

# Contents

<b>Overview .....</b>	<b>3</b>
<b>Introduction.....</b>	<b>3</b>
<b>Features at a Glance.....</b>	<b>3</b>
<b>License.....</b>	<b>3</b>
<b>Legal Disclaimer .....</b>	<b>3</b>
<b>Found a bug .....</b>	<b>3</b>
<b>Installation .....</b>	<b>4</b>
<b>Install required packages .....</b>	<b>4</b>
<b>Install plugin .....</b>	<b>7</b>
<b>Using in your application.....</b>	<b>7</b>
<b>How it works.....</b>	<b>8</b>
<b>Installing a separate rendering engine from Moritz Klein (commi235). .....</b>	<b>8</b>
<b>Configuration Settings.....</b>	<b>10</b>
<b>Return Data .....</b>	<b>10</b>
<b>Maximum Rows .....</b>	<b>10</b>
<b>Add Download XLSX Icon to “Download Dialog” .....</b>	<b>10</b>
<b>FAQ (How to) .....</b>	<b>11</b>
<b>Replace default file name (Excel.xlsx) to the custom file name .....</b>	<b>11</b>
<b>Use this functionality for all Interactive reports in your application</b>	<b>11</b>
<b>Adding a custom download button .....</b>	<b>11</b>
<b>How to exclude report columns from export/make columns that are visible in Excel but not visible in Interactive Report .....</b>	<b>12</b>

**How to uninstall plugin ..... 13**

# GPV Interactive Report to MSExcel

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## Overview

### Introduction

The "GPV Interactive Report to Excel" APEX plugin provides a simple export of IR-data into Microsoft Excel.

### Features at a Glance

These Interactive Reports features 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 in an application (see FAQ)

### License

The "GPV Interactive Report to MSExcel" APEX plugin and IR\_TO\_XML, XML\_TO\_XSLX, IR\_TO\_MSEXCEL 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\_XML, XML\_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

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 to MSExcel

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 03/14/2016 03:35:20 PM by GPV
Updated	on 03/14/2016 03:35:20 PM by GPV
Number of Statements	10
Script Size in Bytes	129,316

Line Number	Unknown Statement
17	

Cancel

Edit Script

Run Now

Run in Background

Press “Run Now” button.

ORACLE Application Express

Application Builder

SQL Workshop

Team Development

Packaged Apps

SQL Scripts

Manage Script Results

Q

Go

Actions

Delete Checked

<input type="checkbox"/>	Script	Run By	Started	Finished	Elapsed	Status	Security Group Id	Statements	Bytes	View Results
<input type="checkbox"/>	install_all_packages.sql	GPV	1 seconds ago	03/14/2016	1.13	Completed	18011834449260769	10 of 10	0	

1 - 1

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 to MSEXcel

ORACLE

Application Express

Application Builder

SQL Workshop

Team Development

Packaged Apps

SQL Scripts

Results

Script: install\_all\_packages.sql

Status: Complete

Edit Script

View: Detail

Summary

Rows: 15

Go

Number	Elapsed	Statement	Feedback	Rows
1	0.05	CREATE OR REPLACE PACKAGE "APEXIR_XLSX_PKG" AUTHID CURRENT	Package created.	0
2	0.02	CREATE OR REPLACE PACKAGE BODY "APEXIR_XLSX_PKG" AS /* Th	Package Body created.	0
3	0.10	CREATE OR REPLACE PACKAGE "AS_ZIP" is /*****	Package created.	0
4	0.16	CREATE OR REPLACE PACKAGE BODY "AS_ZIP" is -- c_LOCAL_FIL	Package Body created.	0
5	0.03	create or replace PACKAGE "IR_TO_MSEXCEL" as -- p_cus	Package created.	0
6	0.05	create or replace PACKAGE BODY "IR_TO_MSEXCEL" as fun	Package Body created.	0
7	0.02	CREATE OR REPLACE PACKAGE "IR_TO_XML" as PROCEDURE get	Package created.	0
8	0.37	CREATE OR REPLACE PACKAGE BODY "IR_TO_XML" as subtype	Package Body created.	0
9	0.02	CREATE OR REPLACE PACKAGE "XML_TO_XSLX" IS WIDTH_COEFFICIE	Package created.	0
10	0.26	CREATE OR REPLACE PACKAGE BODY "XML_TO_XSLX" is STRING_HEI	Package Body created.	0

Download

row(s) 1 - 10 of 10

10

Statements Processed

10

Successful

0

With Errors

There should be no errors.

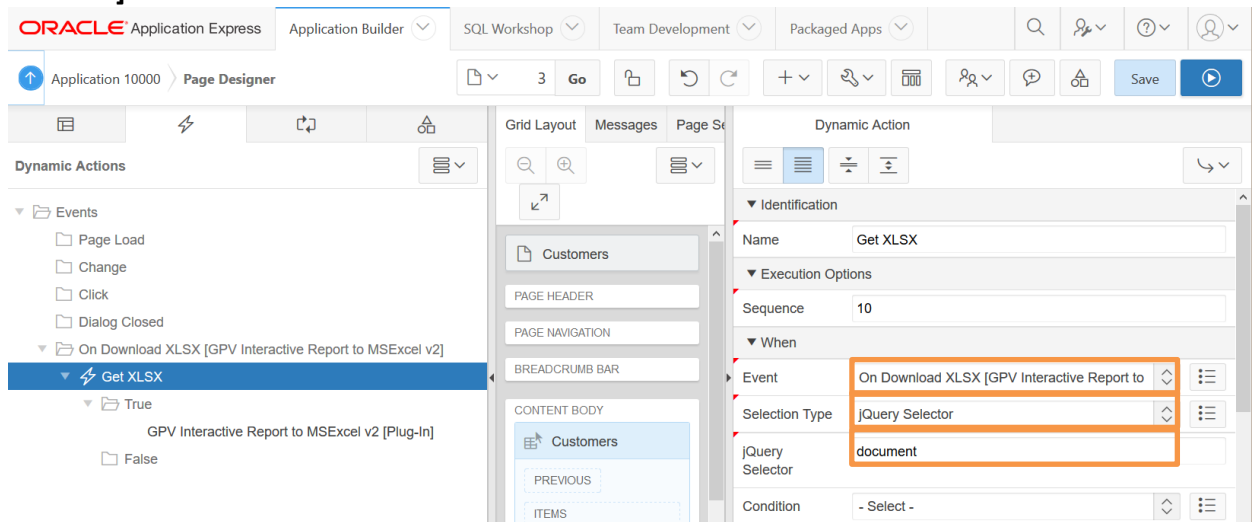
# GPV Interactive Report to MSeExcel

## 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.

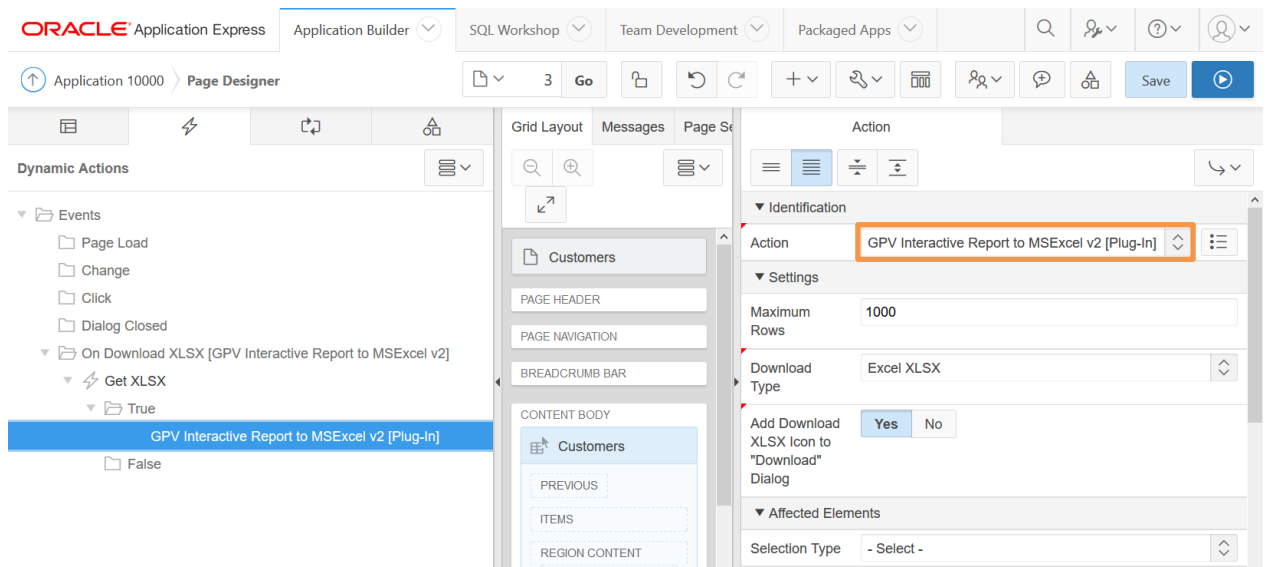
## Using in your application

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



Set

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



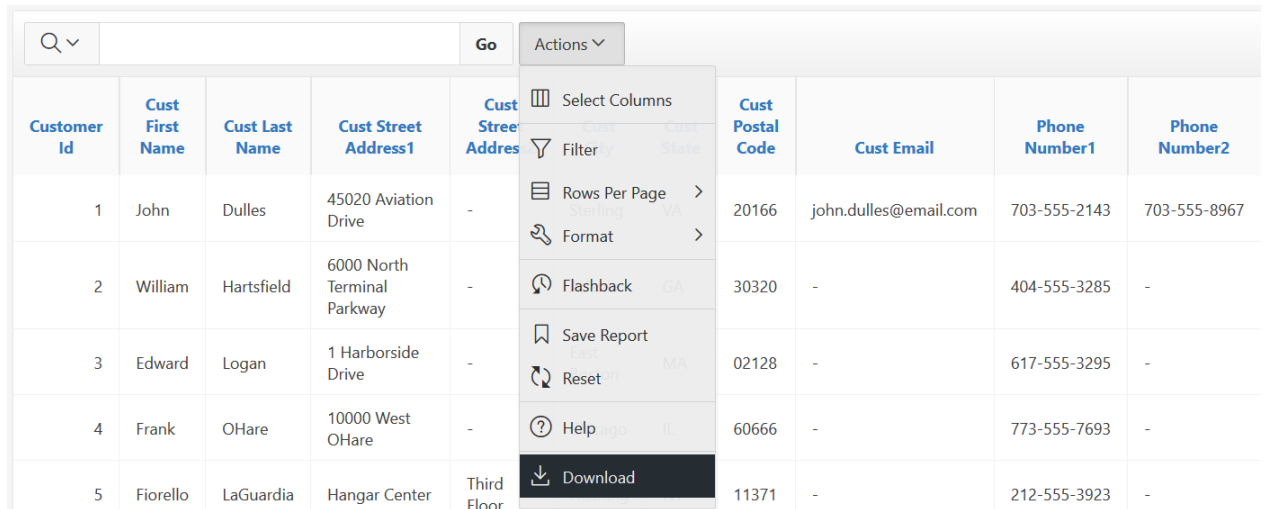
Select “*Action*” => “**GPV Interactive Report to MS Excel v2**”

## GPV Interactive Report to MSeExcel

The plugin is ready to use with the default settings.

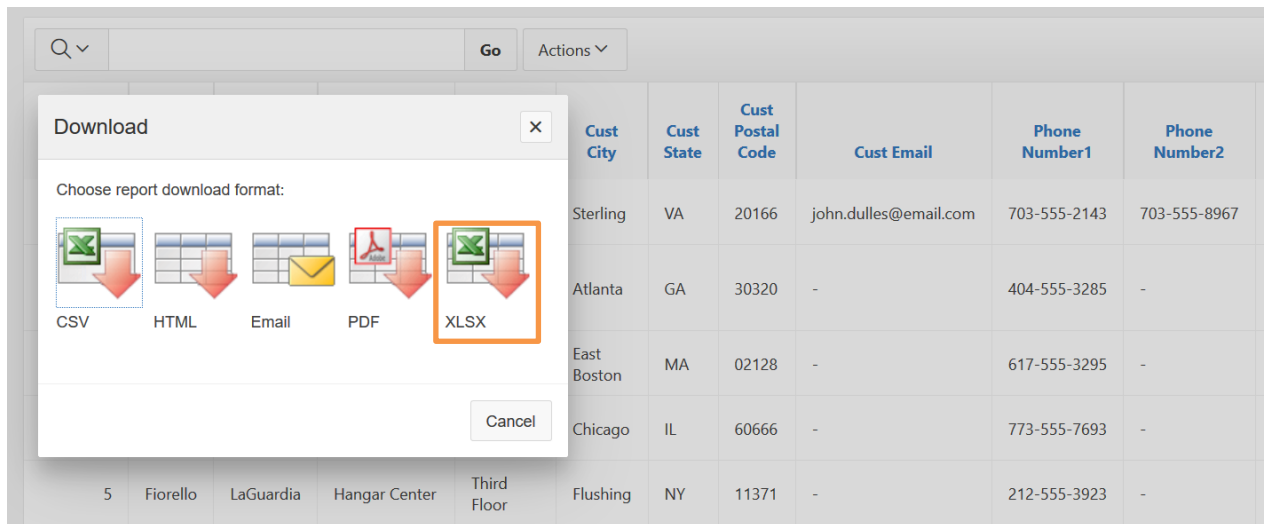
### How it works

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



The screenshot shows a web application interface with a search bar, a 'Go' button, and an 'Actions' dropdown menu. The menu is open, showing options: 'Select Columns', 'Filter', 'Rows Per Page', 'Format', 'Flashback', 'Save Report', 'Reset', 'Help', and 'Download'. The 'Download' option is highlighted. The background table contains customer data.

Customer Id	Cust First Name	Cust Last Name	Cust Street Address1	Cust Street Address2	Cust City	Cust State	Cust Postal Code	Cust Email	Phone Number1	Phone Number2
1	John	Dulles	45020 Aviation Drive	-	Sterling	VA	20166	john.dulles@email.com	703-555-2143	703-555-8967
2	William	Hartsfield	6000 North Terminal Parkway	-	Atlanta	GA	30320	-	404-555-3285	-
3	Edward	Logan	1 Harborside Drive	-	East Boston	MA	02128	-	617-555-3295	-
4	Frank	OHare	10000 West OHare	-	Chicago	IL	60666	-	773-555-7693	-
5	Fiorello	LaGuardia	Hangar Center	Third Floor	Flushing	NY	11371	-	212-555-3923	-



The screenshot shows the same web application interface as above, but with a 'Download' dialog box open. The dialog box has a title bar 'Download' and a close button. It contains the text 'Choose report download format:' and five icons representing different formats: CSV, HTML, Email, PDF, and XLSX. The XLSX icon is highlighted with an orange border. There is a 'Cancel' button at the bottom right of the dialog box.

Cust City	Cust State	Cust Postal Code	Cust Email	Phone Number1	Phone Number2
Sterling	VA	20166	john.dulles@email.com	703-555-2143	703-555-8967
Atlanta	GA	30320	-	404-555-3285	-
East Boston	MA	02128	-	617-555-3295	-
Chicago	IL	60666	-	773-555-7693	-
Flushing	NY	11371	-	212-555-3923	-

### Installing a separate rendering engine from Moritz Klein (commi235).

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”





# GPV Interactive Report to MSeXcel

## Configuration Settings

### Return Data

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

Choose "XML (Debug)" to return the Interactive Report in XML format.

Choose "Debug TXT" to view debug information.

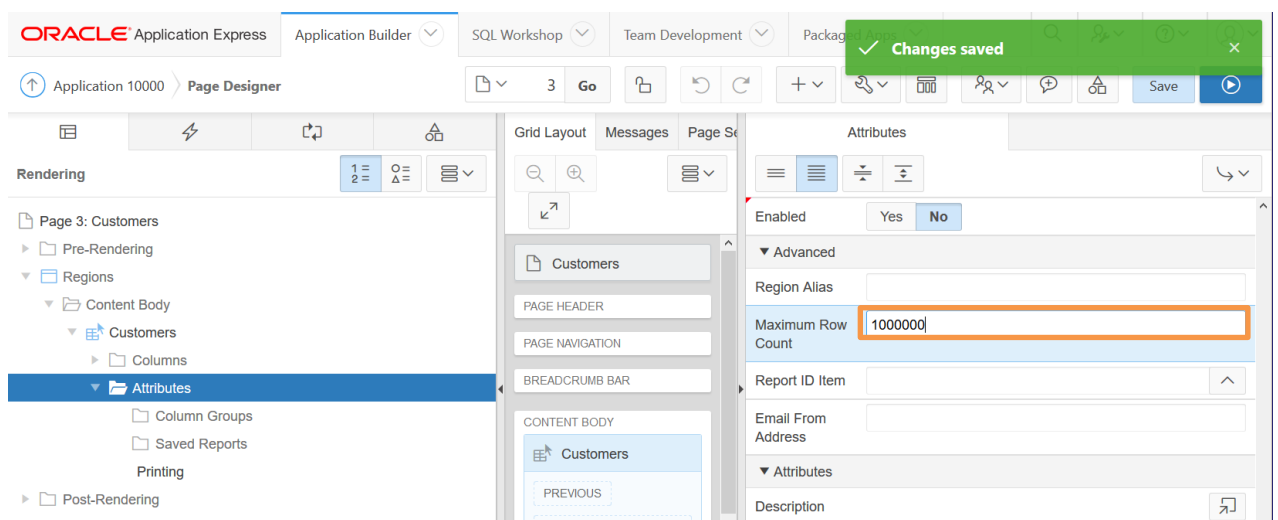
Choose "commi235 Render Engine" to use a separate render engine from Moritz Klein (needs to be installed separately).

### Maximum Rows

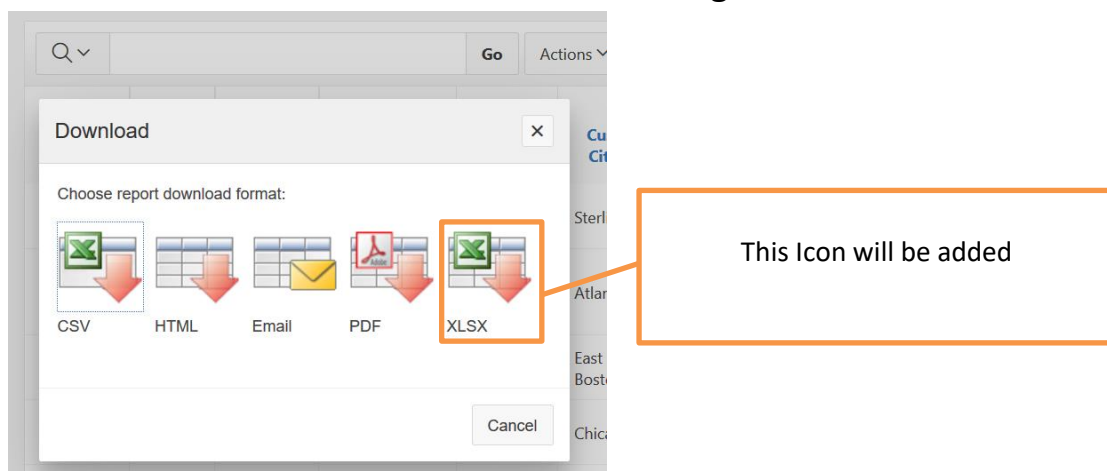
Rows greater than this value will not be exported.

To export all the rows set the value to 1000000000.

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



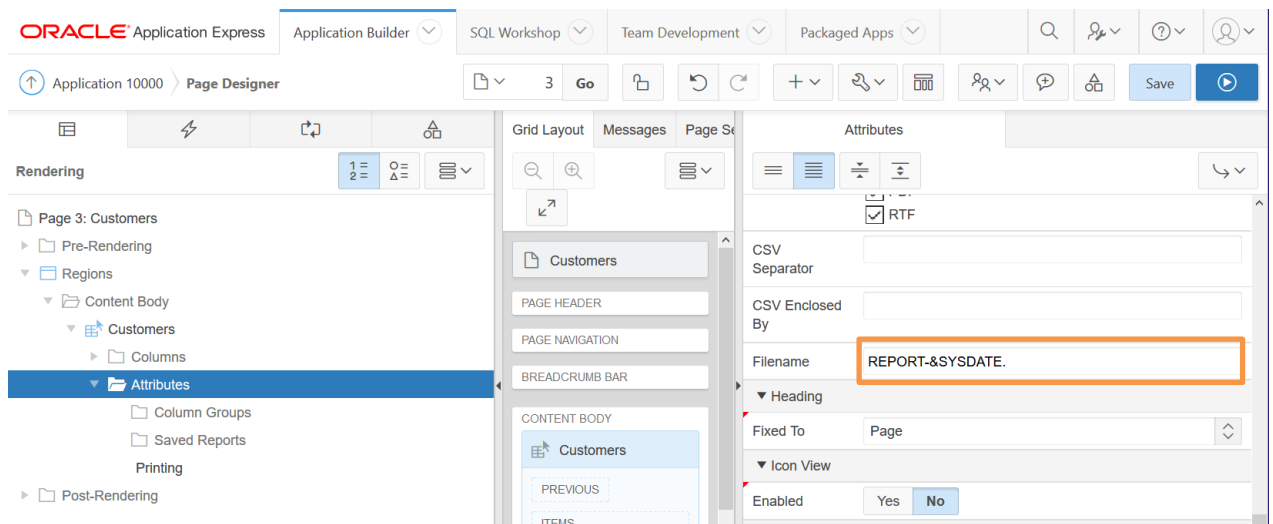
### Add Download XLSX Icon to "Download Dialog"



### 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.



#### Use this functionality for all Interactive reports in your application

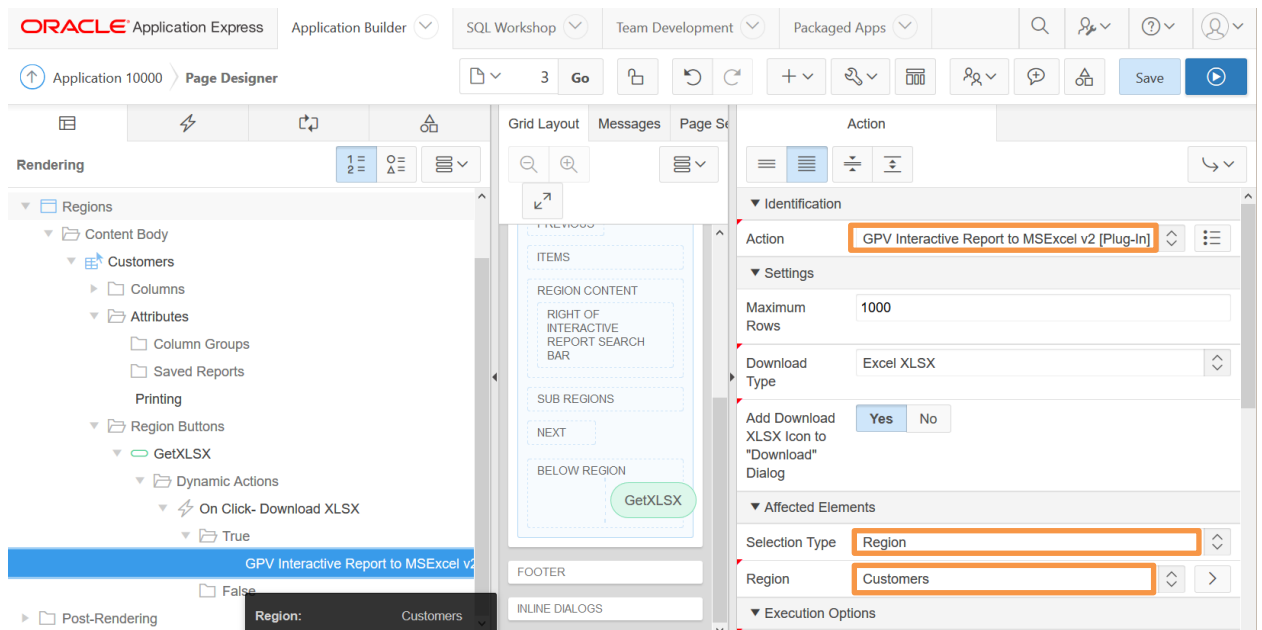
Install the plugin on Page 0 as described above in “Using in your application” section.

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

#### Adding a custom download button

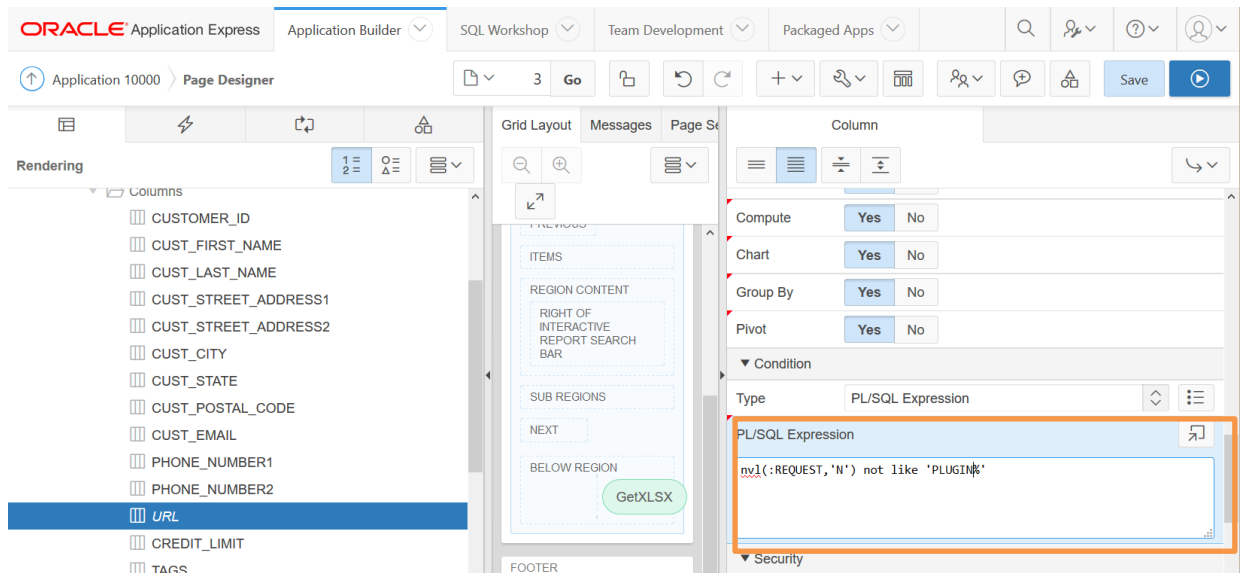
1. First create a Button
2. Create Dynamic Action on Event “Click” for this Button.
3. Create True Action and set “Action” to “GPV Interactive Report to MSeExcel v2 [Plug-in]”.
4. In “Affected Elements” Section set “Selection Type” => “Region”.
5. Set “Region” to your IR report Region.

## GPV Interactive Report to MSExcel



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

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



Use ***nvl(:REQUEST, 'N') not like 'PLUGIN%'*** Expression to exclude column from export, and ***nvl(:REQUEST, 'N') like 'PLUGIN%'*** Expression to make column visible on export only.

## GPV Interactive Report to MSEExcel

### How to uninstall plugin

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

The screenshot shows the Oracle Application Express interface. The top navigation bar includes 'ORACLE Application Express', 'App Builder', 'SQL Workshop', and 'Packaged Apps'. The breadcrumb trail is 'Application 102065 \ Shared Components \ Plug-in Utilization'. The 'Utilization' tab is selected. Below the tabs is a search bar with a 'Go' button and an 'Actions' dropdown. A table lists the plug-ins:

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

At the bottom right of the table, it says '1 - 1'.

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

The screenshot shows the 'Plug-in: GPV Interactive Report to MSEExcel v2' page. The top navigation bar is the same as the previous screenshot. The breadcrumb trail is 'Application 102065 \ Shared Components \ Plug-ins \ Create / Edit'. The page has buttons for 'Cancel', 'Delete', and 'Apply Changes'. Below the buttons is a tabbed interface with 'Show All', 'Name', 'Subscri...', 'Source', 'Callbac...', 'Suppor...', 'Standa...', 'Standa...', 'Custo...', 'Files', 'File UR...', 'Events', 'Inform...', 'Help Text', and 'Comme...'. The 'Name' tab is selected. The form fields are:

- Name: GPV Interactive Report to MSEExcel v2
- Internal Name: AT.FRT.GPV\_IR\_TO\_MSEXCEL
- Type: Dynamic Action
- Category: Miscellaneous

Below the form is a 'Subscription' section with a 'Reference Master Plug-in From' dropdown and a 'Refresh' checkbox.

Drop all plugin packages:

```
drop package IR_TO_XML;  
drop package XML_TO_XSLX;  
drop package IR_TO_MSEXCEL;  
drop package APEXIR_XLSX_PKG;  
drop package AS_ZIP;
```

