**Developer's guide**

**for software**

**«L\_PLAN»**

**Version 0.1**

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# History of changes

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| **Date** | **Version** | **Author** | **Description** |
| 05.06.2018 | 0.1 | Klein A.M. | Document created. |
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# Introduction

This document contains general information about the L\_Plan system, used environments, user authorization, metadata structure, describes manipulations in the administrative part of the system and is intended for system administrators.

This document may not reflect all the capabilities of the system at any particular time. This document may also contain references to functions not available on your computer system. Such references should not be interpreted in the sense that these capabilities should necessarily be available on all types of computer systems or in all places of installation of the system.

# Structure of the software package, applications

The program complex consists of the APEX application L\_Plan (Application ID = 117), DBMS Oracle and Informatica PowerCenter objects.

## L\_Plan

The main application L\_Plan performs the functions of displaying, editing dictionries data, assembling plans with their components, monitoring the work. The L\_Plan application consists of six kinds of pages:

1. Work on launching the plan.
2. Editing of dictionaries.
3. Viewing logs and editing some special lines.
4. Changing the dependences.
5. Creating variables that are bound to the environment.
6. Monitoring of current plans.

# Authentication and authorization in the system

In the application, uses the internal APEX authentication system.

# Plugins

APEX allows you to implement the missing functionality when developing applications using plug-ins. One plug-in was installed for this application, but it is not used in the current implementation.

## Timer

In some situations, it is necessary to repeat the action after a certain time interval, but the component does not consists in the APEX delivery. It must be downloaded from the Oracle repository or from topical repositories.

To activate the event, you need to create a Dynamic Action, where you select the event to deliver - Timer Expired.

# Environments in which the application is implemented

This application consists of several components that are linked to each other by media settings.

## Linux OS

For the normal work of the system support staff and the DBA, an OS user was created with the rights to receive data from the Oracle database and run sh-scripts.

## Informatica PowerCenter

In the repository, the workflow wf\_L\_PLAN is created, which contains the session for mapping m\_DUMMY and in PreSQL contains a call to the procedure for working with plans: call L\_PLAN.META\_DO\_PLAN\_PKG.DO\_PLAN ('INFA');

## Oracle DBMS

The Oracle database contains the core of the project, all the directories, sequences, jobs, programs, triggers and packages. All tables’ names start with the prefix "L\_". On the tables, there are triggers for numbering unique IDs. The package meta\_do\_plan\_pkg is divided into modules for greater flexibility.

## Oracle APEX

The [L\_Plan](http://my_dbase:8080/ords/f?p=117:1) application contains blocks for running the plan, dictionaries, monitoring and fixing errors pages in the current plan to restart the action in the event of a fall the plan item or after the successful action pass but workflow fall.