUCT. COUNTRY_ID > 0	This is an optional column.
DATA_ SOURCE_ID	1	2	Defines the value of the target data source (Insight Mart/Argus Mart).
			This is a mandatory column.

 Table 2–1 (Cont.) CMN\_FIELDS Column Details

To configure remaining columns of the database table CMN\_FIELDS, refer to the DBA Guide.

# 2.2 Configuring CMN\_FIELD\_CONFIGURATION Table

The Argus Insight supports different field types. The field ID that belongs to one or more field types must be configured in the database table CMN\_FIELD\_ CONFIGURATION.

**Note:** One field can belong to one or more field types.

Field Type ID	Field Type	Description
1	SMQ_NARROW	The field configured as SMQ_NARROW field type identifies cases that are highly likely to represent the condition of interest. Narrow search consists of all PTs that indicate the condition with great certainty.
		To configure this field type, see Section 2.2.1, Configuring SMQ_NARROW Field Type.
2	SMQ_BROAD	The field configured as SMQ_BROAD field type identifies all possible cases, including some that may prove to be of little or no interest on closer inspection. Those are highly likely to represent the condition of interest.
		Field as SMQ_BROAD field type search includes both the <b>narrow</b> terms and the additional <b>broad</b> terms, often of less-specific nature.
		To configure this field type, see Section 2.2.2, Configuring SMQ_BROAD Field Type.
3	MEDDRA	The field configured as MEDDRA field type enables the MedDRA menu to open MedDRA browser.
		To configure this field type, see Section 2.2.3, Configuring MEDDRA Field Type.
4	WHO	The field configured as WHO field type enables the WHO menu to open WHO Drug browser.
		To configure this field type, see Section 2.2.4, Configuring WHO Field Type.
5	COMPANY_DRUG	The field configured as COMPANY_DRUG field type enables the Company Drug menu to open Product browser.
		To configure this field type, see Section 2.2.5, Configuring COMPANY_DRUG Field Type.
6	INGREDIENT	The field configured as INGREDIENT field type enables the Ingredient menu to open Ingredient browser.
		To configure this field type, see Section 2.2.6, Configuring INGREDIENT Field Type.
7	MINUTES_ CALCULATOR	The field configured as MINUTES_CALCULATOR field type enables the Minutes Calculator menu to open Minutes Calculator browser.
		To configure this field type, see Section 2.2.7, Configuring MINUTES_CALCULATOR Field Type.

Table 2–2 Argus Insight Supported Field Types

Field Type		
ID	Field Type	Description
8	LITERATURE	The field configured as LITERATURE field type enables the Literature menu to open Literature browser.
		To configure this field type, see Section 2.2.8, Configuring LITERATURE Field Type.
9	EVENT_LICENSE	The field configured as EVENT_LICENSE field type enables the Event License menu to open Event License browser.
		To configure this field type, see Section 2.2.9, Configuring EVENT_LICENSE Field Type.
10	STUDY_DRUG	The field configured as STUDY_DRUG field type enables the Study Drug menu to open Product browser.
		To configure this field type, see Section 2.2.10, Configuring STUDY_DRUG Field Type.
11	CLINICAL_STUDY_ LOOKUP	The field configured as CLINICAL_STUDY_LOOKUP field type enables the Literature menu to open Clinical Study Lookup browser.
		To configure this field type, see Section 2.2.11, Configuring CLINICAL_STUDY_LOOKUP Field Type.
12	BATCH_LOT_NO	The field configured as BATCH_LOT_NO field type enables the Batch Lot # menu to open Batch/Lot Number browser.
		To configure this field type, see Section 2.2.12, Configuring BATCH_LOT_NO Field Type.
13	INVESTIGATIONAL_ DRUG	The field configured as INVESTIGATIONAL_DRUG field type enables the Investigational Drug menu to open Investigational Drug browser.
		To configure this field type, see Section 2.2.13, Configuring INVESTIGATIONAL_DRUG Field Type.
14	CO_DRUG_CODE_ WITH_STUDY	The field configured as CO_DRUG_CODE_WITH_STUDY field type enables the Co-Drug Code menu to open Batch/Lot Number browser.
		To configure this field type, see Section 2.2.14, Configuring CO_DRUG_CODE_WITH_STUDY Field Type.
15	DVB	The field configured as DVB field type enables the specific range called Duration Value Bands.
		To configure this field type, see Section 2.2.15, Configuring DVB Field Type.
16	GENERIC	The field configured as GENERIC field type enables the Generic Name menu to open Generic Name browser.
		To configure this field type, see Section 2.2.16, Configuring GENERIC Field Type.
17	PATIENT_HISTORY	The field configured as PATIENT_HISTORY field type is considered as information of the patient.
		To configure this field type, see Section 2.2.17, Configuring PATIENT_HISTORY Field Type.

Table 2–2 (Cont.) Argus Insight Supported Field Types

Field Type		
ID	Field Type	Description
18	PARTIAL_DATE	The field configured as PARTIAL_DATE field type allows the user to enter the partial date.
		To configure this field type, see Section 2.2.18, Configuring PARTIAL_DATE Field Type.
19	CLOB	The field configured as COLB field type is considered as field with data type CLOB of column configured in CMN_FIELDS.COLUMN_NAME.
		To configure this field type, see Section 2.2.19, Configuring CLOB Field Type.
20	PARENT_HISTORY	The field configured as PARENT_HISTORY field type is considered as information about patient's parent.
		To configure this field type, see Section 2.2.20, Configuring PARENT_HISTORY Field Type.

Table 2–2 (Cont.) Argus Insight Supported Field Types

# 2.2.1 Configuring SMQ\_NARROW Field Type

You can configure a field id as SMQ\_NARROW field type. This field type identifies cases that are highly likely to represent the condition of interest. Narrow search consists of all PTs that indicate the condition with great certainly.

To configure the new field ID as SMQ\_NARROW field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	1	SMQ_NARROW
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	PT/LLT/ADDITION	This column contains the key as PT, LLT, or ADDITIONALWHERE.
	ALWHERE	One row for each PT (Preffered Term) and LLT (Low Level Term) is mandatory while row with key as ADDITIONALWHERE is optional.
VALUE	RPT_EVENT.ART_	If KEY= PT then
	CODE/ RPT_EVENT.INC_	Add < <table name="">&gt;.&lt;<column name="">&gt; which contains PT code.</column></table>
	CODE/ RPT_ EVENT.ISPRIMARY = 1	If KEY= LLT then
		Add < <table name="">&gt;.&lt;<column>&gt; name which contains LLT code.</column></table>
		If KEY= ADDITIONALWHERE then
		If any additional WHERE condition is required.

Table 2–3 Configurations for Field Type SMQ\_NARROW

**Note:** You can also refer to existing field EVENTS >Primary Event > Event SMQ (Narrow), (CMN\_FIELDS.Field\_ID - 201760627) of SMQ\_NARROW field type.

# 2.2.2 Configuring SMQ\_BROAD Field Type

You can configure a field ID as SMQ\_BROAD field type. This field type identifies all possible cases, including some that may prove to be of little or no interest on closer inspection. Those are highly likely to represent the condition of interest. This field type search includes both the **narrow** terms and additional **broad** terms, often of less-specific nature.

To configure the new field ID as SMQ\_BROAD field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	2	SMQ_BROAD
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	PT/LLT/ADDITION ALWHERE	This column contains the key as PT, LLT or ADDITIONALWHERE.
		One row for each PT and LLT is mandatory while row with key as ADDITIONALWHERE is optional.
VALUE	RPT_EVENT.ART_ CODE/ RPT_EVENT.INC_ COD/ RPT_ EVENT.ISPRIMARY = 1	If KEY= PT then
		Add < <table name="">&gt;.&lt;<column name="">&gt; which contains PT code.</column></table>
		If KEY= LLT then
		Add < <table name="">&gt;.&lt;<column>&gt; name which contains LLT code.</column></table>
	1	If KEY= ADDITIONALWHERE then
		If any additional WHERE condition is required.

Table 2–4 Configurations for Field Type SMQ\_BROAD

**Note:** You can also refer to existing field EVENTS > Primary Event > Event SMQ (Broad), (CMN\_FIELDS.Field\_ID - 201760628) of SMQ\_NARROW field type.

# 2.2.3 Configuring MEDDRA Field Type

You can configure a field id as MedDRA field type. This field type enables you to open the MedDRA browser from menu. With this browser you can search the following:

- HLGT High Level Group Term
- HLT High Level Term
- LLT Low Level Term
- PT Preferred Term
- SOC System Organ Class

To configure the new field ID as MEDDRA field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	3	MEDDRA
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	SOC_CODE	Enter the Return Type text.
		See Table 2–6, " Supported Return Type Key/Value for Field Type MEDDRA".
		This is a mandatory column.
VALUE	1	Enter the Return Type ID.
		See Table 2–6, " Supported Return Type Key/Value for Field Type MEDDRA".
		This is a mandatory column.

Table 2–5 Configurations for Field Type MEDDRA

**Note:** You can also refer to existing field EVENTS > Primary Event > Event SMQ (Narrow), (CMN\_FIELDS.Field\_ID - 201760627) of SMQ\_NARROW field type.

#### Supported Return Type Texts and IDs (Key/Value):

The MedDRA browser returns one the following texts as per the return type configured against the new field ID to the Advance Condition Editor page.

Table 2–6	Supported Return	Type Key/Value for	Field Type MEDDRA
-----------	------------------	--------------------	-------------------

	Return Type ID
SOC_CODE	1
SOC_NAME	2
HLGT_CODE	3
HLGT_NAME	4
HLT_CODE	5
HLT_NAME	6
PT_CODE	7
PT_NAME	8
LLT_CODE	9
LLT_NAME	10

**Note:** You can also refer to existing field EVENTS > Event Information > Event Body System Code, (CMN\_FIELDS.Field\_ID -201450542) of MEDDRA field type.

# 2.2.4 Configuring WHO Field Type

You can configure a field id as WHO field type. This field type enables you to open the WHO browser from menu. This browser searches the product from WHO Drug Dictionary. With this browser you can search for the following:

- ATC Code/Description
- Country
- Formation
- Ingredient
- Medical Prod ID
- Trade Name

To configure the new field ID as WHO field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Table 2–7 Configurations for Field Type WHO

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	4	WHO
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	PROD_NAME	Enter the Return Type text.
		See Table 2–8, " Supported Return Type Key/Value for Field Type WHO".
		This is a mandatory column.
VALUE	1	Enter the Return Type ID.
		See Table 2–8, " Supported Return Type Key/Value for Field Type WHO".
		This is a mandatory column.

#### Supported Return Type Texts and IDs (Key/Value):

The WHO browser returns one the following texts as per the return type configured against the new field ID to the Advance Condition Editor page.

Table 2–8 Supported Return Type Key/Value for Field Type WHO

Return Type Text	Return Type ID	
PROD_NAME	1	
ATC_DESC	2	
ATC_CODE	3	
DRUG_CODE	4	
MED_PROD_ID	5	

**Note:** You can also refer to existing field Products > Product Drug/Vaccine > Drug Code, (CMN\_FIELDS.Field\_ID - 203650840) of WHO field type.

# 2.2.5 Configuring COMPANY\_DRUG Field Type

You can configure a field ID as COMPANY\_DRUG field type. This field type enables the Company Drug menu to open the Product browser. With this browser you can search the following:

- Ingredient
- Product Family
- Product Name
- Trade Name

To configure the new field ID as COMPANY\_DRUG field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	5	COMPANY_DRUG
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	PRODUCT_NAME	Enter the Return Type text.
		See Table 2–10, " Supported Return Type Key/Value for Field Type COMPANY_ DRUG".
		This is a mandatory column.
VALUE	1	Enter the Return Type ID.
		See Table 2–10, " Supported Return Type Key/Value for Field Type COMPANY_ DRUG".
		This is a mandatory column.

Table 2–9 Configurations for Field Type COMPANY\_DRUG

#### Supported Return Type Texts and IDs (Key/Value):

The Company Drug browser returns one the following texts as per the return type configured against the new field ID to the Advance Condition Editor page.

Table 2–10 Supported Return Type Key/Value for Field Type COMPANY\_DRUG

Return Type Text	Return Type ID	
PROD_NAME	1	
PRODUCT_ID	2	
INGREDIENT_ NAME	3	
TRADE_NAME	4	

**Note:** You can also refer to existing field Products > Product Information > Company Product, (CMN\_FIELDS.Field\_ID -203650960) of COMPANY\_DRUG field type.

# 2.2.6 Configuring INGREDIENT Field Type

You can configure a field ID as INGREDIENT field type. This field type enables the Ingredient menu to open Ingredient Browser. With this browser you can search ingredient.

To configure the new field ID as INGREDIENT field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	6	INGREDIENT
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	INGREDIENT	Enter the Return Type text.
		This is an optional column.
VALUE	1	Enter the Return Type ID as 1.
_		This is a mandatory column.

Table 2–11 Configurations for Field Type INGREDIENT

**Note:** You can also refer to existing field PRODUCTS > Product Information > Ingredient, (CMN\_FIELDS.Field\_ID - 203810990) of INGREDIENT field type.

# 2.2.7 Configuring MINUTES\_CALCULATOR Field Type

You can configure a field ID as MINUTES\_CALCULATOR field type. This field type enables the Minutes Calculator menu to open the Duration Calculator Browser from menu. This browser allows you enter the time in hours, day, weeks, months, or year, and then converts the time to minutes/seconds. Alternatively, you can select duration band and value, if available.

To configure the new field ID as MINUTES\_CALCULATOR field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Sample Value	Description
3	Current Enterprise ID
7	MINUTES_CALCULATOR
3000000	Field ID entered in the table CMN_FIELDS.
DVB_SEC	Enter the Return Type text.
	See Table 2–13, " Supported Return Type Key/Value for Field Type MINUTES_ CALCULATOR".
	This is a mandatory column.
1	Enter the Return Type ID.
	See Table 2–13, " Supported Return Type Key/Value for Field Type MINUTES_ CALCULATOR".
	This is a mandatory column.
	Sample Value         3         7         30000000         DVB_SEC         1

Table 2–12 Configurations for Field Type MINUTES\_CALCULATOR

#### Supported Return Type Texts and IDs (Key/Value):

The Duration Calculator browser returns one the following texts as per the return type configured against the new field ID to the Advance Condition Editor page.

Table 2–13 Supported Return Type Key/Value for Field Type MINUTES\_CALCULATOR

Return Type Text	Return Type ID	
DVB_MIN	0	
DVB_SEC	1	
NOTDVB_SEC	3	

**Note:** You can also refer to existing field PRODUCTS > Dosage Regimen > Duration of Regimen, (CMN\_FIELDS.Field\_ID -201311457) of INGREDIENT field type.

# 2.2.8 Configuring LITERATURE Field Type

You can configure a field ID as LITERATURE field type. This field type enables the Literature menu to open the Literature browser from menu. With this browser you can search literature.

To configure the new field ID as LITERATURE field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Table 2–14 Configurations for Field Type LITERATURE

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	8	LITERATURE
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	NULL	Enter NULL.
VALUE	1	Enter the Return Type ID as 1.
		This is a mandatory column.

**Note:** You can also refer to existing field GENERAL > Literature > Literature, (CMN\_FIELDS.Field\_ID - 202810741) of INGREDIENT field type.

## 2.2.9 Configuring EVENT\_LICENSE Field Type

You can configure a field ID as EVENT\_LICENSE field type. This field type enables the Event License menu to open the Event License browser from menu. With this browser you can search events.

To configure the new field ID as EVENT\_LICENSE field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Table 2–15 Configurations for Field Type EVENT\_LICENSE

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID

	-	
Column	Sample Value	Description
FIELD_TYPE_ID	9	EVENT_LICENSE
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	NULL	Enter NULL.
VALUE	1	Enter the Return Type ID as 1.
		This is a mandatory column.

Table 2–15 (Cont.) Configurations for Field Type EVENT\_LICENSE

**Note:** You can also refer to existing field EVENTS->Event Assessment -> Event Assessment License, (CMN\_FIELDS.Field\_ID -201510613) of EVENT\_LICENSE field type.

# 2.2.10 Configuring STUDY\_DRUG Field Type

You can configure a field ID as STUDY\_DRUG field type. This field type enables the Study Drug menu to open the Study Drug Lookup browser from menu. With this browser you can search study drugs.

To configure the new field ID as STUDY\_DRUG field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	10	STUDY_DRUG
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	PROD_NAME	Enter the Return Type text as PROD_NAME.
		This is a mandatory column.
VALUE	NOR	Enter the Return Type ID as NOR.
		This is a mandatory column.

Table 2–16 Configurations for Field Type STUDY\_DRUG

**Note:** You can also refer to existing field PRODUCTS > Product Information > Study Drug, (CMN\_FIELDS.Field\_ID - 203650965) of STUDY\_DRUG field type.

## 2.2.11 Configuring CLINICAL\_STUDY\_LOOKUP Field Type

You can configure a field ID as CLINICAL\_STUDY\_LOOKUP field type. This field type enables the clinical study lookup menu to open the Clinical Study Lookup browser from menu. With this browser you can search study information for clinical studies based on the following:

- Center ID
- Project ID
- Study ID

To configure the new field ID as CLINICAL\_STUDY\_LOOKUP field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	11	CLINICAL_STUDY_LOOKUP
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	CENTERID	Enter the Return Type text.
		See Table 2–18, " Supported Return Type Key/Value for Field Type CLINICAL_ STUDY_LOOKUP".
		This is a mandatory column.
VALUE	1	Enter the Return Type ID.
		See Table 2–18, " Supported Return Type Key/Value for Field Type CLINICAL_ STUDY_LOOKUP".
		This is a mandatory column.

 Table 2–17
 Configurations for Field Type CLINICAL\_STUDY\_LOOKUP

#### Supported Return Type Texts and IDs (Key/Value):

The Clinical Study Lookup browser returns one the following texts as per the return type configured against the new field ID to the Advance Condition Editor page.

Table 2–18Supported Return Type Key/Value for Field Type CLINICAL\_STUDY\_LOOKUP

Return Type Text	Return Type ID	
CENTERID	1	
STUDYID	2	
PROJECTID	3	

**Note:** You can also refer to existing field GENERAL > Case Study > Center ID, (CMN\_FIELDS.Field\_ID - 200650348) of CLINICAL\_STUDY\_LOOKUP field type.

# 2.2.12 Configuring BATCH\_LOT\_NO Field Type

You can configure a field ID as BATCH\_LOT\_NO field type. This field type enables the Batch Lot # menu to open the Batch Lot # Lookup browser from menu. With this browser you can search batch or lot number.

To configure the new field ID as BATCH\_LOT\_NO field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

 Table 2–19
 Configurations for Field Type BATCH\_LOT\_NO

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	12	BATCH_LOT_NO

Column	Sample Value	Description
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	NULL	Enter Return type text as NULL.
VALUE	NULL	Enter the Return Type ID as NULL.

Table 2–19 (Cont.) Configurations for Field Type BATCH\_LOT\_NO

**Note:** You can also refer to existing field PRODUCTS > Dosage Regimen > Batch/Lot #, (CMN\_FIELDS.Field\_ID - 201350479) of BATCH\_LOT\_NO field type.

### 2.2.13 Configuring INVESTIGATIONAL\_DRUG Field Type

You can configure a field ID as INVESTIGATIONAL\_DRUG field type. This field type enables the Investigational Drug menu to open the Investigational Drug browser from menu. With this browser you can search and select investigational drug.

To configure the new field ID as INVESTIGATIONAL\_DRUG field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Table 2–20 Configurations for Field Type INVESTIGATIONAL\_DRUG

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	13	INVESTIGATIONAL_DRUG
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	NULL	Enter Return type text as NULL.
VALUE	NULL	Enter the Return Type ID as NULL.

**Note:** You can also refer to existing field PRODUCTS > Product Information > Investigational Drug, (CMN\_FIELDS.Field\_ID -203610883) of INVESTIGATIONAL\_DRUG field type.

## 2.2.14 Configuring CO\_DRUG\_CODE\_WITH\_STUDY Field Type

You can configure a field ID as CO\_DRUG\_CODE\_WITH\_STUDY field type. This field type enables the Co-Drug Code w Study menu to open the Co-Drug Code w Study browser from menu. With this browser you can search and select co-drug code with study.

To configure the new field ID as CO\_DRUG\_CODE\_WITH\_STUDY field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	14	CO_DRUG_CODE_WITH_STUDY
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.

Table 2–21 Configurations for Field Type CO\_DRUG\_CODE\_WITH\_STUDY

Column	Sample Value	Description
KEY	NULL	Enter key as NULL
VALUE	NULL	Enter the value as NULL

Table 2–21 (Cont.) Configurations for Field Type CO\_DRUG\_CODE\_WITH\_STUDY

**Note:** You can also refer to existing field PRODUCTS > Product Drug/Vaccine > Co-Drug Code w Study, (CMN\_FIELDS.Field\_ID -203650861) of CO\_DRUG\_CODE\_WITH\_STUDY field type.

## 2.2.15 Configuring DVB Field Type

You can configure a field ID as DVB field type. This field type enables the specific range called the Duration Value Bands (DVB). With this field type, you can specify query criteria for the configured field based on ranges instead of specific values.

**Note:** All the field IDs configured as DVB field type must also be configured as MINUTES\_CALCULATOR field type to open the Minutes Calculator browser.

Table 2–22 Configurations for Field Type DVB

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	15	DVB
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	HOURS	Enter the Return Type text.
		See Table 2–23, " Supported Return Type Key/Value for Field Type DVB".
		This is a mandatory column.
VALUE	DUR_HR_BAND	Enter the Return Type ID.
		See Table 2–23, " Supported Return Type Key/Value for Field Type DVB".
		This is a mandatory column.

#### Supported Return Type Texts and IDs (Key/Value):

The following keys must be configured for a field ID of field type as DVB. In the data table CMN\_FIELD\_CONFIGURATION, one row must be configured for each KEY. Value against all the keys should be a database column name. The database column name should exist in data table configured in CMN\_FIELD.TABLE\_NAME against the field ID. The following are the available keys for configuration:

Table 2–23 Supported Return Type Key/Value for Field Type DVB

Кеу	Sample Value
HOURS	ONSET_LATENCY_ HRS _BAND
DAYS	ONSET_LATENCY_DAYS_BAND
WEEKS	ONSET_DELAY_WEEKS _BAND

Кеу	Sample Value	
MONTHS	ONSET_LATENCY_MONTHS_BAND	
YEARS	ONSET_DELAY_YEARS_BAND	

Table 2–23 (Cont.) Supported Return Type Key/Value for Field Type DVB

**Note:** You can also refer to existing field EVENTS > Time to Onset from First Dose, (CMN\_FIELDS.Field\_ID - 201610626) of DVB field type.

### 2.2.16 Configuring GENERIC Field Type

You can configure a field ID as GENERIC field type. This field type enables the Generic Name menu to open the Generic Name browser from menu. With this browser you can search and select generic name of a product.

To configure the new field ID as GENERIC field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Table 2–24 Configurations for Field Type GENERIC

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	16	GENERIC
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	NULL	Enter key as NUL
VALUE	NULL	Enter value as NULL

**Note:** You can also refer to existing field PRODUCTS > Product Information > Generic Name, (CMN\_FIELDS.Field\_ID - 203650842) of GENERIC field type.

# 2.2.17 Configuring PATIENT\_HISTORY Field Type

You can configure a field ID as PATIENT\_HISTORY field type, if the field is based on information about the patient. This field type adds an additional condition as PARENT = 0 in the WHERE clause of final SQL query for the field.

To configure the new field ID as PATIENT\_HISTORY field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	17	PATIENT_HISTORY
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	NULL	Enter key as NULL.
VALUE	NULL	Enter value as NULL.

 Table 2–25
 Configurations for Field Type PATIENT\_HISTORY

**Note:** You can also refer to existing field PATIENT > Patient History > Relevant History Parent Information, (CMN\_FIELDS.Field\_ID - 203410798) of PATIENT\_HISTORY.

# 2.2.18 Configuring PARTIAL\_DATE Field Type

You can configure a field ID as PARTIAL\_DATE field type. This field type displays the value "??-??-0000" in the control on UI. This field type allows the user to enter the partial date. A valid partial date must comprise either a year, or a year and a month.

To configure the new field ID as PARTIAL\_DATE field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	18	PARTIAL_DATE
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	START_DATE	Enter Key as column name configured in CMN_FIELDS.COLUMN_NAME.
		This is a mandatory column.
VALUE	START_DATE_RES	Enter the column name as replacement of columns name configured in CMN_ FIELDS.COLUMN_NAME if partial date is entered by the user.
		This is a mandatory column.

Table 2–26 Configurations for Field Type PARTIAL\_DATE

**Note:** PATIENT > Parent History > Stop Date is an existing field of PARTIAL\_DATE type in CMN\_FIELD\_CONFIGURATION table.

## 2.2.19 Configuring CLOB Field Type

You can configure a field ID as CLOB field type, if the data type of column configured in CMN\_FIELDS.COLUMN\_NAME is CLOB. This field type supports the following advanced conditions:

- Begins with
- Contains
- Does not contains
- Missing
- Exists

To configure the new field ID as CLOB field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Table 2–27 Configurations for Field Type CLOB

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID

Column	Sample Value	Description
FIELD_TYPE_ID	19	CLOB
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	NULL	Enter Key as NULL.
VALUE	NULL	Enter value as NULL.

 Table 2–27 (Cont.) Configurations for Field Type CLOB

**Note:** : You can also refer to existing field ANALYSIS > Case Narrative > Narrative, (CMN\_FIELDS.Field\_ID - 203050754) of CLOB field type.

# 2.2.20 Configuring PARENT\_HISTORY Field Type

You can configure a field ID as PARENT\_HISTORY field type, if the field is based on information about the patient's parent. This field type adds an additional condition as PARENT = 1 in the WHERE clause of final SQL query for the field.

To configure the new field ID as PARENT\_HISTORY field type, the following configurations are required in the database table CMN\_FIELD\_CONFIGURATION:

Table 2–28 Configurations for Field Type PARENT\_HISTORY

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_TYPE_ID	20	PARENT_HISTORY
FIELD_ID	3000000	Field ID entered in the table CMN_FIELDS.
KEY	NULL	Enter Key as NULL.
VALUE	NULL	Enter value as NULL.

**Note:** You can also refer to existing field PATIENT > Parent History > Relevant History Parent Information, (CMN\_FIELDS.Field\_ID - 205050009) of PARENT\_HISTORY.

# 2.3 Configuring CMN\_COMPLEXFIELD\_CONFIGURATION Table

The table CMN\_COMPLEXFIELD\_CONFIGURATION is used to configure fields that have very complex business logic. Beside, you can also use this table if you want to specify different condition for different operators in WHERE clause. You should define WHERE condition against each operator.

 Table 2–29
 CMN\_COMPLEXFIELD\_CONFIGURATION Column Details

Column	Sample Value	Description
ENTERPRISE_ID	3	Current Enterprise ID
FIELD_ID	3000000	New Field ID

Column	Sample Value	Description
OPERATOR	contains	Enter the desired operator to support the new Field ID.
		See Table 2–30, " Supported Operator List" for configuration.
		This is a mandatory column.
SORT_ORDER	6	Enter the sorting order of operator.
		This is a mandatory column.
REQ_TABLE_LIST		Add the common separated table list in FROM Clause of final SQL query except V_RPT_ CASE, and table name entered in Table_Name Column.
		This is an optional column.
WHERE_QUERY	(UPPER(V_RPT_ PRODUCT.PRODUC T_NAME) NOT LIKE UPPER('%PARAM_ VALUE%') AND V_ RPT_PRODUCT.pat_ exposure > 0)	Define the WHERE clause for the new field ID against the operator entered in Operator Column.
		This is a mandatory column.
		<b>Note:</b> Use the Place holder << PARAM_ VALUE>> in WHERE clause of SQL query, where selected value is to be placed.

Table 2–29 (Cont.) CMN\_COMPLEXFIELD\_CONFIGURATION Column Details

The following are the supported operators for the new field IDs:

Operator	Description
equal to	Retrieves cases where the selected attribute's value is equal to what the Value field specifies.
not equal to	Retrieves cases where the selected attribute's value is not equal to what the Value field specifies.
greater than	Retrieves cases where the selected attribute's value is greater than what the Value field specifies.
greater than or equal to	Retrieves cases where the selected attribute's value is greater than or equal to what the Value field specifies.
less than	Retrieves cases where the selected attribute's value is less than what the Value field specifies.
less than or equal to	Retrieves cases where the selected attribute's value is less than or equal to the Value that the field specifies.
missing	Retrieves cases where the selected attribute's value has not been specified.
exists	Retrieves cases where the selected attribute has any value.
begins with	Retrieves cases where the selected attribute's value begins with what the Value field specifies.
contains	Retrieves cases where the selected attribute's value contains what the Value field specifies.
does not contain	Retrieves cases where the selected attribute's value does not contain what the Value field specifies.
in	Retrieves cases where the selected attribute's value exists in what the Value field specifies

Table 2–30Supported Operator List

Operator	Description
not in	Retrieves cases where the selected attribute's value does not exist in what the Value field specifies.

Table 2–30 (Cont.) Supported Operator List

**Note:** You can also refer to existing field PRODUCTS > Study Drug, (CMN\_FIELDS.Field\_ID - 203650965).

# **Code List Extensibility**

Flexible Data Recategorization is an Argus Safety functionality through which users can define code list display values in different languages, whether natural human languages like English or artificial ones like E2B.

Argus Safety maintains the data for supported languages and Argus Insight ETL populates this code list data in the corresponding tables as listed below:

Table 3–1 Code List Data Tables

Argus Safety Table	Argus Insight Table
CODE_LIST_MASTER	DM_CODE_LIST_MASTER
CODE_LIST_CODE_ATTRIBUTES	DM_CODE_LIST_CODE_ATTRIBUTES
CODE_LIST_DETAIL_DISCRETE	DM_CODE_LIST_DETAIL_DISCRETE

Customer-specific changes, such as new values for the existing code lists as well as completely new code lists, are made in Argus Safety. These values are then fetched into Argus Insight through the ETL. Users can then create advanced condition queries in Argus Insight that reference the fields in the Flexible Data Recategorization Code List.

The following sections explain how to configure a code list display value in a new language for an already existing code in Argus Safety:

- Configuring Flexible Data Recategorization with a New Natural Language
- Configuring Flexible Data Recategorization with a New Custom Language

# 3.1 Configuring Flexible Data Recategorization with a New Natural Language

You can configure a code list display value in a new Natural language for an already existing code in Argus Safety.

For example, assume that for the code list GENDER, data in the table CODE\_LIST\_ DETAIL\_DISCRETE for code 1 is available in the following three decode contexts (languages):

#### Figure 3–1 Original Decode Contexts (Languages)

CODE_LIST_ID	DECODE_CONTEXT	CODE DISPLAY_VALUE	PREFERRED	SORT	LAST_UPDATE_TIME	ENTERPRISE_ID
GENDER	en	1 Male	0	(null)	05-FEB-13	1
GENDER	E2B	11	0	(null)	05-FEB-13	1
GENDER	SM	1 M	0	(null)	05-FEB-13	1

To configure the same code 1 in the code list GENDER for a new language such as GERMAN (decode context '**ge**'):

1. Populate the table CODE\_LIST\_DETAIL\_DISCRETE in Argus Safety with required values in the GERMAN language

INSERT INTO CODE\_LIST\_DETAIL\_DISCRETE (CODE\_LIST\_ID, DECODE\_CONTEXT, CODE, DISPLAY\_VALUE, PREFERRED, SORT, LAST\_UPDATE\_TIME, ENTERPRISE\_ID) VALUES ('GENDER', 'ge', 1, 'männlich', 0, null, sysdate, 1);

#### Figure 3–2 New Decode Contexts (Languages)

CODE_LIST_I	DECODE_CONTEXT	CODE DISPLAY_VALUE	PREFERRED	SORT	LAST_UPDATE_TIME	ENTERPRISE_ID
GENDER	en	1 Male	0	(null)	05-FEB-13	1
GENDER	E2B	11	0	(null)	05-FEB-13	1
GENDER	SM	1 M	0	(null)	05-FEB-13	1
GENDER	ge	1 männlich	0	(null)	20-FEB-13	1

2. After the Argus Insight ETL runs, to create an Advanced Condition field which displays the GENDER value in the GERMAN language, add a new row in the CMN\_FIELDS table in Argus Insight with values similar to the example shown below:

Column	Value
ENTERPRISE_ID	1
FIELD_ID	New field ID that must be unique and must be in the following range:
	• For customers: 30000000 - 39999999
	• For partners: 40000000 - 499999999
	All other IDs are reserved for Oracle.
FIELD_LABEL	Gender German
TABLE_NAME	V_RPT_CASE
COLUMN_NAME	GENDER_ID
JOIN_FIELD	
SELECT_TABLE	
SELECT_COLUMN	
ADV_COND_FIELD	1
TREE_VIEW	PATIENT:Patient Information
UNIQUE_FIELD_LABEL	Gender German
SQL_SELECT	SELECT CODE ID, DISPLAY_VALUE STATUS from DM_CODE_LIST_DETAIL_ DISCRETE WHERE CODE_LIST_ID = GENDER AND DECODE_CONTEXT = 'ge'
FIELD_TYPE	1

Column	Value
HIDDEN	0
TYPE_AHEAD	
BLINDED_FIELD	
CONTROL_TYPE_ID	2
FIELD_LENGTH	255
ADDITIONAL_TABLE_LIS	ST
ADDITIONAL_WHERE	

# 3.2 Configuring Flexible Data Recategorization with a New Custom Language

You can configure a code list display value in a new Custom language for an already existing code in Argus Safety.

For example, assume that for the code list CAUSALITY, the following data is available in the table CODE\_LIST\_DETAIL\_DISCRETE for '**en**' decode context (English language):

CODE_LIST_ ID	DECODE_ CONTEXT	CODE	DISPLAY_ VALUE	PREFERRED	SORT	LAST_ UPDATE_TIME	ENTERPRI SE_ID
CAUSALITY	en	1	Definitely Not	0	(null)	9-Jul-13	1
CAUSALITY	en	2	Unlikely	0	(null)	9-Jul-13	1
CAUSALITY	en	3	Possible	0	(null)	9-Jul-13	1
CAUSALITY	en	4	Probable	0	(null)	9-Jul-13	1
CAUSALITY	en	5	Highly Probable	0	(null)	9-Jul-13	1
CAUSALITY	en	6	Definite	0	(null)	9-Jul-13	1

Table 3–2 Original Display Values

To configure the same code list CAUSALITY for the custom values **Related** and **Unrelated**, which are used as buckets or categories to group the already existing values:

1. Add a new language such as CUSTOM (decode context CUSTOM) by populating the table CODE\_LIST\_DETAIL\_DISCRETE in Argus Safety with required values in the CUSTOM language.

INSERT INTO CODE\_LIST\_DETAIL\_DISCRETE (CODE\_LIST\_ID, DECODE\_CONTEXT, CODE, DISPLAY\_VALUE, PREFERRED, SORT, LAST\_UPDATE\_TIME, ENTERPRISE\_ID) VALUES ('CAUSALITY', 'CUSTOM', 1, 'Related', 0, null, sysdate, 1);

Code_list_ Id	DECODE_ CONTEXT	CODE	DISPLAY_ VALUE	PREFERRED	SORT	LAST_ UPDATE_TIME	enterpri Se_id
CAUSALITY	en	1	Definitely Not	0	(null)	9-Jul-13	1
CAUSALITY	en	2	Unlikely	0	(null)	9-Jul-13	1
CAUSALITY	en	3	Possible	0	(null)	9-Jul-13	1

Table 3–3 New Display Values

CODE_LIST_ ID	DECODE_ CONTEXT	CODE	DISPLAY_ VALUE	PREFERRED	SORT	LAST_ UPDATE_TIME	ENTERPRI SE_ID
CAUSALITY	en	4	Probable	0	(null)	9-Jul-13	1
CAUSALITY	en	5	Highly Probable	0	(null)	9-Jul-13	1
CAUSALITY	en	6	Definite	0	(null)	9-Jul-13	1
CAUSALITY	CUSTOM	1	Unrelated	0	(null)	9-Jul-13	1
CAUSALITY	CUSTOM	2	Unrelated	0	(null)	9-Jul-13	1
CAUSALITY	CUSTOM	3	Related	0	(null)	9-Jul-13	1
CAUSALITY	CUSTOM	4	Related	0	(null)	9-Jul-13	1
CAUSALITY	CUSTOM	5	Related	0	(null)	9-Jul-13	1
CAUSALITY	CUSTOM	6	Related	0	(null)	9-Jul-13	1

Table 3–3 (Cont.) New Display Values

**2.** After the Argus Insight ETL runs, to create an Advanced Condition field which displays custom CAUSALITY values, add a new row in the CMN\_FIELDS table in Argus Insight with values similar to the example shown below:

Column	Value
ENTERPRISE_ID	1
FIELD_ID	New field ID that must be unique and must be in the following range:
	■ For customers: 30000000 - 39999999
	<ul> <li>For partners: 40000000 - 499999999</li> </ul>
	All other IDs are reserved for Oracle.
FIELD_LABEL	Custom Reported Causality
TABLE_NAME	RPT_EVENT_ASSESS
COLUMN_NAME	RPT_CAUSALITY_ID
JOIN_FIELD	
SELECT_TABLE	
SELECT_COLUMN	
ADV_COND_FIELD	1
TREE_VIEW	ANALYSIS:Case Assessment
UNIQUE_FIELD_LABEL	Custom Reported Causality
SQL_SELECT	SELECT DISTINCT DISPLAY_VALUE ID, DISPLAY_VALUE STATUS FROM DM_ CODE_LIST_DETAIL_DISCRETE WHERE CODE_LIST_ID = 'CAUSALITY' AND DECODE_CONTEXT = ' CUSTOM'
FIELD_TYPE	1
HIDDEN	0
TYPE_AHEAD	
BLINDED_FIELD	

Column	Value		
CONTROL_TYPE_ID	2		
FIELD_LENGTH	255		
ADDITIONAL_TABLE_LIST			
ADDITIONAL_WHERE			

**3.** Now, insert a new row to the table CMN\_COMPLEXFIELDS\_CONFIGURATION.

Column	Value
ENTERPRISE_ID	3
FIELD_ID	<same as="" cmn_fields="" field="" id="" in="" table="" the=""></same>
OPERATOR	equal to
SORT_ORDER	1
REQ_TABLE_LIST	
WHERE_QUERY	RPT_EVENT_ASSESS.RPT_CAUSALITY_ ID IN (SELECT CODE FROM DM_CODE_ LIST_DETAIL_DISCRETE WHERE DISPLAY_VALUE = 'PARAM_VALUE' AND CODE_LIST_ID = 'CAUSALITY' AND DECODE_CONTEXT = 'CUSTOM')

# **ETL Extensibility**

Custom Routines are the configured procedures that are executed during Argus Insight Incremental ETL to perform custom actions.

Argus Insight supports the following custom routines:

- PRE\_INCREMENTAL\_ETL\_TASK Executes the configured routine during incremental ETL before population of Argus Insight staging tables.
- POST\_INCREMENTAL\_ETL\_TASK Executes the configured routine during incremental ETL after population of Argus Insight mart tables.

These custom routines are useful in the following scenarios:

- Populating custom tables or new columns based on the business needs.
- Analyzing tables with huge data.
- Triggering an event based on ETL completion for the use with other custom products.

This chapter comprises the following topics:

- Viewing Argus Insight Custom Routines
- Executing Argus Insight Custom Routines

# 4.1 Viewing Argus Insight Custom Routines

**Note:** These routines are Global-level switches, visible in Argus Insight Administration Tools.

In a multi-tenant environment, these switches are visible only when you login through Default enterprise.

The following are the steps to view the custom routines:

1. Log in to the Argus Insight Application as Admin user.

Alternatively, in a multi-tenant environment log in to the Default enterprise.

- **2.** From the menu bar, click **Tools**.
- 3. Click the List Maintenance tab to open the List Maintenance Items.
- 4. Select Profile Switches from the List Maintenance Items.
- **5.** From the **Attributes** section, select CUSTOM ROUTINE BEFORE INCREMENTAL ETL, and click **Modify** to see the Value for this routine.


**6.** Similarly, select CUSTOM ROUTINE AFTER INCREMENTAL ETL, and click **Modify** to see the Value for this routine.

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Biological States of the second states of the secon	Argus Insight - Modify Attribute We Modify Attribute     CUSTOM ROUTINE AFTER INCRE     Value     [p_post_et!     Key     POST_INCREMENTAL_ETL_TAS     Description     This is the ful path of the custom rol procedure) to be executed after in     routine rols or a not nourd, an ema	bpage Dialog  MENTAL ETL K utine (Oracle stored remental ETL, if the is sent to the	BOYON AND RECEIVED AND AND AND AND AND AND AND AND AND AN
Description Provides the ability to configu	administrator,	<b>v</b>	Bescription     This is the full path of the custom routine (Oracle stored procedure) to be executed after incremental ETL. If     the routine fails or is not found, an email is sent to the administrator.

# 4.2 Executing Argus Insight Custom Routines

The ETL Routines can be executed at two levels:

- Before starting the incremental ETL.
- After executing the incremental ETL.

The following are the steps to execute the custom routine:

1. Select the custom routine (PRE or POST), and enter an Oracle stored procedure name in the **Value** text box relevant to that custom routine. This Routine searches

the database object that matches the procedure name in the schema APR\_MART during Incremental ETL execution.

**Note:** To view or modify the Value of a custom routine, refer to the Section 4.1, Viewing Argus Insight Custom Routines.

- 2. If the procedure is found, the application executes the ETL.
  - **a.** If the custom routine executes without any errors, then the application moves to the next step of the Incremental ETL process.
  - **b.** If the Custom routine executes with errors, then the application logs the error(s) in the table MART\_DATA\_INSERT\_LOG and exits.

Note:

- ETL does not process any data before execution of the pre-incremental ETL custom routine.
- ETL commits the data before the execution of the post-incremental ETL routine.
- You should manually execute the post-incremental ETL routine, if it fails as it cannot be resumed.
- **3.** To track the error when a custom routine fails, refer to the example as explained below:
  - **a.** Connect to the schema APR\_MART, and create:

A table PRE\_POST\_ETL\_CHK with one column col1 varchar2(100).

A procedure P\_PRE\_ETL to insert a row in the table with less than 100 characters.

A procedure P\_POST\_ETL to insert a row with more than 100 characters.



**b.** Update the Values of the custom routines.

For key PRE\_INCREMENTAL\_ETL\_TASK, set the value to P\_PRE\_ETL.

For key POST\_INCREMENTAL\_ETL\_TASK, set the value to P\_POST\_ETL.

The ETL will show an error while executing the post-incremental custom procedure as we try to insert large value than the column's length.

**Note:** To view or modify the Value of a custom routine, refer to the Section 4.1, Viewing Argus Insight Custom Routines.

**c.** Run the incremental ETL.

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**d.** Since P\_POST\_ETL procedure fails to insert a row, error occurs at the end of the ETL execution.

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Incremental ETL Progress	
Start Time of Last ETL Run: 7/10/2013 3:39:52 PM Start Time: 7/11/2013 3:39:52 PM	
ETL Completed/Total Enterprises: 4/4	
Progress: 100%	
Current Process: Error during Incremental ETL execution	
Save Schedule Cancel Schedule Run ETL, Now	
Done	🗣 Local intranet   Protected Mode: Off 🛛 🌾 💌 💐 100% 👻 🖉

**e.** To verify the error, view the table MART\_DATA\_INSERT\_LOG.

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Enter SQL Statement		
select * from mart_data_insert	_log order by id desc;	^
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Results Script Output   Cheplain   S	Autotrace   Autotr	
D B TARLE NAME	B DESCRIPTION	CRA FRR DESC
1 44474 p call air incremental	Error during incremental ETL execution	ORA-20010, ORA-12899; value too large for column "APR, MART" "PRE, POST, ETL, CHK" "COL1" (actual: 105, maximum: 100)ORA-06512; at "A
2 44473 p_pre_post_incr_eti_tasks	Error in procedure pijpre post jincrijett tasks	ORA-12899, value too large for column "APR_MART" "PRE_POST_ETL_CHK" "COL1" (actual: 105, maximum: 100)ORA-06512 at "APR_MART P.
3 44472 p_pre_post_incr_eti_tesks	Procedure p_post_eti started	(mll)
4 44471 p_cal_air_incremental	Incremental ETL completed	(null)
5 44470 p_progress_meter	Updation of empty rows in progress meter completed.	(null)
6 44469 p_progress_weter	Updation of empty rows in progress meter started	(null)
7 44400 a moment mater	Party second as the second sector second as	(m)(h)

The actual error text that is displayed in the column ORA\_ERR\_DESC is as below:

"ORA-20010: ORA-12899: value too large for column "APR\_MART"."PRE\_POST\_ETL\_ CHK"."COL1" (actual: 105, maximum: 100) ORA-06512: at "APR\_MART.P\_POST\_ETL", line 3 ORA-06512: at line 1 ORA-06512: at "APR\_MART.PKG\_PWR\_UTIL", line 3306 -- ERROR while processing p\_pre\_post\_incr\_etl\_tasks at 25-jun-2013 12: ORA-06512: at "APR\_MART.PKG\_AIR\_STOM", line 313 ORA-06512: at "APR\_MART.PKG\_PWR\_UTIL", line 3323 ORA-06512: at "APR\_MART.PKG\_DBMS\_JOB", line 1659

**f.** To ensure that a row is inserted from the custom routine before incremental ETL - P\_PRE\_ETL, view table PRE\_POST\_ETL\_CHK.



**4.** If the procedure (or database object) is not found, then the application logs the error(s), and fails the ETL.

In this case, the ETL may be executed if you have explicitly created an exception-handling for such cases to absorb any exceptions, and go to the next step in the ETL process.

Optionally, to resolve this issue, create a procedure of that name, provide an existing procedure name, or remove the configuration.

#### **Oracle Recommends:**

- You should not modify the existing names of the database objects of Argus Insight, though additional objects can be created as part of customization as per your business needs.
- The changes related to custom routines should be tested in a test environment before implementing in the production environment.

# **Reporting Extensibility**

This chapter provides the information on the following:

- Business Intelligence Publisher (BIP/ BI Publisher) report and the report framework. BIP is an additional option to the existing Cognos and BusinessObjects in Argus Insight.
- Executing a report on Case Series/Power Queries of Argus Insight using Cognos Reporting tool and BusinessObjects.
- The OBIEE Argus Insight RPD architecture and how to use flex bucketing in the RPD. The querying is done on the data from Argus Safety BIP temporary tables that are brought into Argus Mart tables (information about corresponding report configuration and value of report parameters used for report execution).

This chapter comprises the following sections:

- Business Intelligence Publisher Extensibility
- BusinessObjects Extensibility
- Cognos Extensibility
- OBIEE Extensibility

# 5.1 Business Intelligence Publisher Extensibility

This section comprises the following topics:

- Assumptions
- Business Purpose
- Global Temporary Tables
- Report Package Features
- Data Model
- BI Publisher Report Templates
- BI Publisher Reporting Tips

**Note:** The appearance of the user interface that you see in the application may vary from the figures displayed in the subsequent sections.

# 5.1.1 Assumptions

The Business Intelligence Publisher (BI Publisher) extensibility has the following assumptions:

- The user has a working knowledge of report creation in BI Publisher.
- Argus Insight Release 8.0 (AI 80) supports Oracle BI Publisher File system catalog type only. Even though BI Publisher is integrated with Oracle Business Intelligence Enterprise Edition (OBIEE), the catalog type should be set to Oracle BI Publisher File System.

#### Disclaimer:

OBIEE Presentation catalog is not considered or tested for this release.

Any customer using BI Publisher integrated with OBIEE still needs to select *Oracle BI Publisher - File system* catalog only.

### See Also:

*Oracle FMW - Administrator Guide for Oracle Business Intelligence Publisher > Configuring the Catalog* 

# 5.1.2 Business Purpose

This report is a generic listing of cases with key *Pharmacovigilance* data elements. This framework can be used for custom reporting.

# 5.1.3 Global Temporary Tables

Global Temporary Tables (GTTs) are the Oracle tables, having data type as *private*; such that data inserted by a session can be accessed by that session only.

The session-specific rows in a GTT can be preserved for the entire session, as AI report tables are created using *ON COMMIT PRESERVE ROWS* clause.

The report specific package *pkg\_rep\_linelisting*, populates the following report GTTs:

- rep\_case\_tmp
- rep\_event\_tmp
- rep\_prod\_dose\_tmp
- rep\_evt\_assess\_tmp
- rep\_case\_detail\_tmp The Case Detail GTT is populated with user accessible cases in the generic package after applying user data security.

### Extending Global Temporary Tables

The following are the steps to extend GTTs:

- 1. Alter the GTT, to add a new column.
- 2. Write population logic for the new column in User Exit package. For example, to populate case level table *rep\_case\_tmp* the following User Exit package procedure can be used: *pkg\_rep\_linelisting\_user\_exit.p\_modify\_case\_tmp*
- 3. Modify the User Exit package to append case number with ABC, such as:

PROCEDURE p\_modify\_case\_tmp IS

BEGIN

UPDATE REP\_CASE\_TMP SET CASE\_NUM = 'ABC' | | CASE\_NUM;

END p\_modify\_case\_tmp;

**Note:** Any DML statement or complex PL/SQL logic can be implemented in the User Exit packages.)

4. Compile the User Exit package and run the report.

In the report, you will find case number prefixed with ABC.

## 5.1.4 Report Package Features

A package is a namespace that organizes a set of related classes and interfaces.

The types of packages used in BI Publisher report are:

- Generic Package
- Line Listing Package

#### 5.1.4.1 Generic Package

BI Publisher report has *pkg\_rep\_generic* as the generic package that will be used to create/modify all future BI Publisher reports.

This package performs the following functions:

- User Context is set, so that the user can view data only as per user data access rights.
- Global table *rep\_case\_detail\_tmp* is populated with cases after applying data security.
- Log tables population logic is created within the generic package.

This package contains following procedures/functions:

S.No.	Procedure/Function Name	Parameter/ Argument Used	Description
1.	p_set_user_context	<ul> <li>pi_enterprise_id: Enterprise ID</li> <li>pi_user_name: Report User Name (the user who has logged in to BI Publisher)</li> </ul>	This procedure is used to set user context (for multi-tenancy) and data security variables. Using the package <i>pkg_rls.set_context</i> , user context will be set, by passing enterprise ID, user name and application name to the package.
2.	p_pop_case_detail	<ul> <li>pi_querytype: Q - Query, A-Advance Condition, F - Filter, and C - Case Series</li> </ul>	This procedure populates case series in global table <i>rep_case_detail_tmp</i> , used in BI Publisher reports. For <i>p_querytype</i> = <b>C</b> , cases are
		<ul> <li>pi_id: CASESERIES_ ID/QUERY_ ID/AC_ ID/Filter_ID to get data for cases</li> </ul>	inserted in global table <i>rep_case_</i> <i>detail_tmp</i> . from the table <i>case_detail</i> . For <i>p_querytype</i> IN (' <b>Q</b> ', ' <b>F</b> ', ' <b>A</b> '), the global table <i>rep_case_detail_tmp</i> gets populated in the procedure <i>p_</i> <i>caseseries_from_query</i> .

Table 5–1	Generic Pa	ckage - F	Procedures	and	Funct	ions
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S.No.	Procedure/Function Name	Parameter/ Argument Used	Description
3.	p_rep_execution_log	<ul> <li>pi_ora_err_desc: Oracle-defined error code and description</li> </ul>	This procedure is used to log status of table population and SQL exceptions in table <i>rep_execution_log</i> .
		<ul> <li>pi_table_name: Table/Module name</li> </ul>	<b>Routine Call</b> : PKG_REP_ GENERIC.P_REP_EXECUTION_ LOG (NULL, 'p pop case tmp',
		<ul> <li>pi_description: User-defined descriptive error</li> </ul>	'Data population for table REP_ CASE_TMP started.');
		message	Before populating the table <i>rep_case_</i> <i>tmp</i> , this procedure logs a message that ' <i>data population for table <rep_< i=""> <i>case_tmp&gt; started</i>'. After successful completion of the process, it logs a message that '<i>data population for table</i> <i><rep_case_tmp> completed</rep_case_tmp></i>'.</rep_<></i>
			Besides, in each population routine section in the SQL exceptions; this procedure is called to log SQL error messages.
			See Also:
			Section 5.1.4.2.3, Populating Data for Generic Line Listing Report

Table 5–1 (Cont.) Generic Package - Procedures and Functions

**5-4** Oracle Argus Insight Extensibility Guide

S.No.	Procedure/Function Name	Parameter/ Argument Used	Description
4.	p_rep_sql_log	<ul> <li>pi_module_name: identifier to various calling modules</li> <li>pi_sql_text: Dynamic SQL created</li> </ul>	<ul> <li>This procedure logs dynamic SQL queries created in the generic package. The following SQL statements are logged in this package:</li> <li>1. Insert statements in the table <i>rep_case_detail_tmp</i>.</li> <li>2. Update <i>study_unblind_ok, code_broken</i> statement in the table <i>rep_case_detail_tmp</i>.</li> <li>3. Insert statements in the report log tables.</li> <li>For example: pkg_rep_generic.p_rep_sql_log (pi_module_name, lvc_sql);lvc_sql</li> <li>Once report is executed, you can copy the query from column <i>sql_text</i> of the table <i>rep_sql_log</i> where all queries exist. Execute the desired query in the database.</li> </ul>
			Example Routine Call:
			pkg_rep_generic.p_rep_sql_log ('p_ caseseries_from_query', lclb_sql);
			where
			lclb_sql := 'INSERT INTO rep_case_ detail_tmp (case_id) '     lclb_rpt_sql;
			Besides, <i>lclb_rpt_sql</i> > <i>sql_for_report</i> column value from the table <i>cfg_adv_ cond</i> .
5.	p_keep_report_data	<ul> <li>pi_module_name: Calling module name</li> <li>pi_src_table:</li> </ul>	This procedure maintains session data in the report log tables. It is called in the report specific package <i>pkg_rep_linelisting</i> .
		Source table name pi_tgt_table: Target table name	For example: PKG_REP_ GENERIC.P_KEEP_REPORT_DATA ('p_pop_case_tmp', 'REP_CASE_ TMP', 'REP_CASE_LOG');
		0	In the above example, if the profile switch <i>KEEP_REPORT_DATA</i> value is yes, then the table <i>rep_case_log</i> will be populated with the session data <i>rep_case_tmp</i> .
			See Also:

Table 5–1 (Cont.) Generic Package - Procedures and Functions

Log Audit Tables, explained later in this chapter

S.No.	Procedure/Function Name	Parameter/ Argument Used	Description
6.	f_get_insert_sql	<ul> <li>pi_src_table:</li> <li>Source table</li> <li>name</li> </ul>	This internal function generates dynamic SQL to insert data from the report GTT into the report log tables. It also returns the generated SQL
		<ul> <li>pi_tgt_table: Target table name</li> </ul>	Example Routine Call:
		<ul> <li>pi_append_flag: Append hint</li> </ul>	pkg_rep_generic.f_get_insert_sql (pi_ src_table, pi_tgt_table
			The data from source table is inserted into the target table.
7.	p_caseseries_from_ query	<ul> <li>pi_ac_id: Query ID to get SQLs for case detail and blinded security</li> </ul>	This procedure inserts cases into the table rep_case_detail_tmp, when the Query/Case parameter is passed a value as Q/F:
		<ul> <li>pi_querytype: Q - Query, and F - Filter</li> </ul>	<ul> <li>For Query type - Q, the SQL query is fetched from the table cfg_adv_cond.</li> </ul>
			<ul> <li>For Query type - F, the SQL query is fetched from the table <i>filter_valuesets</i>.</li> </ul>
			This procedure is called in the procedure <i>p_pop_case_detail</i> to populate cases for Query or Filters.
8.	f_get_query_details	<ul> <li>xdo_user_name: Report User Name (the user who has logged</li> </ul>	This function populates the Case Series/Query/Advanced Condition/Filter Name as per the user access rights.
		in the BI Publisher)	The parameter <i>pi_id</i> for Case/Query Name prompt, populates with the
		<ul> <li>pi_enterprise_id: Enterprise ID</li> </ul>	Case/Query/AC/Filter names based on the selected Enterprise ID.
		<ul> <li>pi_querytype: C - Case Series, Q - QBE, A - Advanced Condition, or F- Filter</li> </ul>	And parameter <i>pi_querytype</i> for Case Series/Query prompt, populates as per the logged-in user.

 Table 5–1 (Cont.) Generic Package - Procedures and Functions

#### 5.1.4.1.1 Context Setting

The context settings for multi tenancy are described in this section.

The procedure *p\_set\_user\_context*, sets enterprise, user name (*username*), and application name (*app\_name*) context for Oracle Virtual Private Database policy (VPD).

#### See Also:

Oracle Technical Reference documents for more information on Oracle VPD.

#### 5.1.4.1.2 Case Series Data Population

The cases in the table *rep\_case\_detail\_tmp* are populated as follows:

- For Case Series/Query Type **C**: Cases from the table *case\_detail* are populated.
- For Case Series/Query Type **Q** or **A**: Execute the SQL command on the column *sql\_for\_report* from the table *cfg\_adv\_cond*.

 For Case Series/Query Type - F: Execute the SQL command on the column sql\_for\_ report from the table cfg\_adv\_cond and also join another table filter\_valuesets.

#### 5.1.4.2 Line Listing Package

The BI Publisher report has *pkg\_rep\_linelisting* as a Generic Line Listing Report specific package.

In this package the report GTTs are populated.

#### See Also:

Section 5.1.3, Global Temporary Tables

#### 5.1.4.2.1 Generic Parameters

For generic parameters, it is mandatory to declare these parameters in the package that are used in the BI Publisher report. Henceforth, if any new parameter is required to be included in the report then it (new parameter) must be declared in the report specific package.

#### See Also:

Section 5.1.5.2, Report Parameters for more information about the parameter variables usage in data model.

The following report parameters are declared in the report package *pkg\_rep\_linelisting*:

S.No.	Parameter Name	Mandatory/ Optional	Description
1.	pi_enterprise_id: Enterprise ID	Mandatory	A user specific Enterprise ID is passed from BI Publisher to the package, where Enterprise ID is fetched from the table <i>cfg_user_enterprise_apps</i> .
2.	pi_querytype: Case Series or Query	Mandatory	A Case Series (C), Query/QBE (Q), Advanced Condition (A) or Filter (F) is passed from BI Publisher based on the user selection.
3.	pi_id: CASESERIES_ ID/QUERY_ ID/AC_ID/Filter_ ID to get data for cases	Mandatory	A user specific case series ID, query ID or filter ID is passed to the package based on the user selection. But in the report, Case series or Query Name is displayed for the enterprise ID and query type selected.
4.	pi_category_name: Category Name	Optional	This is an optional free text parameter, where a user can enter report category name.
5.	pi_rpt_sub_title: Report Sub-heading	Optional	This is an optional free text parameter, where report sub-title is entered.
6.	pi_rpt_title: Report Name	Optional	This is an optional free text parameter, where report name is entered.
7.	xdo_user_name	Optional	A BI Publisher login user name is passed to this parameter. This is BI Publisher system parameter.
			See Also:
			BI Publisher Technical Reference document.

Table 5–2 Report Parameters

#### 5.1.4.2.2 Adding New Parameter in Package

This section is explained with the help of an example. Let us say, you want to add a new parameter *pi\_case* and restrict the data model based on the Case ID input. To do so, declare the new parameter in the package as shown below:



#### See Also:

Section 5.1.5.2, Report Parameters > Adding New Parameter in Data Model

#### 5.1.4.2.3 Populating Data for Generic Line Listing Report

The list of routines/functions that are used to populate data for the Generic Line Listing Report is as follows:

S.No.	Routine/Function Name	Parameter Used	De	scription
1.	f_pop_report_data	pi_enterprise_id, xdo_user_name, pi_id, pi_querytype See Also: Report Parameters Generic Parameters	In t are 1.	his function, the following procedures called in the same order as listed: To set user context call the procedure as: pkg_rep_generic.p_set_user_ context (pi_enterprise_id, xdo_user_
			2. 3.	<pre>name); To populate the cases in GTT rep_case_ detail_tmp after applying user security, call the routine as: pkg_rep_generic.p_ pop_case_detail (pi_id,pi_querytype); p_pop_case_tmp - This routine is</pre>
			4. 5.	explained later in the table. <i>p_pop_event_tmp</i> - This routine is explained later in the table. <i>p_pop_prod_dose_tmp</i> - This routine is explained later in the table.
			6.	<i>p_pop_evt_assess_tmp</i> - This routine is explained later in the table.

Table 5–3 List of Routine/Function used for Generic Line Listing Report Data

S.No.	Routine/Function Name	Parameter Used	Description
2.	p_pop_case_tmp	Not applicable	This Procedure populates data in the GTT <i>rep_case_tmp</i> . Before inserting data in the table <i>rep_case_tmp</i> , log table <i>rep_execution_log</i> is populated with the message as:
			PKG_REP_GENERIC.P_REP_ EXECUTION_LOG (NULL, 'p_pop_case_ tmp', 'Data population for table REP_CASE_ TMP started.');
			See Also:
			Section 5.1.4.2.1, Generic Parameters
			Once the processing is completed for all the rows in the table <i>rep_case_tmp</i> , log the completion details as:
			PKG_REP_GENERIC.P_REP_ EXECUTION_LOG (NULL, 'p_pop_case_ tmp', 'Data population for table REP_CASE_ TMP completed successfully. '     SQL%ROWCOUNT     ' row(s) processed.')
			Calling User Exit procedure:
			You can write your own logic to update case data in the User Exit procedure <i>PKG_</i> <i>REP_LINELISTING_USER_EXIT.P_</i> <i>MODIFY_CASE_TMP;</i>
			Any exception/errors while populating the table <i>rep_case_tmp</i> are handled in WHEN OTHERS exception as:
			pkg_rep_generic.p_rep_execution_log (SUBSTR (SQLERRM, 1, 300), 'p_pop_case_ tmp', 'Error during data population for table REP_CASE_TMP.')

Table 5–3 (Cont.) List of Routine/Function used for Generic Line Listing Report Data

S.No.	Routine/Function Name	Parameter Used	Description
3.	p_pop_event_tmp	Not applicable	This procedure populates data in the GTT <i>rep_event_tmp</i> .
			Before inserting data in the table <i>rep_event_</i> <i>tmp</i> , log table <i>rep_execution_log</i> is populated with the message as:
			PKG_REP_GENERIC.P_REP_ EXECUTION_LOG (NULL, 'p_pop_event_ tmp', 'Data population for table REP_EVENT_ TMP started.');
			See Also:
			Section 5.1.4.2.1, Generic Parameters
			Once the processing is completed for all the rows in the table <i>rep_event_tmp</i> , log the completion details as:
			PKG_REP_GENERIC.P_REP_ EXECUTION_LOG (NULL, 'p_pop_event_ tmp', 'Data population for table REP_EVENT_ TMP completed successfully. '     SQL%ROWCOUNT     ' row(s) processed.');
			Calling User Exit procedure:
			You can write your own logic to update the event data in the User Exit procedure:
			<i>PKG_REP_LINELISTING_USER_EXIT.P_</i> <i>MODIFY_EVENT_TMP;</i>
			Any exception/errors while populating the table <i>rep_event_tmp</i> are handled in WHEN OTHERS exception as
			pkg_rep_generic.p_rep_execution_log (SUBSTR (SQLERRM, 1, 300), 'p_pop_event_ tmp', 'Error during data population for table REP_EVENT_TMP.')

 Table 5–3 (Cont.) List of Routine/Function used for Generic Line Listing Report Data

S.No.	Routine/Function Name	Parameter Used	Description
4.	p_pop_prod_dose_ tmp	Not applicable	This procedure populates data in the GTT rep_prod_dose_tmp.
			Before inserting data in the table <i>rep_prod_</i> <i>dose_tmp</i> , log table <i>rep_execution_log</i> is populated with the message as: <i>PKG_REP_GENERIC.P_REP_</i> <i>EXECUTION_LOG</i> ( <i>NULL</i> , ' <i>p_pop_prod_</i> <i>dose_tmp'</i> , 'Data population for table REP_ PROD_DOSE_TMP started.');
			See Also:
			Section 5.1.4.2.1, Generic Parameters
			Once the processing is completed for all the rows in the table <i>rep_prod_dose_tmp</i> , log the completion details as:
			PKG_REP_GENERIC.P_REP_ EXECUTION_LOG (NULL, 'p_pop_prod_ dose_tmp', 'Data population for table REP_ PROD_DOSE_TMP completed successfully. '    SQL%ROWCOUNT    'row(s) processed.');
			Calling User Exit procedure:
			You can write your own logic to update the product related data in the User Exit procedure:
			PKG_REP_LINELISTING_USER_EXIT.P_ MODIFY_PROD_DOSE_TMP;
		Any exception/errors whil table <i>rep_prod_dose_tmp</i> are WHEN OTHERS exception pkg_rep_generic.p_rep_exc (SUBSTR (SQLERRM, 1, 30 prod_dose_tmp', 'Error du population for table REP_F TMP.')	Any exception/errors while populating the table <i>rep_prod_dose_tmp</i> are handled in WHEN OTHERS exception as:
			pkg_rep_generic.p_rep_execution_log (SUBSTR (SQLERRM, 1, 300), 'p_pop_ prod_dose_tmp', 'Error during data population for table REP_PROD_DOSE_ TMP.')

 Table 5–3 (Cont.) List of Routine/Function used for Generic Line Listing Report Data

S.No.	Routine/Function Name	Parameter Used	Description			
5.	p_pop_evt_assess_ tmp	Not applicable	This procedure populates data in the GTT <i>rep_evt_assess_tmp</i> .			
			Before inserting data in the table <i>rep_evt_</i> <i>assess_tmp</i> , log table <i>rep_execution_log</i> is populated with the message as:			
			PKG_REP_GENERIC.P_REP_ EXECUTION_LOG (NULL, 'p_pop_evt_ assess_tmp', 'Data population for table REP_EVT_ASSESS_TMP started.');			
			See Also:			
			Section 5.1.4.2.1, Generic Parameters			
			Once the processing is completed for all the rows in the table <i>rep_evt_assess_tmp</i> , log the completion details as:			
			PKG_REP_GENERIC.P_REP_ EXECUTION_LOG (NULL, 'p_pop_evt_ assess_tmp', 'Data population for table REP_EVT_ASSESS_TMP completed successfully.'    SQL%ROWCOUNT    ' row(s) processed.');			
			Calling User Exit procedure:			
			You can write your own logic to update the event assessment data in the User Exit procedure: PKG_REP_LINELISTING_ USER_EXIT.P_MODIFY_EVT_ASSESS_ TMP;			
			Any exception/errors while populating the table <i>rep_evt_assess_tmp</i> are handled in WHEN OTHERS exception as:			
			pkg_rep_generic.p_rep_execution_log (SUBSTR (SQLERRM, 1, 300), 'p_pop_evt_ assess_tmp', 'Error during data population for table REP_EVT_ASSESS_TMP.');			
			Any error exception in the function <i>f_pop_ report_data</i> , is handled with message as:			
			pkg_rep_generic.p_rep_execution_log (SUBSTR (SQLERRM, 1, 300), 'f_pop_ report_data', 'Error during execution of f_ pop_report_data for ENTERPRISE ID - '     pi_enterprise_id     ', USER NAME - '     xdo_user_name     '.')			

 Table 5–3 (Cont.) List of Routine/Function used for Generic Line Listing Report Data

### 5.1.4.2.4 Log (Audit) Table

The log tables are divided into three categories as follows:

- **Session Details** There are four report log tables to hold the session data, namely:
  - rep\_case\_log
  - rep\_prod\_dose\_log
  - rep\_event\_log
  - rep\_evt\_assess\_log

These tables are populated only if the BI Publisher profile switch **KEEP\_REPORT\_DATA** is '**Y**' that is, populate the report log tables. By default it is set as '**N**' that is, do not populate the report log tables. This is an enterprise specific switch.

The profile switch are available in the *Argus Insight List Maintenance* section, where you can set it to 'Y' or 'N'.

#### See Also:

*Admin Guide* > <*section* - *TBD*> for the profile switch information.

The procedure *p\_keep\_report\_data*, in generic package is used to populate data for the Report Log tables.

#### See Also:

Section 5.1.4.1, Generic Package

Process Details - The log table *rep\_execution\_log*, records the entire report table process details. At each temporary table population procedures the log table will be populated. In all exceptions, this log table is populated with Oracle SQL errors.

See Also:

#### Section 5.1.4.1, Generic Package

 Dynamic SQL Details - The log table *rep\_sql\_log*, is populated with the dynamic SQLs generated in the generic package, only if the database profile switch LOG\_ REPORT\_SQL value is '1' that is, yes. This is a global switch to identify, if report SQL is to be logged or not. The default value of this switch is '0' that is, no.

This database switch is not available in the Argus Insight UI List maintenance section. It is required to be set in the database only.

#### See Also:

- Section 5.1.4.1, Generic Package
- Section 5.1.4.2.3, Populating Data for Generic Line Listing Report

#### 5.1.4.2.5 User Exits

A User Exit is a package, which provides a way to pass control from reports specific package to a User Exit package that performs some function (more appropriately data manipulation function), and then return control to main report specific package.

User Exit is used for data manipulations that need extended procedural capabilities.

In section *Populate Data for Generic Line Listing Report*, under each report table population, corresponding User Exit tables are mentioned.

#### See Also:

- Section 5.1.3, Global Temporary Tables > Extending Global Temporary Tables
- Section 5.1.4.2.3, Populating Data for Generic Line Listing Report

#### 5.1.4.2.6 Lexical Parameters

A Lexical Parameter is a placeholder column containing the actual text to be used in a query. At runtime report query can be modified using lexical parameters.

Modify the Report Package specification to add Lexical Parameters as shown below:

create or replace		
PACKAGE	pkg_rep_linelisting AS	
Below parame	eter variables are added because each BIP parameter needs to be	declared in package used
 [pi_enterprise_i	id NUMBER;	
pi_id	NUMBER ;	
pi_querytype	VARCHAR2 (1);	
pi_category_nam	ae VARCHAR2 (32767);	
pi_rpt_sub_titl	Le VARCHAR2 (32767);	
pi_rpt_title	VARCHAR2 (32767);	
xdo_user_name	VARCHAR2 (32767);	
pi_case	VARCHAR2 (32767);	
[Lexical para	ameter Variables]	
pi_orderby	VARCHAR2 (32767);	
gl_orderby	VARCHAR2 (32767);	
FUNCTION f_pop_	_report_data (	
pi_enterprise	_id NUMBER,	
xdo_user_name	VARCHAR2,	
pi_id	NUMBER,	
pi_querytype <b>RETURN</b> BOOLEA	VARCHAR2)	
END pkg_rep_linel	isting;	

In the above figure, two Lexical Parameters *pi\_orderby* and *gl\_orderby* are added to the Report Package.

*pi\_orderby* is the parameter in the Data Model based on the value selected in this parameter, the parameter *gl\_orderby* will be selected.

Now, add code in the Report Package body that is, in the function *f\_pop\_report\_data*, the parameter *pi\_orderby* is included as shown below:



Once the package is compiled without any errors, refer to Section 5.1.5.4, Adding Lexical Parameter in Data Model, to add the lexical parameters in the BI Publisher.

# 5.1.5 Data Model

In Argus Insight Generic Line Listing Report, there are five data sets, where *G\_Case* is the master data set from which *case\_id* column is linked to all other data sets, such as *G\_Prod*, *G\_Event* and *G\_Assess*. So, for each *case\_id* all the child data values will be fetched.



Example 5–1 Generating sample XML Data Structure with our Data Model

```
<G_CASE>
<CASE_ID>10031422</CASE_ID>
<CASE_NUMBER>BIPLLREPORT2</CASE_NUMBER>
```

```
<G_PROD>
<DAILY_DOSE>3.333 ml</DAILY_DOSE>
<DRUGTYPE>S</DRUGTYPE>
<PROD_CASE_ID>10031422</PROD_CASE_ID>
<PRODUCT_NAME>MMR StudyDB Name Comp</PRODUCT_NAME>
</G_PROD>
```

```
<G_EVENT>
<DESCRIPTION_AS_REPORTED>yellow fever</DESCRIPTION_AS_REPORTED>
<EVENT_CASE_ID>10031422</EVENT_CASE_ID>
<PREFERRED_TERM>Yellow fever</PREFERRED_TERM>
<SOC>Infections and infestations</SOC>
</G_EVENT>
```

```
<G_EVENT>
<DESCRIPTION_AS_REPORTED>rash</DESCRIPTION_AS_REPORTED>
<EVENT_CASE_ID>10031422</EVENT_CASE_ID>
<PREFERRED_TERM>Rash</PREFERRED_TERM>
<SOC>Skin and subcutaneous tissue disorders</SOC>
</G_EVENT>
```

<G\_ASSESS>

...
</G\_ASSESS>
</G\_CASE>

This section also explains the following topics:

- Data Sets
- Report Parameters
- Event Triggers
- Adding Lexical Parameter in Data Model

#### See Also:

Oracle Fusion Middleware - Report Designer Guide > Chapter 9

### 5.1.5.1 Data Sets

This section contains the information of the following actions:

- Adding New Column in Existing Data Set
- Adding New Data Set

#### 5.1.5.1.1 Adding New Column in Existing Data Set

The following are the steps to add a new column in a data set:

- 1. Click on the data set in which you need to add a column and edit using icons below **Diagram** tab.
- **2.** Let us edit data set *G\_Assess*. Click on *G\_Assess* and edit the Data Set as shown below:

ORACLE BI Publishe	er Enterprise	
Generic Line Listing Data Model		
🗆 Data Model	Diagram Structure Code	
🖃 Data Model		
🖃 Data Sets		
G_Case	Edit Data Set	<u>×</u>
G_Assess	* Name G_Assess	
G_Event	* Data Source O Default Data Source	IEN
G_Prod	PRMART <u>Refresh Data Source List</u>	
CoverPg	* SQL Query Query Builder	
<ul> <li>Event Triggers</li> <li>BeforeReport</li> <li>Flexfields</li> <li>List of Values</li> <li>QueryTypvalues</li> <li>Select Enterprise</li> <li>Parameters</li> <li>pi_querytype</li> <li>pi_querytype</li> <li>pi_d</li> <li>pi_Category_name</li> </ul>	<pre>SELECT ra.case_id evt_assess_case_ID, ra.event_causality_dv Event_Causality, re.pref_term EA_prefterm, rp.product_name EA_prodname FROM rep_evt_assess_tmp ra, rep_event_tmp re, rep_prod_dose_tmp rp WHERE ra.case_id = re.case_id AND ra.case_id = re.case_id AND ra.prod_seq_num = rp.seq_num AND ra.event_seq_num = re.seq_num ORDER BY ra.case_ID, rp.seq_num, re.seq_num</pre>	TC
pi_enterprise_id	Help OK Can	cel
11		_

**3.** In the SQL Query, add any column from the available tables and click **Query Builder**. For example, *re.onset\_ve EA\_onset*. Once query is built successfully, the column is added to the data set *G\_Assess*.

DRACLE BI Publ	lisher Enterprise					:	Search <mark>Al</mark>	¥		🕽   Help -	Sign Out 읻
Generic Line Listing Data Model							Home Catalog	New 🗸	🕒 Open 🗸	Signed In As	avanishk ~
										<b>.</b>	8
🖻 Data Model	Diagram Structure	Code									
E Data Model		1									
Data Sets											
G_Case	🗉 🔛 Global Level Fund	tions 🗮	G_Case	-		_	-				
G Assess	Drop here for aggrega	ate function	AGE	# >	DATLY, DOSE						
G Event	B G Courses	=	CASE_CAUSALITY	ac >	DATES_OF_TREATMENT						
R a Broot	CASE_COUNT	915 ×	CASE_NUMBER	ac >	DECHALLENGE	aa *0	G Event				
	CATEGORY_NAME	#C >	CASE_OUTCOME	<b>a</b> >	DRUGTYPE FORMULATION	* 26	DESCRIPTION_AS_REP	PORTED	d »		
case covering	CONFIDENTIAL	# *	COUNTRY		FREQUENCY	at >	EVENT_CASE_ID %	99		C 40000	
Event Triggers	CRITERIA	(L)~»	PATIENT RANDOMIZATION NUMBER		PROD_CASE_ID %	999 »	EVENT_OUTCOME		EVT 4	CCECC CACE II	າງ. <del>ໜີ</del> »
BeforeReport	NAME		SEX	# *	PRODUCT_NAME	2 ×	ONSET DATE TIME		× EVEN	CAUSALITY	- 4 (6) H
E Flexfields	CS_Q_FLAG	ac »	SOURCE	æ: »	RECHALLENGE	* 14	PREFERRED_TERM		A EA P	REFTERM	æ *
E List of Values	SYSTIME	😹 »	Drop here for aggregate funct	on	TREATMENT_DURATION		soc		3 » EA_0	NSET	100 ×
	TITLE	<u>at</u> »			Drop here for aggregate	function	Drop here for ag	pregate function		CODNAME	· Die
CueryTypvalues	USERNAME	at *								mere for aggre	geve rundborn
Select Enterprise	Drop here for accred	ate function									

#### 5.1.5.1.2 Adding New Data Set

The following are the steps to add a new data set:

1. Click on New Data Set icon and select SQL Query as shown below:



**2.** Write a valid SQL statement to fetch values from the report GTTs. Enter a data set name, such as *G\_NewDS* and select proper *Data Source* from the list box. Click **OK**.

Create Data Set - SQL	×
* Name G_NewDS	
Data Source 🔿 Default Data Source	
PRMART <u>Refresh Data Source List</u>	
* SQL Query Builder	
SELECT case_id, case_num, age, country, source FROM rep_case_tmp	
Hep OK Car	ncel

**3.** You can see that new data set *G*\_*NewDS* is created.

DRACLE BI Publ	lisher Enterprise						Search All	¥		Help -	Sign Out 🔎
Generic Line Listing Data Model							Home Catalog	Sew 🗸	📄 Open 🗸	Signed In As	avanishk v
											🖬 🖬 🕐
🖻 Data Model	Diagram Structure	Code									
🖻 Data Model											
🖂 Data Seta											
G_NewOS	💷 🔛 Global Level Func	tions 🔳	B G G Case				_				
Bo Case	Drop here for aggrega	te function	AGE	🛋 »	G_Prod						
		_	CASE_CAUSALITY	æ »	DAILY_DOSE DATES OF TREATMENT						
LOD G_Assess	GATE COVERPG		CASE_ID",		DECHALLENGE	*					
G_Event	CATEGORY NAME		CASE OUTCOME	abc >>	DRUGTYPE	æ *	Description as per	Detten			
G_Prod	CONFIDENTIAL		COUNTRY	àc >	FORMULATION	<b>a</b> *	EVENT_CASE_ID 1.				
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C Event Trippers	ETLTIME	# *	PATIENT_RANDOMIZATION	UNUMBER ME *	PRODUCT_NAME	ac >	EVENT_SERIOUSNESS		B > EVT_A	SSESS_CASE_I	D1, 时 >
(Part of the second sec	NAME		SOLIPICE		RECHALLENGE	æc »	ONSET_DATE_TIME			CAUSALLIT FETERM	
BeforeReport	CS_Q_PCAG CVCTIVE		Dron here for anoren	vate function	ROUTE	ac »	PREPERRED_TERM		EA OF	GET	44
E Flexfields	TITLE				TREATMENT_DURATION	#C *	Drop here for acc	enate function	EA_PR	ODNAME	ac >
E List of Values	SUBTITLE	abc >>	(		Drop here for aggregate f	unction			Drop	here for aggre	gate function
QueryTypyakes	USERNAME	<b>a</b> >							_		
	Drop here for aggrega	ite function	AGENT SUSPECT VE	ac »							
Select Enterprise			OUTCOME_VE	ac >-							
Parameters			CASE_NUM	<b>ac</b> >							
pi_querytype			COUNTRY_1	<b>a</b> e >							
de pi_id			RPT_TYPE	ate >>							
Talency name			PAT_SUBJ_NUM								
- p_category_date			RAND_NUM	atc »							
pi_enterprise_id			GENDER_VE	ee »							
₫¤¤ pi_rpt_ttie			Drop here for aggregat	te function							
(Im oi rot sub title											

**4.** Save the new Data Model and verify that new data set and columns are available in the data model. Click **Structure** tab to give proper business names for the newly added columns. You can see new data set *G\_NEWDS* is available. Modify the business name to *G\_MyDS*.

Diagram Structure Code				
Table View   Output				
IREATMENT_DURATION				
□ G_Event	G_Event		Event	
at DESCRIPTION_AS_REPORTED	DESCRIPTION_AS_REPORTED	1	Description as Reported	abc
999 EVENT_CASE_ID	EVENT_CASE_ID	<b>%</b>	Event Case ID	999
abc EVENT_OUTCOME	EVENT_OUTCOME	1	Event Outcome	abc
abc EVENT_SERIOUSNESS	EVENT_SERIOUSNESS	∞	Event Seriousness	abc
abc ONSET_DATE_TIME	ONSET_DATE_TIME	∞	Onset Date/Time	abc
abc PREFERRED_TERM	PREFERRED_TERM	∞	Preferred Term	abc
abc SOC	SOC	∞	SOC	abc
⊟ G_Assess	G_Assess		Event_Assessment	
999 EVT_ASSESS_CASE_ID	EVT_ASSESS_CASE_ID	1	EA Case ID	999
abc EVENT_CAUSALITY	EVENT_CAUSALITY	∞	Event Causality	abc
	EA_PREFTERM	∞	Preferred Term	abc
abc EA_ONSET	EA_ONSET	∞	EA_ONSET	abc
ADD EA_PRODNAME	EA_PRODNAME	∞	Product Name	abc
⊟ G_NEWDS	G_MyDS		G_MyDS	
999 CASE_ID	CASE_ID_1	1	CASE_ID	999
abc AGENT_SUSPECT_VE	AGENT_SUSPECT_VE	₩0	AGENT_SUSPECT_VE	abc
abc OUTCOME_VE	OUTCOME_VE	∞	OUTCOME_VE	abc
abc CASE_NUM	CASE_NUM	∞	CASE_NUM	abc
abc COUNTRY	COUNTRY_1	∞	COUNTRY	abc
abc RPT_TYPE	RPT_TYPE	∞	RPT_TYPE	abc
abc AGE	AGE_1	1	AGE	abc
PAT_SUBJ_NUM	PAT_SUBJ_NUM	1	PAT_SUBJ_NUM	abc
abc RAND_NUM	RAND_NUM	₩0	RAND_NUM	abc
abc GENDER_VE	GENDER_VE	∞	GENDER_VE	abc

# 5.1.5.2 Report Parameters

Report parameters are used to specify the data to use in a report, connect related reports together, and vary report presentation.

The following report parameters are used in BI Publisher:

**Note:** All the below mentioned parameters, which are used in the report data model must be declared in the report specific package.

If any of the parameters are not declared in the package, those parameters cannot be used in the data model.

S.No.	Parameter Name	Label/ Display Name	Parameter Type	Data Type	Description
1.	pi_ enterprise_id	Enterprise ID	Drop-down list	Integer	This prompt lists the Enterprise ID of all the enterprises as per your login credentials (that is, to which logged in user belongs). You are required to select an enterprise for which you want to run the report.
					For the menu type, parameter list of values object needs to be selected.
					The List of Value <i>Select</i> <i>Enterprise</i> is selected for this parameter.
					In the list of values any valid SQL query can be provided. In this parameter Enterprise ID is listed.
2.	pi_querytype	Case Series or Query	Fixed drop-down list	String	Generic Line Listing Report can be run on a Case Series, QBE, Advanced Condition or Filter. This is a drop-down (single select) list that allows user to select one of these type on which you want to run the report. The default value selected for this parameter is <i>Case</i> <i>Series</i> .
3.	pi_id	Case Series/Quer y Name	Drop-down list	Integer	An Enterprise ID is passed to get the correct Case Series/QBE/Advanced Condition/Filter names as per the login credentials.
					Case series, QBE, Advanced Condition or Filter name will be listed based on the Case Series or Query parameter selected by you.
					You will be allowed to select any one option from the drop-down list. In the report, Case Series or Query name is shown in the drop-down list, but Case Series ID or Query/Filter ID will be passed to the database packages.

 Table 5–4
 Report Parameters

S.No.	Parameter Name	Label/ Display Name	Parameter Type	Data Type	Description
4.	pi_category_ name	Category Name	User Input	String	This is optional text prompt where you can enter the name of report category (or BI Publisher folder where report is saved). This will be printed in report header box of <i>Cover Page</i> section.
5.	pi_rpt_title	Report Name	User Input	String	This is an optional text prompt where you can enter a report title. This will be printed on each page of the report.
6.	pi_rpt_sub_ title	Report Sub-Heading	User Input	String	This is an optional text prompt where you can enter report sub-heading. This will be printed on each page of the report.

Table 5–4 (Cont.) Report Parameters

#### See Also:

Report Mapping Specification Document > 2.1.6. Report Prompts

#### Adding New Parameter in Data Model

The following are the steps to add new parameter in the data model:

1. Include the parameter in the data set. For example, you want to see data for a *Case ID*. Add **where** condition with a parameter *pi\_case* in the data set *G\_NEWDS*.



2. Click Query Builder and new parameter is created. Click OK to confirm.



**3.** The parameter *pi\_case* is now available in the parameter section of the Data Model.

Generic Line Listing Data Model				Home Catal	og 🔡 New 🗠	📄 눧 Open 🗠	Signed In As	avanishk ~
🗆 Data Model	Parameters							
🖃 Data Model	A X							
🖃 Data Sets	*Name	Data Type	De	fault Value Parameter Typ	e Ro	w Placement	Reorder	
G_Case	pi_enterprise_id	Integer	<b>~</b>	Menu	~	1 🜲	0 🕑	
G_Assess	pi_querytype	String	~	Menu	~	2 🚖	00	
G_Event	pi_id	Integer	×	Text	~	3 🚖	$\odot$	
G Prod	pi_Category_name	String	<b>~</b>	Text	~	4	$\odot$	
CoverPa	pi_rpt_title	String	~	Text	~	5 🚖	00	
- Event Trianer	pi_rpt_sub_title	String	×	Text	~	6 🌲	$\odot$	
	pi_case	String	×	Text	~	7 🚖	⊘ ⊘	
<ul> <li>Flexfields</li> <li>List of Values</li> <li>QueryTypvalues</li> <li>Select Enterprise</li> <li>CaseOryNames</li> <li>Parameters</li> <li>Pi_enterprise_id</li> <li>Pi_euteryTypv</li> <li>Pi_U</li> <li>Pi_U</li> <li>QueryTypvame</li> <li>QueryTypvam</li></ul>	pi_case: Type: Text Displ TextF	ay Label Case ID: ield Size Options Text field c Refresh ot	ontains comr	ma-separated values ers on change				

**4.** Add the display label for the new added parameter, which will be shown at the time of report execution.

#### Parameters

Name	Data Type	Default Value
i_enterprise_id	Integer	~
pi_querytype	String	×
pi_id	Integer	×
pi_Category_name	String	×
pi_rpt_title	String	×
pi_rpt_sub_title	String	×
pi_case	String	~

pi_cuber ryper rea	p	i_	case:	Ту	/pe:	Т	ext	t
--------------------	---	----	-------	----	------	---	-----	---

Display Label	Case ID:	
Text Field Size		
Options	<ul> <li>Text field contains comma-separated</li> <li>Refresh other parameters on change</li> </ul>	values

**5.** Declare the parameter *pi\_case* in the Generic Report Line Listing Package *pkg\_rep\_ linelisting*. It is mandatory to declare the parameter in the report package. If the parameter is not declared, the report will not execute. Execute the report and you will be able to search data based on the newly added parameter *Case ID*.

#### See Also:

Section 5.1.4.2.2, Adding New Parameter in Package

Generic Line Listing Data Model					
Enterprise ID:	3				
Case Series or Query:	Case Series				
Case Series/Query Name:	SELECT				
Category Name:					
Report Name:					
Report Sub-Heading:					
Case ID:					
Number of rows to return 5	Run				

**6.** If the parameter is not declared in the package, the error message *Component PI\_ CASE must be declared as shown in the enterprise manager bipublisher logs* displays as shown below:

bipublisher(11.1.1) () Application Deployment -				Logged in as	weblogic Host BUR( Page Refreshed Se
Log Messages			A Broad	en Target Scope	<ul> <li>Target Log Files</li> </ul>
Data Darasa					
Date Range Most Recent ⊻	8 Minutes 💙				
* Message Types 🗹 Incident Error	🗹 Error 🔽 Warning 🔽	Notification 🗹 Trace 🗹 Unknown			
Message contains	*				
() Search					
Jocarda,	Auu Fielus				
View - Show Messages	View Related	Messages 🔻 Export Messages to File 💌			
Time A V	Aessage Massage ID	Marazan	Executio	n Context	Loo Filo
Time T	ype Message 10	Hessage	ECID	Relationship ID	Log nie
Sep 25, 2012 4:14:48 AM EDT	Warning	oracle.xdo.servlet.CreateException: Path: /Lexical/Argus Insight/General/Dat	72cd7c99d60c195	0	bipublisher.log
Sep 25, 2012 4:14:49 AM EDT	Warning	java.sql.SQLException: ORA-06550: line 8, column 21:	72cd7c99d60c195	0	bipublisher.log
Sep 25, 2012 4:14:49 AM EDT	Warning	SQLException encounter while executing data trigger	72cd7c99d60c195	0	bipublisher.log
Sep 25, 2012 4:14:49 AM EDT	Warning	javax.servlet.ServletException: oracle.xdo.XDOException: oracle.xdo.XDOEx	72cd7c99d60c195	0	bipublisher.log
Sep 25, 2012 4:14:49 AM EDT	Warning	oracle.xdo.XDOException: oracle.xdo.XDOException: oracle.xdo.XDOExcepti	72cd7c99d60c195	0	bipublisher.log
Sep 25, 2012 4:14:49 AM EDT	Warning	UIUTils.renderError: strict servlet API: cannot call getWriter() after getOutpu	72cd7c99d60c195	0	bipublisher.log
Rows Selected 1 Columns Hie	dden 19				
□ Sep 25, 2012 4:14:49 AM EDT (V	Varning)				
Message Level 1		Host IP Address 10, 149.3	8.218		
Relationship ID 0		liser <appnyr< td=""><td></td><td></td><td></td></appnyr<>			
Component bi server1		Thread ID 26			
Module, oracle vdo		ECID 72cd7c9	d60c1951-6613ce12	139c3422a11+.8000	-000000000006465
Host BLD01153		Ecili /2cu/cs			
Message oracle vdo VDO	Exception: grade vdo VD	OException: grade vdg XDOException: grade vdg XDOException: java od SOLEX	cention: ORA-06550	line 8. column 21:	
Supplemental Detail PLS-00302: com ORA-06550: line PL/SQL: Stateme	ponent 'PI_CASE' must be e 8, column 1: ent ignored	e declared			

**7.** Once the parameter *pi\_case* is declared in the package, the report is executed successfully.



### 5.1.5.3 Event Triggers

The following are the steps to view event triggers:

**1.** In BI Publisher report, there are three different types of event trigger: *Before Data, After Data* and *Schedule*.

Generic Line Listing Data Model			
🗆 Data Model	Event Triggers		
🖃 Data Model	+ X		
Data Sets	*Name Type	Language	Reorder
G_Case	BeforeReport Before Data	PL/SQL	
G_Assess	After Data Schedule		
G_Event			
G_Prod			
🖪 CoverPg			
Event Triggers			
BeforeReport			
E Flexfields	BeforeReport: Language: PL/SQL		
<ul> <li>List of Values</li> </ul>	Oracle DB Default Package pkg_rep_lineliz	ting Update Defa	ult Package
QueryTypvalues	•		
Select Enterprise	Available Functions	Event Trigge	r
CaseQryNames	Reckages	pkg_rep_line (:pi_enterpris	isting.f_pop_report_data se_id,:xdo_user_name,:pi_id,:pi_querytype
Parameters	<sup> </sup>		
📑 pi_enterprise_id	= (∭⊐ pi_case		
📑 pi_querytype	ıĭ,≡ pi_rpt_sub_title		
📑 pi_id	ı <b>ĭ</b> ≡ pi_rpt_title		
и́ — на н	(j≡ pi_Category_name	>	
pi_Category_name			
u≕ pi_Category_name u≕ pi_rpt_title	er pi_ia ervtvpe		
v≕ pi_Category_name V= pi_rpt_title V= pi_rpt_sub_title	≣ pi_ia ≌ pi_querytype ⊒ pi_enterprise_id		

2. In the Event Triggers, for the Generic Line Listing Report you will create *Before Data* trigger, which will set the user context before populating all the reporting GTTs. The function called in the Event Trigger as shown in the above picture is:

pkg\_rep\_linelisting.f\_pop\_report\_data(:pi\_enterprise\_id,:xdo\_user\_name,:pi\_ id,:pi\_querytype)

**3.** In case, you want to delete some customized tables after data is generated, you can create Event Trigger of type *After Data* and call package with delete statements.

See Also:

Report Designer's Guide for Oracle Business Intelligence Publisher

#### 5.1.5.4 Adding Lexical Parameter in Data Model

The following are the steps to add lexical parameter in the data model:

1. Edit the data set *G\_Case*. Add Lexical Parameter *&gl\_orderby*, as declared in the package.

See Also:

#### Section 5.1.4.2.6, Lexical Parameters

Edit Data Set	×
* Name G_Case * Data Source O Default Data Source • PRMART • Refresh Data Source List	
* SQL Query	Query Builder
SELECT age age, agent_suspect_ve Case_Causality, case_id Case_ID, case_num Case_Number, outcome_ve Case_Outcome, country Country, pat_subj_num Patient_ID, rand_num Patient_Randomization_Number, gender_ve Sex, rpt_type Source FROM rep_case_tmp ≷_orderby	
Help	OK Cancel

2. When Lexical Parameters are added for the first time in the Data Model, BI Publisher will ask for lexical references in SQL that is, Default Value for the Lexical Parameter.



**3.** Create a List of Values, **Order By** as shown below:

Data Model	List of Values			
🖃 Data Sets	+ X			
G NEWDS	*Name	Туре	Data Source	Reorder
	OrderBy	Fixed Data 💌	×	$\odot$
G_Case	QueryTypvalues	Fixed Data 💌	×	$\odot$
G_Assess	Select Enterprise	SQL Query 🔽	PRMART V	
G_Event				
G_Prod				
CoverPg				
😑 Event Triggers				
BeforeReport	•			
E Flexfields	OrderBy: Type: Fixed Dat	ta		
List of Values	+ ×			
CrderBy	*Label	*Value		
QueryTypvalues	Order by case num			
E Select Enterprise	Urder by case id	2		

**4.** Create the parameter *pi\_orderby* in the Data Model and assign the *LOV-OrderBy* as shown below:

þ	arameters								
9	÷ ×								
	*Name	Data Type		Default Value	Parameter Type		Row Placement	Reorder	
	pi_id	Integer	*		Text	*	2 😴	$\odot$	^
	pi_Category_name	String	*		Text	v	3 🚖	$\odot$	
	pi_enterprise_id	Integer	*		Menu	¥	4	$\odot$	
	pi_rpt_title	String	*		Text	v	5 🚖	$\odot$	
	pi_rpt_sub_title	String	*		Text	v	6 🚖	$\odot$	
	pi_case	String	*		Text	¥	7 🚖	$\odot$	
	pi_orderby	String	~		Menu	*	8 🚖		~

**5.** View the Report by selecting the parameter *OrderBy*.

Generic Line Listing Data N	lodel		Home Catalog	New 🗸 📋	╞ Open 🗸	Signed In As	avanishk v
Case Series or Ouery:	Case Series	~				Return	₩?
Case Series/Query Id:	6						
Category Name:	General						
Enterprise ID:	3	<b>~</b>					
Report Name:	Cioms II						
Report Sub-Heading:	Line listing						
Case ID:							
Order By:	Order by case num	~					
Number of rows to return 5	Order by case id	N					
		h2-					
Report Name: Report Sub-Heading: Case ID: Order By: Number of rows to return 5	Cioms II Line listing Order by case num Order by case num Order by case id						

**6.** Execute the Report and verify that data is in order by Case ID as per the selected option. You can find that the XML value of *pi\_orderby* is '2'. In the package *pi\_orderby* value '2' means Order By *case\_id*.

#### See Also:

Section 5.1.4.2.6, Lexical Parameters

Generic Line Listing Data	Generic Line Listing Data Model						
-							
Case Series or Query:	Case Series	<b>~</b>					
Case Series/Query Id:	6						
Category Name:	General						
Enterprise ID:	3	<u>~</u>					
Report Name:	Cioms II						
Report Sub-Heading:	Generic Line Listing						
Case ID:	10030850						
Order By:	Order by case id	<b>~</b>					
	Kun_						
<pre></pre>							

**7.** Check the case data for the order of cases by *case\_id:* 10031420 and 10031421 in figure shown below:



**8.** Now, select the *Order By case\_num* option in the Data Model.

Generic Line Listing Data I	Model			
Case Series or Query:	Case Series	<u>~</u>		
Case Series/Query Id:	6			
Category Name:	General			
Enterprise ID:	3	<u>~</u>		
Report Name:	Cioms II			
Report Sub-Heading:	Generic Line Listing			
Case ID:	10030850			
Order By:	Order by case num	<u>~</u>		
<pre><?xml version="1.0" encoding="UTF-8" ?> <!-- Generated by Oracle BI Publisher 11.1.1.6.0--> - <data_ds></data_ds></pre>				

**9.** Verify the case data for order of cases by *case\_num*: 10031420 and 10031424, in the figure shown below:

Generic Line Listing Data Model		
Case Series or Query:	Case Series	
Case Series/Query Id:	6	
Category Name:	General	
Enterprise ID:	3	<ul> <li>.</li> </ul>
Report Name:	Cioms II	
Report Sub-Heading:	Generic Line Listing	
Case ID:	10030850	
Order By:	Order by case num	<ul> <li>.</li> </ul>
Number of rows to return 5	Run -	
- <g_case></g_case>		
<age>29 Years</age>		
<case causality="">Yes</case>		
<case id="">10031420</case>		
<case_number>BIPLLREPORT1</case_number>		
<case_outcome>Congenital Anomaly</case_outcome>		
PATIENT PANDOMIZATION NUMPER 34 -/DATIENT PANDOMIZATION NUMPER		
SOURCE Sponsored Trial / SOURCE		
C CASE		
<pre><case_ourcome>Begin_rest or @###; g µeAtAtAtAtAr A s#igbgNtoso dod</case_ourcome> contexts //case_ourcome&gt;</pre>		
<country>TURKMENISTAN</country>		

# 5.1.6 BI Publisher Report Templates

This section explains the types of report template used in BI Publisher Report as follows:

- Layout Editor
- Rich Text File Template

To view Event Assessment Data in the reports, you should create Event Assessment as a separate block in both Layout Editor and Rich Text File (RTF) template; Product and Event details should be fetched from the Event Assessment Level only to see Event Assessment Data.

This section also explains:

BI Publisher Logs

#### 5.1.6.1 Layout Editor

The following are the steps to edit/modify an existing report layout:

1. Create a Repeating section as shown below:



2. Select a valid Group Name that is, Element from the element drop-down list.



**3.** A Repeating section is created, as shown below:



**4.** Add columns in the Repeating section. For example, click **Case Number** and drag it to the Report Layout section.



**5.** Drag Case Level columns only in the above Repeating section. Columns from other groups, such as **Product** or **Event** should not be included here.



**6.** Add a child Repeating section for the Product.
Appearance		kr Select ▼	Custom	· Custom ·			Ĩ.a 4	
Background Color		🗙 Delete 👻	BZU	A 🚯 🖪			😰 🎽 🖪	Delete Column
Border Bottom		Delete	100	/	250	200		450 500
Border Left		50	100 150	200	250	300	350 400	450 500
Border Right		Ca	se Count:					
Border Top								
Height			Total Count of Ca	ses in Hitlist:	Case Cou	nt		
Padding	Зрх Зрх Зрх Зрх 🖂		and Case Casing	Nama				
Text Alignment	Left		lery / Case Series	Name.				
Vertical Alignment	Тор		NAME					
Width	104 px 💉							
		Qu	ery / Case Series	Criteria:				
			0075014					
			GRITERIA					
		Ca	ase Number	Age	Sex	Source	Country	Case Outcome
			Start Repeating -	Case				
			aco Numbor					
			ase wurnder					
			End Repeating -	Case				

**7.** In the Repeating section, you can add **Layout Grid** with as many required columns as you want to include in the report.

Query / Case Series	Name:				_	
Duery / Case Series	Criteria:		Insert a Layout Grid       Rows     1       Columns     2			
Case Number  Start Repeating -	Age Case	Sex			duct Name	Desc. as Reported
Case Number	Age	Sex	Help	OK Cancel	Start Repeating roduct Name End Repeating	g Start Repeating - Ever

**8.** Add Repeating section for child group *Event Assessment*. Once added, save the report and click **Return**.

Insert a Repeating Section	×
Repeating/Grouping by	
Element Event_Assessment	
O Group Detail	
	OK Cancel

**9.** The Report is displayed as shown below:



**10.** Click **View a list** to select Default Format, Default Report and etc.

Apply Style Template												
Apply Style Template			~									
lame	Template File	Туре	Output Formats	D	Default Format	Default Layout	Apply Style Template	Active	View Online	Locale		Re
Line Listing Layout	Line Listing Layout.xpt	xpt	PDF;RTF;Excel	<b>~</b> [	PDF 💌			<b>V</b>	<ul><li>✓</li></ul>	English (United States)	~	0
_E_LineListing_test	LE_LineListing_test.xpt	xpt	PDF;RTF;Excel	~ F	PDF 💙			<b>V</b>	<b>V</b>	English (United States)	~	(
_E_RepeatingFrame	LE_RepeatingFrame.xpt	xpt	PDF;RTF;Excel	~ F	PDF 💌				<b>V</b>	English (United States)	~	6
ayout report 1	Layout report 1.xpt	xpt	Interactive;HTML;PDF	× 1	Interactive 💌			~	<b>V</b>	English (United States)	V	(
ayout report 1.1event	Layout report 1. 1event.xpt	xpt	Interactive;HTML;PDF	× 1	Interactive 💌					English (United States)	~	(
est report	test report.xpt	xpt	PDF;RTF;Excel	× F	PDF 💙			<b>V</b>		English (United States)	V	0
LL DOC	LL DOC.xpt	xpt	PDF;RTF;Excel;Power *	~	PDF 🗸			~		English (United States)	V	0

**11.** To add more columns in a Repeating section, go to Data Source panel and select the required column from the appropriate group. Drag the selected column into the Repeating section.

Generic Line Listing Report-LE : LL_DO				Home   Catalog   📓 New 🗸	🔁 Open 🗸 🛛 Signed In As 🏻 punce
🖃 Data Source	🧐 🔍 🐰 🗋 🛍 🖌 🛛 Inse	ert Page Layout			Return 🔄 🔄 🕞 🚮
- 🔤 Report Execution Time 🗖	Components		Page Elements		
deg Report Name     deg Report Sub-Heading     deg UserName	🖬 Layout Grid 🛛 🔠 Data Table 🛄 O	hart III Pivot Table 🗮 List	Rage Break 🖉 Page Number		
🖻 🔄 Case	Repeating Section 🖮 Text Item 🛛 G	auge 🔛 Image	Total Pages		
	59 100 109 109 109 109 109 109 109 109 10	200, 300, 310, 111, 111, 111, 111, 111, 1	- 460 - 550	- 660 - 662 - 780 - 770 - 660	
ac Rechallenge     ac Route					
E- Dreatment Durator	Case Number Age	Sex Source Cour	ntry Case Outcome Produ	ct Name Desc. as Reported Onset D	Date/Time
dk Description as Reps     Went Case ID	▼ Start Repeating - Case				
de Event Outcome     de Event Seriourness     de Onset Date/Time     de Onset Date/Time     de SOC	Case Number Age	Sex Source	Pro	Start Repeating - Event duct Name End Repeating - Event Preferred Onset Term Date/Time End Repeating - Event	Start Repeating - Event     Preferred     Term     End Repeating - Event, A
Event_Assessment     Bill EA Case ID     Act Event Caysality     Act Preferred_brm	End Repeating - Case				

12. The column *Event Causality* is added in the **Event Assessment** section.

2	Case Number	Age	Sex	Source	Country	Case Outcome	Product Name	Desc. as Reported	Onset Date/Time
1	<ul> <li>Start Repeating - Case</li> </ul>								
	Case Number	Age	Sex	Source			<ul> <li>Start Repeating</li> <li>Product Name</li> <li>End Repeating</li> </ul>	<ul> <li>Start Repeating - Eve</li> <li>Preferred</li> <li>Onset</li> <li>Term</li> <li>Date/1</li> </ul>	nt  Start Repeating - Event Preferred tevent Term Causality
								End Repeating - Even	t End Repeating - Event_A
1	End Repeating - Case	_	_	_					

**13.** To execute the report, click **Report Link** or **Open** the report. The following screen displays:

Generic Line Listing Repo	ort-LE			Home	Catalog	🗳 New 🗸	╞ Open 🗸	Signed In As <b>avanishk</b> ~
Enterprise ID:	3	<b>~</b>						
Case Series or Query:	Case Series	~						
Case Series/Query Name:	SELECT	<u>~</u>						
Category Name:								
Report Name:								
Report Sub-Heading:		Apply						
Generic Line Listing Re	eport-LE							R 🖿 🖂 🗮 🥐
<u></u>								PDF
								RTF
								Excel

**14.** Enter the appropriate parameters.

Generic Line Listing Report-L	E									
Enterprise ID:	3	~								
Case Series or Query:	Case Series	<b>~</b>								
Case Series/Query Name:	CS Group2- 551	~								
Category Name:	General									
Report Name:	Cioms II									
Report Sub-Heading:	LE Line Listing	Apply								
Generic Line Listing Repor	t-LE									

**15.** Select a report output type, like *PDF*.

Generic Line Listing Report-LE	Home	Catalog	🔮 New 🗸 🚽	╞ Open 🗸	Signed In As avanishk ~
Enterprise ID: 3					
Case Series or Query: Case Series					
Case Series/Query Name:SELECT					
Category Name: General					
Report Name: Cioms II					
Report Sub-Heading: Generic Line Listing Apply					
Generic Line Listing Report-LE					🕲 💷 д 🚐 🕄
					PDF View Report
					RTF
					Excel

#### **16.** The report is generated in PDF format.

Generic Line Listing Report-LE	Home	Catalog 🔤 New 🗸	╞ Open 🗸	Signed In As avanishk v
Case Series or Query: Case Series				
Case Series/Query Id: 6				
Category Name: General				
Enterprise ID: 3				
Report Name: Cioms II				
Report Sub-Heading: LE Generic Line Listing	Apply			
Generic Line Listing Report-LE	Apply			🖗 💷 🛌 🗮 🕄
ORACLE		20-8EP-201	General	
Cioms II LE Line Liating				
Report Filters/Promptex				
Start Time of Lest ETL Run:				
04-sep-2012 20 25:18 GMT-8				
Case Court				
Cose Series Name:				
BIPLL (The Case Series was last modified on : 23-	AUG-2012 09:16 GMTAmerica/New_York)			
Case Series Criteria:				
Case Number contains 'BIPLL'				
evanishk - Ent2hew	Confidentialus Ádálásár A	Pa	ge 1 of 3	

## 5.1.6.2 Rich Text File Template

The RTF template has a main template and one sub-template. You can use the sub-template in any future reports.

• **Sub-template:** The sub-template cover page details are as shown below:

template:Header?		
		Category
		Rpt Exec Date
Rpt Title		
Rpt Sub Title		
end Header?		
template:Covpg?		
Report Filters/Prompts:		
Start Time of Last ETL Run:		
ETLtime		
Case Count:		
Total Count of Cases in Hitlist: 0		
CS/Query Name:		
Name		
CS/Query Criteria:	-	
Criteria		
end Covpg?		
template:Footer?		
		D

The sub-template is divided into three categories:

- Template- Header: It contains Company Logo, Report Run Date, Report Category, Report Title, and Report Sub-heading.
- **Template- CovPG:** It contains Report Prompts, Start ETL Time, Case Count, Query/Case Criteria and Name.
- Template- Footer: It contains Login User, Confidentiality and Page Number.
- Main Template: In this template the report columns are created in different tables for different groups. Besides, sub-template should be called in the Main Template as shown below:

CaseNumber	Age	Sex	Source	Country	Case Outcome	Product Name	Product Type	Daily Dose	Formulation	Dates of Treatment	Treatment Duration	Description as Reported	Onset Date/Time
G1 Case No	Age	Sex	Source	Ctry	CaseOut	GP ProdName	DrgT	Dose	Form	DOT	TDE	CEDesc	Onset

#### Adding New Column in RTF

The following are the steps to add a new column in RTF:

- 1. Remove any existing column from the specific group, like Product or Event and add a new column from the same group. Or, reduce the width of the column to add a new column without removing an existing column.
- 2. To view Event Assessment values, Product and Event information should be fetched from the Event Assessment Level only. You should not compare Event Assessment Data with Product and Event level columns given in the Default Report template.
- **3.** Click **Edit** in the RTF template report and save the RTF template at your local machine.

Comports/Line Listing Report-SubTemplate.xsb?> Ccall-template: Header?>

CaseNumber	Age	Sex	Source	Country	Case Outcome	ProductName	Product Type	Daily Dose	Formulation	Dates of Treatment	Treatment Duration	Description as Reported	Onset Date/Time
G1CaseNo	Age	Sex	Source	Ctry	CaseOut	GPProdName	DrgT	Dose	Form	DOT	TDE	GEDesc	Onset⊟⊟

**4.** Click **Open** to display the RTF template document. Double-click on any existing column of BI Publisher. The BI Publisher **Properties** displays. Enter any valid XML tag for BI Publisher columns.

See Also:

Section 5.1.5.1.2, Adding New Data Set for XML tags available under the Data Sets **Structure** tab.

Generic Line Listing Report-RTF	
Data Model Generic Line Listing Data M	odel 🔍 📑
ORACLE	File Download
a para a la contra de la contra	Do you want to open or save this file?
	Name: Generic Line Listing Report.rtf Type: Rich Text Format, 76,3KB
1011 1011 1010 No. 10	From: bur01153.oradev.oraclecorp.com
Generic Line Listing Report-RTF <u>Edit</u>   Properties   Delete	Open Save Cancel
	While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. <u>What's the risk?</u>

**5.** Modify the column *Country* to display *Patient Random Number* column and save the RTF.

BI Publish	er Properti	ies				×
Properties	Advanced					
Code						
COUN</td <td>TBY?&gt;</td> <td></td> <td></td> <td></td> <td></td> <td><u>~</u></td>	TBY?>					<u>~</u>
1						
Word Pro	perties			ОК	Can	cel
Zimportrydo	vel:///Argue In	sight/Ge	neral/De	aports/Line	isting Pen	ort-SubTe
?call-templat	e: Header?>	aigiry de	neral/re	spons/uner	Listing Kep	ore-Subire
CaseNumbe	er	Age	Sex	Source	Country	Case
G1Case No		Age	Sex	Source	Ctry	CaseOut

6. Upload RTF to the report. Click Add New Layout option as shown below:



### 7. Click Upload.

Generic Line Listin	g Report-RTF		
Data Model Generio	: Line Listing Data Model 🔍 📑		
Create Layout			
basic rempiat			
Blank	Blank Header and	Header and	
Upload Templa	te File	×	Ì
*Layout Name			
*Template File	Browse		
*Type	Select		
*Locale	Select 🗸		
		Upload Cancel	
Unload or Con	arato Lavout		4
opload of den			
1	Upload RTF, PDF, Excel, Flash, XSL Stylesheet, or eText template file.	Ge	nerate RTF layout based on ected Data Model.
Upload		Generate	

#### **8.** Select the new **RTF template**.

Upload Templa	ite File 🔳
*Layout Name	LL_NEW
*Template File	D:\Aarvi\Argus\SourceC
*Type	RTF Template
*Locale	English
	Upload Cancel

9. Once uploaded, you can find two layouts in Thumbnail format as shown below:

ORACLE BI Publisher Enterprise	Search All		Administration $\mid$ Help $\sim$ $\mid$ Sign Out $\bigcirc$
Generic Line Listing Report-RTF	Home Cat	talog 📔 🎴 New 🗸 📋	≽ Open 🗸 🛛 Signed In As 🛛 avanishk 🗸
Data Model Generic Line Listing Data Model 🔍 📑	(ab) Par	rameters 🔜 Prop	erties 🛛 📓 View Report 🛛 📄 🔂
			View Thumbnails View a list
			🕂 Add New Layout
CRLF			
Income In			
Variado         Suriado           Variado         Entrato           Variado         Entrato           Variado         Entrato           Variado         Entrato           Variado         Entrato			
Generic Line Listing Report-RTF LL_NEW Edit   Properties   Delete Edit   Properties   Delete			

**10.** Click **View a list** option to select Default Report and Output Format options. Once you have saved the changes, click on view report option to execute the report.

igned In As <b>avanishk</b> ~
ew Report 🛛 🔒 🛃 🕄
Thumbnails View a list
Reorder
s) 🔽 🔕 🥑
Sector

**11.** You can find both the Layouts and can view any Report Template Output by selecting the appropriate tab. After passing correct parameters click **Apply**.

Generic Line Listing Report-F	RTF						
Enterprise ID:	3	~					
Case Series or Query:	Case Series	<b>~</b>					
Case Series/Query Name:	SELECT	<b>~</b>					
Category Name:							
Report Name:							
Report Sub-Heading:		Apply					
Generic Line Listing Report-RTF LL NFW							

#### See Also:

*Oracle Business Intelligence Publisher Technical Reference Manual > Report Designer's Guide > Oracle Fusion >Creating an RTF template section.* 

#### 5.1.6.3 BI Publisher Logs

While running BI Publisher report, by passing incorrect/invalid parameters, sometimes you may get the following error messages:



#### Or,

The XML page cannot be displayed

Cannot view XML input using XSL style sheet. Please correct the error and then click the Refresh button, or try again later.

End tag 'span' does not match the start tag 'img'. Error processing resource 'http://bur01153.oradev.oraclecorp.com:9704/xm...

<table style='background=color: #d9e5ef; margin-top: 10px;' width='100%' cellspacing='0' cellpadding='0' border='0' summa...

Verify the BI Publisher logs from the Enterprise Manager.

You can verify the AI log tables or login to enterprise manager to check the BI Publisher server logs.

#### See Also:

#### Section 5.1.4.2.4, Log (Audit) Table

The following are the steps to check BI Publisher server logs:

- 1. Login to Enterprise Manager.
- 2. Click Applications > BI Publisher.
- **3.** Click **Clustered Application Deployment > Logs and View Log messages** as shown below:

	e Ma	nager 11g Fusion Middleware Contro	ol	
📑 Farm 👻 🔒 Topology				
<b>∃ -</b>	٠	bipublisher(11.1.1) 🗿		
🗆 📴 Farm_bifoundation_domain		Clustered Application Deployment 🗸		
🗆 🚞 Application Deployments	-	Home		
표 🚞 Internal Applications				
🕀 🚉 adminservice(11.1.1)		Control	>	-1- 0
🕀 🔛 analytics(11.1.1) (bi_		Logs	>	View Log Messages
biadminservices(11.1		AT		Administration Consc
🛅 biadminutils(11.1.1) (		Performance Summary		
		Performance Summary		
		Michigania Comune Administrativa Comunis		
bimiddleware(11.1.1)		WebLogic Server Administration Console		EJBs
		ADF	>	
biofficeclient(11.1.1)				Bean
bipublisher(11.1.1		General Information		Bean
	v	/ork Manager		Bean Transaction
ESSAPP (bi_cluster)	-	Requests (ner minute) 0.00		Bean Transaction
		Pending Requests 0		Bean Transaction
🖽 🛄 WebLogic Domain				Dean Tra
🖽 🛄 Business Intelligence				
🖄 🛄 Metadata Repositories		Deployments		

**4.** Select the *Date Range* or *Message Type* and click **Search**. The BI Publisher logs displays as the search result.

og Messages			A Broad	en Target Scope 💌	Target Log F
= Search	1100a - 1-a				
Date Range Most Recent 💙	8 Minutes 💙				
* Message Types V Incident Error V Error	Warning Notification	Trace Unknown			
Massage contains					
Message Contains					
Search     Add Field	s				
View 🗸 Show Messages 💌	View Related Messages 🔻	Export Messages to File 💌			
			Executio	n Context	
Time A Type	Message ID Message		ECID	Relationship ID	Log File
Sep 25, 2012 4:14:48 AM EDT Warning	oracle, xdo,	servlet.CreateException: Path: /Lexical/Argus Insight/General	/Dat 72cd7c99d60c195	0	bipublisher.
Sep 25, 2012 4:14:49 AM EDT Warning	java.sol.SO	LException: ORA-06550: line 8, column 21:	72cd7c99d60c195	0	bipublisher.
Sep 25, 2012 4:14:49 AM EDT Warning	SQLException	on encounter while executing data trigger	72cd7c99d60c195	0	bipublisher.
Sep 25, 2012 4:14:49 AM EDT Warning	javax.servk	et.ServletException: oracle.xdo.XDOException: oracle.xdo.XD	OEx 72cd7c99d60c195	0	bipublisher.
Sep 25, 2012 4:14:49 AM EDT Warning	oracle.xdo.	XDOException: oracle.xdo.XDOException: oracle.xdo.XDOExc	epti 72cd7c99d60c195	0	bipublisher.
Sep 25, 2012 4:14:49 AM EDT Warning	UIUTils.rend	derError: strict servlet API: cannot call getWriter() after getOu	itpu 72cd7c99d60c195	0	bipublisher.
tows Selected 1 Columns Hidden	19				
	S.				
Message Lough 1	0	Heat TD Address 10	140 20 210		
Relationship TD 0		Host IF Address It	119300.210		
Component bi convert		Thread ID, 26	anonymous /		
Madula anada uda		FOTO 70	ad7-00d60-1051-661212	120-2422-11, 2000	000000000000000000000000000000000000000
		Leib 72		15505422811,00000	000000000000000000000000000000000000000
Host PLP01152					
Host BUR01153	au arada vda VDOEvraatiaau s	vada vda VDOEvcaatiaa, arada vda VDOEvcaatiaa, java od	COLEveration: ODA 06EE0.	line 9 column 21	

# 5.1.7 BI Publisher Reporting Tips

You can extend our existing report model using the following actions:

- Adding Column in Global Temporary Tables
- Populating New Column in User Exit Package
- Adding New Column in Data Set
- Adding New Column in Layout Report

### 5.1.7.1 Adding Column in Global Temporary Tables

The GTTs are created in the MART database.

To add new column in a GTT, login to the **Mart schema** and add a new column *CUSTOM* in the *GTT rep\_case\_tmp* as shown below:

AITOING_APR_MART ×									
🕨 📓 🕲 I 🚱 📓 I 🖓	🗛 🥔 🛐 ।								
DESC REP_CASE_TMP;	DESC REP_CASE_TMP;								
arter table rep_case_	_cmp and (cusc	OMI VARCIARZ(30 CIARC));							
Statement Output ×									
📌 🥔 🖥 📇 🗾 I									
DESC REP_CASE_TMP									
Name	Null	Туре							
CASE_ID		NUMBER							
AGENT_SUSPECT_VE		VARCHAR2(10 CHAR)							
OUTCOME_VE		VARCHAR2(50 CHAR)							
CASE_NUM		VARCHAR2(20 CHAR)							
COUNTRY		VARCHAR2(50 CHAR)							
RPT_TYPE		VARCHAR2(30 CHAR)							
AGE		VARCHAR2(30 CHAR)							
PAT_SUBJ_NUM		VARCHAR2(20 CHAR)							
RAND_NUM		VARCHAR2(15 CHAR)							
GENDER_VE		VARCHAR2(10 CHAR)							
CUSTOMI		VARCHAR2 (50 CHAR)							

### 5.1.7.2 Populating New Column in User Exit Package

You can populate the column *CUSTOM* in User Exit package by modifying the package to include your DML statements and compile the package as shown below:



### 5.1.7.3 Adding New Column in Data Set

The following are the steps to add a new column in the data set:

1. Edit the existing Data Model and save the new Data Model with appropriate name, such as LL\_NEW\_CUSTOM1\_COL.

LL_NEW_CUSTOM1_COL		Home	Catalog	New 🗸	눰 Open 🗸	Signed In As	avanishk ~
v							🗖 🖬   📀
Data Model	Properties						
Data Model	Description	Argus Insight 7.0.2. This data model c reports.	ontains dat	a items with calo	culations for cre	ating line listing	
a							

**2.** Edit the data set *G\_Case*, include the new column and save the Data Model. The column *CUSTOM* is added to the data set as shown below:



3. Click Get XML Output to view the XML output of the new data model.

ORACLE' BI Pu	blisher Enterprise	Search All 👻	Ø	$ $ Administration $ $ Help $\checkmark$	Sign Out 🝳
LL_NEW_CUSTOM1_COL		Home	Catalog 🔤 New 🗸 🛛	눧 Open 🗸 🛛 Signed In A	s <mark>avanishk</mark> ∨
					🖬 🖬 🕐
🗆 Data Model	Diagram Structure Code			G	et XML Output
E Data Model					
m Nata Sate					

**4.** In the above generated XML output, verify the column *CUSTOM* that is populated with the value as per the logic written in the *User Exit* package.



### 5.1.7.4 Adding New Column in Layout Report

The following are the steps to add a new column in the Layout Report:

1. Edit the existing Layout Report and save as LL\_NEW\_CUSTOM\_LE. Check that new data model is selected for the new Layout Report.

Generic Line Listing Report-LE	
Data Model Generic Line Listing Data M	iodel 👫 📑
	Select Data Model
Generic Line Listing Report-LE Edit   Properties   Delete	

2. Select the Data Model LL\_CUSTOM1\_COL

**3.** At the top-left corner, you can see the new data model as selected for the Layout Report.



4. Save the Layout Report as LL\_NEW\_CUSTOM\_LE.

Save Layout	×
Layout List	
and may assume the state	
Generic Line Listing Report-LE [xpt]	
Layout Name: LL_NEW_CUSTOM_LE	
Locale: English (United States)	
Hein	Save Cancel

**5.** In the Data Source panel you can view the column *CUSTOM*.

Gener	ic Li	ne L	isting Report-LE : LL	NE\	w_c	USTOM.	LE						Home	Catalog	New 🔤
🗆 Data	a So	urce	<u>.</u>		5	0	Ж		🔣 🗸	Inser	rt Pa	ge Layout	Layout Grid	]	
	ē	Cov	/er_Page	^		Select									
		999 abc	Case Count Category Name			Select	Ļ								
		abc	Confidential			Select									
		abc	Criteria			Colete									
		abc	ETL time			50	)	100	150	200	250	300	350 400	450	500
		abc	Name Oueru / Case Series				- 11	IAME							
		abc	Report Execution Time												
		abc	Report Name				Que	ry / Case	Series Crite	eria:					
		abc	Report Sub-Heading												
		abc	UserName				- 8								
÷	D	Cas	e												
		abc	Age												
	-	abc	Case Causality				Cas	e Number		Age	Sex	Source	Country	Custom	
		999	Case ID Case Number												
		abc	Case Number				<b>.</b>	Start Repe	eating - Cas	e //					
		abc	Country				ľ								
		abc	Patient ID												
		abc	Patient Randomization I	( ) (			Cas	se Numbe	r	Age	Sex	Source	Country		
		abc	Sex												
		abc	CUSTOM												
		abc	Source					End Repe	ating - Case						
	-	P	Product /DATA_DS/G_C	ASE	/CU	TOM									

**6.** Drag the column and include in the **Case Repeating** section only. Save the Layout Report. Click **Return** and then click **View Report**.

Generic Line Listing Report-LE		Home Catalog S	New 🗸 📋 洁 Oper	i∨ Signed In As <b>avanishk</b> ∨
Data Model LL_NEW_CUSTOM1_COL	<b>F</b>	(ab) Parameters	Properties	🐻 View Report 🛛 📄 🕞 🧿
				View Thumbnails   View a list
				🕂 Add New Layout

7. Enter the appropriate values to the *Report Parameters* and click **Apply**.

Generic Line Listing Report	·LE	
Enterprise ID:	3	<b>~</b>
Case Series or Query:	Case Series	<b>~</b>
Case Series/Query Name:	CS Group2- 551	<b>×</b>
Category Name:	General	
Report Name:	Cioms II	
Report Sub-Heading:	ine Listing CUSTOM	Apply
 = m ~ ₩ m ?		

**8.** Check that the report is executed successfully with CUSTOM value populated as per the logic.

ORACLE BI Publisher Enterpri	se					Search	All	¥		Ø	Administratio	n   Help ~	Sign Out 🧕
Generic Line Listing Report-LE								Hom	e   Catalog	New 🗸	눧 Open 🗸	Signed In As	avanishk ~
Enterprise ID: 3													
Case Series or Query: Case Series													
Case Series/Query Name: CS Group2- 551													
Category Name: General													
Report Name: Cioms II													
Report Sub-Heading: ine Listing CUSTOM	У												
Generic Line Listing Report-LE LL_NEW_CUSTOM_LE												🔂 💷	I 🛌 🚐 📀
		_									_	_	
	0045	-							General				<u></u>
	ORACL	E						254671	CON 001 00				
	Clome II												
	Care Number	Apr a	n Borra na Sprannel	Country TURKNER ANT	TESTING CUSTOMI	Pedat Name Main Study CB Name Camp	Deex ex Reported	Overt DeterTime	]				
	RPLIREPORT10	St Tank A		a tusimenat	TESTING	Intel Product Drug Planomen	placies'	DEC-1981	1				
	BPLLREPORT11		Pportamen	A TURKMENST	TESTING CUSTOM1 Population	MMR Product Drug	Fear		]				=
	RPLLREPORT2	1 Days - P	main Record	TURNIEVEST AN	CUSTOM1 Population	etek studycki Name Camp	pelan lanar Tanà	060-1881 13r/20 min 2 em	]				
	RPLLREPORTS	35 <b>1 an a</b> U	NK. Sponsored Trail	turkarenast AN	TESTING CUSTOMI Population	high, field aning justicide Autopolitical abability (19) MRP Product Device	(will)	a osciaer	]				
	<u> </u>	+		-		Paronae Care Al	placing land	ORC 1981	1				
	RPLIREPORTA	234° X	Alate Spannersed	NURRANDAST AN	TESTING CUSTOMI Population	ating patrabat Auggrafican abititit and abititit parts Patraba							
	RPLIREPORTS	2 Tests N	ala Sportaneo	A TURKMENST	CUSTOM1 Population	and Product Drug	beer.		1				
	RPLIREPORTE	1 Days - F	enais Ppontaneo	a TURMENST	TESTING	Paronet	(war	teet.	1				
	eranialik - Ri Chev				Confidentialiye	anadar A			Page 2 of 3				
													×

**9.** You can see that the column *CUSTOM* is populated.

ORACLE	

Cioms II

LE Generic Line Listing CUSTOM

Case Number	Age	Sex	Source	Country	Custom
BIPLLREPORT1	29 Years	Male	Sponsored Trial	TURKMENIST AN	TESTING CUSTOM1 Population
BIPLLREPORT10	56 Years	Female	Spontaneous	TURKMENIST AN	TESTING CUSTOM1 Population

# 5.2 BusinessObjects Extensibility

This section comprises the following topics:

- Assumptions
- Applying Argus Data Security
- Applying Blinded Security
- BusinessObjects Reports on Case Series/Power Queries

# 5.2.1 Assumptions

The BusinessObjects extensibility has the following assumptions:

- The user has a working knowledge of report creation in BusinessObjects.
- Universe Connection is made using the schema APR\_APP.

**Note:** The procedures mentioned in this guide are optional, one or more steps can be omitted based on the valid business scenarios.

# 5.2.2 Applying Argus Data Security

To apply Argus data security for BusinessObjects:

• In the **ConnectInit** parameter of the connection, add the following string:

```
declare i number; BEGIN i := PKG_SECURITY.F_SET_ENV_VAR('@variable('BOUSER')');
END;
```

🔓 Edit Ext Connection connection	×
Custom Parameters [5/5] Define the custom parameters to acc	ess your Oracle database server using Net Client
Custom Davanatovs	
Hint ConnectInit	EGIN i := PKG_SECURITY.F_SET_ENV_VAR('@variable
	< Back Finish Cancel Help

## 5.2.3 Applying Blinded Security

To apply blinded security for BusinessObjects:

 Insert the views V\_RPT\_PRODUCT and V\_RPT\_DOSE\_REGIMENS from the data source (APR\_APP schema) to the BusinessObjects Universe.



**Tip:** In case of a **Blinded Text** field the value is displayed as **#BLINDED#** in the report to the blinded user , whereas for **Blinded ID** field the value becomes **-0.999999999**. In order to change the ID field to also display as **#BLINDED#** in the report to the blinded user, add the following lines in the **Select** statement of the Object in the Universe:

```
decode(<Table Name>.<ID Field>, -0.999999999, '#BLINDED#', to_
char(<Table Name>.<ID Field))</pre>
```

For example, **DOSE** is the Blinded ID column in table RPT\_DOSE\_ REGIMENS, then in order to display **#BLINDED#** for the object DOSE in the report, use the below given statement in the **Select** statement of the Object in the Universe:

```
decode(V_RPT_DOSE_REGIMENS.DOSE,-0.999999999,'#BLINDED#', to_
char(V_RPT_DOSE_REGIMENS.DOSE))
```

Properties of Dose				
Definition Properties Advanced Keys	Source Information			
Name:			Type: Character	-
Description:				
				<b>A</b>
				7
Select:				
				>>
)				
Where:				
Where:				× ×
Where:		T	ables	Parse

# 5.2.4 BusinessObjects Reports on Case Series/Power Queries

This section provides information about the steps to create and run the BusinessObjects Reports on Case Series/Power Queries.

This section comprises the following sub-sections:

- Modifying BusinessObjects Universe
- Modifying BusinessObjects Reports

#### 5.2.4.1 Modifying BusinessObjects Universe

The following are the steps to modify the universe:

**1.** Import the view V\_REP\_CASE\_DETAIL\_TP\_TMP from the data source schema APR\_APP.



#### 2. Insert a join for the view V\_REP\_CASE\_DETAIL\_TP\_TMP as:

(case when V\_REP\_CASE\_DETAIL\_TP\_TMP.code\_broken IS NULL then 1 when V\_REP\_ CASE\_DETAIL\_TP\_TMP.code\_broken = 4 then 1 when V\_REP\_CASE\_DETAIL\_TP\_TMP.STUDY\_ UNBLIND\_OK = 1 then 1 when NVL(TO\_NUMBER(SYS\_CONTEXT('INSIGHT\_APP\_ CONTEXT','USER\_UNBLIND\_SEC')),0) = 0 then 1 else 0 end = 1)

Edit Join	×
Table1	Table2
V_REP_CASE_DETAIL_TP_TMP	<b>•</b>
CASE_ID CODE_BROKEN STUDY_UNBLIND_OK REPORT_EXECUTION_ID DATE_MODIFIED	
Outer join  Cardinality	Detect C 1 C N
Shortcut join	
Expression	
(case when V_REP_CASE_DETAIL_TP_TMP.cod V_REP_CASE_DETAIL_TP_TMP.code_broken = V_REP_CASE_DETAIL_TP_TMP.STUDY_UNBLINI (SYS_CONTEXT('INSIGHT_APP_CONTEXT','USER	de_broken IS NULL then 1 when = 4 then 1 when ID_OK = 1 then 1 when NVL(TO_NUMBER R_UNBLIND_SEC')),0) = 0 then 1 else 0 end = 1 )
	Edit Parse
Advanced	OK Cancel Help

**3.** Create joins for the view V\_REP\_CASE\_DETAIL\_TP\_TMP with view V\_RPT\_CASE or RPT\_CASE. For Example:

Edit Join	×
Table1	Table2
V_RPT_CASE	V_REP_CASE_DETAIL_TP_TMP
AUTOPSY BROKEN_BY BROKEN_DATE BROKEN_DATE_K CASE_ID CASE_NUM CENTER_ID CENTER_ID CENTER_NAME CLASSIFICATION_ID CODE_BROKEN_STATUS COUNTRY	CASE_ID CODE_BROKEN 1,1 STUDY_UNBLIND_OK - REPORT_EXECUTION_ID DATE_MODIFIED
Outer join C Cardinality	Outer join Outer join O 1 O N V_REP_CASE_DETAIL_TP_TMP one and only one V_RPT_CASE
🗖 Shortcut join	
Expression V_RPT_CASE.CASE_ID=V_REP_CASE_DETAIL_TP_TMP.4	CASE_ID
	Edit Parse

 Insert a class in the universe called Query Execution which contains an object called Report Execution ID (V\_REP\_CASE\_DETAIL\_TP\_TMP.REPORT\_ EXECUTION\_ID)



The Report Execution ID object appears in the Query Execution class.

Definition P	of Report Execution Id	rce Information		
	Name:		Type:	
Description:	Keport Execution Id		Induider	
				<b>A</b>
				-
Select:				
V_REP_CAS	E_DETAIL_TP_TMP.REPORT_EXECU	JTION_ID		<u> </u>
				>>
1				
Where:				
Where:				
Where:				×
Where:				×
Where:			Tables	>> >> Parse

**Note:** Reports can be created once this universe is exported after the changes.

### 5.2.4.2 Modifying BusinessObjects Reports

The following are the steps to modify the BusinessObjects reports:

**1.** Copy the universe **Query Execution.unv** from the below given location to the web server:

<Argus Insight Installation Folder>/Argus Insight/Business Objects/Universes

- **2.** Create a report using the web intelligence with the Query Execution Universe. The Query Execution universe prompts the user to provide values that are used for the execution of the Case Series/Power Queries.
- 3. Drag the **Report Execution ID** in the Query Execution universe as a result objects.



**4.** Click on **Add Query**, and create a query (Query 2) using the universe on which report needs to be executed. Select the required result objects from this universe.

**Note:** The query built on the Query Execution universe should always be the first query in the report.

 Create a filter for the Query 2 by dragging the object Query Execution > Report Execution ID, which takes a value from the result of the first query.

C Query Panel	
💕 Add Query •	🌮 😭 🗅
🔆 Universe outline	🗊 Result Objects 🛛 🕆 🗙
Master Perspective •	d Case Number d Courtery d Reporter Type d Product Name d Event Preferred Term d Case Outcome d As Determined Causality d Case Listedness d Event Outcome
- Type here to filt - + +	S Company Agent Causalty
ReportVirter	
E Activities - Case Closure	
Activities - Contact Log	
Add Info - Notes and Attac	
Additional Information - Ref	14
Analysis - Case Assessme     Analysis - Conments and N	hand
Analysis - Regulatory Rep:	Image: Space of the space
Case Series     Events - Death Information	
B C Query Execution	Report Execution is Equal to • Report Execution is (Guery 1)
🖲 💼 Events - Diagnosis Event	
🖲 💼 Events - Event Assessmen	
Events - Event Information     Events - Hospitalization Info	
🗄 💼 Events - Imputability	
Events - Primary Event     General - Case Classificati	🗇 Data Preview 🗇 Refresh
12 On Arrest Arre February	

The report once executed after performing the above mentioned steps, will now run on the Case Series/Power Queries.

# 5.3 Cognos Extensibility

This section comprises the following topics:

- Assumptions
- Applying Argus Data Security
- Applying Enterprise Security
- Applying Blinded Security

- Cognos Reports on Case Series/Power Queries
- Recommendations

### 5.3.1 Assumptions

The Cognos extensibility has the following assumptions:

- The user has a working knowledge of report creation in Cognos.
- A data source (PRMART) is already created as mentioned in the Argus Insight 8.0 Installation Guide

**Note:** The procedures mentioned in this guide are optional, one or more steps can be omitted based on the valid business scenarios.

### 5.3.2 Applying Argus Data Security

The following are the steps to apply Argus Data Security to Cognos:

- **1.** Go to the Data Source Connection properties.
- 2. On the Set the commands Open connection commands and Set the commands Open session command page, add the following statement in the XML database commands: field.

i := PKG\_SECURITY.F\_SET\_ENV\_VAR(#sq (\$account.personalInfo.userName)#);

Status	Security	Configuration	Index Search	
Data Source C	onnections	Set the commands - Open conn	ection commands	Help 😣
Content Administ	tration and Contacts	Use XML to specify the commands th data source commands. XML database commands: <commandblock></commandblock>	at the database executes for I	his event. The XML must validate against the schema for the
Portlets Dispatchers and	Services	<commands> <sqlcommand> <sql>declare i number; BEGIN</sql></sqlcommand></commands>		
Query Service C	aching	It= PKG_SECURI       END;	TY.F_SET_ENV_VAR(#sq	(\$account.personalInfo.userName)#);
		OK Cancel		

### 5.3.3 Applying Enterprise Security

The following are the steps to apply Enterprise Security in the multitenant set-up to Cognos:

- 1. Go to the Data Source Connection properties.
- 2. On the Set the commands Open connection commands and Set the commands Open session command page, add the following statement in the XML database commands: field.

```
PKG_RLS.set_context (#sq($account.personalInfo.userName)#,
#sq($account.parameters.EnterpriseID)#, 'ARGUS_INSIGHT', '');
```

Status Security	Configuration	Index Search	
Data Source Connections	Set the commands - Open con	nection commands	Help 😣
Image: Second	Use XML to specify the commands t data source commands. XML database commands: <commandblock> <commands <qqlcommand> <sql>declare i number; BEGIN FKG_RLS set_com [\$account.parameters.Enter i := PKG_SECURIT END; </sql>  OK Cancel</qqlcommand></commands </commandblock>	hat the database executes for text (#sq(\$account.persor priseId)#, 'ARGUS_INSIGH Y.F_SET_ENV_VAR(#sq (\$	hallinfo.userName)#,#so hallinfo.userName)#,#so hallinfo.userName)#);

**Note:** : In the report, a dialog box appears to choose the Enterprise ID. For more information, refer to the Section 5.3.5.2, Modifying Cognos Reports.

For Enterprise-specific roles and permissions, refer to Argus Insight 8.0 Installation Guide > Section 6.1.7.

# 5.3.4 Applying Blinded Security

The following are the steps to apply Blinded Security to Cognos:

 Import the synonyms RPT\_PRODUCT and RPT\_DOSE\_REGIMENS from the Data Source to the Cognos Model.

Metadata Wizard - Select Objects	0 ko 6 8 m		2000	
			Of a sis	A
Select the objects you want to import.				
Image: Constraint of the second consecond consecond constraint of the second constraint of	ATUS			1
	ANT A TBLTY			_
				•
When a duplicate name is detected:			🗖 Shov	v system objects
<ul> <li>Import and create a unique name</li> <li>Do not import this object</li> </ul>				
Help	Cancel	< Back	Next>	Finish

**Tip:** In case of a **Blinded Text** field the value is displayed as **#BLINDED#** in the report to the blinded user , whereas for **Blinded ID** field the value becomes **-0.999999999**. In order to change the ID field to also display as **#BLINDED#** in the report to the blinded user, add the following lines in the SQL of the **Query Subject Definition** in the Database view:

```
CASE
WHEN <ID field> = -0.999999999 THEN '#BLINDED#'
ELSE
to_char(<ID field>)
END as <ID field>
```

For example, **DOSE** is the Blinded ID column in table RPT\_DOSE\_ REGIMENS, then in order to display **#BLINDED#** for the object DOSE in the report, use the below given statement in the SQL of Query Subject Definition in the Database view:

CASE WHEN DOSE = -0.999999999 THEN '#BLINDED#' ELSE to\_char(DOSE) END as DOSE

# 5.3.5 Cognos Reports on Case Series/Power Queries

This section provides information about the steps to create and run the Cognos Reports on Case Series/Power Queries.

This section comprises the following sub-sections:

- Modifying Cognos Model
- Modifying Cognos Reports

### 5.3.5.1 Modifying Cognos Model

This section comprises the following sub-sections:

- Modifying Database View
- Modifying Logical View

#### 5.3.5.1.1 Modifying Database View

The following are the steps to modify the database view:

1. Import the synonym REP\_CASE\_DETAIL\_TP\_TMP from the data source.

Metadata Wizard - Select Objects	
Select the objects you want to import.	
MEDDRA_SMQ_TERM_B     MEDDRA_SMQ_TERM_DETAILS     MEDDRA_SMQ_TERM_N     MEDDRA_MEDRAN     MEDDRA_MEDRAN     MEDDRA_MEDRAN     MEDDRA_MEDRAN     MEDRA_SMGE	
PRT_CASE_EVENT_PROD      PRT_CASE_EVENT_PRODUCT      PRT_CASE_EVENT_PRODUCT_ASSESS      PRT_CASE_SUMMABY	_
When a duplicate name is detected:	Show system objects
<ul> <li>Import and create a unique name</li> <li>Do not import this object</li> </ul>	
Help	< Back Next > Finish

- **2.** Add the following filter in the REP\_CASE\_DETAIL\_TP\_TMP query subject.
  - Name Blinded Security Filter
  - Expression Definition ([<model\_name> Database View].[REP\_CASE\_ DETAIL\_TP\_TMP].[CODE\_BROKEN] IS NULL OR [<model\_name> Database

View].[REP\_CASE\_DETAIL\_TP\_TMP].[CODE\_BROKEN] = 4 OR [<model\_ name> Database View].[REP\_CASE\_DETAIL\_TP\_TMP].[STUDY\_UNBLIND\_ OK] = 1 OR NVL(TO\_NUMBER(SYS\_CONTEXT('INSIGHT\_APP\_ CONTEXT','USER\_UNBLIND\_SEC')),0) = 0 )

**Note:** It is mandatory to have REP\_CASE\_DETAIL\_TP\_TMP as query subject.

**3.** Set **Usage** of the columns CASE\_ID and REPORT\_EXECUTION\_ID of this query subject as **Identifier**.



**4.** Create joins for the table REP\_CASE\_DETAIL\_TP\_TMP.

The following figures display:

Defining the joins for the REP\_CASE\_DETAIL\_TP\_TMP query subject.

8 Context Explorer		
RPT_CASE	*	
ENTERPRISE_ID		
AGE		REP CASE DETAIL TP TMP
AGE_GROUP		
AGE_GROUP_ID		
AGE_UNIT		
AGE UNIT ID	1.1 1.	
AGENT SUSPECT		
ALLOWED TIME		
AUTOPSY		
BROKEN BY		

 Creating relationship between the tables REP\_CASE\_DETAIL\_TP\_TMP and RPT\_CASE.

tionship Definition - RPT_CAS	E <-> REP_CASE_DETAIL_TP	_TMP		_ [
elationship Editor   Relationship SG Name:	u)			
RPT_CASE <>> REP_CASE_DET# Query subject: RPT_CASE		New Link	Query subject: REP_CASE_DETAIL_TP_TMP	<u>6</u>
AGE_GROUP_ID AGE_UNIT AGE_UNIT_ID AGEJUNIT_ID AGEUNIT_JUSPECT ALLOWED_TIME ALLOWED_TIME AUTOPSY BROKEN_DATE BROKEN_DATE BROKEN_DATE BROKEN_DATE CASE NUM CENTER_ID CENTER_IAME CLASSIFICATION_ID			CODE_BROKEN STUDY_UNBLIND_OK REPORT EXECUTION_ID DATE_MODIFIED	
	Cardinality	Operator	Cardinality	
Relationship impact:	Each REP_C Each RPT_C	ASE_DETAIL_TP_TMP h ASE has one and only one	as one and only one RPT_CASE. REP_CASE_DETAIL_TP_TMP.	
Expression: RPT_CASE.CASE_ID = REP_CAS	E_DETAIL_TP_TMP.CASE_ID			<u></u>
			Validate OK Cancel	Help

#### 5.3.5.1.2 Modifying Logical View

The following are the steps to modify the logical view:

- **1.** Create a new stored procedure query subject with the table name as Populate Temp. To do so:
  - **1.** Select the data source.
  - **2.** Select the procedure PKG\_REP\_TP.P\_POP\_CASE\_DETAILS from the schema APR\_APP.
  - 3. Set the values of the Argument Names, as listed in the following table:

Table 5–5 Setting Argument Values

S#	Argument Name	Value
1	PI_USER_NAME	#\$account.personalInfo.userName#
2	PI_ID	<pre>#prompt('In_Display_Id','integer')#</pre>
3	PI_REPORT_EXEC_ID	<pre>#prompt('In_Report_Id','integer')#</pre>
4	PI_QUERYTYPE	<pre>#prompt('In_Type','varchar2')#</pre>
5	PI_ENTERPRISE_ID	<pre>#prompt('In_Enterprise_Id','integer')#</pre>

2. Add the stored procedure of the table Populate Temp.

Stored Procedure Name: PKG_REP_TP.P_POP_CASE_DE	TAILS		Type: Data Query 💌	Data Source: PRMART	
yntax: ROCEDURE PKG_REP_TP.P_F ?I_ENTERPRISE_ID IN float64 ).	OP_CASE_DETAILS	(:PI_USER_NAM	E IN characterLength16, :PI_ID IN floa	64, :PI_REPORT_EXEC_ID IN float64, :PI_(	QUERYTYPE IN characterLength16,
Argument Name		Mode	Туре	Format	Value
1_USER_NAME	in		characterLength16	Size=0, Precision=0, Scale=0	#\$account.personalInfo.userName#
I_IU	in		float64	Size=8, Precision=0, Scale=0	#prompt('In_Uisplay_IU','integer')#
	iri in		nualo4	Size=0, Flectstori=0, Scale=0	#prompt(In_hepoit_id, integer )#
I ENTERPRISE ID	in		float64	Size=8, Precision=0, Scale=0	#prompt('In_Fighter, valchaiz)# #prompt('In_Enterprise_Id' 'interper')#

- 3. Set the Usage of :B1 to Identifier and Regular Aggregate to Unsupported.
- 4. Add a new filter:
  - Name Case Series/Query Prompt
  - Expression Definition [<model\_name> Database View].[REP\_CASE\_ DETAIL\_TP\_TMP].[REPORT\_EXECUTION\_ID] = #prompt('In\_Report\_ ID','integer')#

**Note:** The Reports can be created only when the package is published after the changes.

#### 5.3.5.2 Modifying Cognos Reports

The following are the steps to modify the Cognos Reports:

- Copy the Sample Report.xml file from the below given location to the web server: < Argus Insight installation folder>/Argus Insight/Cognos/Reports/General/
- 2. Copy the entire content of the Sample Report.Xml file.
- 3. Launch Report Studio.
- 4. Go to Tools > Open Report from Clipboard.



The following screen appears.

File Edit View Structure Table Data Run Tools He	lp
🗅 🔗 🖬   % 🖻 🛍 🗙   က က   🖉 🔤 🕨 🕨 - 🔒	] ✿•   ← → 含   ア・ タェ- Σ - 國 -   印 @ 금 @ ■•   ❶ - 镭 暍
Font Size V A V B I U	: 葉 端 [四 西 西 ] _ +   - + 1pt 🔽 ⊿ + 田 +   種 + 種 +   秒
Source _ 🗆	
Image: Second state of the second s	Provide values for the report you are about to run.  Indicates a required field.  Provide a value:  Select an Enterprise Provide a value:  Select Query Type Provide a value:  Select a Name Provide a value: Select a Name Provide a va

**5.** Go to the Query Explorer and copy all three queries in your report.

Fil	e Edit View	Structure	Table	Data	Run	Tool	s Hel	p	
C	🔗 🖬 🐰			വ 🗧	E DOWL		-	₽.	•   ⇐ ➡ ♠     🍞 • 欸 • 〻 • 國 •   印 @ 昌 @
Fo	nt	Size	-	<u>A</u> -	в	ΖU	.   155		灣 驥 茑 芭 芭 ● - 1pt ▼ _ * 田
То	olbox						_ 🗆		
5	Query								
9	Join							Que	Sequence
0								TY E	
6	Intersect							- Xplo	
4	- Intersect							Ē	Display Name
e e									
	ey SQL								
2	MDX								Enter
								*	& Cut
									- Line Copy
									Paste
									∰dig Find ►
									View Tabular Data
	2								Show Package Sources
τ									Expand References
Pro	perties - Query						_ 🗆		All Queries
•	Data						-		Projected Queries
	Auto Group & Su	mmarize	Yes						
	Generated SQL								
	Override Dimensi	ion Info	No						
	Define Member S	ets	No						
•	Query Hints								
	Auto-Sort						-		
	Deservice								

- 6. Navigate to Page Explorer > Prompt Pages.
- 7. Copy Prompt Page1 and paste in your report.
- **8.** Open the first page of report (Cover page, if exists) and drag a **Singleton** in the page as the first item.



**9.** Drag the (*Package\_name*) > **Procedures** > **Populate Temp Table** > :**B1** in the Singleton mentioned in Step 5.



**10.** Set the **Box Type** property of **:B1** item to **None**.

Pro	perties - 🛋 Text Item		
4	Data Format		
	Drill-Through Definitions		-
Ξ	General		
	Maximum Characters		
Ξ	Box		
	Border		
	Padding		
	Margin		
	Box Type	The second se	
Ξ	Color & Background	(Default)	
	Background Image	None	
	Background Color	Inline Block	_
	Foreground Color	biock	
	Font & Text		
	Font		

11. Add the new filter Case Series/Query Prompt to the Main Query of the report.

The report once executed after performing the above mentioned steps, will now run on the Case Series/Power Queries.

### 5.3.6 Recommendations

If the single-tenant user does not want to see the Enterprise drop-down in their report, execute the following steps:

- **1.** Open **Prompt Page1**.
- 2. Select the Enterprise drop-down list, and add Default Selections as 1.

Source	_ 0			
<b>* 6</b>		Page		
· ·		1	Provide values for the report you are about to run.	
		Por	* Indicates a required field.	
		1 4	->Points to missing information.	
			Select an Enterprise	
			Provide a value:	
			Select Query Type	
			Provide a value:	
		1		
		-	Default Selections	
			Select a Name	
			Provide a value:	
	<u> </u>			
SA 🚡 📸			L	
			· · · · · · · · · · · · · · · · · · ·	
Properties - 📥 Value Prom	ot _ 🗆		· ◎ × /	
Rows Per Page	5000		Add ×	
Properties		4	1	
General				
Required	No		OK Cancel	
Multi-Select	No			1
Select UI	Drop down list			
Auto-Submit	Yes			
Cascade Source				
Pre-populate	No			
Hide Adornments	No			
Range	No			
Parameter	In_Enterprise_Id			
Default Selections				
= Box				
Box Type				
E Color & Background				

- **3.** Select the table containing the **Enterprise** drop-down.
- 4. Change the **Box Type** property to **None**.

Pro	perties - 🛋 Table Cell	_ 1	
	Style Variable		*
Ξ	Box		
8	Border		
	Padding		
	Box Type	▼	
Ξ	Color & Background	(Default)	
	Background Image	None	
	Background Effects		
	Background Color		
	Foreground Color		
Ξ	Font & Text		

When the above steps are executed, then the **Enterprise** dialog box does not appears in the report.

# 5.4 OBIEE Extensibility

Argus Insight provides an out of the box RPD for analyzing the aggregate reporting data which is generated by Argus Safety/BI Publisher. As part of BIP aggregate reporting generation, Argus Safety system populates log tables. These tables are used in the RPD for further analysis by creating OBIEE Answers and Dashboards.

The BIP tables in Argus Mart are populated from Argus Safety (BIP enabled) through Argus Mart Initial/Incremental ETL. The Initial ETL will fetches all the data, whereas the Incremental ETL fetches only the updated data between the last ETL execution time and the current execution time.

Incremental ETL will not fetch the purged data from Argus Safety.

For more details on data purging, refer to *Oracle Argus Safety 8.0 BIP Extensibility Guide* > *Section 4.1.7.* 

This section comprises the following topics:

- Assumptions
- RPD Architecture
- Adding New Dimension Using Flex Bucketing
- Creating Custom Dashboards and Prompts

## 5.4.1 Assumptions

The OBIEE extensibility has the following assumptions:

- The user has a working knowledge of Dashboard/BI Answers and RPD in OBIEE.
- The RPD and Catalog are deployed as per the *Oracle Argus Insight 8.0 Installation Guide*.

## 5.4.2 RPD Architecture

The RPD architecture comprises the following layers:

- Physical Layer
- BMM Layer
- Presentation Layer

### 5.4.2.1 Physical Layer

The following tables are fetched into the physical layer of the RPD as Facts:

- Case (RM\_RPT\_AGG\_CASE)
- Drug (RM\_RPT\_AGG\_DRUG)
- Event (RM\_RPT\_AGG\_EVENT)
- Event To Drug (RM\_RPT\_AGG\_EV2DRUG)

The various tables used in Physical Layer are:

- Code List Discrete Table
- Dimension Tables
- Prompts
- Connection Pool
- User Security Table
- Event Polling Table
- Facts
- Measure

### **Code List Discrete Table**

Most of the dimensions are based on the Code List Discrete table. It contains all the code list IDs like COUNTRY, DOSE\_UNITS etc, and their display value.

Few tables such as Drug names, Event reactions are from the Actual tables.

See Section 5.4.3, Adding New Dimension Using Flex Bucketing, for details on how the Code List table is used as a Dimension.

In physical layer of the RPD aliases for all the dimensions and facts are available. For the Code List Discrete table multiple aliases for different dimension attributes are available.

For example:

Case Seriousness, Case Listedness, and Event Outcome are from the Code List Discrete table, so for each code list ID an alias and a dimension is made available.

The following screen displays the joins of these dimensions with the respective Fact table:

Figure 5–1 Joins of Dimensions with the Fact table



See Section 5.4.3, Adding New Dimension Using Flex Bucketing, for details on how the Join conditions are applied.

#### **Dimension Tables**

Other Dimension tables are from direct tables such as Drug names and Reactions etc.

Few dimensions are derived from views and select statements. The following views are created:

- RM\_RPT\_AGG\_CLINICALDRUGROLE\_D
- RM\_RPT\_AGG\_DIAG\_SYMPT\_FLAG\_D
- RM\_RPT\_AGG\_TREATMENT\_LIST\_D
- RM\_RPT\_AGG\_REACTION\_D

#### Prompts

The Dashboard and Page prompts dimension available are:
- Dim\_Enterprise\_Id
- Dim\_Report\_Form\_Id
- Dim\_Report\_Template
- Dim\_Report\_Type

These prompts are created from the following tables:

- RM\_RPT\_AGG\_ENTERPRISE\_ID\_D
- RM\_RPT\_AGG\_PROMPTS\_D
- REPORT\_FORM\_ID\_D

For more information on these dimensions, see Appendix: Dimensions and their Mapping.

#### **Connection Pool**

The connection to Argus Mart is established using the AM\_BI user, which is a Read-only user created during Argus Mart schema creation.

To display the enterprises along with their data as per the user access rights, set context as 0 (zero) in Connection Pool.

Other security settings are taken care by the User Security table.

### **User Security Table**

A periodic report configuration that is created in Argus Safety can be shared across multiple user groups. The users under these user groups will have access to Modify and Execute the Report Configuration. This information is saved in the security table RM\_RPT\_AGG\_USER\_ACCESS\_S.

This security table is joined to all the Facts, so that for the logged in user, only those reports information is available which he has access to. Other data security (blinding etc) settings are taken care by BIP tables in Argus Safety.

### **Event Polling Table**

An Event Polling table RM\_BI\_S\_NQ\_EPT is created to handle event polling.

Refer to the Oracle OBIEE Guide for more information on Event Polling.

### 5.4.2.2 BMM Layer

For all the dimensions, logical hierarchies are created at this layer and WHERE clause is added.

See Section 5.4.3, Adding New Dimension Using Flex Bucketing, for an example of setting the WHERE clause.

In the Argus Insight RPD, two session variables are created:

- AI\_USER\_LN Validates the logged in user name.
- AI\_LANG\_CODE Contains the value en. Avoids hard coding of the value in the WHERE clause in the BMM layer at various places.

🔁 Repository	Name	Descri	Default Initializer	Initialization Block
河 Initialization Blocks	AI_USER_LN			AssignAlUserLn
Vanables     Dynamic     Dynamic     Session     Initialization Blocks     Variables     Variables     System     System     Non-System	AI_LANG_CODE		'en'	AssignLangCode

Figure 5–2 Variable Manager in RPD

For example:

#### Figure 5–3 BMM layer — WHERE clause using AI\_LANG\_CODE

Use this "WHERE clause" filter to limit rows returned (exclude the "WHERE"): "AI80\_SRC".""."AI800BIEE"."Dim\_EVENT\_SERIOUSNESS"."CODE\_LIST\_ID" = 'SERIOUSNESS' AND "AI80\_SRC".""."AI800BIEE"."Dim\_EVENT\_SERIOUSNESS"."DECODE\_CONTEXT" = VALUEOF (NQ\_SESSION."AI\_LANG\_CODE")

#### Facts

The following are the logical combination of fact tables that are created in the RPD:

- Case Fact
- Drug Fact
- Event Fact
- Event to Drug Fact
- Case Event Fact
- Case Drug Fact
- Case Event to Drug Fact
- Consolidated Fact

For example:

- Case Fact in physical table is FACT\_RM\_RPT\_AGG\_CASE.
- Case Event Fact is a combination of tables FACT\_RM\_RPT\_AGG\_CASE and FACT\_RM\_RPT\_AGG\_EVENT.

See Appendix: Dimensions and their Mapping, for details of RPD including dimensions, Fact tables and their joins.

The logical level should be set for each dimension (based on the access of each dimension) for all the logical Facts properly.

Show mapped     Show unmapped     Logical Dimension     Dimension     Dimension		More
Logical Dimension		
Dim Special Interest EugetDim	Logical Level	_
nin special melest Eventoim join special n	nterest Event Detail 🛛 💥	
) im Study IDD im Study ID	Detail 🗙	
)im Study NameDim Dim Study Na	me Detail 🛛 🗙	
Dim SUSAR EventDim Dim SUSAR E	Event Detail 🛛 💥	
)im Treatment ListDim Dim Treatmer	nt List Detail 🛛 💥	
Dim Trimester of ExposureDim Dim Trimester	of Exposure Detail 🛛 💥	
Dim Action TakenDim	X	
Dim As Determined CausalityDim	X	
) im As Reported CausalityDim	X	
This source should be combined with other sources at	this level	
This source should be combined with other sources at se this "WHERE clause" filter to limit rows returned (excl	this level ude the "WHERE"):	
This source should be combined with other sources at se this "WHERE clause" filter to limit rows returned (excl AI80_SRC".""."AI800BIEE"."REPORT_SECURTY_S"	this level ude the "WHERE"]: "USER_NAME" = VALUEOF(NQ_SESSION."A	LUSER_LN")
This source should be combined with other sources at se this "WHERE clause" filter to limit rows returned (excl AI80_SRC".""."AI800BIEE"."REPORT_SECURTY_S"	this level ude the "WHERE"): "USER_NAME" = VALUEOF(NQ_SESSION."A	I_USER_LN")
This source should be combined with other sources at se this "WHERE clause" filter to limit rows returned (excl AI80_SRC".""."AI800BIEE"."REPORT_SECURTY_S"	this level ude the "WHERE"): "USER_NAME" = VALUEOF(NQ_SESSION."A	LUSER_LN")
<sup>1</sup> This source should be combined with other sources at se this "WHERE clause" filter to limit rows returned (excl 4I80_SRC". <sup>1</sup> "."AI800BIEE""REPORT_SECURTY_S"	this level ude the "WHERE"): "USER_NAME" = VALUEOF(NQ_SESSION."A	LUSER_LN")
This source should be combined with other sources at se this "WHERE clause" filter to limit rows returned (excl AI80_SRC''.''''.''AI800BIEE''.''REPORT_SECURTY_S''	this level ude the "WHERE"): "USER_NAME" = VALUEOF(NQ_SESSION."A	LUSER_LN")
This source should be combined with other sources at se this "WHERE clause" filter to limit rows returned (excl AI80_SRC".'"'.''AI800BIEE''.''REPORT_SECURTY_S''	this level ude the "WHERE"): "USER_NAME'' = VALUEOF(NQ_SESSION."A	LUSER_LN")

Figure 5–4 Logical Table Source

For Example:

The logical fact Case Event will have the dimensions that are applicable to Case and Event tables only.

The BMM layer should be a perfect star schema as shown below:





## Measure

In the Argus Insight RPD, only one measure Case Count is derived from the Fact tables.

ype: INT lerives from:		Length:	🗖 🗖 Nullable
count(distinct FACT_RM_RPT_AGG_CAS	SE.CASE_ID)		
olumn Source Type			
Derived from physical mappings			
Show all logical sources			
Logical Table Source	Mapped as		
Case Case Case Case Case Case Case Case	"AI80_SRC".""'AI800BIEE'''FACT_RM_RPT_AGG_CASE'''CASE_ID" "AI80_SRC".""'AI800BIEE'''FACT_RM_RPT_AGG_EVENT'''CASE_ID" "AI80_SRC".""''AI800BIEE'''FACT_RM_RPT_AGG_DRUG'''CASE_ID" "AI80_SRC".""'''AI800BIEE'''FACT_RM_RPT_AGG_CASE'''CASE_ID" "AI80_SRC".""''''''''''''''''''''''''''''''''''		
Case Event To Drug Case Event To Drug Case Event Drug Case Event EvtDrug Case Drug Event To Drug	"AI80_SRC"."""AI800BIEE"!"FACT_RM_RPT_AGG_CASE"!"CASE_ID" "AI80_SRC".""."AI800BIEE"!"FACT_RM_RPT_AGG_CASE"!"CASE_ID" "AI80_SRC".""."AI800BIEE"!"FACT_RM_RPT_AGG_CASE"."CASE_ID" "AI80_SRC".""."AI800BIEE"!"FACT_RM_RPT_AGG_CASE"."CASE_ID"		
Consolidated	"AI80_SRC".""."AI800BIEE"."FACT_RM_RPT_AGG_CASE"."CASE_ID"		
		E dit	Unmap
Derived from existing columns using an	expression		$j_x$
			<u> </u>

Figure 5–6 Case Count Measure Properties

# 5.4.2.3 Presentation Layer

The dimensions created are renamed and arranged in a tree view in the presentation layer.



Figure 5–7 Presentation Layer Tree View

# 5.4.3 Adding New Dimension Using Flex Bucketing

**Note:** In the Argus Safety Aggregate Reporting Data Model, you may update any column value. For more information, refer to *Oracle Argus Safety BIP Extensibility Guide > Section 6.2.2 Extending with User Exits.* 

#### For Example:

PROLONGED EXPOSURE column which exists in the OBIEE RPD can be updated in the Aggregate Reporting Data Model and it can be used for analysis in the OBIEE Answers/Dashboards.

New dimensions can be created on the existing RPD.

The following are the steps of creating a dimension from the source CODE\_LIST\_ DETAIL\_DISCRETE, explained with the help of an example:

1. Open the Argus Insight RPD using the default password (insight 123), or the password changed using the steps mentioned in the *Oracle Argus Insight Installation Guide*.

**2.** At the Physical Layer, right-click on RM\_CODE\_LIST\_DETAIL\_DISCRETE, and create an alias.





**3.** Enter the dimension name for the alias.

For example: Dim\_CASE\_SERIOUSNESS

ysical Table - Dim_CASE_SERIOUSNES	is			_ 🗆 ×
General Columns Keys Foreign Keys	Properties			
Name: Dim_CASE_SERIOUSNESS				
Source Table:			Solo	et
	CTAIL_DIDCKETE			<u></u>
			Prov	
			Drow	56
Override Source Table Caching Propert	ties			
Cacheable				
Cache never expres				
		,		
Hint: J				
Description:				
				-
				-
,			a	Help
				пер
Help, press F1				

Figure 5–9 Dimension Properties

**4.** Create join with the corresponding Fact table in this case FACT\_RM\_RPT\_AGG\_ CASE, as shown below:

Figure 5–10 Join with the Fact table

Dim_CASE	_SERIO	USNE	SS	▣	FACT_RM_	RPT_AG	G_CA	SE
Columns $ rianglequert$	Types	Length	Nulla		Columns 🛆	Types	Length	Nulla
CODE	VARCHAR	100	false		CASECORELATEDCODE	VARCHAR	1,000	true
CODE_LIST_ID	VARCHAR	100	false		CASECORELATEDSH	VARCHAR	1,000	true
DECODE_CONTEXT	VARCHAR	20	false		CASECORELATEDTEXT	VARCHAR	1,000	true
DELETED	DATETIME	20	true	$\bullet$	CASELOCKED	DATETIME	1,000	true

Name:       FACT_RM_RPT_AGG_CASE_Foreign Key#1         Table:       Table:         Dim_CASE_SERIOUSNESS          Column:       Column:         Name       Type         DISPLAY_VALUE       VARCHAR         CODE_LIST_ID       DOUBLE         CODE_CODE_CONTEXT       VARCHAR         DELETED       DATETIME         Driving table:       None         Type:       Inner         CaseCoRELATEDSHORTTEXT       VARCHAR         DelleTED       DATETIME         Driving table:       None         Type:       Inner         CaseCoRELATEDSHORTTEXT       VARCHAR         Varchar       Image:         Varchar       Image:         Type:       Inner         CaseCoRELATEDSHORTTEXT       VARCHAR         CaseCoreLateDHORTTEXT       VARCHAR         Varchar       Image:       Image:         Varchar       Image:       Image:         Type:       Inner       Image:         CasecoreLateDHORTTEXT       VARCHAR         Varchar       Image:       Image:         Varchar       Image:       Image:         None       Image:	hysical Foreign Key - FACT_RM_RPT	AGG_CASE_Fore	ign Key#4			_ 0	×
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	1			ОК	Cancel	Help	

Figure 5–11 Join Definition

**5.** Drag this dimension into the Business Layer and set the WHERE clause at the business layer.

gical Table Source - Dim_CASE_SERI	OUSNESS				_ 🗆 >
General Column Mapping Content Par	ent-Child Settings				
Aggregation content, group by	Logical Level				•
,					More
Logical Dimension	Logical Level				
Dim Case SeriousnessDim	Dim Case Seriousness Detail	×			
Fragmentation content:					
					V
This source should be combined with	other sources at this level				
Use this "WHERE clause" filter to limit rov	vs returned (exclude the "WHERE");				
			MD		
"Also_SRC".""."AlsoOBIEE"."Dim_CAS	E_SERIOUSNESS"."DECODE_CONTEXT	"			
= VALUEUF(NQ_SESSION: AI_LANG_C	ODE J				
					-
Select distinct values					
					(
			OK	Cancel	Help

Figure 5–12 Business Layer — WHERE clause

- **6.** Right-click and create a logical dimension.
- **7.** Go to Facts > Sources, and add the dimension to the corresponding logical table source.

ggregation content, group by	Logical Level		
Show mapped 🛛 🔽 Show unr	napped		More
Logical Dimension	Logical Level		_
im Case ListednessDim	Dim Case Listedness Detail	×	
vim Case LockedDim	Dim Case Locked Detail	X	_
im Case OutcomeDim	Dim Case Outcome Detail	X	
im Case Report TypeDim	Dim Case Report Type Detail	X	
im Case Report Type GroupDim	Dim Case Report Type Group Detail	X	
im Case SeriousnessDim	Dim Case Seriousness Detail	×	
im Case TypeDim	Dim Case Type Detail	X	
im Cause Of Death VerifiedDim	Dim Cause Of Death Verified Detail	X	
im Clincal Drug RoleDim	Dim Clincal Drug Role Detail	X	
This source should be combined wi	th other sources at this level		
This source should be combined wi se this "WHERE clause" filter to limit	th other sources at this level rows returned (exclude the "WHERE"):		

Figure 5–13 Logical Table Source

**8.** Drag the dimension to the presentation layer in the corresponding tree level.



Figure 5–14 RPD — Presentation Layer

**9.** When the RPD is deployed, the new dimension can be used in the BI Answers/Dashboards.

# 5.4.4 Creating Custom Dashboards and Prompts

Refer to Oracle Business Intelligence Enterprise Edition > Fusion Middleware User's Guide, available in Oracle Technology Network.