

Open Reporting System.

What is it?.

It is an easy way to get your own good looking reports with output coming directly from ERP LN report sessions as file downloads in Excel xlsx or PDF format.

Prerequisites:

- PowerShell(<https://docs.microsoft.com/en-us/powershell/>)
- ERP LN Windows Server
- VisualStudio Code IDE (<https://code.visualstudio.com>), For development machine.
- wkhtmltopdf (<https://wkhtmltopdf.org/index.html>)

Notes:

- Powershell must be at least version 5.
 - Check PowerShell on the server and the development machine are the same versions.
- To check Powershell version open a PowerShell console and run: `$PSVersionTable.PSVersion`

Reports with Excel Output:

Install PowerShell ImportExcel Module:

- Open PowerShell Console as administrator
- Run this command: [Find-Module ImportExcel | Install-Module](#)

If when running this command, PowerShell asks to install nuget provider, answer yes → Y
It also may say that you are installing from untrusted repositories, answer yes to install the module.

Download OpenReportingSystem as a zip file from github:

<https://github.com/LaranIkal/OpenReportingSystem>

When opening the zip file, there is a main folder: OpenReportingSystem-master

Open OpenReportingSystem-master folder and copy folder OpenReportingSystem to your root c:\

Now you have installed Open Reporting System. Follow the next steps.

For any help, you can reach me at my email in the header of this document or in baan board:

Author: Carlos Kassab, E.Mail: laran.ikal@gmail.com, Date: 2019/June/06

Login to LN, navigate to Tools → Application Development → Program Scripts / Libraries, start session Program Scripts / Libraries and create the next library:

File View Tools Specific Help

General Statistics

Package tc Common

VRC B61C a prod

Module com Common Data

Program Script orslsx

Description Use ttstpconv & convert delimited file report to xlsx format

Script Type 3GL (Without 4GL Engine) ▾

Compile Flags

Tools Interface Version 2020

☐ Expired

History

	User	Date
Created	ckassab	06/06/19 02:17:03 PM
Last Update	ckassab	06/06/19 02:28:41 PM

Documentation

☐ Tech.Document.

☐ Release Notes

Key Words

Search Key 1

Search Key 2

Search Key 3

Tools interface version depends on your tools version.

Copy the below the script source code, save and compile your library:

```
*****
* Title   : tecomorsxlsx - ttstpconv report output delimited file to xlsx Excel format
* Author   : Carlos Kassab
* Date     : June,06,2019
*****
* Script Type : 3GL
*****
***** DECLARATION SECTION *****

extern domain tcmcs.str132  program_name
extern domain tcmcs.str132  prog_arguments
                           string      tmp.file1(1024), tmp.xlsx.file1(1024)      | Temporary file names.
                           string      tmp.file_r(1024)
                           string      local.path(1024)      | Client Location for report.
                           string      file_to_email(1024)
                           string      start(1024)           | Start command
                           string      application(132)       | Application to start.
                           long        app_id                | Application id.
                           string      device.parameters(50)

extern domain tcmcs.long    retval
extern domain tcmcs.long    fileid1
extern domain tcmcs.long    err
extern string               monthnum(2),daynum(2)           |Actual date
extern long                 utc.func.ret, ret
extern long                 _yearno, _monthno, _month_dayno, _hours, _minutes, _seconds

#pragma used dll ottdllbw
#pragma used dll ottdllhtml
#include <bic_desktop>

function main()
{
|For development and testing, use temporary file tmp.file1 on development machine.
tmp.file1 = creat.tmp.file$( bse.tmp.dir$() )
tmp.xlsx.file1 = tmp.file1 & ".xlsx" | This will be the final converted file name.

| Arguments description
|message("argument1:" & argv$(1)) | tmp file created from report output
|message("argument2:" & argv$(2)) | path to file in device setup
|message("argument3:" & argv$(3)) | arguments parameter in device setup
|message("argument4:" & argv$(4)) | This is wt value, still waiting to know description.
|message("argument5:" & argv$(5)) | at this time this value is comming empty

wait.and.activate( "ttstpconv", argv$(1), tmp.file1, argv$(3), argv$(4) )

| Running script to convert delimited file to xlsx format, file name in variable tmp.xlsx.file1
program_name = "/OpenReportingSystem/ExcelOutput/ORSEXCEL.bat"
prog_arguments = tmp.file1 & " " & tmp.xlsx.file1 & " " & spool.report
retval = run.prog( program_name, prog_arguments, RP_WAIT )

if job.process then
  utc.func.ret = utc.to.date(utc.num(), _yearno, _monthno, _month_dayno, _hours, _minutes, _seconds)
  monthnum = str$( _monthno )
  if _monthno < 10 then
    monthnum = "0" & str$( _monthno )
  }
```

Author: Carlos Kassab, E.Mail: laran.ikal@gmail.com, Date: 2019/June/06

```
endif

daynum = str$(_month_dayno)

if _month_dayno < 10 then
    daynum = "0" & str$(_month_dayno)
endif

file_to_email = bse.tmp.dir$() & "/" & spool.report & "_" & monthnum & daynum & str$(_yearno) & ".xlsx"
file.cp( tmp.xlsx.file1, file_to_email )

else

if tc.is.html.ui() then

    client.download.file( tmp.xlsx.file1 )

else

    local.path = "${BSE_TMP}/" & str$(utc.num()) & ".xlsx"

    err = server2client( tmp.xlsx.file1, local.path, false, false,false )

    if (err) then
        message("Could not copy file to client")
    else
        application = "excel.exe"
        start = application & " " & get.local.filename()
        app_id = start.application.local(start,0,err)
    endif

endif

endif

retval = seq.unlink(tmp.file1) |For development and testing, comment this line to avoid file deletion.
}
```

Author: Carlos Kassab, E.Mail: laran.ikal@gmail.com, Date: 2019/June/06

Create your printing device, login to LN and navigate to:

Tools → Device Management → Device Data run Device Data Session and add this device:

File View Tools Specific Help

Papertype by D... Systems

Device	ORS_EXCEL
Description	xlsx Excel format file output
Device Type	Rewrite file
Locale	ISO-8859-1 Western Europe - 8 bit
	<input type="checkbox"/> Intermediate File in XML Format

Printer

Driver	
Device Queue	
Paper Type	
Left Margin	0 <input type="checkbox"/> Form Feed Every Page

File

Driver	
Shell Command	
4GL Program	otccomorsxlsx
Argument	ASCII
Path	\$\$ - ORS_EXCEL - \$\$ - \${LOGNAME}
	<input type="checkbox"/> Change Output file allowed
Page Length	0

Select Report Server

Select Device

Here we are creating the header and detail for our delimited file. Save, exit and compile your report.

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Run your sql query and use the new device: ORS_EXCEL, you must have an output like this:

	A	B	C	D
	rtcsqlorssales			
2	Order	Order Date	Sales Order Status	Plnd Dlv Date
3	1675	02-16-2018 11:58	In Process	06-01-2018 11:58
4	1729	04-10-2018 08:36	In Process	10-10-2018 08:36
5	1730	04-10-2018 08:44	In Process	06-04-2019 08:44
6	1731	04-10-2018 08:46	In Process	07-30-2018 08:46
7	1843	10-10-2018 09:13	In Process	12-26-2018 09:13
8	1850	10-15-2018 08:55	In Process	12-27-2018 08:55
9	1858	10-22-2018 08:28	In Process	05-05-2019 08:28

All sources and documentation can be found on github:

<https://github.com/LaranIkal/OpenReportingSystem>