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# GPV Interactive Report/Grid to MSEXcel v2

## Overview

### Introduction

The "GPV Interactive Report/Grid to MSEXcel v2" APEX plugin provides a simple data export from Interactive Report or Interactive Grid into Microsoft Excel.

### Features at a Glance

These features of Interactive Report/Grid are supported:

- Correct export of data types (String/Date/Number)
- Filtering and Sorting
- Control Break
- Computations
- Aggregations
- Highlighting
- Auto adjustable Column Width
- Date/Number Formats
- Custom downloaded file name (see FAQ)
- Can be easy implemented for all Interactive Reports/Grids in an application (see FAQ)

### License

The "GPV Interactive Report/Grid to MSEXcel" APEX plugin and IR\_TO\_MSEXCEL, IR\_TO\_XLSX packages are currently available for use in all personal or commercial projects under both the MIT and GPL licenses. This means that you can choose the license that best suits your project and use it accordingly. Both licenses have been included in this software.

### Legal Disclaimer

The program(s) and/or file(s) are supplied as is. The author disclaims all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The author assumes no liability for damages, direct or consequential, which may result from the use of these program(s) and/or file(s).

### Found a bug

If you have found a bug, please send us debug information. To do this, set **Return Data** plugin options to "**Debug Information**". Try to get your data again. You'll get text a file with debug information. Please send this file to [pavelglebov@outlook.com](mailto:pavelglebov@outlook.com). Or if you have skills to fix it become a contributor at [GitHub](https://github.com). You're always welcome!

Installation

Install required packages

This plugin requires IR\_TO\_XSLX, IR\_TO\_MSEXCEL, APEXIR\_XLSX\_PKG.sql and AS\_ZIP packages. To install these packages, please use the all-in-one installation script install\_all\_packages.sql.

To do this, navigate to the “SQL Workshop > SQL Scripts”. Upload file **install\_all\_packages.sql**.

ORACLE

Application Express

Application Builder

SQL Workshop

Team Development

Packaged Apps

SQL Scripts

Q

Go

Actions

Delete Checked

Upload

Create

<input type="checkbox"/>	Edit	Owner	Name	Created	Updated By	Updated	Bytes	Results	Run
<input type="checkbox"/>		GPV	install_all_packages.sql	3 minutes ago	GPV	3 minutes ago	129,316	0	

1 - 1

This script will create all required packages. Run this script by pressing the Run-icon.

# GPV Interactive Report/Grid to MSEXcel v2

Run Script

You have requested to run a script containing statement(s) SQL Workshop will ignore. Please confirm your request.

Script Name	install_all_packages.sql
Created	on 12/12/2017 06:12:22 AM by GPV
Updated	on 12/12/2017 06:12:23 AM by GPV
Number of Statements	8
Script Size in Bytes	128,812

Line Number	Unknown Statement
17	

Cancel

Edit Script

Run Now

Press “Run Now” button.

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FO EX

SQL Scripts

Manage Script Results

Q

Go

Actions

Delete Checked

Selected File = 11890265231290931

	Script	Run By	Started	Finished	Elapsed	Status	Security Group Id	Statements	Bytes	View Results
<input type="checkbox"/>	install_all_packages.sql	GPV	64 minutes ago	12/12/2017	0.67	Completed	11260317213760192	8 of 8	0	

After execution take a look at the execution results. Open the “Manage Script Results” tab by pressing the link in the **View Results** column.

# GPV Interactive Report/Grid to MSEXcel v2

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EX

SQL Scripts \ Results

Script: install\_all\_packages.sql

Status: Complete

Edit Script

View: Detail Summary

Rows: 15

Go

Number	Elapsed	Statement	Feedback	Rows
1	0.25	CREATE OR REPLACE PACKAGE "APEXIR_XLSX_PKG" AUTHID CURREN	Package created.	0
2	0.00	CREATE OR REPLACE PACKAGE BODY "APEXIR_XLSX_PKG" AS /"	Package Body created.	0
3	0.01	CREATE OR REPLACE PACKAGE "AS_ZIP" is /*****	Package created.	0
4	0.04	CREATE OR REPLACE PACKAGE BODY "AS_ZIP" is -- c_LOCAL_	Package Body created.	0
5	0.00	CREATE OR REPLACE PACKAGE IR_TO_XLSX AUTHID CURRENT_USER I	Package created.	0
6	0.19	CREATE OR REPLACE PACKAGE BODY IR_TO_XLSX as STRING_H	Package Body created.	0
7	0.00	create or replace PACKAGE "IR_TO_MSEXCEL" AUTHID CURRENT	Package created.	0
8	0.13	create or replace PACKAGE BODY "IR_TO_MSEXCEL" as v_plug	Package Body created.	0

Download

row(s) 1 - 8 of 8

8

Statements Processed

8

Successful

0

With Errors

There should be no errors.

Additionally (very rare) you should get access to the SYS.UTL\_FILE and SYS.DBMS\_LOB packages.

GRANT EXECUTE ON SYS.UTL\_FILE TO #USER#;

GRANT EXECUTE ON SYS.DBMS\_LOB TO #USER#;

Where #USER# should be replaced to APEX Application Parsing Schema.

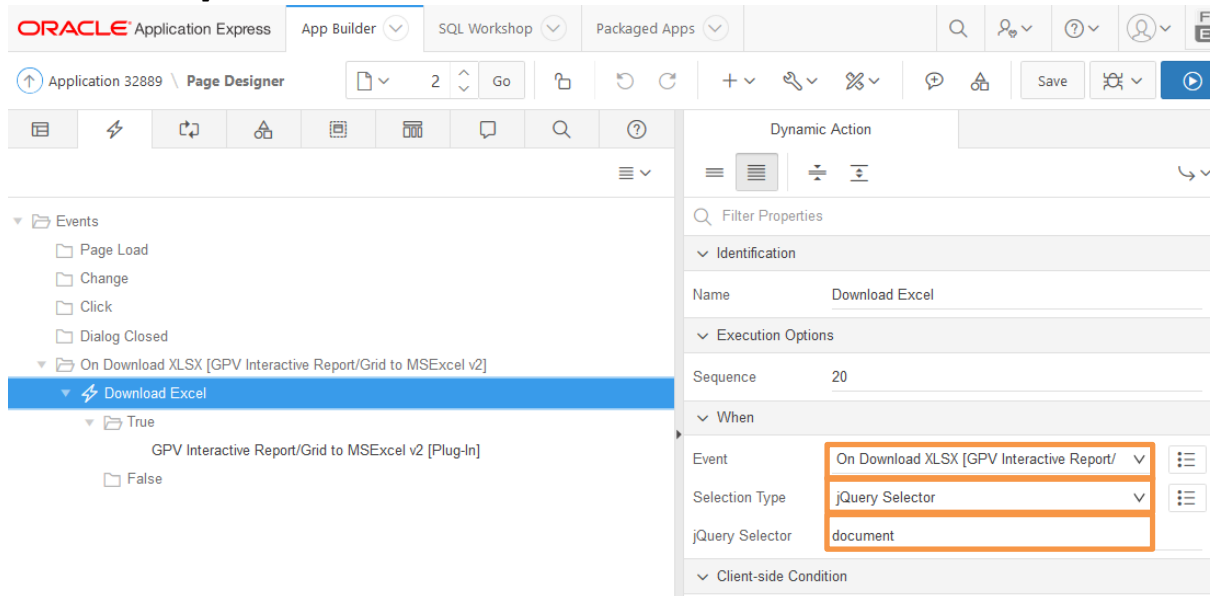
## GPV Interactive Report/Grid to MSeExcel v2

### Install plugin

Navigate to “*Shared Components > Plug-ins*” and click **Import**. [This Oracle document](#) shows you how to upload the plugin-file “dynamic\_action\_plugin\_at\_frt\_gpv\_ir\_to\_msexcel.sql” and to install the plug-in using the file above.

### Using in your application

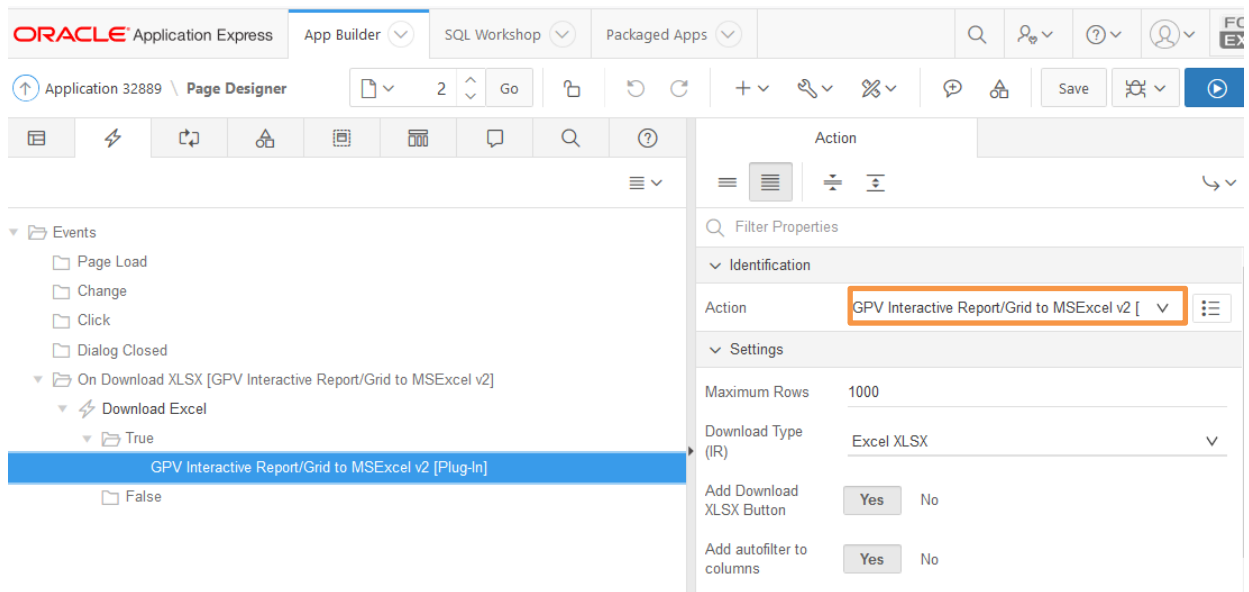
1. Create a new Dynamic Action on Event “**On Download XLSX[GPV Interactive Report/Grid to MS Excel v2]**”.



Set

- “*Selection Type*” => “**jQuery Selector**”
- “*jQuery Selector*” => “**document**”

## GPV Interactive Report/Grid to MSEXcel v2

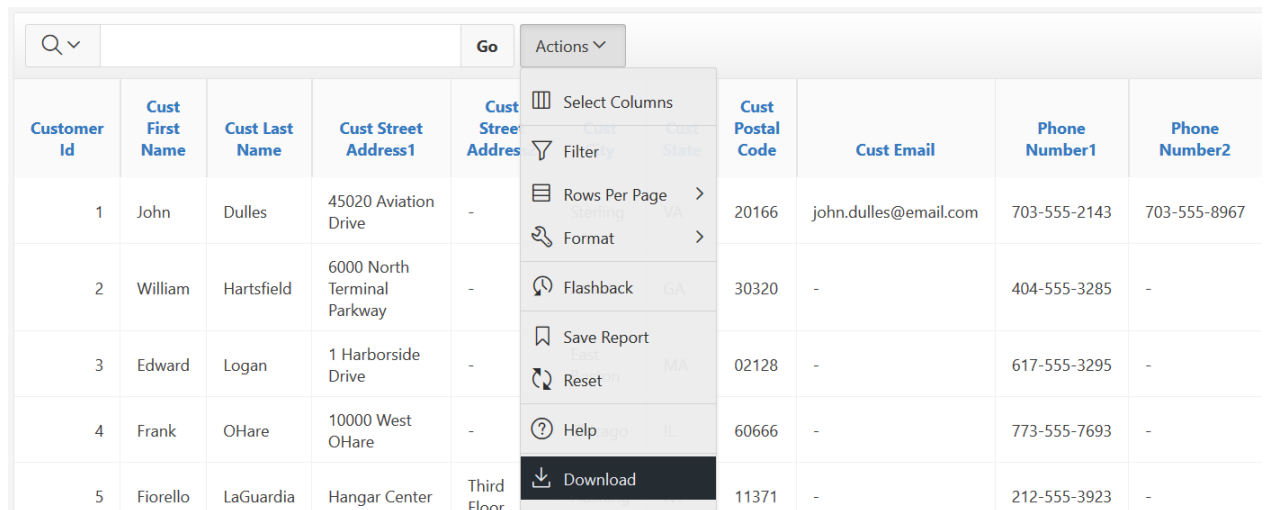


Select “Action” => “GPV Interactive Report/Grid to MS Excel v2”

The plugin is ready to use with the default settings.

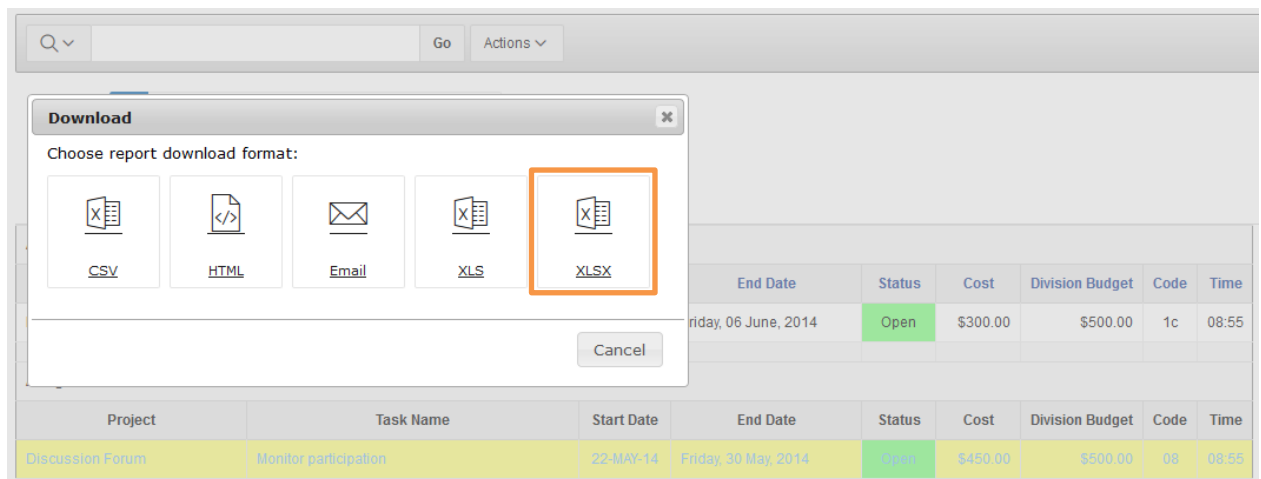
### How it works for Interactive Reports

The plugin adds “Download XLSX” Icon to the “Download menu”. By pressing on this icon the user gets an XLSX-file.





## GPV Interactive Report/Grid to MSeExcel v2



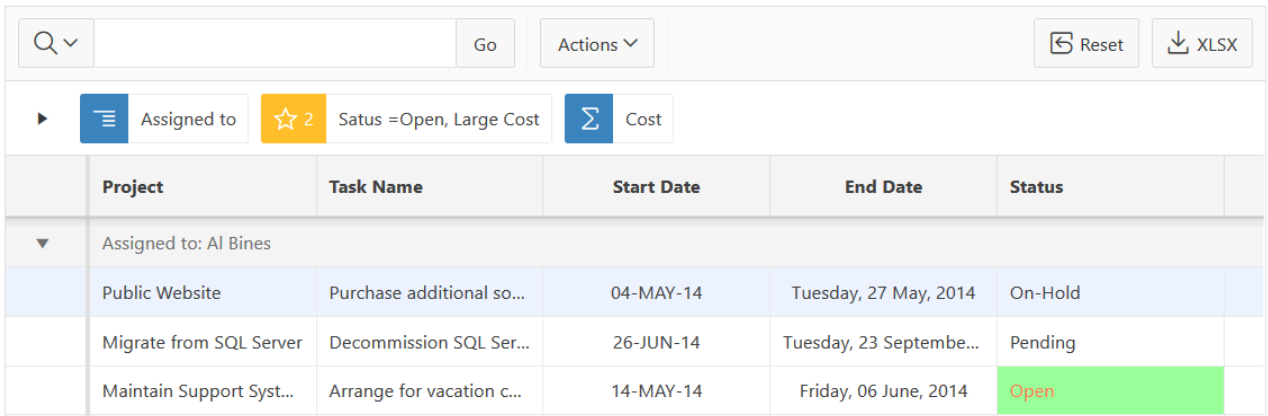
### Installing a separate rendering engine from Moritz Klein (commi235), for Interactive Reports only.

Download and install all required packages from GitHub ([https://github.com/commi235/APEX\\_IR\\_XLSX](https://github.com/commi235/APEX_IR_XLSX)). The existing (mock) package APEXIR\_XLSX\_PKG.sql must be replaced.

After that you can use “Download Type” => “commi235 Render Engine”

### How it works for Interactive Grids

The plugin adds “XLSX”-Button to the Interactive Grid. By pressing on this button the user gets an XLSX-file.



## Configuration Settings

### Return Data – for Interactive Report only

Choose "Excel XLSX" to return the Interactive Report as a MS-Excel file.

Choose "Debug TXT" to view debug information.

## GPV Interactive Report/Grid to MExcel v2

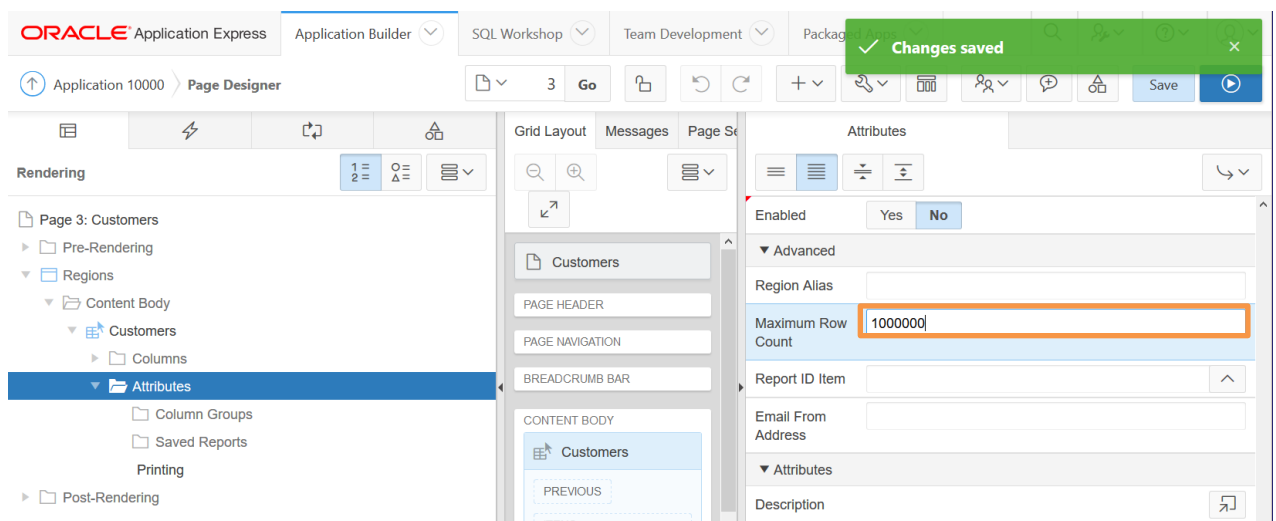
Choose “commi235 Render Engine” to use a separate render engine from Moritz Klein (needs to be installed separately).

### Maximum Rows - for Interactive Report only

Rows greater than this value will not be exported.

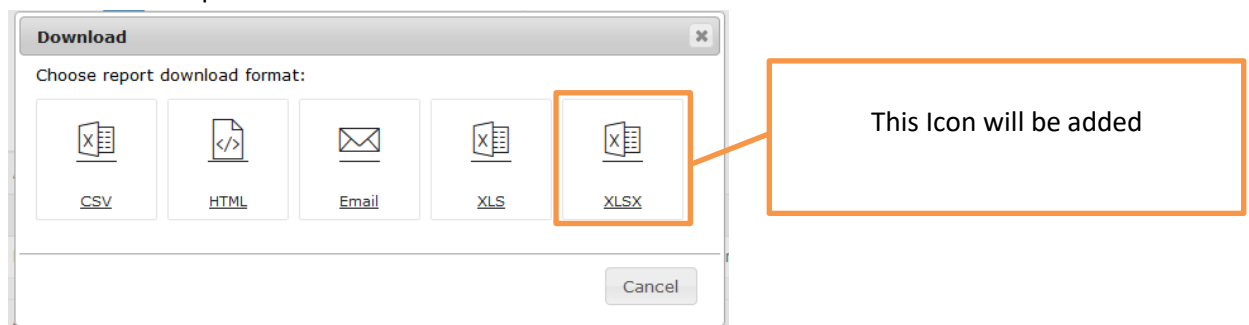
To export all the rows set the value to 1000000000.

When empty - value from Interactive Report Attributes-> Maximum Row Count will be used.



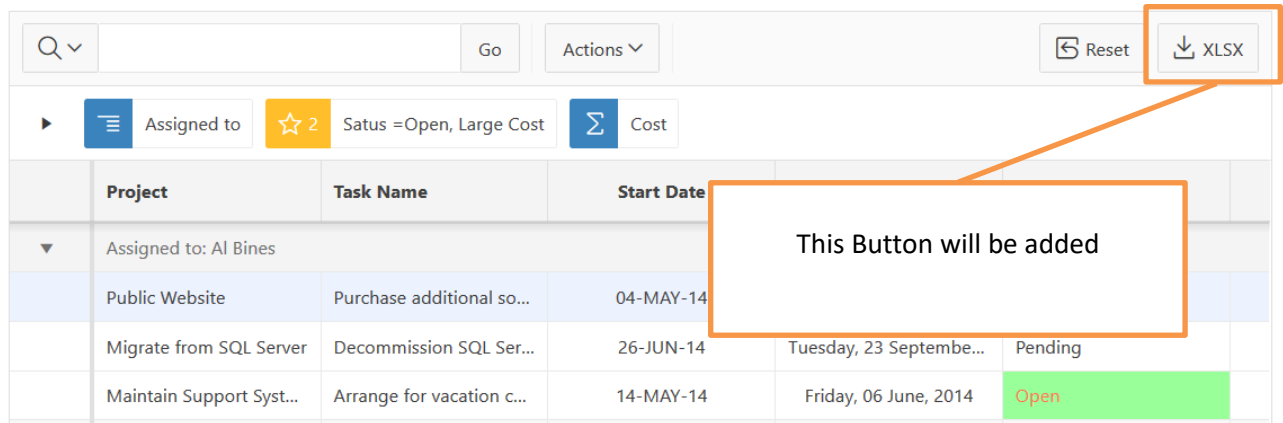
### Add Download XLSX Icon to “Download Dialog”

For Interactive Report:



## GPV Interactive Report/Grid to MSeExcel v2

For Interactive Grid:

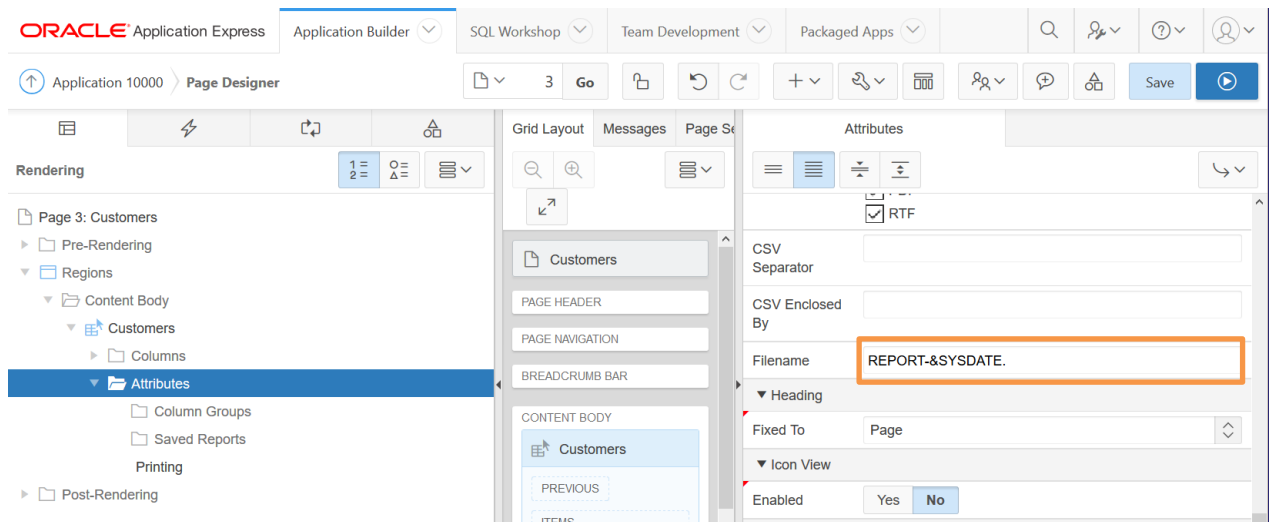


The screenshot shows an Oracle APEX Interactive Grid. At the top right, there is a 'Reset' button and an 'XLSX' button (represented by a download icon and the text 'XLSX'). An orange box highlights the 'XLSX' button, and a callout box with the text 'This Button will be added' points to it. Below the buttons, there is a table with columns: Project, Task Name, Start Date, and others. The table contains several rows of data, including 'Public Website', 'Migrate from SQL Server', and 'Maintain Support Syst...'. A green cell with the text 'Open' is visible in the last row.

## FAQ (How to)

### Replace default file name (Excel.xlsx) to the custom file name

When not empty, the value from *Report Attributes-> Filename* field will be used.



The screenshot shows the Oracle APEX Page Designer interface. On the left, there is a 'Rendering' tree with 'Page 3: Customers' selected. In the center, there is a 'Grid Layout' panel showing a 'Customers' report. On the right, there is an 'Attributes' panel. In the 'Attributes' panel, the 'Filename' field is highlighted with an orange box and contains the text 'REPORT-&SYSDATE.'. Other fields in the 'Attributes' panel include 'CSV Separator', 'CSV Enclosed By', 'Heading', 'Fixed To', 'Icon View', and 'Enabled'.

## Use this functionality for all Interactive Reports or Interactive Grids in your application

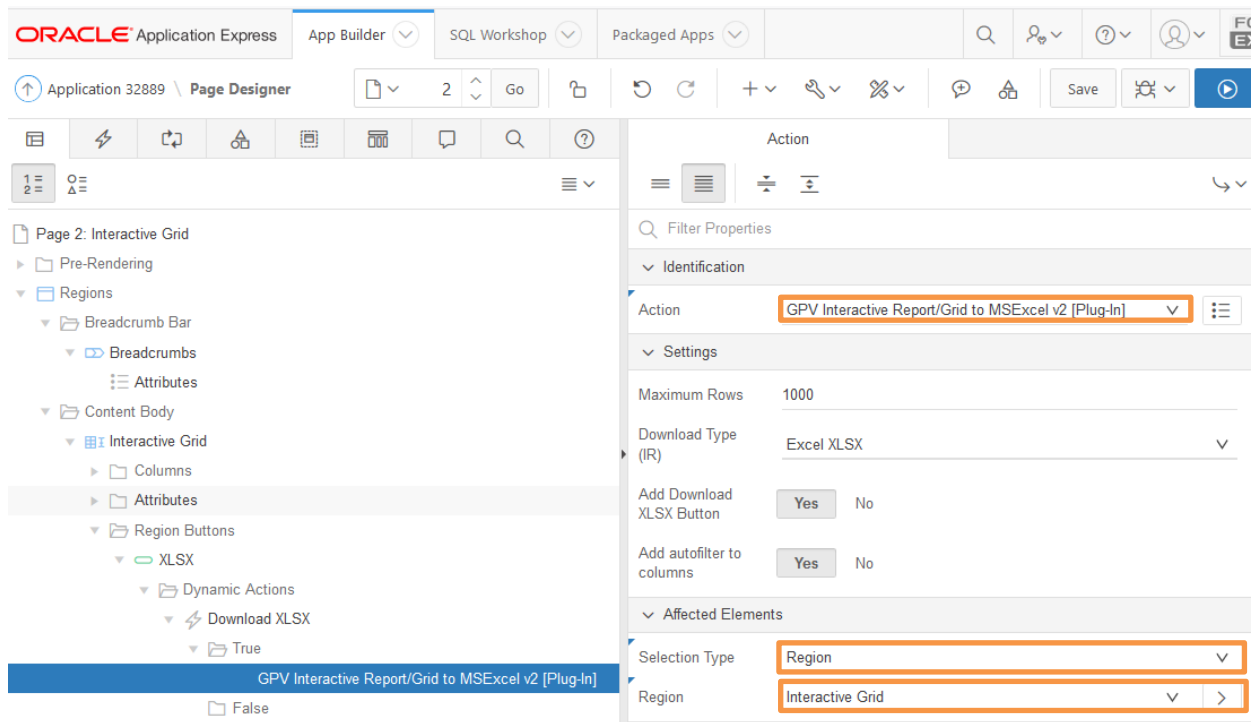
Install the plugin on Page 0 as described above in “Using in your application” section.

When you want to exclude this functionality from a couple of pages, use **Conditions**.

The plugin supports Interactive Grids and interactive Reports simultaneously.

### Adding a custom download button

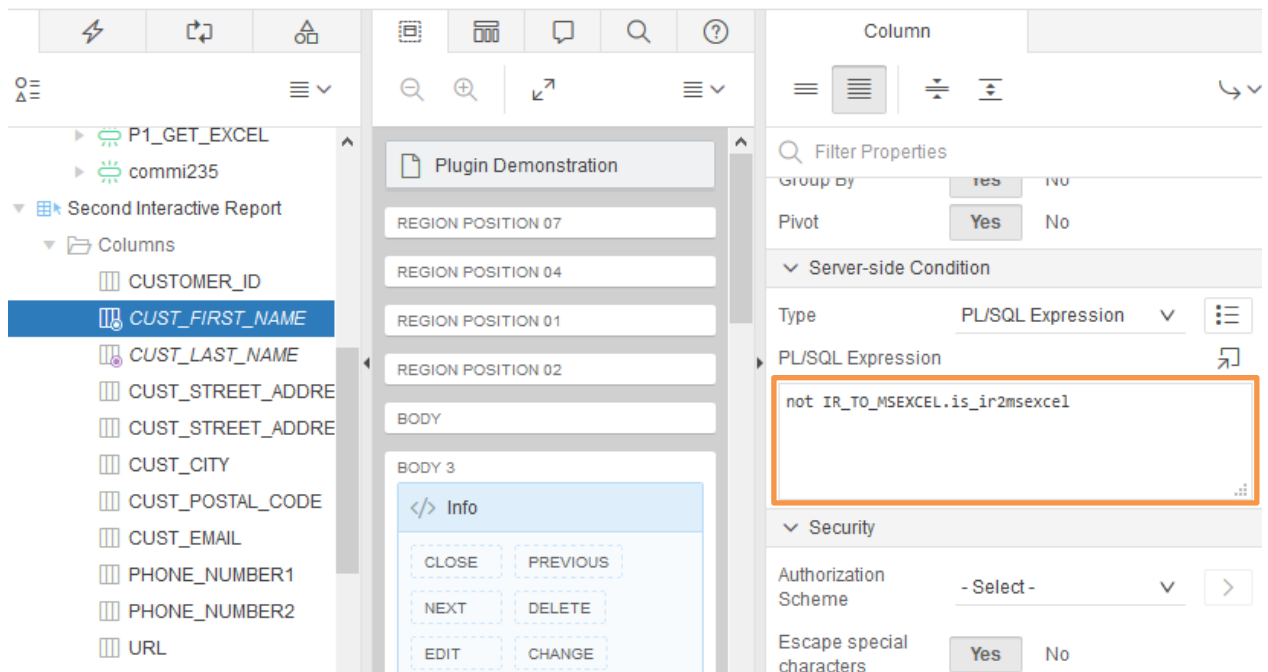
1. First create a Button
2. Create Dynamic Action on Event “Click” for this Button.
3. Create True Action and set “Action” to “GPV Interactive Report/Grid to MSeExcel v2 [Plug-in]”.
4. In “Affected Elements” Section set “Selection Type” => “Region”.
5. Set “Region” to your Interactive Report or Interactive Grid region.



### How to exclude report columns from export/make columns that are visible in Excel but not visible in Interactive Report (not for Interactive Grid)

Use **Conditional Display** column property for this.

## GPV Interactive Report/Grid to MSEXcel v2



Use **not ir\_to\_msexcel.is\_ir2msexcel** Expression to exclude column from export,  
And **ir\_to\_msexcel.is\_ir2msexcel** Expression to make column visible on export only.

## How to uninstall plugin

First make sure that the plugin are not used in your application components any more:

ORACLE

Application Express

App Builder

SQL Workshop

Packaged Apps

Application 102065

Shared Components

Plug-in Utilization

Plug-ins

Utilization

History

Q

Go

Actions

Reset

Name	Component Name	Component Type	Page	Page Name	Region
GPV Interactive Report to MSEXcel v2	New	Dynamic Action	2	test IG	-

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If Utilization Report don't contain "GPV Interactive Report/Grid to MSEXcel v2" records, on plugin-page appears Delete – Button.

## GPV Interactive Report/Grid to MSEXcel v2

**ORACLE** Application Express

App Builder

SQL Workshop

Packaged Apps

Application 102065 \ Shared Components \ Plug-ins \ Create / Edit

?

Plug-in: GPV Interactive Report to MSEXcel v2

Cancel

Delete

Apply Changes

Show All

Name

Subscri...

Source

Callbac...

Suppor...

Standa...

Standa...

Custo...

Files

File UR...

Events

Inform...

Help Text

Comme...

Name

\* Name

GPV Interactive Report to MSEXcel v2

?

\* Internal Name

AT.FRT.GPV\_IR\_TO\_MSEXCEL

?

\* Type

Dynamic Action

?

\* Category

Miscellaneous

?

Subscription

Reference Master Plug-in From

?

?

☒ Refresh

Drop all plugin packages:

```
drop package IR_TO_XLSX;  
drop package IR_TO_MSEXCEL;  
drop package APEXIR_XLSX_PKG;  
drop package AS_ZIP;
```