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# GPV Interactive Report/Grid to MSEXcel v2

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## 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!

# GPV Interactive Report/Grid to MSExcel v2

## 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**.

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Application Express

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SQL Workshop

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Packaged Apps

SQL Scripts

Q

Go

Grid

Table

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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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.

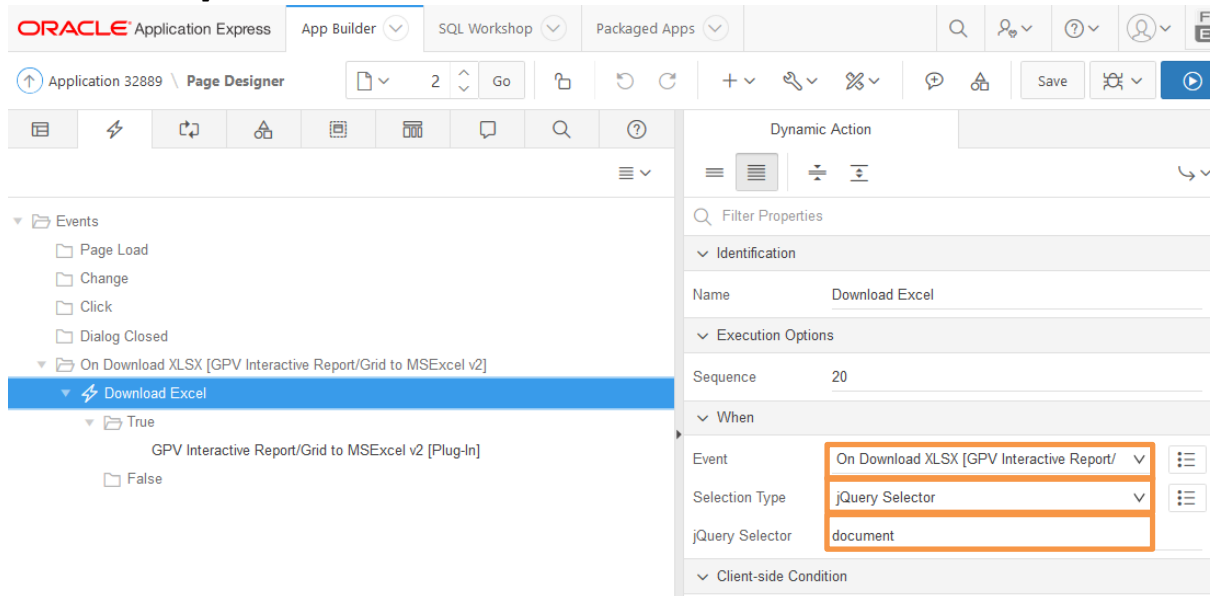
## GPV Interactive Report/Grid to MSeExcel v2

### 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

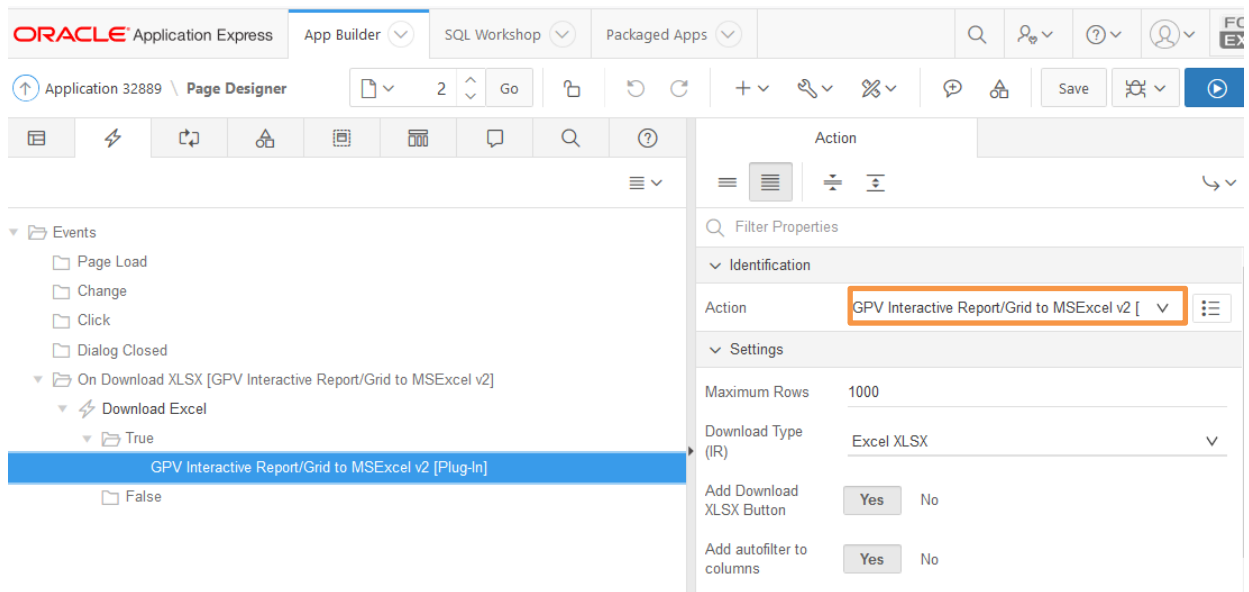
1. Create a new Dynamic Action on Event “**On Download XLSX[GPV Interactive Report/Grid to MS Excel v2]**”.



Set

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

## GPV Interactive Report/Grid to MSExcel v2

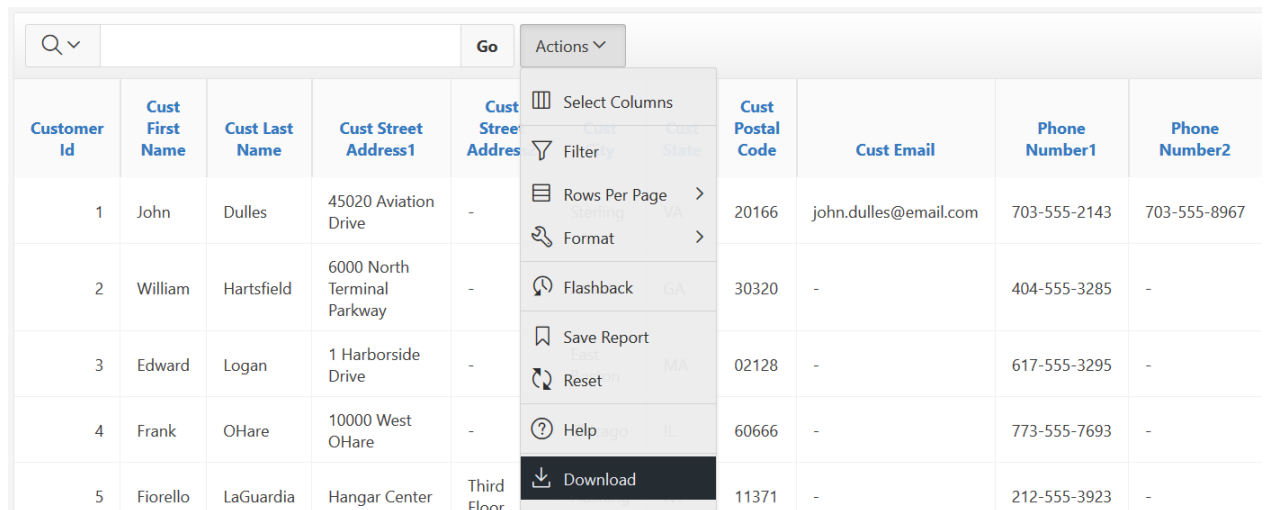


Select “Action” => “GPV Interactive Report/Grid to MS Excel v2”

The plugin is ready to use with the default settings.

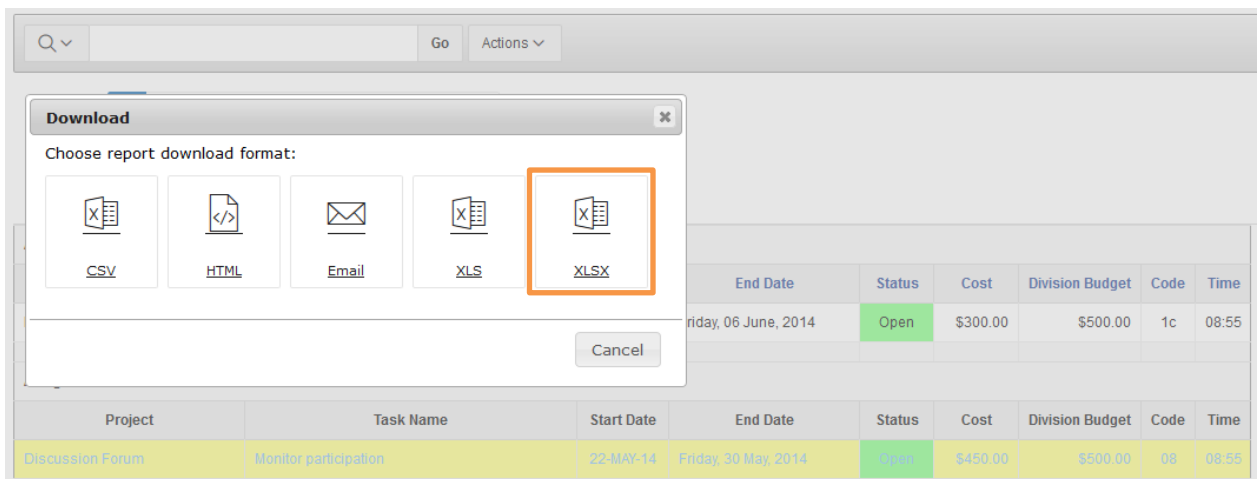
### How it works for Interactive Reports

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



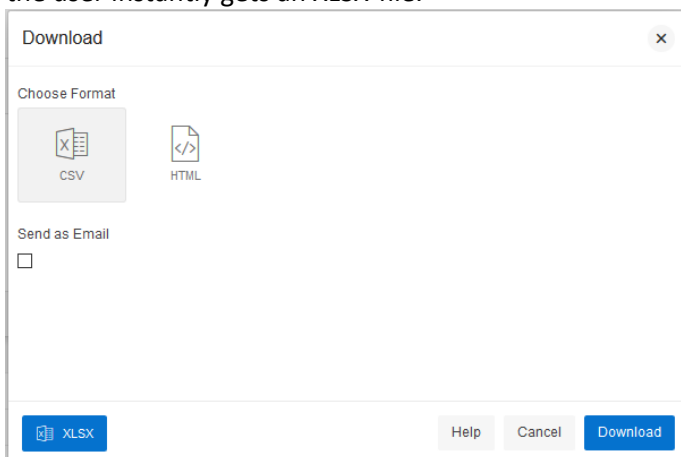
### Installing a separate rendering engine from Moritz Klein (commi235), for Interactive Reports only.

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 Actions => Download menu of Interactive Grid. By pressing on this button the user instantly 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.

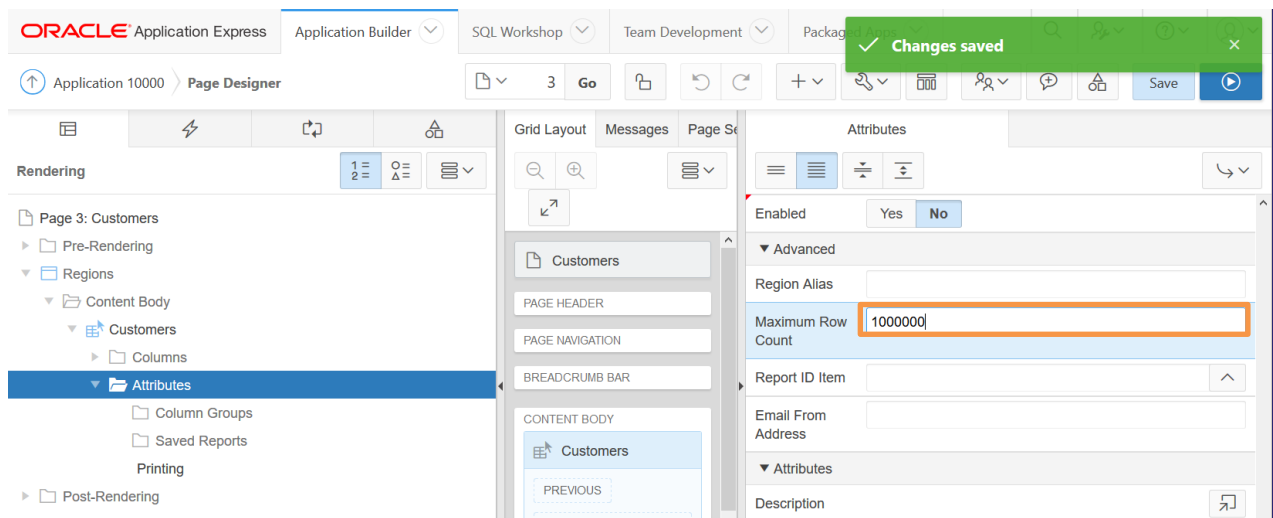
Choose "commi235 Render Engine" to use a separate render engine from Moritz Klein (needs to be installed separately).

#### Maximum Rows

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.



#### Export Hyperlinks - for Interactive Report only

If is set to "As Hyperlinks", then IR columns with type "Link" are exported as Links (URL).

#### Custom Column Width - for Interactive Report only

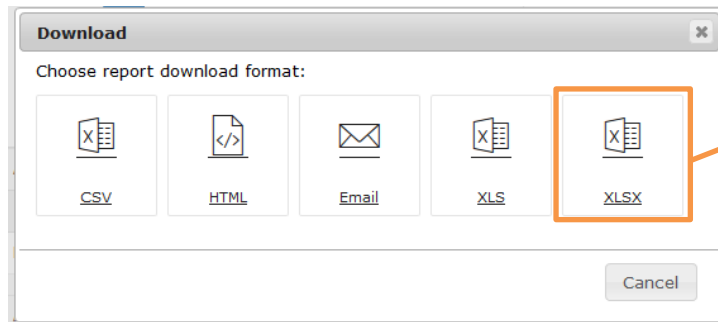
Comma - delimited list of columns with their widths.

For example, if you want to set width of COMPANY\_NAME column to the 15 (Excel width points), and CTL column to the 6 points, you should fill this parameter as:

**COMPANY\_NAME:15,CTL:6**

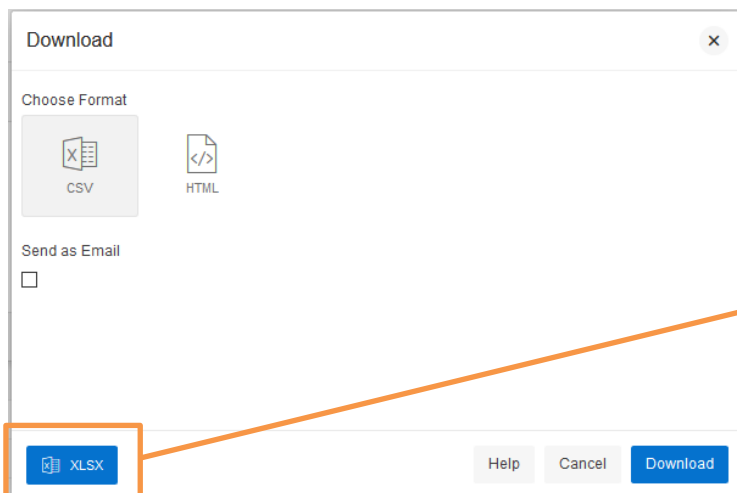
### Add Download XLSX Icon to “Download Dialog”

For Interactive Report:



This Icon will be added

For Interactive Grid:



This Button will be added

### IG Fetch Portion (Interactive Grid only)

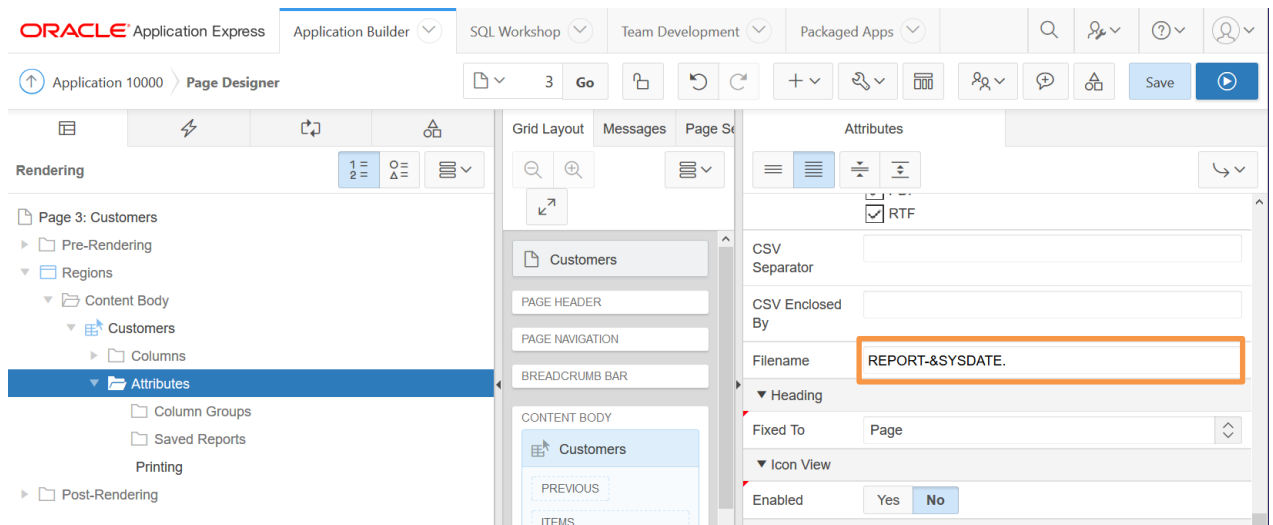
Interactive Grid fetches data from Database by portions of rows. Here one can set a size of each portion of rows. Default – 1000.

### 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.

## GPV Interactive Report/Grid to MSEXcel v2



### 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 MSEXcel v2 [Plug-in]”.
4. In “*Affected Elements*” Section set “**Selection Type**” => “**Region**”.
5. Set “**Region**” to your Interactive Report or Interactive Grid region.

## GPV Interactive Report/Grid to MSeExcel v2

The screenshot shows the Oracle APEX Page Designer interface. On the left, the 'Page 2: Interactive Grid' structure is visible, including 'Pre-Rendering', 'Regions', 'Breadcrumb Bar', 'Breadcrumbs', 'Attributes', 'Content Body', 'Interactive Grid', 'Columns', 'Attributes', 'Region Buttons', 'XLSX', 'Dynamic Actions', and 'Download XLSX'. The 'Download XLSX' dynamic action is selected, and its configuration is shown on the right. The 'Action' is set to 'GPV Interactive Report/Grid to MSeExcel v2 [Plug-In]'. The 'Settings' section includes 'Maximum Rows' (1000), 'Download Type (IR)' (Excel XLSX), 'Add Download XLSX Button' (Yes), and 'Add autofilter to columns' (Yes). The 'Affected Elements' section shows 'Selection Type' (Region) and 'Region' (Interactive Grid).

### 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.

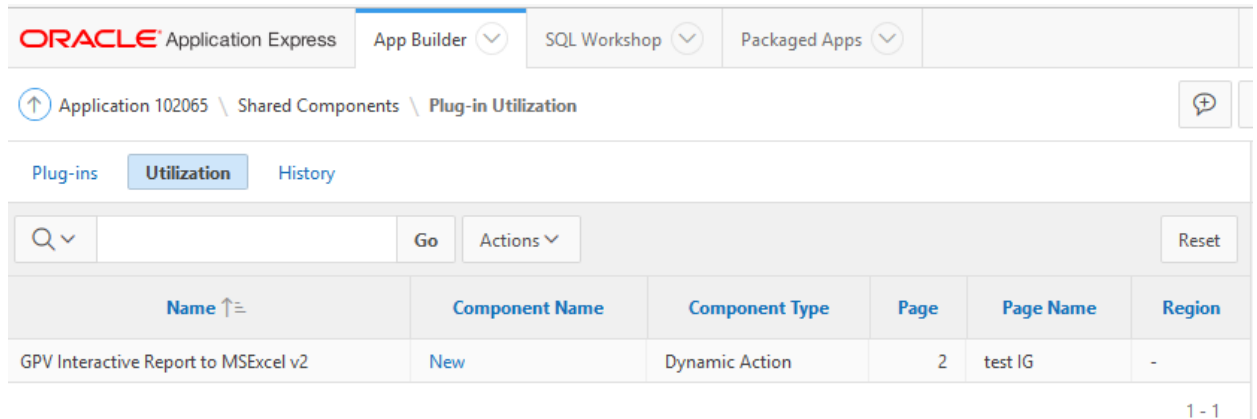
The screenshot shows the Oracle APEX Page Designer interface. On the left, the 'Second Interactive Report' structure is visible, including 'Columns', 'CUSTOMER\_ID', 'CUST\_FIRST\_NAME', 'CUST\_LAST\_NAME', 'CUST\_STREET\_ADDRE', 'CUST\_CITY', 'CUST\_POSTAL\_CODE', 'CUST\_EMAIL', 'PHONE\_NUMBER1', 'PHONE\_NUMBER2', and 'URL'. The 'CUST\_FIRST\_NAME' column is selected, and its configuration is shown on the right. The 'Column' configuration panel is open, showing the 'Conditional Display' property. The 'Type' is set to 'PL/SQL Expression'. The 'PL/SQL Expression' is set to 'not IR\_TO\_MSEXCEL.is\_ir2msexc1'. The 'Security' section shows 'Authorization Scheme' (Select) and 'Escape special characters' (Yes).

## 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

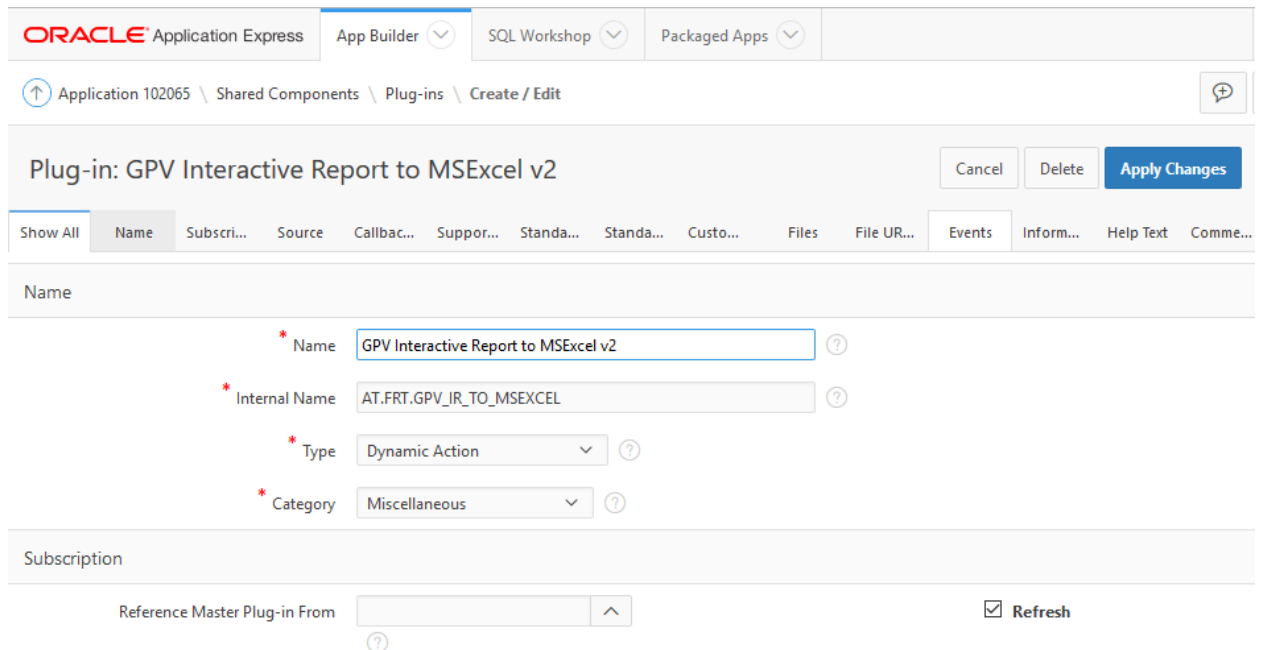
First make sure that the plugin are not used in your application components any more:



The screenshot shows the Oracle APEX interface for managing plug-ins. The breadcrumb trail is 'Application 102065 \ Shared Components \ Plug-in Utilization'. The 'Utilization' tab is selected. A table lists the plug-ins, with one entry: 'GPV Interactive Report to MSEXcel v2' with a 'New' link. The table has columns: Name, Component Name, Component Type, Page, Page Name, and Region.

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

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



The screenshot shows the 'Plug-in: GPV Interactive Report to MSEXcel v2' page. It has tabs for 'Name', 'Subscri...', 'Source', 'Callbac...', 'Suppor...', 'Standa...', 'Standa...', 'Custo...', 'Files', 'File UR...', 'Events', 'Inform...', 'Help Text', and 'Comme...'. The 'Name' tab is active. Fields include: Name (GPV Interactive Report to MSEXcel v2), Internal Name (AT.FRT.GPV\_IR\_TO\_MSEXCEL), Type (Dynamic Action), and Category (Miscellaneous). There is a 'Subscription' section and a 'Reference Master Plug-in From' dropdown. A 'Refresh' checkbox is checked.

Plug-in: GPV Interactive Report to MSEXcel v2

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;
```