**Purpose**

The purpose of this document is to describe the functionality and structure of the scripts that allows the creation of spreadsheet based in database views.

**Scope**

The scripts will be used to produce different reports for the shareholders. These reports are mainly Excel documents (xlsx) with multiple tabs (sheets inside).

**Technical Requirement**

1. A compilation of different database views into an Excel report document is required.
2. Initially there will be the following reports:

PHMSA including the views:

PHMSA\_MAOP\_V\_192\_619\_A2

PHMSA\_MAOP\_V\_192\_619\_A3

PHMSA\_MAOP\_V\_192\_619\_C

PHMSA\_MAOP\_V\_COMPREVIEW

PHMSA\_MAOP\_V\_192\_611

PHMSA\_MAOP\_V\_192\_619

PHMSA\_MAOP\_V\_192\_619\_A

PHMSA\_MAOP\_V\_192\_619\_A1

PSEP including the views:

PSEP\_SEGMENTS

PSEP\_SUMMARY\_MILEAGE\_BY\_PHASE

PSEP\_SUMMARY\_MILEAGE\_COMBINED

PSEP\_SUMMARY\_MILEAGE\_SCG

PSEP\_SUMMARY\_MILEAGE\_SDG

PROJECT QUEUE including the views:

VU\_PROJECT\_QUEUE

VU\_PROJECT\_EDITORS

1. The reports (xlsx) will have the date of creation appended at the end of the file.
2. The final document must be deployed in a share point folder.

**General Solution**

As part of the automation effort in HPPDB activities a report for shareholders is of key importance in a time manner. An ETL interface that connect to a database, extract the data and finally create an excel document is enough to provide the end user with a tool to obtain the report.

**Components of the Solution**

XML Configuration Files (PHMSA.XML – PSEP.XML – PROJECTQUEUE.XML)

Describe the views to be exported into the spreadsheet.

Hostname parameters.

Database to connect.

XLSX output filename.

An example of this file is described below:

<phmsa>

<views> // Views to be exported

<view>PHMSA\_MAOP\_V\_192\_619\_A2</view>

<view>PHMSA\_MAOP\_V\_192\_619\_A3</view>

<view>PHMSA\_MAOP\_V\_192\_619\_C</view>

<view>PHMSA\_MAOP\_V\_COMPREVIEW</view>

<view>PHMSA\_MAOP\_V\_192\_611</view>

<view>PHMSA\_MAOP\_V\_192\_619</view>

<view>PHMSA\_MAOP\_V\_192\_619\_A</view>

<view>PHMSA\_MAOP\_V\_192\_619\_A1</view>

</views>

<hostname> // hostname to connect

gisp01-crs.sempra.com

</hostname>

<env>PRO\_HP\_PUB</env> // database

<user>GFAPDM</user> // user

<pass>fsd.db.01!</pass> // password

<service>gisphp01</service> // db service

<description>@(DESCRIPTION =(ADDRESS\_LIST =(ADDRESS = (PROTOCOL = TCP)(HOST = gisp01-

crs.sempra.com)(PORT = 1521))(LOAD\_BALANCE = yes))(CONNECT\_DATA

=(SERVICE\_NAME = gisphp01)))</description> // db description

<xlsxname>TEST\_ONLYPHMSA\_MAOP\_Reports</xlsxname> // output filename

</phmsa>

Runnable JAR ( viewsreport.jar )

Implements the logic of the extraction, data transformation and XLSX file creation.

Executable batch ( ExportPHMSA.bat – ExportPSEP.bat – ExportPROJECT.bat )

End user entry point to invoke the creation of a specific report.

**Dataflow Diagram**



**Running the Solution**

1. As a scheduled task under Task Scheduler.

The frequency for each report is as follows:

PHMSA will run in a monthly basis after the 15th.

PSEP will run weekly

PROJECT will run weekly.

1. As a command line process under Windows command prompt.
   1. In the server get a command prompt windows.
   2. Move to the directory ExportReports.
   3. To execute PHMSA Report type in: ExportPHMSA.bat
   4. To execute PSEP Report type in: ExportPSEP.bat
   5. To execute Project Report type in: ExportPROJECT.bat
   6. As the export finished it will create XLSX files in the current directory and also will be transfer them to the sharepoint folder as follow:

PHMSA 🡪 \Weekly PHMSA Reports\year\month\PHMSA\_MAOP\_Reports\_yyyymmdd.xlsx

PSEP 🡪 \Weekly PHMSA Reports\year\month\PSEP\_Reports\_yyyymmdd.xlsx

PROJECT QUEUE 🡪 \Weekly PHMSA Reports\year\month\Project\_Queue\_yyyymmdd.xlsx