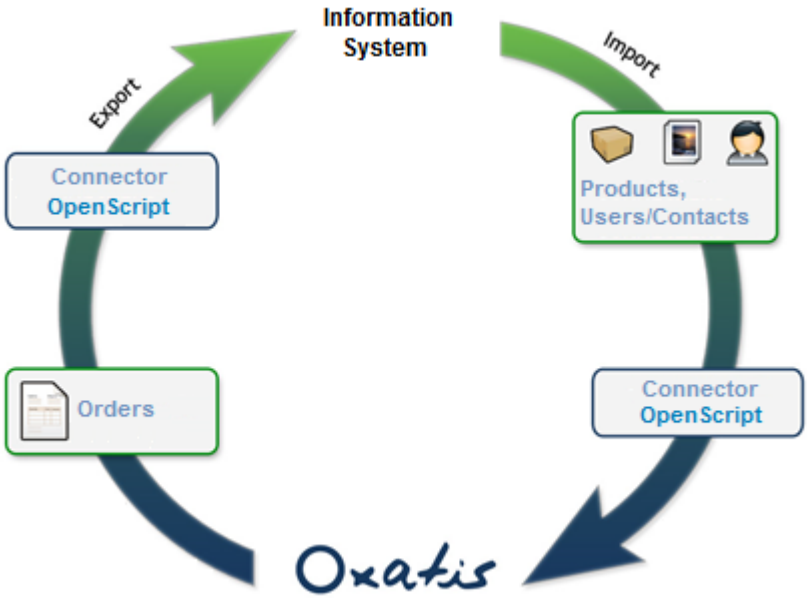
Oxatis DataPlug

For Windows XP®, Windows Vista®, Windows® 7, Windows® 8 and Windows® 10

OpenScript Connector User Guide



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Preface

Dataplug is the software designed for item, client-user and purchase order imports between an Actinic eCommerce site and local files (.csv, .xml, .jpg)... WebServices are the technology used to communicate with the Actinic eCommerce sites.

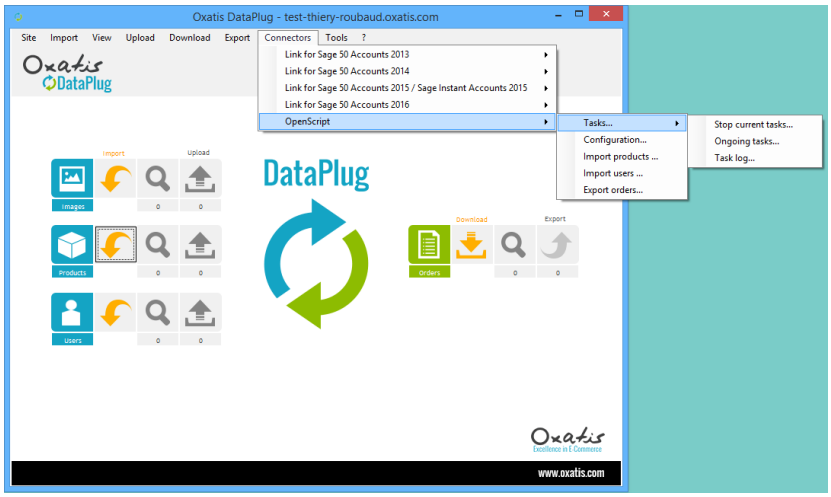
OpenScript is the **connector** Actinic provides for automating the sharing of items, clients and orders across all the data sources of your company's Information System. The connector integrates with the DataPlug menu, optimising the data transfer.

It allows for the scheduled execution of all windows recognised executables: control file .BAT, executable .EXE, scripts Windows Script, VBScript....

One of the technologies recommended for communicating with the Information System is based upon the « Talend Open Studio » solution, which operates via a graphic interface and allows for the manipulation and integration of all kinds of files and data sources (XLS, CSV, SYLK, DBF files, SQL databases, HTML pages, REST, Web Services, ERP....).

Prerequisites:

- In order to install Actinic DataPlug, you will need **Microsoft .net Framework** 4.0.
- The OpenScript connector is integrated and automatically installed in the standard Dataplug installation from version 5.4. onwards. Therefore, it does not require any additional downloads/installations.
- However, **using** the DataPlug OpenScript connector requires:
  - That you acquire and activate the rights to use the OpenScript module from Actinic.



- In order to use Talend scripts you will have to first install a virtual Java machine (from version 7.x onwards), which you can download from: https://www.java.com/download/manual.jsp .

N.B. : The activation of the OpenScript connector can be checked in the « ? > About Actinic DataPlug »help menu

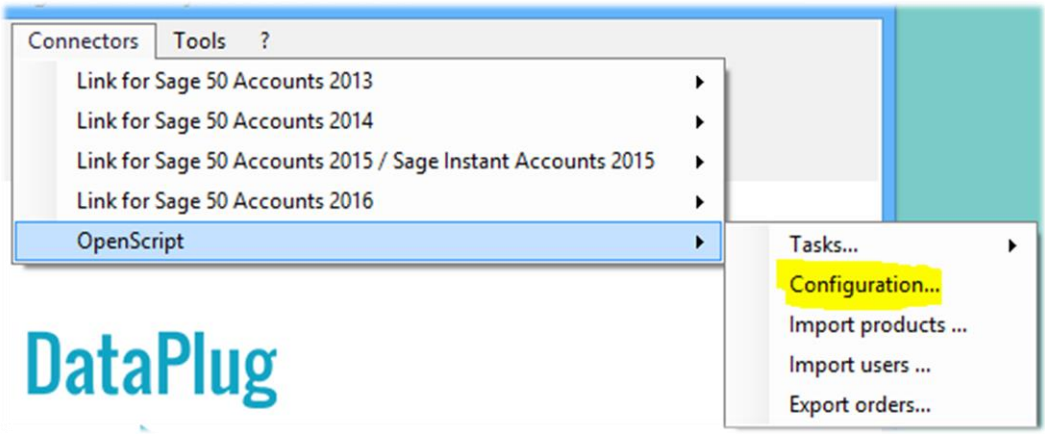
- Should you need extra help, online DataPlug assistance is available via the « Online assistance » feature, which figures on the « ? » menu. You can also click on:

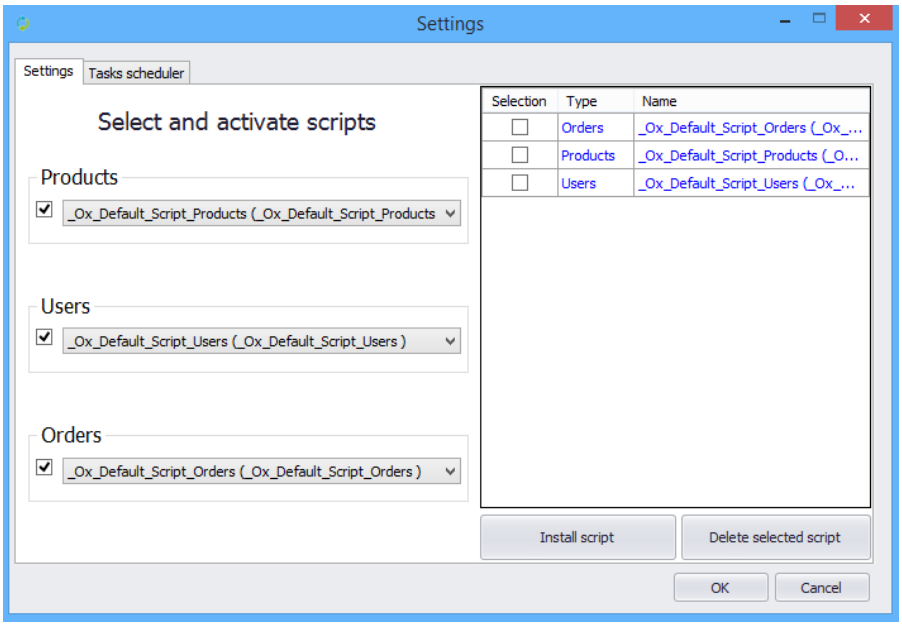
http://www.actinic.com/Help/HelpCenter.asp?ActionID=512&TID=55267&MID=55254&langid=1

Connector Configuration

- Start the DataPlug (a shortcut is automatically added to the desktop during the installation). The program is also accessible via the Windows program list.

Click on Configuration in the application's **Connectors > OpenScript** menu.





The OpenScript configuration window allows you to :

- Manage installed scripts

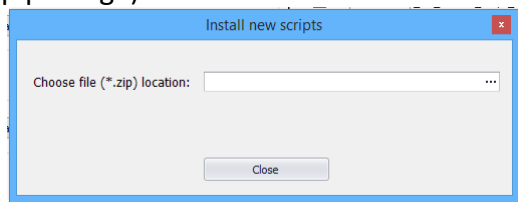
- From the installed scripts, select and activate scripts for execution, for the pre-treatment of the Items and Users' import, and the post-treatment of the Orders' export.
- Organise and plan the automatic execution of imports and exports, as well as data transfers to the connected Actinic site.

Step 1 : Script installation

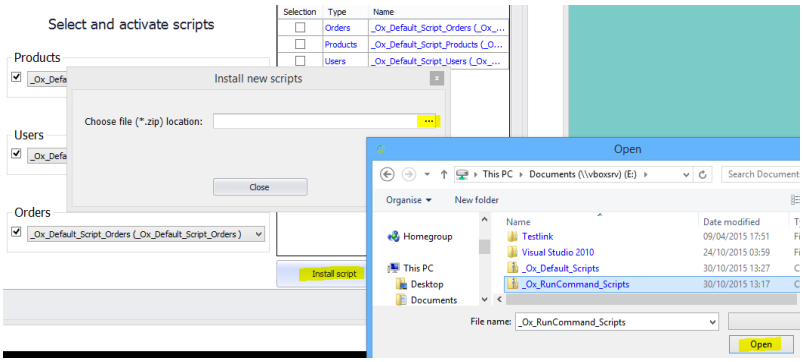
First of all, the scripts have to be installed. Installation packages appear in a compressed file format (.Zip) containing one directory per script.

This directory contains a script-configuration file as well as all the elements necessary for its execution (control files, libraries, data files....)

The ***Install a Script*** button allows you to browse through the discs to select an installation file (*.zip package).



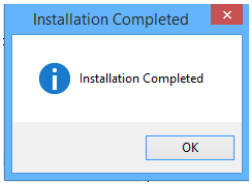
Type the script-installation file path or click on ··· to search for it.

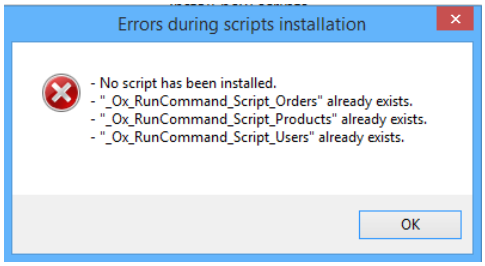


The « _Ox_RunCommand_Scripts*.zip » package comprises 3 simple scripts allowing for the execution of Windows commands.

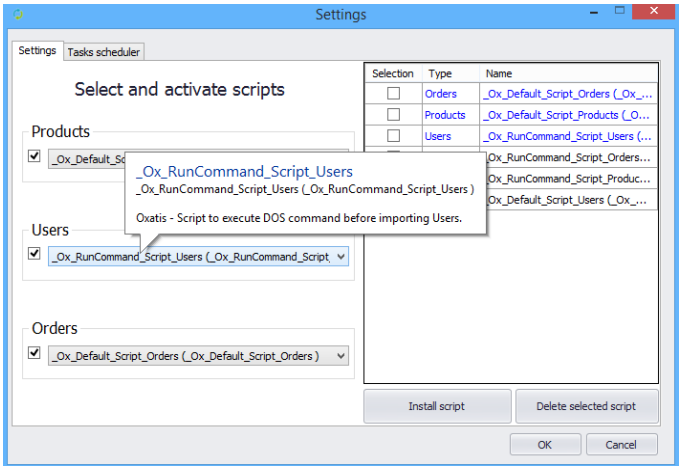
Clicking on the ***Script(s) Installation*** button allows you to upload the scripts-installation file and to install them in the DataPlug.

A message will inform you of the installation's progress and any errors that came up. For example, you won't be able to install a script which already figures in the dataplug.

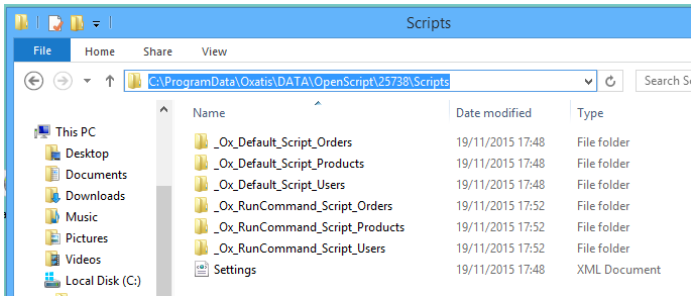




Compatible scripts are then added to the list of scripts installed in the DataPlug :

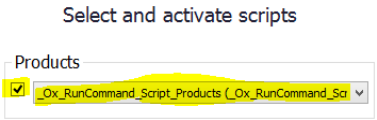


N.B. : the scripts are installed in an « OpenScript\<Actinic account number > » directory, located in the Dataplug data directory (at **c:\Program Data\Actinic** if the installation covers « all users » or **c:\users\<account name>\AppData\Local\Actinic** where the installation is for « Only me »).



Step 2 : Script activation

Once the scripts have been installed, you should then, according to the treatment type ((Articles/Users/Orders), select the script to execute and **activate it with the tick box**.



You should then validate the selection and activate it by clicking on ***OK.***

Step 3: Script configuration (initial execution)

Then proceed to execute the activated script which should lead to its initial configuration and save it.
For example, for the Item pre-treatment script, you have to use the ***Connectors > OpenScript > Item Import*** menu…

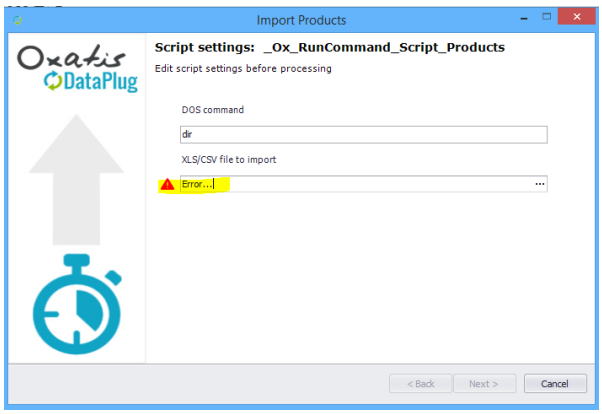
A script-configuration window will then appear. Script-configuration types are the following :

- File : Path with file name
- Path : path to files
- Log : Logging/traces text file
- Text : text of parameter value
- Option : modifiable-order option
- Hidden : option for compulsory non-modifiable order displayed as read-only

Depending on the parameter type, a « browse »button may appear to the right of the input field.

N.B. : The default path directory is the desktop for the first parameter, and the first parameter's directory for the following parameters.

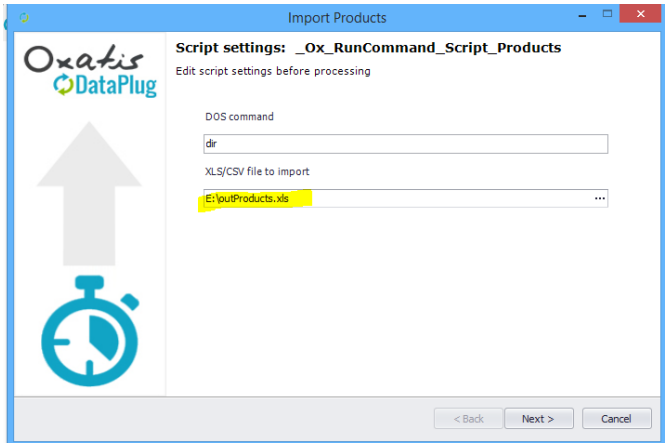
To the left of the input field, the incorrect parameters are marked with a red pictogram : missing value or incorrect path.



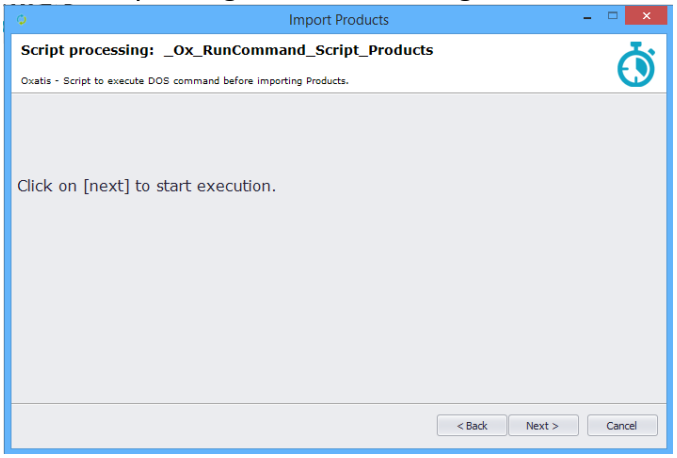
Once all the parameters have been entered and are correct, the ***Next*** button is activated enabling you to go through to the execution of the script.

N.B. : The presence of a XLS/CSV file is compulsory, both for Item/User imports and for Order exports. This is the file which shall be imported to upload the Items and Users, or exported with the list of orders.

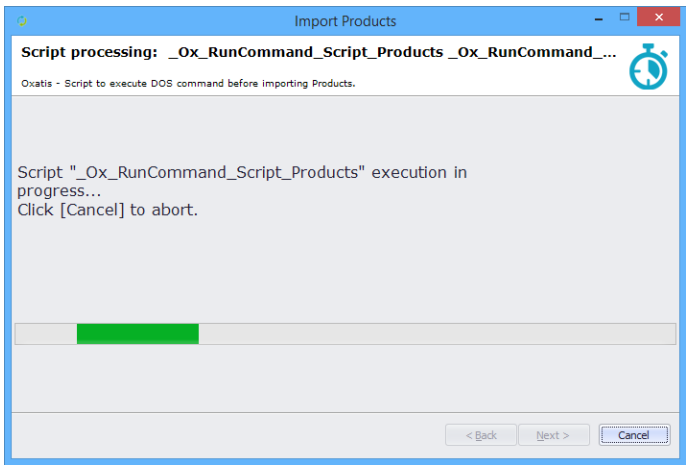
In the example below, the script will execute the following DOS order « Dir », which gives a list of the files that figure in the current execution directory.



The ***Next*** button allows you to get to the next stage of execution :

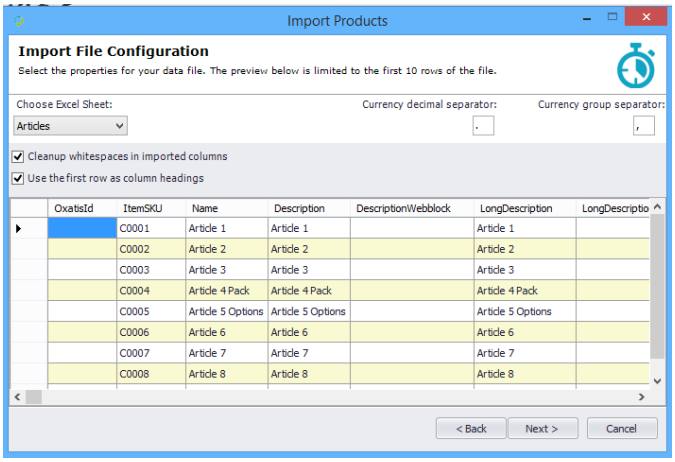


The ***Next*** button once again starts the script execution



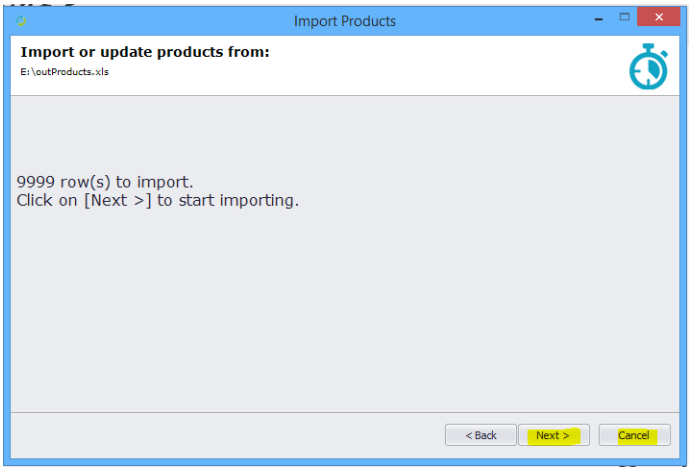
At the end of the script execution, the « standard » item-import windows are then displayed. The selected import file is the file generated by the script.

The following steps are the « standard » item-import steps:



Please refer to the standard Dataplug materials for the operating process.

In order to ensure the correct functioning of script and import parameters, you should get to the following screen :



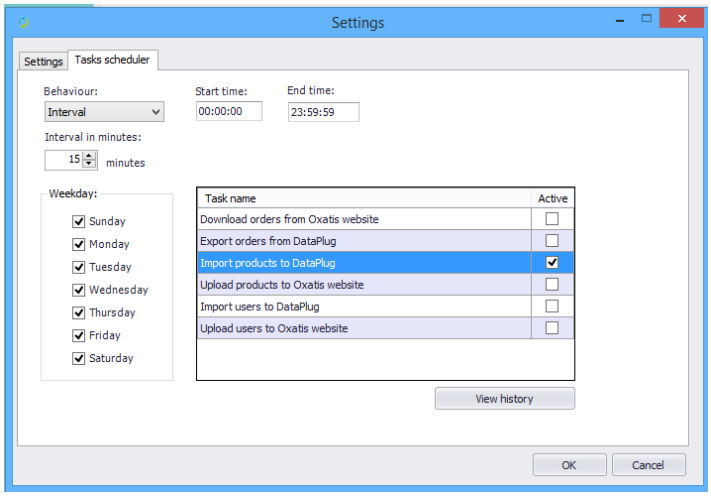
Indeed, if this window comes up, it means all the script parameters have been validated and saved.

N.B. : In order to save the import parameters, you do not have to continue uploading by clicking on ***Next*** ; pressing on ***Cancel*** will allow you to avoid waiting for the data to be uploaded. In this case, the data will be uploaded when the scheduled script-execution takes place.

Task automating and scheduling

The operations presented in this manual, such as the Item and User data imports from the Information System, transfers to Actinic, order downloads from Actinic, and order exports from the Information System, are all tasks that may be run automatically according to a pre-programmed schedule.

To set this up, click on ***Connectors > OpenScript > Configuration*** in the DataPlug menu, then select the ***Task Scheduler*** tab.



Via this tab, you can set up automated task-executions.
To do this, you will have to :

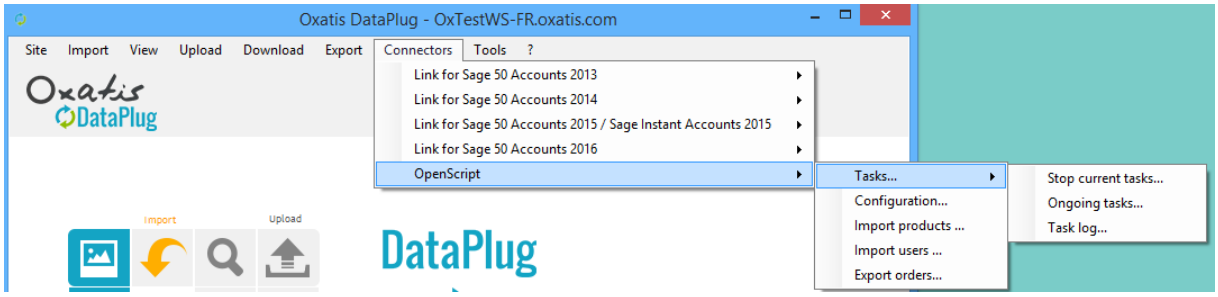
- ✓ Activate at least one of the available tasks
- ✓ Activate at least one day of the week
- ✓ Define the execution period (24 hours by default)
- ✓ Define an execution interval in minutes (15 minutes by default)

By filling in the scheduler's parameters, the tasks defined as active will run automatically in the background.

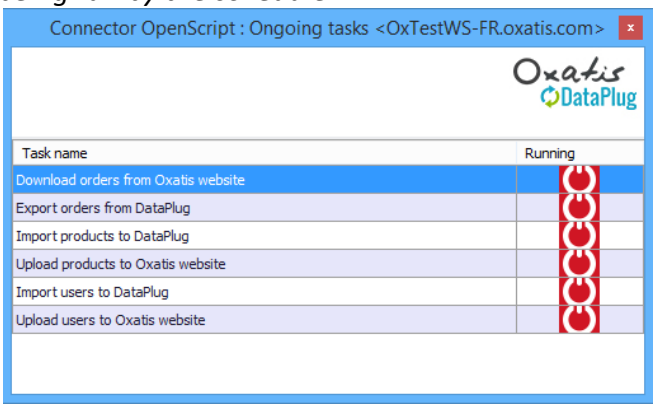
Tasks run following a predefined order :

1) Actinic orders are Downloaded.
2) Actinic orders are exported to the Information System.
3) Items are imported from the Information System to the DataPlug.
4) Images are transferred to the Actinic site.
5) Items are transferred to the Actinic site.
6) Client/contact import from the Information System to the DataPlug.
7) Client/contact transfer to the Actinic site

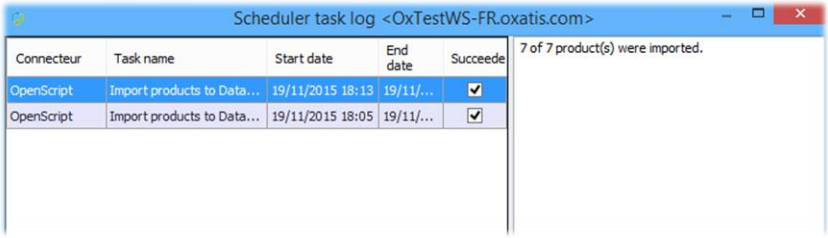
In the DataPlug's **Connectors/OpenScript** menu, you have a **Tasks** option, from where you can consult the list of tasks which are running at that time, as well as the history of those which have been executed. You can also stop the current running tasks.



Reviewing the task being run by the scheduler :

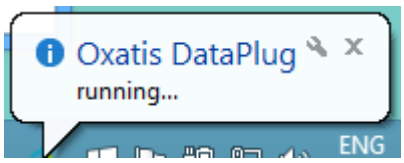


Reviewing the history of tasks run automatically by the scheduler :



N.B. : Press ***<F5>*** to update the list without leaving the window.

Pressing the « x » button in the main window closes the DataPlug application; it will continue to run in the background. An icon will appear in the Windows toolbar.



One right click on the DataPlug icon allows you to :

- open DataPlug
- Exit the application

Case Study : script for uploading items from a XML file

Let us consider the following use case in order to illustrate the functioning of the OpenScript connector :

- Every day at 1am the Information system generates a XML file of the items/products to be commercialised on the Actinic eCommerce site.
- A script is developed in order to allow for the transformation of that XML file into a file that is compatible with the DataPlug, using a XLS or CSV format.
- Once this script is validated, it is then installed in the DataPlug and the OpenScript option is activated. It is configured and it is scheduled to run every 24 hours, just after the XML file is generated by the Information System, at 2am.

For example, Actinic produced a script developed with Talend Open Studio, which can upload a XML product file and transform it into 2 XLS and CSV files compatible with the DataPlug format.

It is referred to as « Ox_Sample_Products_FromXML_to_XLS_DP » and comes together with the « Oxatis_User_Guides_Samples_Dataplug.zip » installation package.

These are the steps to follow :

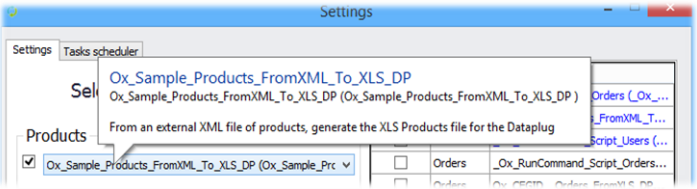
1. Instal the Actinic examples installation package
2. Activation the « Ox_Sample_Products_FromXML_to_XLS_DP » script
3. Script-configuration the first time it is started
4. Scheduling a daily 2am execution
5. Execution monitoring

Step 1 : script installation

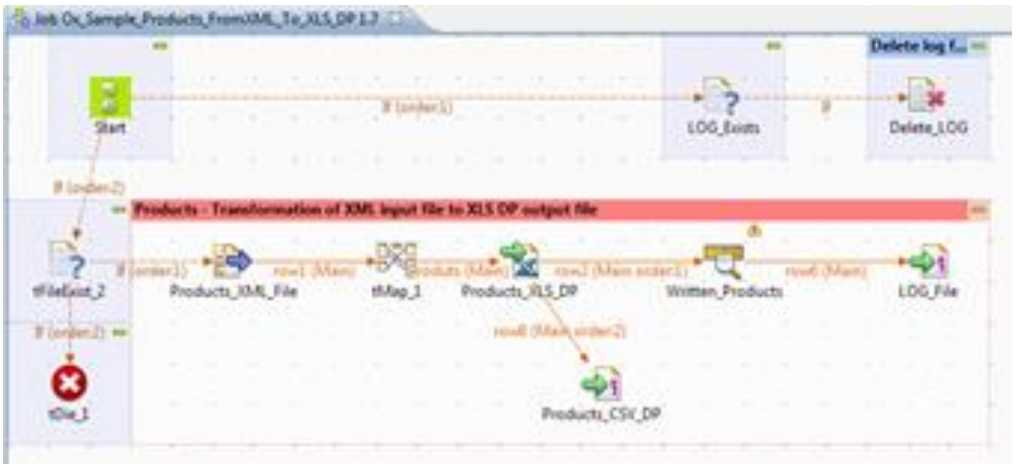
Retrieve the script-examples installation package from Actinic « Oxatis_User_Guides_Samples_Dataplug.zip ».

Instal the package in the ***Connectors > OpenScript > Configuration*** menu.

The following scripts are then installed :

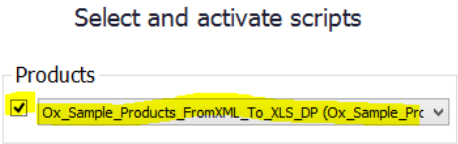


Script synopsis :



Step 2 : Script activation

Select the script in the **Connectors > OpenScript > Configuration** menu :
« Ox_Sample_Products_fromXML_to_XLS_DP » and activate it.
Click on ***OK***

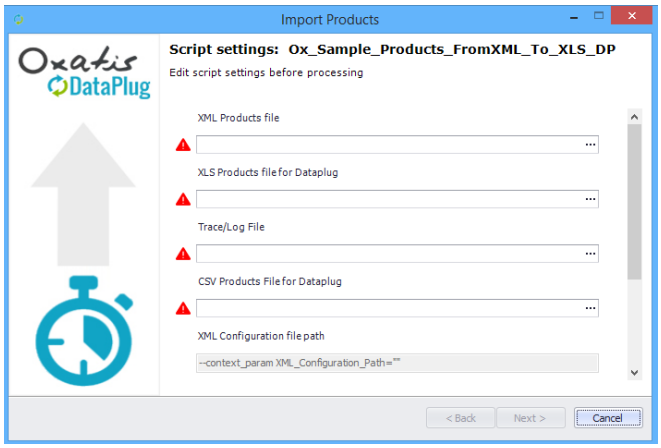


N.B. : remember to remove any scheduling applied to the item-import script, that may have been determined previously.

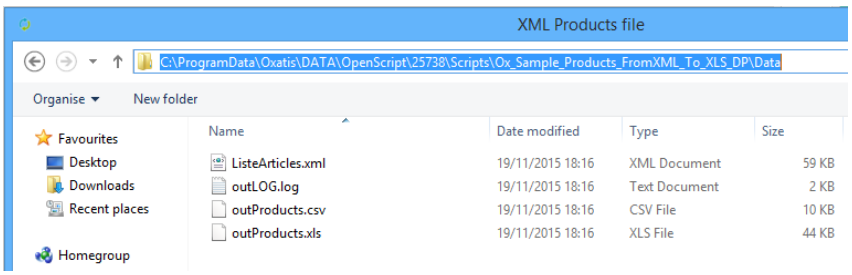
Step 3 : Initial configuration

Start the ***Connectors > OpenScript > Item import*** menu…

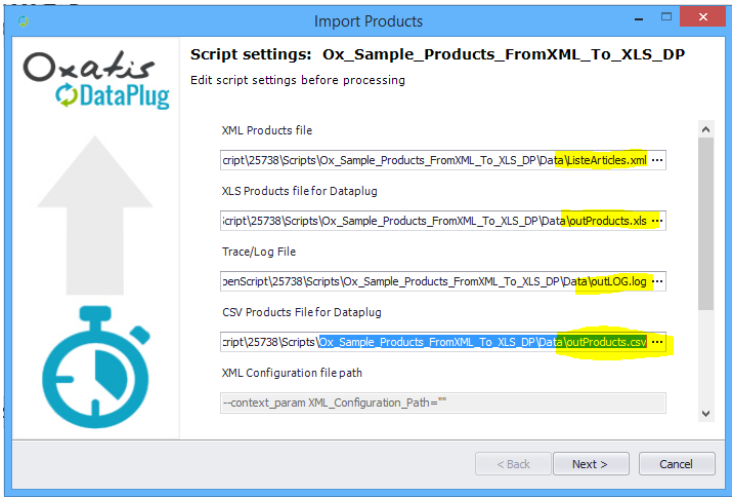
These are the script's parameters:



A test set comprising the files which are necessary for the script's functioning is provided in the script's installation « Data » directory.



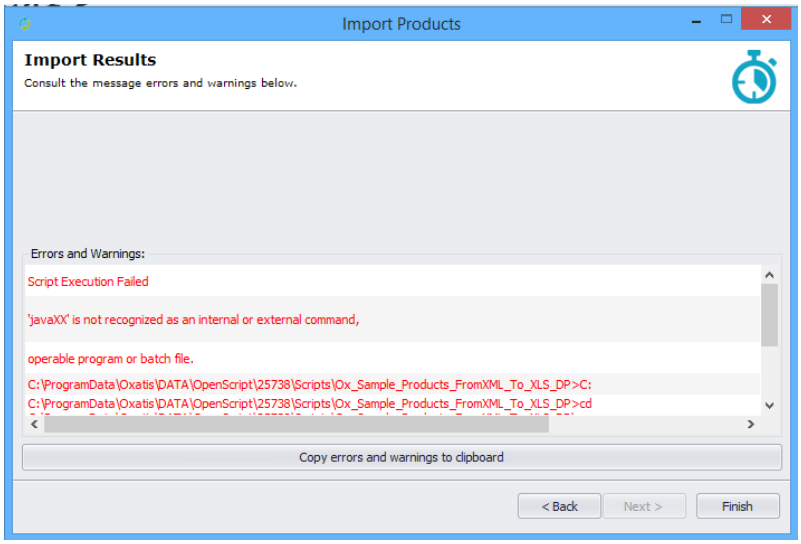
Select the files which fit the parameters and click on ***Next***:



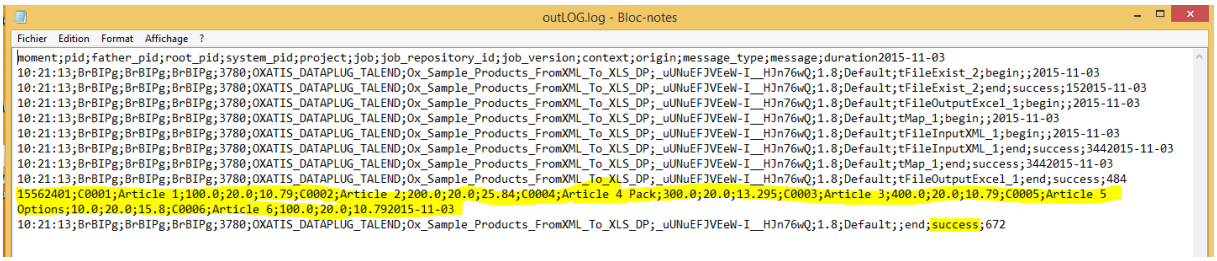
In the next window, click on ***Next*** to start running the script.

N.B. : This Talend script requires the presence and prior installation of a **virtual Java** machine (from version 7.x onwards)

In case of runtime errors, an error message is displayed in the results window:



If the script has a trace/log file in its parameters, it can be reviewed with any text editor (notepad for example) at the location where it was configured.



Once it has run, you can configure the Items' XLS file upload via the « Import Items » standard DataPlug window.

Step 4 : Scheduling execution

Set the parameters for automatic script-runs in the ***Connectors > OpenScript > Configuration – « Task scheduler »Tab*** menu:

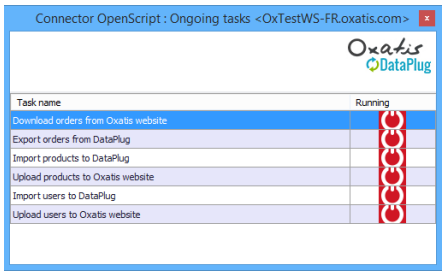
- Mode : Daily
- Start time : 02 :00
- Days of the week : tick all
- Name of the task to be activated : item-import to Dataplug

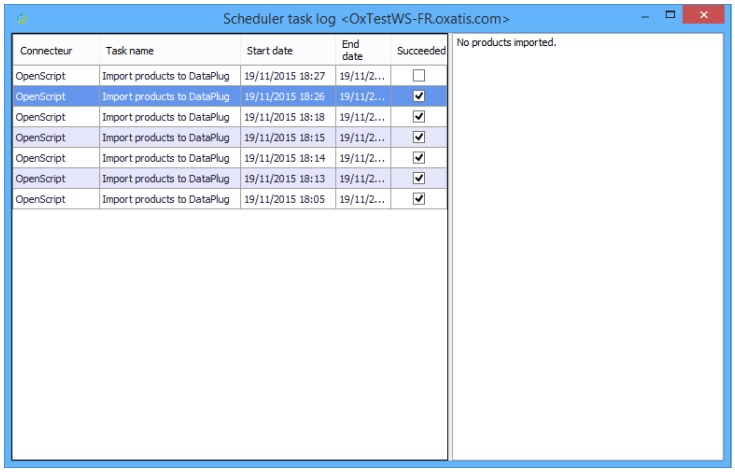
Confirm by pressing ***OK :*** the script runs immediately, then will start again automatically as defined in parameters.

Step 5 : Monitoring

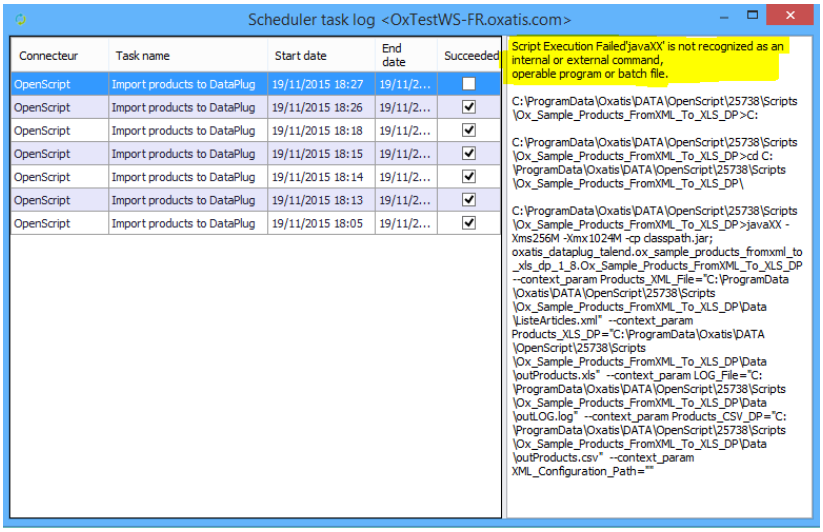
In the menu, click on ***Connectors > OpenScript >Tasks >Display tasks currently running*** and ***Connectors > OpenScript >Tasks >History of executed tasks***

Both monitoring windows will open, respectively :





Any errors will appear in tasks' results:



Case study : Commercial Management and management of outsourced stock

Let us consider the following use case in order to illustrate a likely scenario of how the OpenScript connector functions :

- A seller has a Commercial management and a matching connector (for example, SAGE 100 i7 or BOB40). He uses it to manage his item catalogue, his pricing policy and the web orders completed on the Actinic site.

- He owns a third-party software solution (specific development) for the management of his warehouses, his logistics and his stock. This software can extract one Excel file per hour, with information on the current state of the stock per article code (SKU), and place the information in a network directory.

- In order to ensure his Actinic eCommerce site is operational, he has to make sure both the offer and the prices of products sold on the site are kept up to date, as well as receive the Web orders and keep his stock up to date.

In order to set up this scenario, the seller installs and configures his SAGE BOB 50 connector in his DataPlug which enables him to manage the product/item updates, to take place once a day at 22pm. He also activates, installs and configures an OpenScript connector in order to effect regular « uploads » (every hour) on the state of his item stock.

It is referred to as « _Ox_Default_Script_Products » and the standard version comes with the DataPlug installation. It allows for the execution and the scheduling of a XLS/CSV product-file upload from a determined location.

These are the steps to follow:

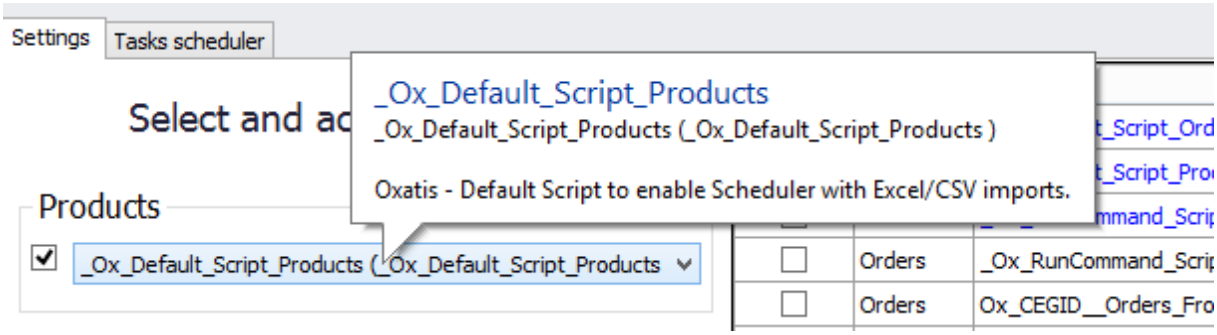
1. Installation and configuration of your connector with the Commercial Management (SAGE XXX) : we recommend that you de-activate the Commercial Management stock control where possible (treatment is useless given the stock information will be replaced with the stock management script)
2. « _Ox_Default_Script_Products » script activation
3. Script-configuration for its initial run
4. Schedule to run every hour
5. Execution Monitoring

Step 1 : installation and configuration of the « Commercial Management » connector

Please refer to the relevant connector-materials.

Step 2 : Script activation

In the **Connectors > OpenScript > Configuration** menu**,** select the script :
« _Ox_Default_Script_Products » and activate.
Click on ***OK***

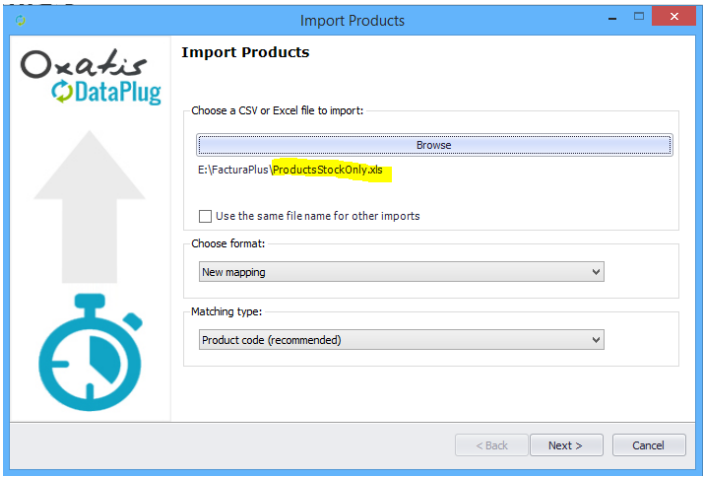


N.B. : Remember to remove the item-import script scheduling, where necessary.

Step 3 : Initial configuration

Go to the ***Connectors > OpenScript > Item Import*** *menu…*

This script does not have a specific parameter. It allows you to start a XLS/CSV file import. Therefore the following window will come up :



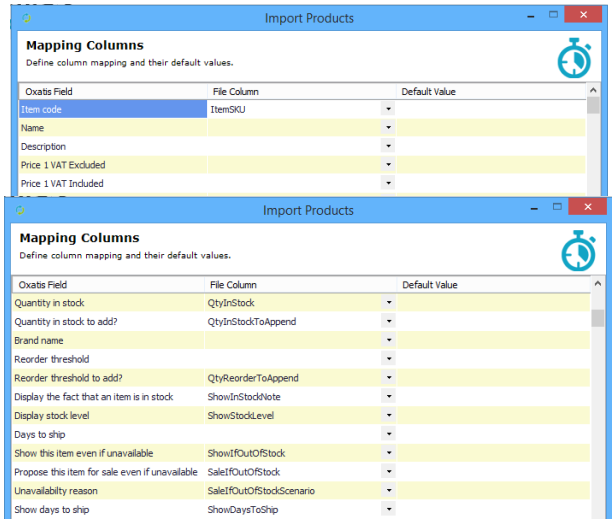
We select the XLS/CSV product-file, which is generated by the specific Stock Control application.

In our scenario, the file is structured as follows :

ItemSKU	ProductLanguage	QtyInStock	SaleIfOutOfStock	SaleIfOutOfStockScenario	ShowDaysToShip	ShowIfOutOfStock	ShowInStockNote	ShowStockLevel	QtyInStockToAppend	QtyReorderToAppend
AZUCAR	es	111	0	0	0	0	0	1		
CUBERTERIA	es	222	0	0	0	0	0	1		
D500	es	333	0	0	0	0	0	1		
D750	es	444	0	0	0	0	1	0		
FAC_001	es	55	0	0	0	0	0	1		
FAC_002	es	666	0	0	0	0	0	1		

N.B. : Only the first 3 columns are compulsory.

On the column-association screen (obtained via the ***Next*** buttons) the following association is suggested:



Click on ***Next*** in order to get to the image-management stage and click again on ***Next*** to start running the script.

N.B. : This Talend script requires the presence and prior installation of a **virtual Java** machine (see prerequisites set out at the beginning of this document)

Once the execution is complete, the standard DataPlug « Import Items » window allows you to configure the XLS item-file upload.

Step 4 : Scheduling the execution

In the ***Connectors > OpenScript > Configuration – « Task Scheduler » Tab*** menu, you can configure the automatic running of the script :

- Mode : Daily
- Start time : 02 :00
- Days of the week : tick all
- Name of the task to be activated : item-import to Dataplug

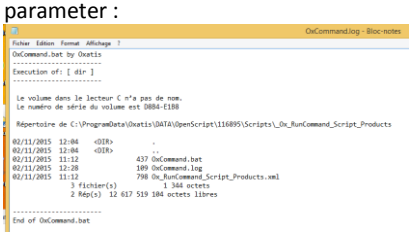
Confirm by pressing ***OK :*** the script runs immediately, then will start again automatically as defined in parameters.

Step 5 : Monitoring

In the menu, click on ***Connectors > OpenScript >Tasks >Display tasks currently running*** and ***Connectors > OpenScript >Tasks >History of executed tasks***

Appendice : Scripts provided by Actinic

<u>List of scripts provided by Actinic, as examples:</u>

_Ox_Default_Script_Products Parameters : none _Ox_Default_Script_Users Parameters : none _Ox_Default_Script_Orders Parameters : none	Scripts for scheduling import/export of XLS/CSV files
_Ox_RunCommand_Script_Products Parameters : Windows/DOS order to execute XLS/CSV product-file to import _Ox_RunCommand_Script_Users Parameters : Windows/DOS order to execute XLS/CSV product-file to import _Ox_RunCommand_Script_Orders Parameters : Windows/DOS order to execute XLS/CSV order file to export	Scripts for the execution of Windows/DOS commands made with trace/log file parameter :  OxCommand.log - Bloc-notes Fichier Edition Format Affichage ? OxCommand.bat by Oxatis ---------- Execution of: [dir] ---------- Le volume dans le lecteur C n'a pas de nom. Le numéro de série du volume est DBB4-E1B8 Répertoire de C:\ProgramData\Oxatis\DATA\OpenScript\116895\Scripts_Ox_RunCommand_Script_Products 02/11/2015 12:04 <DIR> . 02/11/2015 12:04 <DIR> .. 02/11/2015 11:12 437 OxCommand.bat 02/11/2015 12:28 109 OxCommand.log 02/11/2015 11:12 798 Ox_RunCommand_Script_Products.xml 3 fichier(s) 1 344 octets 2 Rép(s) 12 617 519 104 octets libres ---------- End of OxCommand.bat
Ox_Sample_Products_FromXML_To_XLS_DP Parameters : XML product-file XLS product-file for the Dataplug Trace/Log File CSV product-file for the Dataplug XML Configuration file path (used for the development) Ox_Sample_Users_FromXML_To_XLS_DP Parameters : XML user file XLS user-file for the Dataplug Trace/Log File CSV user-file for the Dataplug XML Configuration file path (used for the development) Ox_Sample_Orders_From_XLS_DP_To_XMLs Parameters : Dataplug XLS Orders File from Dataplug Name of the worksheet in DP Orders file XLS Trace/Log file name Generated XML Orders file Generated XML Order Items file Generated XML Order Users file Destination path to copy generated XML files XML Configuration file path (used for the development) Ox_Sample_Products_From_Google_Drive Parameters : Google Drive access parameters XLS Products file for Dataplug Log File Name of the Google Drive Products Spreadsheet XML Configuration file path (used for the development) Google API client secret code	From a XML product-file, this script create s XLS and CSV files for the Dataplug From a XML user-file, this script create s XLS and CSV files for the Dataplug From a XLS order-export file, this scripts creates 3 XML files : - order headers - order lines - order users From a Google Document file of the products stocked on Google Drive, this script recovers the Google file and creates XLS and CSV files of the products for the Dataplug. Implements the Google OAuth v2.0 security with the API activation, client secret code, temporary token , refresh-token. The ContextGoogle.info connection file contains :

Ox_CEGID__Orders_FromXLS_DP_To_XMLs Parameters : DP Orders XLS entry file Paper name in Excel DP Orders Temporary XML files' path xml file CEGID EPIECE xml file CEGID ELIGNE xml file CEGID ETIERS Copy To Path Log/Trace File CEGID ETIERS.xml example file CEGID EPIECE.xml example file CEGID ELIGNE.xml example file XML Configuration file path (used for the development) Ox_CEGID__Orders_FromXLS_DP_To_XMLs_MapTables Parameters : DP Orders XLS entry file Paper name in Excel DP Orders Temporary XML files' path xml file CEGID EPIECE xml file CEGID ELIGNE xml file CEGID ETIERS Copy To Path Log/Trace File CEGID ETIERS.xml example file CEGID EPIECE.xml example file CEGID ELIGNE.xml example file XML Configuration file path (used for the development) XLS Trans-codification file	redirect_uri;http://localhost state;123456789qwertyi code;4/4zLC6zHtImN2U3SQ3nXOTX6Nx7G6d10l8RnAQSE_Hf0 client_id;129908285890-4malclk574q2tr0f06dgh5h50iudt5ap.apps.googleusercontent.com access_token;ya29.IAJbhNsngFgN1TZzCNvNpWBPG5dz1ZbGLNxYpXAqt6jIJMdT-ajHUX1QcTFKU7iXVOIJ75M refresh_token;1/CFcB0_oERigXwWTzjN-cPdv1EKDbXf6JJKkfBMUB3mI scope;https://www.googleapis.com/auth/drive