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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 MIT license.

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).

Problem solving and diagnosis

If plugin does not work, please first try to find an existing solution:

1. For all Errors

Check the version of the plugin. Make backup of your version, download and install the newest one directly from the GitHub.

2. For all ORA-Errors

First try to download the same data without plugin using standard APEX functionality, for example, as CSV. If you still get an error – correct the query of the Interactive Report. Check it for all the data, not only for first N-rows usually displayed in the report UI.

3. ORA-06508: PL/SQL: could not find program unit being called

Check step 2 and 1 first.

This error means, that rights are not proper configured in the system. First try to give EXECUTE rights to SYS.UTL_FILE and SYS.DBMS_LOB packages.

GRANT EXECUTE ON SYS.UTL FILE TO #USER#;

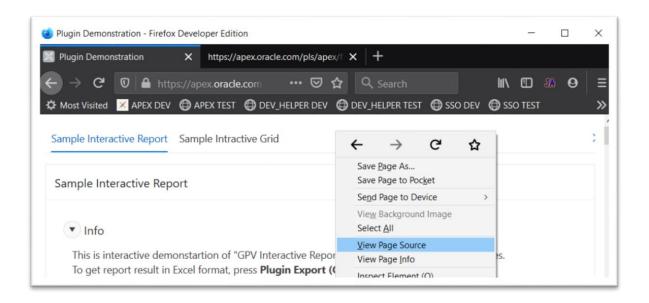
GRANT EXECUTE ON SYS.DBMS_LOB TO #USER#;

where #USER# should be replaced to the APEX Application Parsing Schema (Parsing Schema != APEX Schema).

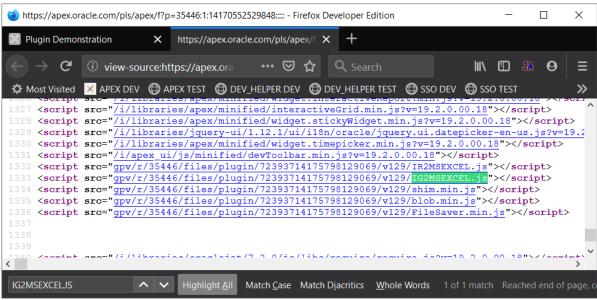
For configurations, where APEX Application Parsing Schema differs from the schema where plugin-packages are installed, DBA may should give EXECUTE – grants to all the packages (AS_ZIP, IR_TO_XLSX, IR_TO_XLSX, IR_TO_MSEXCEL) for APEX Application Parsing Schema. Please pay attention, that packages are defined with AUTHID current user – statement. Please give this information to the DBA.

4. No XLSX-Icon is displayed

- 3.1. Check step 2 and 1.
- 3.2. Check that the page does not have any JavaScript error use browser console.
- 3.3. Check that you browser uses the actual version of JavaScript-files (IG2MSEXCEL.js and IR2MSEXCEL.js). Open page source (Right-click the page and click on "View Page Source"),



than find the link to the file



, open it and save file to the local file system. After compare the saved file with the source file downloaded with the plugin.

This difficult and ugly method is the most reliable – because it covers all possible issues starting from the CDN to the browser cache and the false server case.

5. Getting debug information

From plugin-version 3.20 plugin uses standard APEX logging instead of custom logging (https://docs.oracle.com/en/database/oracle/application-express/19.2/htmdb/utilizing-debugmode.html#GUID-65F66F2B-ADCB-41B2-8EEE-3B7D7603F50C). All debug information related to plugin has prefix GPV_XLSX and can easily be filtered.

Reporting a problem

If you found a bug and have enough skills to fix it – please make a pull request on GitHub. The contributions are always welcome. A lot of people made this plugin better – not only bug fixes but huge and sometimes difficult improvements.

Another possibility is to create an issue on GitHub https://github.com/glebovpavel/IR to MSExcel/issues

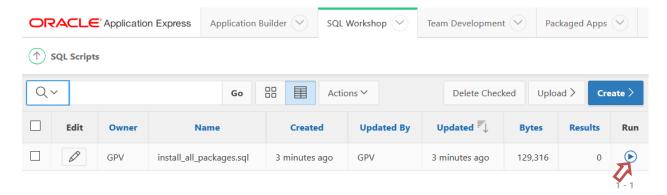
Please **make** a **simple dummy application** on apex.oracle.com to reproduce the error and add a link to the issue description. I understood that it can be expensive but it is **the only way to start fixing** the issues. It is not possible to fix something without having a possibility to reproduce it. If the problem is reproducible only on older version of APEX – please attach a link to the any external resource where source – file of the application is saved.

Installation

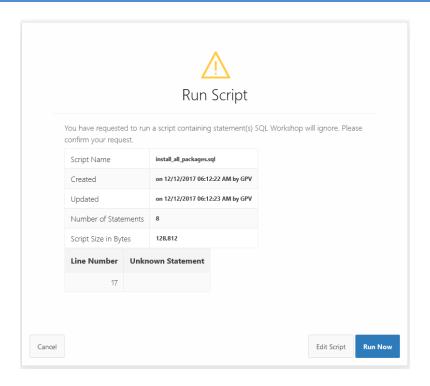
Install required packages

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.

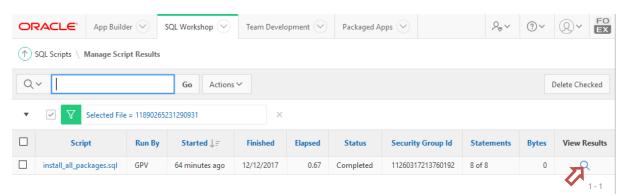
To do this, navigate to the "SQL Workschop > SQL Scripts". Upload file install_all_packages.sql.



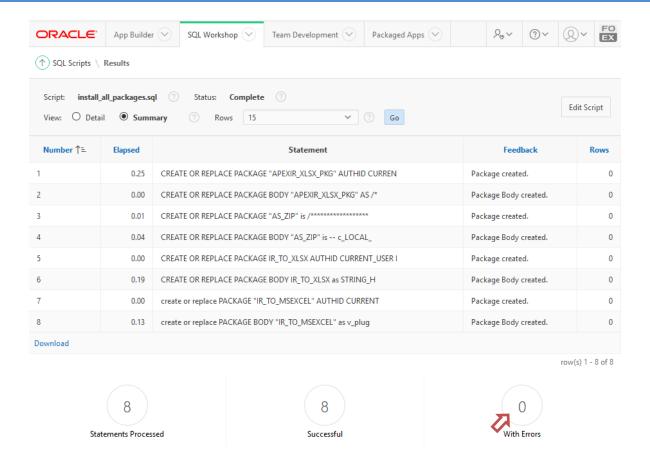
This script will create all required packages. Run this script by pressing the Run-icon.



Press "Run Now" button.



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



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#;

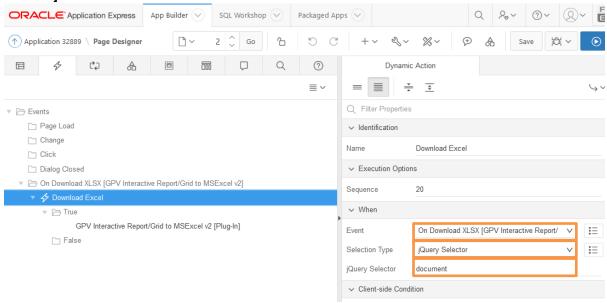
Where #USER# should be replaced to APEX Application Parsing Schema.

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.

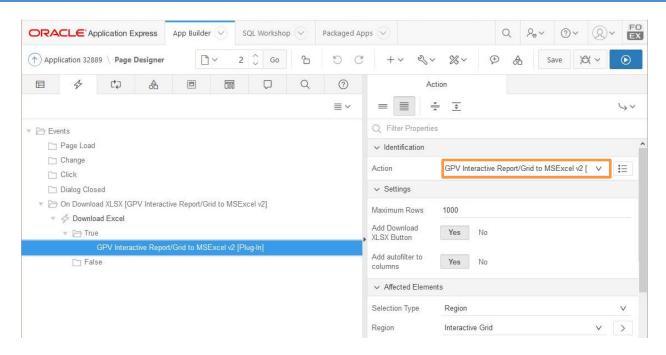
Using in your application

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"

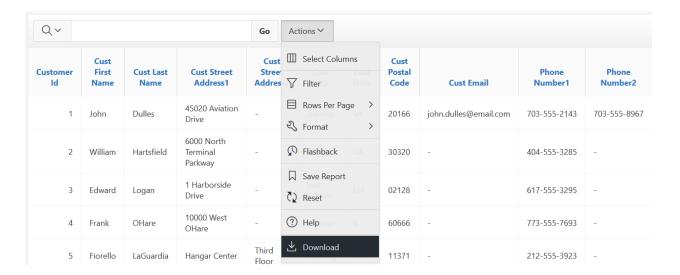


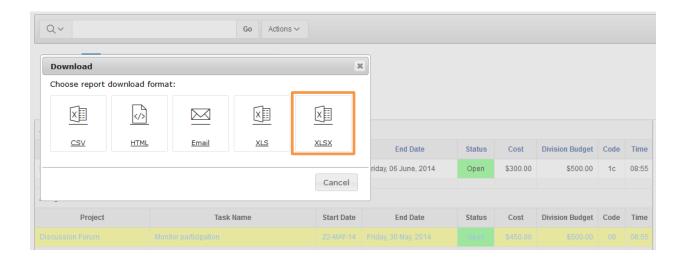
Select "Action" => "GPV Interactive Report/Grid to MS Excel v2"

The plugin is ready to use with the default settings.

How it works for Interactive Reports

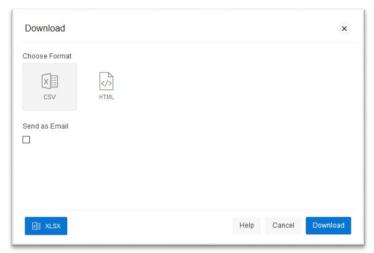
The plugin adds "Download XLSX" Icon to the "Download menu". By pressing on this icon the user gets an XLSX-file.





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.

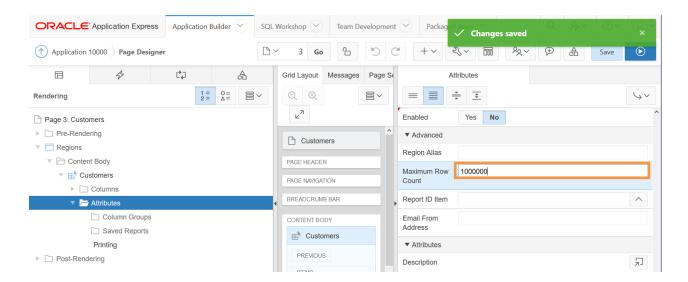
Choose "commi235 Render Engine" to use a separate render engine from Moritz Klein (needs to be installed separately).

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

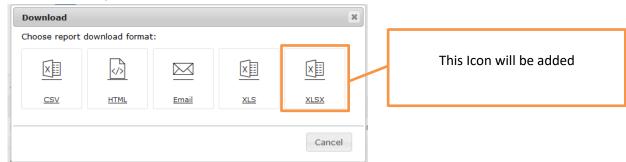
Comma - delimited list of columns with their widths.

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:

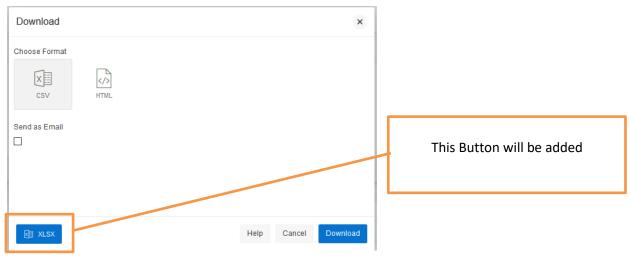
COMPANY_NAME:15,CTL:6

Add Download XLSX Icon to "Download Dialog"

For Interactive Report:



For Interactive Grid:



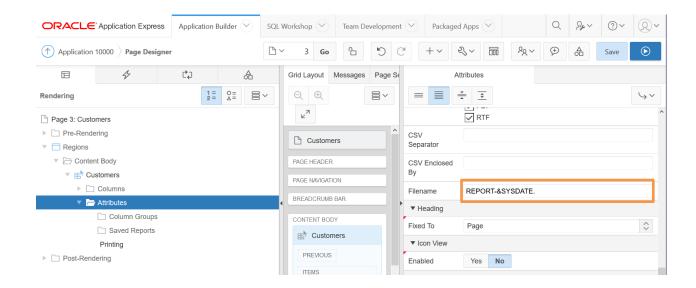
IG Fetch Portion (Interactive Grid only)

Interactive Grid fetches data from Database by portions of rows. Here one can set a size or 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.



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

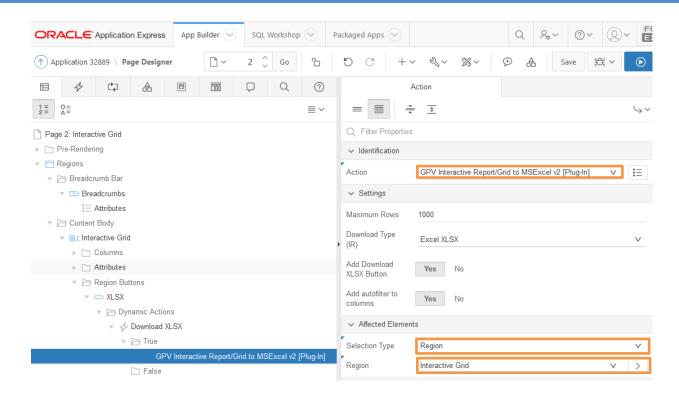
Install the plugin on Page 0 as described above in "Using in your application" section.

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

The plugin supports Interactive Grids and interactive Reports simultaneously.

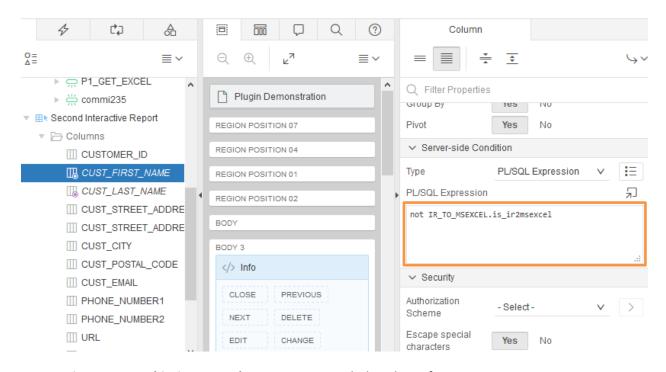
Adding a custom download button

- 1. First create a Button
- 2. Create Dynamic Action on Event "Click" for this Button.
- 3. Create True Action an 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.



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.

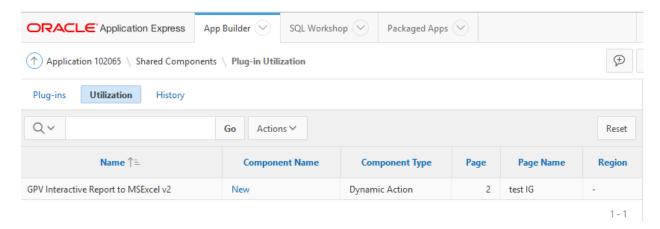


Use not ir_to_msexcel.is_ir2msexcel Expression to exclude column from export,

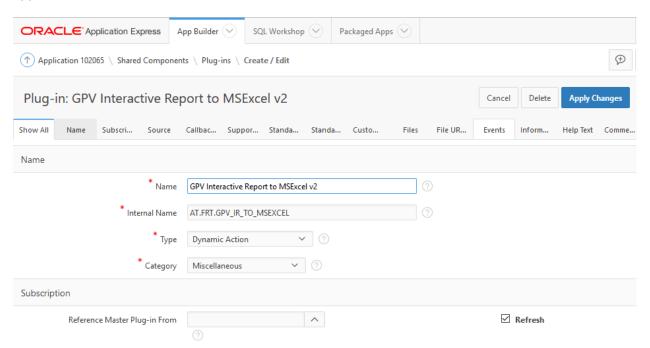
And *ir_to_msexcel.is_ir2msexcel* Expression to make column visible on export only.

How to uninstall plugin

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



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



Drop all plugin packages:

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