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# Emoveo Version 2.6

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## PPMetrics – Reports Configuration

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# 1. Introduction

This document provides information about configuring new reports in the Emoveo application. It was written for:

- Emoveo administrators
- Emoveo configurators

Related documents:

- Installation and Administration Guide
- Configuration Guide
- User Guide

- **It is recommended that report writers have a solid knowledge of Oracle SQL, HTML, and Django templates.**

# 2. Reports Overview

A report in Emoveo consists of three main parts, all of which are mandatory elements:

1. Fields: Parameters which serve as criteria for report generation.
2. Queries: SQL statements which execute against the Emoveo database to retrieve report results. They can incorporate 'Fields' as selection criteria.
3. Template: The presentation layer or formatting to be used for the report output.

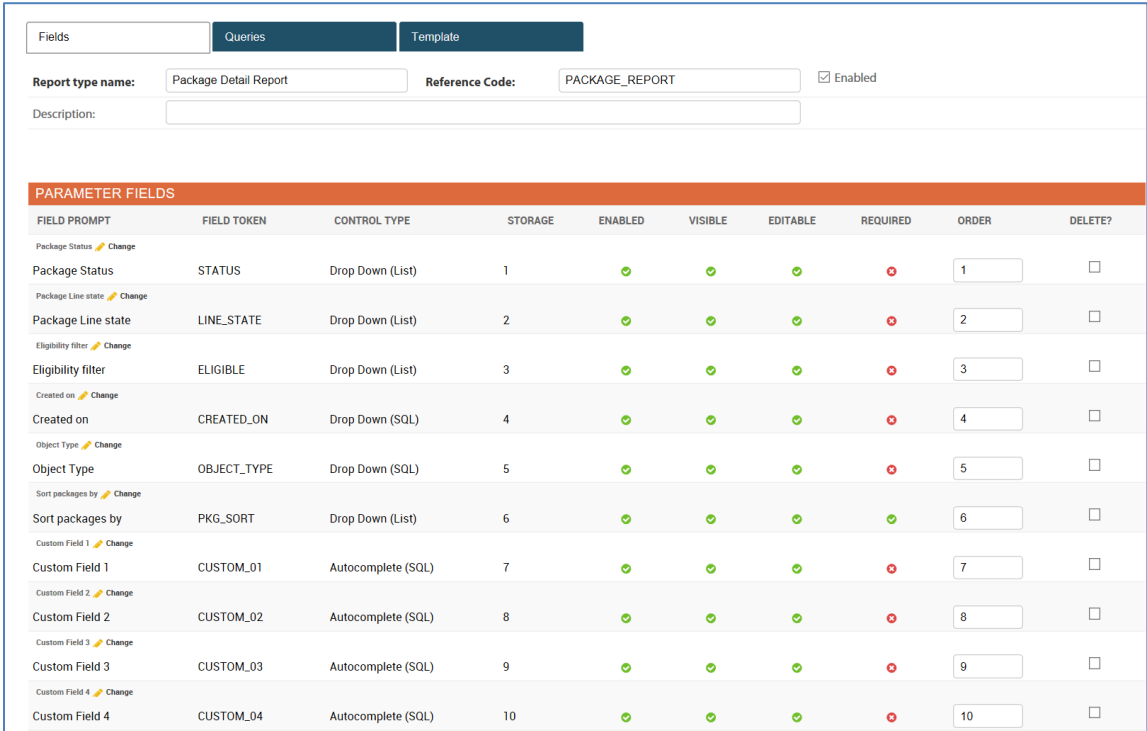


Fig. 1 – Note the fields, queries, and template tabs of the out of the box Package Detail Report.

### 3. Configuring Reports

To configure a new report, navigate to the menu item Configure → Report Types.

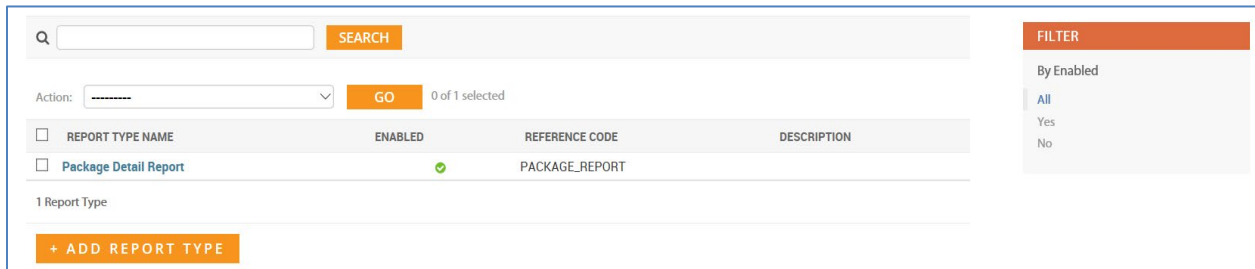


Fig. 2 – Report types configuration screen

Then, clicks on ‘+ ADD REPORT TYPE’ button to initiate a new report type.

Basic header information about the new report may then be entered on the Fields screen that is defaulted including:

Prompt	Description
Report type name	Name of the report to be displayed to the end user
Reference Code	Unique internal identifier of the report type for reference within Emoveo
Description	Helpful information that may optionally be displayed to the end user
Enabled	Checking this will enable the report for use in Emoveo

Table 1 - Basic report type fields

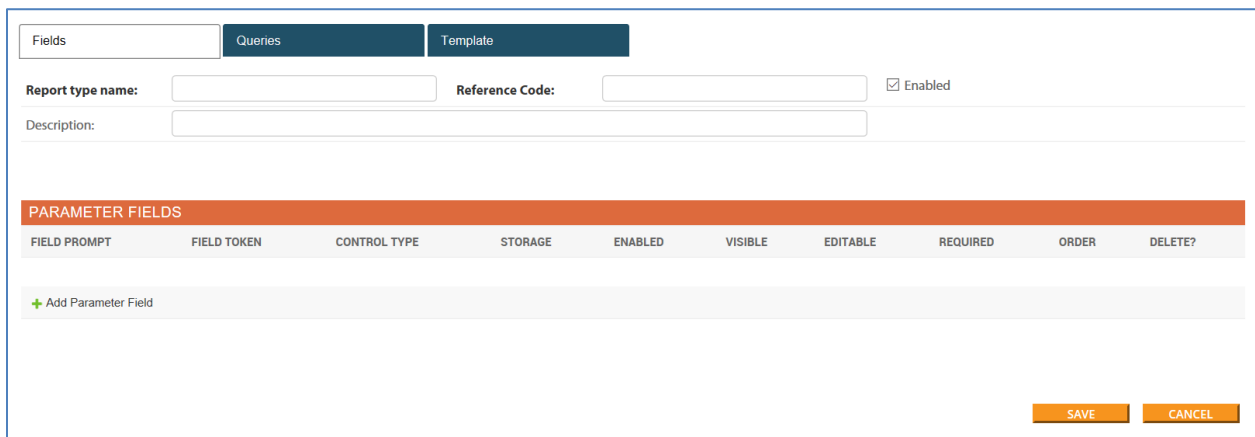


Fig. 3 – Header information of a new report type and ‘+ Add Parameter Field’

### 3.1. Configuring Fields

Report type fields define the criteria which end users may utilize as filters for report data. Here are the steps involved:

1. From the Fields tab, click '+ Add Parameter Field'. A new section will open.

Fig. 4 – Settings available for each report field

Below is description of the fields to populate:

Prompt	Description
Field Prompt	The field label as it appears on the report
Field Token	The internal identifier for Emoveo. For example, if you want the report query to reference this field as part of its selection criteria, you reference the corresponding token name using " [ " and " ] ", e.g. [CREATED_ON]
Description	Optional text to describe the field
Control Type	A field's control type sets how end users are expected to enter data into each field. For example, a Change Manager field can either have a pre-defined list of names from where end users select the name of the manager, or it can have a free form field where end users manually type a name
Storage	The database column in the reports table (within the Emoveo database) to be used to store entries for the field. The drop-down list shows number values 1 through 30 and auto. Auto should be selected to allow Emoveo to automatically assign a field to its own column. If you want to organize related fields to be stored in proximity of each other, you can re-assign fields to other columns
Validation Type	If the control type of a field is selected as 'Drop Down (SQL)' or 'Autocomplete (SQL)', the SELECT statement can be entered in this text area. If control type is selected as 'Drop Down (List)', the list of values can be

	entered here using one choice per line, separating the hidden code and visible value with a colon
Hidden Default	If you would like a default value selected for the field, enter the hidden code and the report will automatically determine and display the visible value to the end user
Enabled	Checking this enables the field to be used in the report
Visible	Checking this enables the field to be visible to the end user
Editable	Checking this enables the field to be editable by the end user
Required	Checking this makes an entry for this field mandatory

Table 2 - Attributes of report fields

2. Click Save to save your new field and return to the main Fields tab/screen.
3. Continue adding as many fields as needed.














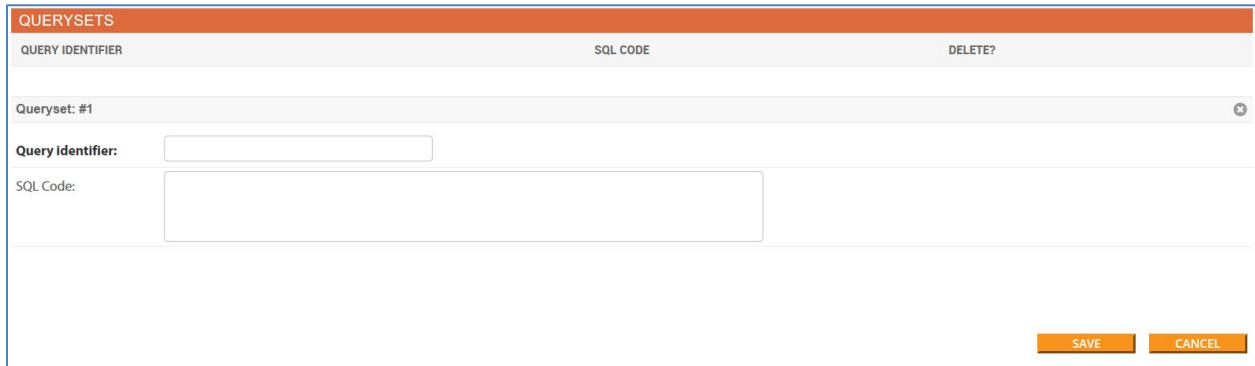
PARAMETER FIELDS										
FIELD PROMPT	FIELD TOKEN	CONTROL TYPE	STORAGE	ENABLED	VISIBLE	EDITABLE	REQUIRED	ORDER	DELETE?	
Package Status 	Package Status	STATUS	Drop Down (List)	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1 <input type="text"/>	<input type="checkbox"/>
Package Line state 	Package Line state	LINE_STATE	Drop Down (List)	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2 <input type="text"/>	<input type="checkbox"/>
Eligibility filter 	Eligibility filter	ELIGIBLE	Drop Down (List)	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3 <input type="text"/>	<input type="checkbox"/>
Created on 	Created on	CREATED_ON	Drop Down (SQL)	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4 <input type="text"/>	<input type="checkbox"/>
Object Type 	Object Type	OBJECT_TYPE	Drop Down (SQL)	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5 <input type="text"/>	<input type="checkbox"/>
Sort packages by 	Sort packages by	PKG_SORT	Drop Down (List)	6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6 <input type="text"/>	<input type="checkbox"/>
Custom Field 1 	Custom Field 1	CUSTOM_01	Autocomplete (SQL)	7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7 <input type="text"/>	<input type="checkbox"/>
Custom Field 2 	Custom Field 2	CUSTOM_02	Autocomplete (SQL)	8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8 <input type="text"/>	<input type="checkbox"/>
Custom Field 3 	Custom Field 3	CUSTOM_03	Autocomplete (SQL)	9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	9 <input type="text"/>	<input type="checkbox"/>
Custom Field 4 	Custom Field 4	CUSTOM_04	Autocomplete (SQL)	10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10 <input type="text"/>	<input type="checkbox"/>
Last Step Approver 	Last Step Approver	APPROVER	Drop Down (SQL)	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11 <input type="text"/>	<input type="checkbox"/>
Last Step Result 	Last Step Result	RESULT	Drop Down (List)	12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12 <input type="text"/>	<input type="checkbox"/>
 Add Parameter Field										

Fig. 5 – Available fields on the out of the box Package Detail Report.

## 3.2. Configuring Queries

The report executes SQL queries to filter for and retrieve the desired report data. The Queries tab allows the entry of multiple SQL statements, with each statement being assigned a ReportQueryset object.

1. From the Queries tab, click '+ Add Queryset'. A new section will open.



QUERY IDENTIFIER	SQL CODE	DELETE?
Queryset: #1		
Query Identifier:	<input type="text"/>	
SQL Code:	<input type="text"/>	
		<input type="button" value="SAVE"/> <input type="button" value="CANCEL"/>

Fig. 6 – Settings for each queryset

2. Each Queryset is defined using the following settings:
  - Query identifier: A unique assigned name for the query that may be referenced within the report.
  - SQL Code: The SQL statement to be executed by the report to retrieve the desired report results.
3. Click Save to save your Queryset and return to the main Queries tab/screen.
4. Repeat to add as many queries as needed.



QUERY IDENTIFIER	SQL CODE	DELETE?
ReportQueryset object package_lines	<pre>select l.line_number, l.package_line_id, l.description, l.object_visible_name object_name, nvl(l.object_visible_version, 'N/A') object_version, l.object_type_id, t.object_type_name, w.state,</pre>	<input type="checkbox"/>
ReportQueryset object packages	<pre>select p.package_id, p.package_name, p.creation_date, p.description, initcap(replace(p.status, '-', ' ')) status, u.username, u.first_name    '-'    u.last_name full_name, w.workflow_id, w.workflow_name,</pre>	<input type="checkbox"/>
ReportQueryset object wf_instances	<pre>SELECT st.top_instance_source_id package_id, st.instance_source_id package_line_id, st.state,</pre>	<input type="checkbox"/>
ReportQueryset object transactions	<pre>SELECT package_line_id, step_transaction_id, transaction_date,</pre>	<input type="checkbox"/>
ReportQueryset object approvals	<pre>SELECT st.top_instance_source_id package_id, st.instance_source_id package_line_id, st.step_transaction_id,</pre>	<input type="checkbox"/>
<input type="button" value="+ Add Queryset"/>		

Fig. 7 – Multiple querysets configured for the out of the box Package Detail Report and '+ Add Queryset'

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### 3.3. Configuring Templates

The formatting of the report output is dictated by a Django template. A Django template is simply a text document marked up using the Django template language. The Django template engine provides a powerful mini-language using constructs such as variables and tags for defining the user-facing layer of the Emoveo report.

1. From the Template tab, you will see a text area where Template text can be entered and saved.

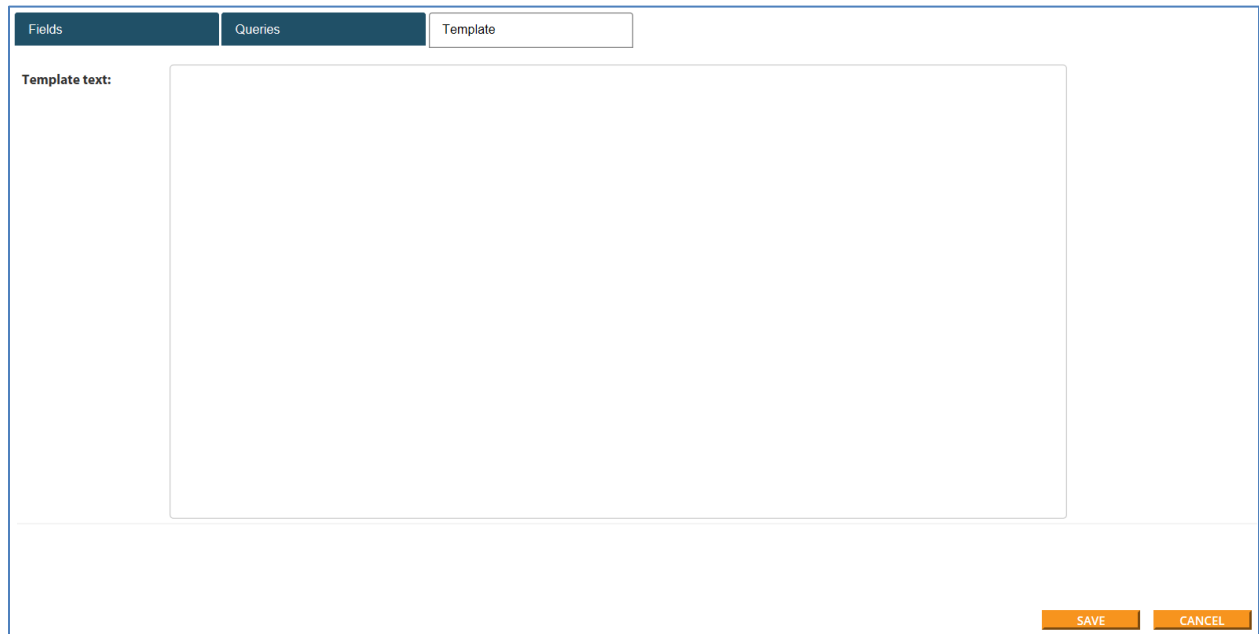


Fig. 8 – Report presentation and formatting to be defined by Django template language

2. See the following reference guide of the Django template language:

<https://docs.djangoproject.com/en/1.11/topics/templates/>

3. As an example, below is the template for the out of the box Package Detail Report. The highlighted area shows the calling of the report's configured ReportQueryset objects. Note the HTML tags throughout and footnotes for additional information.

```
{% extends "report/base.html" %}1  
{% load emoveo_reports %}2
```

```
{% block content %}  
<div class="content">  
  {% run_query "packages" as packages %}3  
  
  {% for package in packages %}
```

---

<sup>1</sup> *base.html* applies a default Emoveo format to the report output. Optionally report writers can create the entire html from scratch.

<sup>2</sup> This tag is required to be able to use `run_query`.

<sup>3</sup> Name of the Queryset is case sensitive as is the name of the variable where the result is stored.



---

```

{% if param.ELIGIBLE == 'PKG' %}
  {% package_eligible package.package_id user as eligible %}4
{% else %}
  {% store True as eligible %}
{% endif %}

{% if eligible %}
  <hr class="package-divider">
  <div class="package">

    <h2>Package #{{ package.package_id }} - {{ package.package_name }}</h2>
    {% if package.description %}
      <p><strong>Description:</strong> {{ package.description }}</p>
    {% endif %}
    <div class="package-details">
      <p><strong>Workflow:</strong> {{ package.workflow_name }}</p>
      <p><strong>Package Status:</strong> {{ package.status }}</p>
      <p><strong>Creation date:</strong> {{ package.creation_date_display }}</p>
    </div>

    {% run_query "package_lines" package.package_id as lines %}

    {% if lines and not lines.error %}

      <table class="package-lines">
        <thead>
          <tr>
            <th>Number</th>
            <th>Object Type</th>
            <th>Object Name</th>
            <th>Version</th>
            <th>Step</th>
            <th>State</th>
            <th>Last Txn</th>
            <th>Last Result</th>
            <th>Last Approver</th>

            {% if param.CUSTOM_01 %}<th>{{ param_visible.CUSTOM_01 }}</th>{% endif %}
            {% if param.CUSTOM_02 %}<th>{{ param_visible.CUSTOM_02 }}</th>{% endif %}
            {% if param.CUSTOM_03 %}<th>{{ param_visible.CUSTOM_03 }}</th>{% endif %}
            {% if param.CUSTOM_04 %}<th>{{ param_visible.CUSTOM_04 }}</th>{% endif %}

          </tr>
        </thead>
        <tbody>
          {% for line in lines %}

```

---

<sup>4</sup> *package\_eligible* is a custom Emoveo template tag that tests if a user is eligible for a package returning True or False. The 2 parameters are ID of the package and user.

---

```

{% if param.ELIGIBLE == 'PKGL' %}
  {% package_line_eligible line.package_line_id user as eligible %}
{% else %}
  {% store True as eligible %}
{% endif %}

{% if eligible %}
  <tr>
    <td>{{ line.line_number }}</td>
    <td>{{ line.object_type_name }}</td>
    <td>{{ line.object_name }}</td>
    <td>{{ line.object_version|default:"N/A" }}</td>
    <td>{{ line.workflow_step_name|default:"--" }}</td>
    <td>{{ line.state_display|default:"Unsubmitted" }}</td>
    <td>{{ line.last_transaction_date }}</td>
    <td>{{ line.last_result }}</td>
    <td>{{ line.last_approver }}</td>
    {% if param.CUSTOM_01 %}<td>
      {% get line param.CUSTOM_01 %}
    </td>{% endif %}
    {% if param.CUSTOM_02 %}<td>
      {% get line param.CUSTOM_02 %}
    </td>{% endif %}
    {% if param.CUSTOM_03 %}<td>
      {% get line param.CUSTOM_03 %}
    </td>{% endif %}
    {% if param.CUSTOM_04 %}<td>
      {% get line param.CUSTOM_04 %}
    </td>{% endif %}
  </tr>
  {% endif %}
{% endfor %}
</tbody>
</table>

{% elif lines.error %}
  <p style="color: red">{{ lines.error }}</p>
{% else %}
  <em>Package has no matching lines.</em>
{% endif %}
</div>
<br>
{% endif %}

{% endfor %}
</div>
{% endblock %}

```

---

## 4. Data Model Guide

Emoveo's data is stored in a relational Oracle database, accessible to report creators and generators. Below is a list of the database's tables, in a logical order:

### 4.1. Special Commands and Object Types

<b>Table Name</b>	CFG_SPECIAL_COMMANDS
<b>Description</b>	Parent table of special commands
<b>Fields</b>	<b>Data Type</b>
SPECIAL_COMMAND_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text
SPECIAL_COMMAND_NAME	Text
ENABLED_FLAG	Number
FULL_COMMAND_TEXT	Text
CREATED_BY	Number
LAST_UPDATED_BY	Number

<b>Table Name</b>	CFG_SPECIAL_COMMAND_PARAMS
<b>Description</b>	Special command parameters
<b>Fields</b>	<b>Data Type</b>
PARAMETER_ID	Number
SEQ	Number
PARAMETER_NAME	Text
PARAMETER_TOKEN	Text
DESCRIPTION	Text
SPECIAL_COMMAND_ID	Number

<b>Table Name</b>	CFG_COMMANDS
<b>Description</b>	Parent table of special command commands
<b>Fields</b>	<b>Data Type</b>
COMMAND_ID	Number
COMMAND_NAME	Text
DESCRIPTION	Text
ENABLED_FLAG	Number
CONDITION	Text
TIMEOUT_SECONDS	Number

ORIGINAL_COMMAND_TEXT	Text
-----------------------	------

<b>Table Name</b>	CFG_SPECIAL_COMMAND_CMDS
<b>Description</b>	Associates and sequences the commands of special commands
<b>Fields</b>	<b>Data Type</b>
COMMAND_ID	Number
SEQ	Number
SPECIAL_COMMAND_ID	Number

<b>Table Name</b>	CFG_COMMAND_STEPS
<b>Description</b>	Steps of each special command's command
<b>Fields</b>	<b>Data Type</b>
COMMAND_STEP_ID	Number
STEP_SEQ	Number
COMMAND	Text
COMMAND_ID	Number

<b>Table Name</b>	CFG_OBJECT_TYPES
<b>Description</b>	Parent table of object types
<b>Fields</b>	<b>Data Type</b>
OBJECT_TYPE_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text
REFERENCE_CODE	Text
OBJECT_TYPE_NAME	Text
ENABLED_FLAG	Number
CREATED_BY	Number
LAST_UPDATED_BY	Number
OBJ_NAME_FIELD_ID	Number
VERSION_FIELD_ID	Number

<b>Table Name</b>	CFG_OBJECT_TYPE_FIELDS
<b>Description</b>	Joins and sequences object type fields
<b>Fields</b>	<b>Data Type</b>
FIELD_ID	Number

SEQ	Number
OBJECT_TYPE_ID	Number

<b>Table Name</b>	CFG_OBJECT_TYPE_CMDS
<b>Description</b>	Associates and sequences commands of object types
<b>Fields</b>	<b>Data Type</b>
COMMAND_ID	Number
SEQ	Number
OBJECT_TYPE_ID	Number

## 4.2. Workflow Configuration

<b>Table Name</b>	CFG_WORKFLOWS
<b>Description</b>	Parent table of configured workflows
<b>Fields</b>	<b>Data Type</b>
WORKFLOW_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text
WORKFLOW_NAME	Text
ENABLED_FLAG	Number
REFERENCE_CODE	Text
CREATED_BY	Number
LAST_UPDATED_BY	Number

<b>Table Name</b>	CFG_WORKFLOW_STEPS
<b>Description</b>	Stores workflow step information of each configured workflow
<b>Fields</b>	<b>Data Type</b>
WORKFLOW_STEP_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date

DESCRIPTION	Text
SEQ	Number
WORKFLOW_STEP_NAME	Text
PARENT_STATUS	Text
STEP_TYPE_CODE	Text
IMMEDIATE_FLAG	Number
SQL_QUERY	Text
CREATED_BY	Number
DEST_ENVIRONMENT_ID	Number
LAST_UPDATED_BY	Number
ON_FAILURE_STEP_ID	Number
ON_SUCCESS_STEP_ID	Number
SOURCE_ENVIRONMENT_ID	Number
WORKFLOW_ID	Number

<b>Table Name</b>	CFG_WF_STEP_SECURITY
<b>Description</b>	Stores user security information of each configured workflow step
<b>Fields</b>	<b>Data Type</b>
WF_STEP_SECURITY_ID	Number
USER_ID	Number
WORKFLOW_STEP_ID	Number
CREATED_BY	Date
CREATION_DATE	Date

<b>Table Name</b>	CFG_WF_GROUP_STEP_SECURITY
<b>Description</b>	Stores group security information of each configured workflow step
<b>Fields</b>	<b>Data Type</b>
WF_GROUP_STEP_SECURITY_ID	Number
SECURITY_GROUP_ID	Number
WORKFLOW_STEP_ID	Number
CREATED_BY	Number
CREATION_DATE	Date

<b>Table Name</b>	CFG_WF_OBJ_TYPES
<b>Description</b>	Stores the object types allowed to be used in each configured workflow
<b>Fields</b>	<b>Data Type</b>
ID	Number
WORKFLOW_ID	Number

---

OBJECTTYPE_ID	Number
---------------	--------

<b>Table Name</b>	CFG_WORKFLOW_STEP_CMDS
<b>Description</b>	Sequences the commands of each workflow step
<b>Fields</b>	<b>Data Type</b>
COMMAND_ID	Number
SEQ	Number
WORKFLOW_STEP_ID	Number

<b>Table Name</b>	CFG_STEP_NOTIFICATIONS
<b>Description</b>	Stores email notification information of workflow steps
<b>Fields</b>	<b>Data Type</b>
NOTIFICATION_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text
SUBJECT	Text
EMAIL_TO	Text
TEMPLATE_TEXT	Text
ENABLED_FLAG	Number
CREATED_BY	Number
LAST_UPDATED_BY	Number
WORKFLOW_STEP_ID	Number
ON_TRANSACTION	Text
GROUPING	Text

### 4.3. Field Configuration

<b>Table Name</b>	CFG_FIELDS
<b>Description</b>	Fields of reports, object types, package custom fields, or environment custom field
<b>Fields</b>	<b>Data Type</b>
FIELD_ID	Number
PROMPT	Text
FIELD_TOKEN	Text
DESCRIPTION	Text
CONTROL_TYPE	Text
VALIDATION_CODE	Text
ENABLED_FLAG	Number
VISIBLE_FLAG	Number
EDITABLE_FLAG	Number
REQUIRED_FLAG	Number

---

DEFAULT_HIDDEN	Text
STORAGE_TABLE	Text
STORAGE_NUMBER	Number
STORAGE_HIDDEN_COLUMN	Text
STORAGE_VISIBLE_COLUMN	Text

<b>Table Name</b>	CFG_CUSTOM_FIELDS
<b>Description</b>	Associates configured fields to a specific type of object
<b>Fields</b>	<b>Data Type</b>
FIELD_ID	Number
SEQ	Number
CUSTOM_FIELD_GROUP_ID	Number

<b>Table Name</b>	CGF_CUSTOM_FIELD_GROUPS
<b>Description</b>	Parent list of the Emoveo objects supporting custom fields
<b>Fields</b>	<b>Data Type</b>
CUSTOM_FIELD_GROUP_ID	Number
FIELD_GROUP_MODEL_NAME	Text
FIELD_GROUP_MODEL_LABEL	Text
TOKEN_PREFIX	Text
REFERENCE_CODE	Text

#### 4.4. Environments

<b>Table Name</b>	CFG_ENVIRONMENTS
<b>Description</b>	Parent table of configured Emoveo environments
<b>Fields</b>	<b>Data Type</b>
ENVIRONMENT_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text
HIDDEN_VALUE_1...30	Text
VISIBLE_VALUE_1...30	Text
ENABLED_FLAG	Number
ENVIRONMENT_NAME	Text
REFERENCE_CODE	Text
SERVER_ENABLED_FLAG	Number
SERVER_HOSTNAME	Text
SERVER_USERNAME	Text



SERVER_PASSWORD	Text
SERVER_BASE_PATH	Text
SERVER_OS_TYPE	Text
SERVER_NT_DOMAIN	Text
SERVER_CONNECT_PROTOCOL	Text
SERVER_TRANSFER_PROTOCOL	Text
SERVER_STREAM_ENCODING	Text
CLIENT_ENABLED_FLAG	Number
CLIENT_HOSTNAME	Text
CLIENT_USERNAME	Text
CLIENT_PASSWORD	Text
CLIENT_BASE_PATH	Text
CLIENT_OS_TYPE	Text
CLIENT_NT_DOMAIN	Text
CLIENT_CONNECT_PROTOCOL	Text
CLIENT_TRANSFER_PROTOCOL	Text
CLIENT_STREAM_ENCODING	Text
DB_ENABLED_FLAG	Number
DB_TYPE	Text
DB_HOSTNAME	Text
DB_USERNAME	Text
DB_PASSWORD	Text
DB_CONNECT_STRING	Text
DB_ORACLE_SID	Text
DB_PORT_NUMBER	Number
DB_LINK	Text
DB_VERSION	Text
DB_JDBC_URL	Text
CREATED_BY	Date
LAST_UPDATED_BY	Date

<b>Table Name</b>	CFG_ENV_APPS
<b>Description</b>	Stores information about environment applications
<b>Fields</b>	<b>Data Type</b>
ENV_APP_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text

APP_NAME	Text
APP_CODE	Text
REFERENCE_CODE	Text
ENABLED_FLAG	Number
SERVER_USERNAME	Text
SERVER_PASSWORD	Text
SERVER_BASE_PATH	Text
CLIENT_USERNAME	Text
CLIENT_PASSWORD	Text
CLIENT_BASE_PATH	Text
DB_USERNAME	Text
DB_PASSWORD	Text
DB_LINK	Text
CREATED_BY	Number
ENVIRONMENT_ID	Number
LAST_UPDATED_BY	Number

<b>Table Name</b>	CFG_ENV_APP_CODES
<b>Description</b>	Stores app codes for environment applications.
<b>Fields</b>	<b>Data Type</b>
APP_CODE_ID	Number
APP_CODE	Text

<b>Table Name</b>	CFG_ENV_CHECKS
<b>Description</b>	Records information about environment checks performed
<b>Fields</b>	<b>Data Type</b>
ENV_CHECK_ID	Number
CHECK_TYPE	Text
CHECK_RESULT	Text
CHECK_START_DATE	Date
CHECK_FINISH_DATE	Date
LOG_FILE	Text
ENVIRONMENT_ID	Text
INCLUDE_APPS	Text

#### 4.5. Packages

<b>Table Name</b>	DPM_PACKAGES
<b>Description</b>	Parent table of Emoveo packages
<b>Fields</b>	<b>Data Type</b>
PACKAGE_ID	Number

CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text
HIDDEN_VALUE_1...30	Text
VISIBLE_VALUE_1...30	Text
PACKAGE_NAME	Text
STATUS	Text
CREATED_BY	Number
LAST_UPDATED_BY	Number
WORKFLOW_ID	Number

<b>Table Name</b>	DPM_PACKAGE_LINES
<b>Description</b>	Stores package line information
<b>Fields</b>	<b>Data Type</b>
PACKAGE_LINE_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text
HIDDEN_PARAMETER_1...30	Text
VISIBLE_PARAMETER_1...30	Text
LINE_GROUP	Number
SEQ	Number
READY_FLAG	Number
LINE_NUMBER	Text
OBJECT_VISIBLE_NAME	Text
OBJECT_HIDDEN_NAME	Text
OBJECT_VISIBLE_VERSION	Text
OBJECT_HIDDEN_VERSION	Text
APP_CODE_ID	Number
CREATED_BY	Number
LAST_UPDATED_BY	Number
OBJECT_TYPE_ID	Number
PACKAGE_ID	Number
WORKFLOW_INSTANCE_ID	Number

<b>Table Name</b>	DPM_WORKFLOW_INSTANCES
<b>Description</b>	Associates package lines to workflows
<b>Fields</b>	<b>Data Type</b>
WORKFLOW_INSTANCE_ID	Number
TOP_INSTANCE_SOURCE_ID	Number

INSTANCE_SOURCE_ID	Number
STATUS	Text
COMPLETION_DATE	Date
LAST_TRANSACTION_STATE	Text
EXECUTION_GROUP_ID	Number
FIRST_WF_INSTANCE_STEP_ID	Number
WORKFLOW_ID	Number

<b>Table Name</b>	DPM_STEP_TRANSACTIONS
<b>Description</b>	Stores information about package line workflow step transactions
<b>Fields</b>	<b>Data Type</b>
STEP_TRANSACTION_ID	Number
TOP_INSTANCE_SOURCE_ID	Number
INSTANCE_SOURCE_ID	Number
STATE	Text
RESULT_VALUE	Text
STATUS	Text
CREATION_DATE	Date
PREDECESSOR_LINE_GROUP	Number
CREATED_BY	Number
DEST_ENVIRONMENT_ID	Number
PREV_STEP_TRANSACTION_ID	Number
SOURCE_ENVIRONMENT_ID	Number
STEP_LOG_ID	Number
WORKFLOW_ID	Number
WORKFLOW_INSTANCE_ID	Number
WORKFLOW_STEP_ID	Number

<b>Table Name</b>	DPM_STEP_TRANSITIONS
<b>Description</b>	Stores information about package line transitions between steps
<b>Fields</b>	<b>Data Type</b>
STEP_TRANSITION_ID	Number
TOP_INSTANCE_SOURCE_ID	Number
INSTANCE_SOURCE_ID	Number
TRANSITION_VALUE	Text
CREATION_DATE	Date
CREATED_BY	Number

FROM_WF_INSTANCE_STEP_ID	Number
FROM_WORKFLOW_STEP_ID	Number
TO_WF_INSTANCE_STEP_ID	Number
TO_WORKFLOW_STEP_ID	Number
WORKFLOW_ID	Number
WORKFLOW_INSTANCE_ID	Number

<b>Table Name</b>	DPM_WF_INSTANCE_STEP_LOGS
<b>Description</b>	Stores log information for package line steps
<b>Fields</b>	<b>Data Type</b>
STEP_LOG_ID	Number
LOG_FILE	Text
LOG_NUMBER	Number
CREATION_DATE	Date
RESULT_VALUE	Text
WORKFLOW_INSTANCE_ID	Number
WF_INSTANCE_STEP_ID	Number

<b>Table Name</b>	DPM_WF_INSTANCE_STEPS
<b>Description</b>	Stores a record for each workflow step of a workflow instance (workflow of a package line)
<b>Fields</b>	<b>Data Type</b>
WF_INSTANCE_STEP_ID	Number
TOP_INSTANCE_SOURCE_ID	Number
INSTANCE_SOURCE_ID	Number
ACTIVE_FLAG	Number
RESET_FLAG	Number
ABORT_FLAG	Number
LAST_STEP_LOG_ID	Number
LAST_STEP_TRANSACTION_ID	Number
WORKFLOW_ID	Number
WORKFLOW_INSTANCE_ID	Number
WORKFLOW_STEP_ID	Number

<b>Table Name</b>	DPM_EXECUTION_GROUPS
<b>Description</b>	Stores execution groups for package lines to be executed concurrently.
<b>Fields</b>	<b>Data Type</b>

EXECUTION_GROUP_ID	Number
LINE_GROUP	Number
PREDECESSOR_GROUP_ID	Number

<b>Table Name</b>	DPM_PENDING_EXECUTIONS
<b>Description</b>	Stores data about the process(es) currently being executed in a workflow instance. Each workflow instance can have up to one pending execution. A serial step cannot be run if there is a pending execution for the workflow instance.
<b>Fields</b>	<b>Data Type</b>
PENDING_EXECUTION_ID	Number
TOP_INSTANCE_SOURCE_ID	Number
INSTANCE_SOURCE_ID	Number
ACTIVE_FLAG	Number
EXECUTION_GROUP_ID	Number
USER_ID	Number
WF_INSTANCE_STEP_ID	Number

<b>Table Name</b>	DPM_DELETED_PACKAGES
<b>Description</b>	Stores information about deleted packages
<b>Fields</b>	<b>Data Type</b>
DELETED_PACKAGE_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text
HIDDEN_VALUE_1...30	Text
VISIBLE_VALUE_1...30	Text
PACKAGE_NAME	Text
STATUS	Text
CURRENT_GROUP	Number
WORKFLOW_ID	Number
CREATED_BY	Number
LAST_UPDATED_BY	Number

<b>Table Name</b>	DPM_DELETED_PACKAGE_LINES
<b>Description</b>	Stores information about deleted package lines
<b>Fields</b>	<b>Data Type</b>
DELETED_PACKAGE_LINE_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text
HIDDEN_PARAMETER_1...30	Text
VISIBLE_PARAMETER_1...30	Text

PACKAGE_LINE_ID	Number
PACKAGE_ID	Number
OBJECT_TYPE_ID	Number
APP_CODE_ID	Number
LINE_GROUP	Number
SEQ	Number
READY_FLAG	Number
LINE_NUMBER	Text
WORKFLOW_INSTANCE_ID	Number
OBJECT_VISIBLE_NAME	Text
OBJECT_HIDDEN_NAME	Text
OBJECT_VISIBLE_VERSION	Text
OBJECT_HIDDEN_VERSION	Text
CREATED_BY	Number
LAST_UPDAED_BY	Number

#### 4.6. Reports

<b>Table Name</b>	RPT_REPORT_TYPES
<b>Description</b>	Parent table of report types
<b>Fields</b>	<b>Data Type</b>
REPORT_TYPE_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text
REFERENCE_CODE	Text
REPORT_TYPE_NAME	Text
TEMPLATE_TEXT	Text
ENABLED_FLAG	Number
CREATED_BY	Number
LAST_UPDATED_BY	Number

<b>Table Name</b>	RPT_QUERYSETS
<b>Description</b>	Querysets of each report type
<b>Fields</b>	<b>Data Type</b>
REPORT_QUERYSET_ID	Number
CONTEXT_NAME	Text
SQL_CODE	Text
REPORT_TYPE_ID	Number

<b>Table Name</b>	RPT_FIELDS
<b>Description</b>	Fields of each report type

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<b>Fields</b>	<b>Data Type</b>
REPORT_FIELD_ID	Number
SEQ	Number
REPORT_TYPE_ID	Number

<b>Table Name</b>	RPT_REPORTS
<b>Description</b>	Stores information about generated reports
<b>Fields</b>	<b>Data Type</b>
REPORT_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text
HIDDEN_PARAMETER_1...30	Text
VISIBLE_PARAMETER_1...30	Text
REPORT_STATUS	Text
EXECUTION_DATE	Date
REPORT_FILE	Text
CREATED_BY	Number
LAST_UPDATED_BY	Number
REPORT_TYPE_ID	Number

#### 4.7. User and System Tables

<b>Table Name</b>	AUTH_USER
<b>Description</b>	Parent table of configured users
<b>Fields</b>	<b>Data Type</b>
ID	Number
PASSWORD	Text
LAST_LOGIN	Date
IS_SUPERUSER	Number
USERNAME	Text
FIRST_NAME	Text
LAST_NAME	Text
EMAIL	Text
IS_STAFF	Number
IS_ACTIVE	Number
DATE_JOINED	Date

<b>Table Name</b>	CFG_USERS
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<b>Description</b>	Augments the parent table AUTH_USER
<b>Fields</b>	<b>Data Type</b>
BASE_USER_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text
CREATED_BY	Number
LAST_UPDATED_BY	Number
IS_CONFIGURE	Number

<b>Table Name</b>	CFG_SECURITY_GROUPS
<b>Description</b>	Parent table of configured security groups
<b>Fields</b>	<b>Data Type</b>
BASE_GROUP_ID	Number
CREATION_DATE	Date
LAST_UPDATE_DATE	Date
DESCRIPTION	Text
CREATED_BY	Number
LAST_UPDATED_BY	Number

<b>Table Name</b>	CFG_USER_SECURITY
<b>Description</b>	Associates users to security groups
<b>Fields</b>	<b>Data Type</b>
ID	Number
USERPROFILE_ID	Number
SECURITY_GROUP_ID	Number

<b>Table Name</b>	AUTH_GROUP_PERMISSIONS
<b>Description</b>	Stores group permissions internally. Should not be modified
<b>Fields</b>	<b>Data Type</b>
ID	Number
USER_ID	Number
PERMISSION_ID	Number

<b>Table Name</b>	AUTH_PERMISSION
<b>Description</b>	Stores user permissions internally. Should not be modified

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<b>Fields</b>	<b>Data Type</b>
ID	Number
NAME	Text
CONTENT_TYPE_ID	Number
CODENAME	Text
<b>Table Name</b>	AUTH_USER_GROUPS
<b>Description</b>	Stores user group relationships internally. Should not be modified
<b>Fields</b>	<b>Data Type</b>
ID	Number
USER_ID	Number
GROUP_ID	Number

<b>Table Name</b>	AUTH_USER_USER_PERMISSIONS
<b>Description</b>	Stores user permissions internally. Should not be modified
<b>Fields</b>	<b>Data Type</b>
ID	Number
USER_ID	Number
PERMISSION_ID	Number

<b>Table Name</b>	DJANGO_CONTENT_TYPE
<b>Description</b>	Table that handles content types internally. Should not be modified
<b>Fields</b>	<b>Data Type</b>
ID	Number
APP_LABEL	Text
MODEL	Text

<b>Table Name</b>	AUTH_GROUP
<b>Description</b>	Stores user groups internally. Should not be modified
<b>Fields</b>	<b>Data Type</b>
ID	Number
NAME	Text

<b>Table Name</b>	DJANGO_ADMIN_LOG
<b>Description</b>	Stores admin activity internally. Should not be modified
<b>Fields</b>	<b>Data Type</b>
ID	Number
ACTION_TIME	Date
OBJECT_ID	Text

OBJECT_REPR	Text
ACTION_FLAG	Number
CHANGE_MESSAGE	Text
CONTENT_TYPE_ID	Number
USER_ID	Number

<b>Table Name</b>	DJANGO_SESSION
<b>Description</b>	Stores user session information
<b>Fields</b>	<b>Data Type</b>
SESSSION_KEY	Number
SESSION_DATA	Text
EXPIRE_DATE	Date

<b>Table Name</b>	DJANGO_MIGRATIONS
<b>Description</b>	Table detailing changes made to database schema. Should not be modified under any circumstances
<b>Fields</b>	<b>Data Type</b>
ID	Number
APP	Text
NAME	Text
APPLIED	Date

<b>Table Name</b>	DPM_SENT_STEP_NOTIFS
<b>Description</b>	Log of notifications that have been sent by the system
<b>Fields</b>	<b>Data Type</b>
ID	Number
NOTIFICATION_ID	Number
TOP_INSTANCE_SOURCE_ID	Number
INSTANCE_SOURCE_ID	Number
LINE_GROUP	Number

<b>Table Name</b>	CFG_SECURITY_LOG
<b>Description</b>	Log detailing changes in permissions and who made those changes
<b>Fields</b>	<b>Data Type</b>
ID	Number
LOG_DATE	Date
ACTION	Text

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MODEL_NAME	Text
USER_ID	Number
SECURITY_GROUP_ID	Number
PERMISSION_ID	Number