How to configure the DataMailBox Connector for eSync

1. Introduction

Talk2M provides to Talk2M users a new service called "DataMailbox". This service consists in aggregating the eWON Historical Data & Alarms in a temporary database located in the Talk2M infrastructure in the cloud. To send its Historical Data to the DataMailbox, the eWON MUST be connected on Talk2M.

To retrieve the historical data from the DataMailBox and use it in third party software such as SCADA, Reporting Software or eSync, Talk2M provides a web API called DMWeb API (For more details, see http://developer.ewon.biz/content/dmweb-api).

To give the ability to collect the Historical Data from the DataMailbox and integrate it into your eSync MySQL Database, the "DataMailbox Connector for eSync" has been developed.

This DataMailbox Connector consists in an additional Task in the Task Scheduler of Windows that runs a new PHP script. Every time the Task is started by Windows (by default, every hour), the PHP script connects the DataMailbox and collects all the new eWON Historical Data available for your Talk2M Account using the DMWeb API.

As the connection is initiated by the DataMailbox Connector to the DataMailbox Server (https://data.talk2m.com/...), eSync just needs a simple Internet access and not to be accessed from Internet anymore like it is the case when the eWON pushes its data directly to eSync, through M2U or not. This allows you to collect data with eSync without having to create a Port Forwarding rule in the eSync Internet router or to get a Public IP address for your eSync Server.

2. eWON Configuration

In the eWON, you simply have to use the same Data Management menu as for eSync. (System Setup\General\Net Services\Data Management)
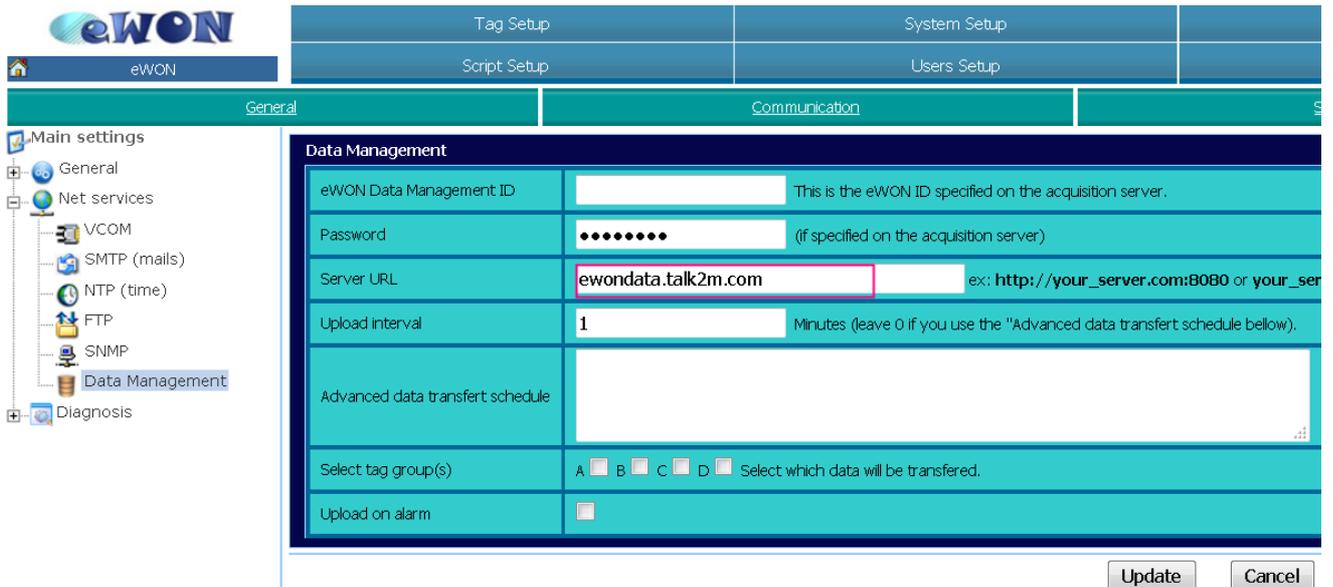
In this menu, you just need to configure it the same way as you do for sending data to eSync except that the server URL must be "**ewondata.talk2m.com**" and no eWON Data management ID and password are needed.

3. eSync DataMailbox Connector Setup

The DataMailbox Connector is provided in the form of a Zip file available on http://cdn.ewon.biz/software/eSync/eSyncDataMailboxConnector.zip.
Extract this Zip file into your eSync Directory (By Default, C:\esync)

All the parameters you need to configure are included in the file "config.ini". To edit it, you can open it with Notepad for example.

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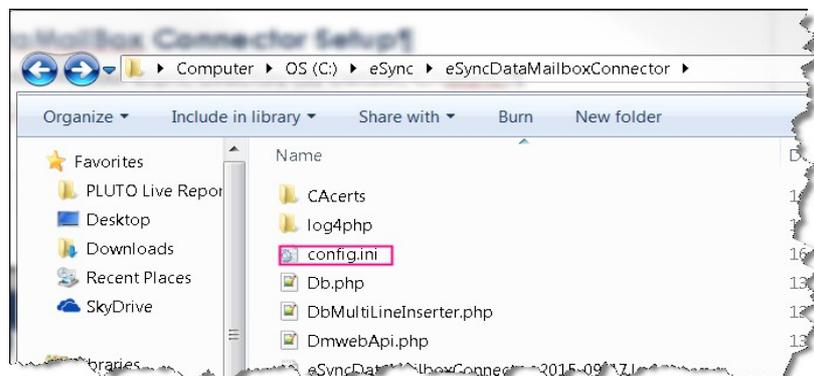
```
1    ; Talk2M credentials
2    account = [TypeYourAccountName]
3    user = [TypeYourUserName]
4    password = [TypeYourPassword]
5
6    ; delete each transaction after it has been retrieved and saved
7    deleteTransaction = false
8
9    ; create eWONs if they do not exist in eSync (based on their name)
10   createEwons = true
11
12
13   ; maximum number of syncData calls per run of the script
14   ; use -1 for an unlimited number of iterations
15   maxIterations = 1000
```

Parameter	Description
account	Type the name of the Talk2M account which your eWONs are associated to. If your eWONs are associated to different accounts, please refer to Appendix A.
user	Type a username that belongs to this account. The user can have user or Administrator rights.
password	Type the password for the username defined above.
deleteTransaction	(*true/false*) Set it to *true* if you want to erase the data on the DataMailBox after having retrieving them.
createEwons	(*true/false*) Set it to *true* if you want the DataMailBox Connector to create automatically the eWON when it does not exist yet.
maxIterations	Maximum quantity of records that is retrieved per DMWebAPI call. If more data is available, a new call is then performed automatically.

When the file "config.ini" has been configured, a new Scheduled Task must be installed in the Windows Task Scheduler of the PC. Right-click on the file "installEsyncDmConnector.bat" and click on "Run as administrator" (Administrator rights on the machine are obviously required).
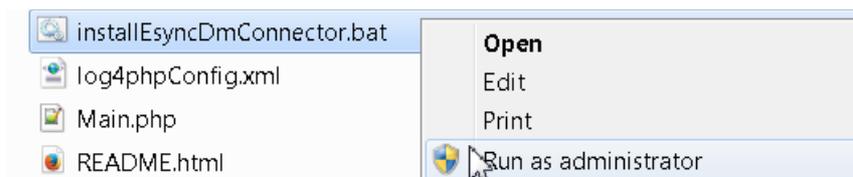
Your eSync is now configured for retrieving the eWON historical data & alarms coming from the DataMailbox.

4. Launch a DataMailBox synchronization manually

To start a DataMailBox synchronization manually, you just have to execute the file "SyncData.bat"
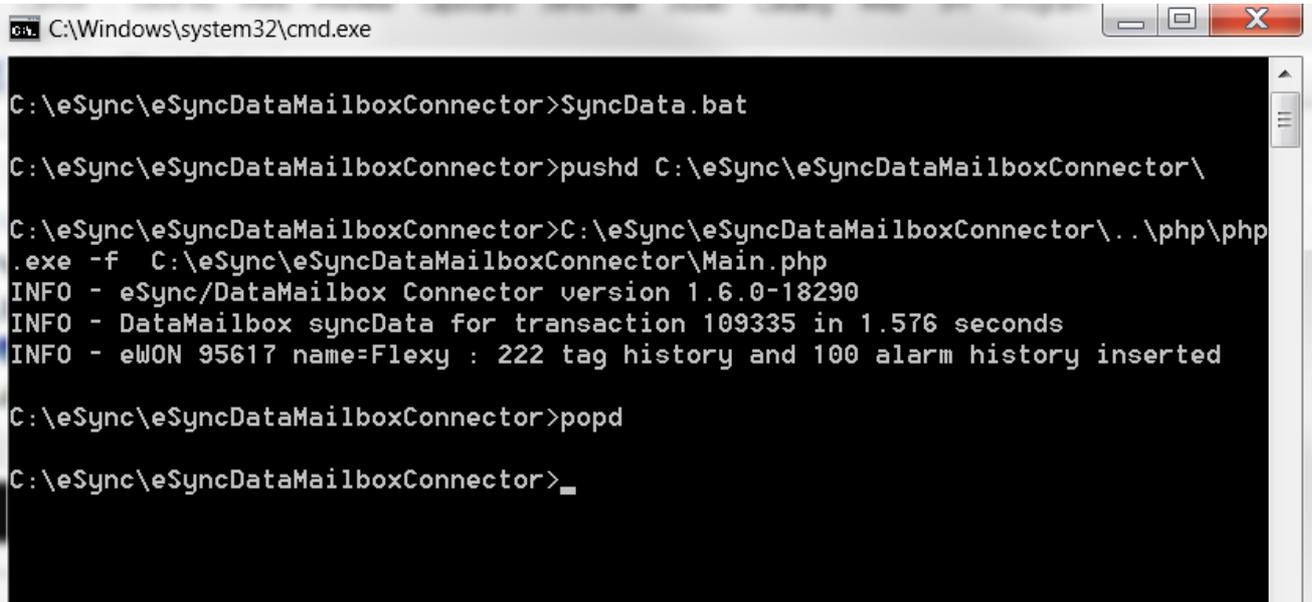
5. DataMailbox synchronization troubleshooting

The DataMailBox connector provides logs that are stored in files named "**eSyncDataMailboxConnector-[DateOfTheDay].log**". These logs files are located in the DataMailBox connector root directory. The logs are also displayed when you run the file "SyncData.bat" in a command prompt window (See Chapter 4.).

Different levels of log can be set using the file "log4phpConfig.xml" :

```
<root>
    <level value="INFO" />
    <appender_ref ref="consoleAppender" />
    <appender_ref ref="fileAppender" />
</root>
```

Four different levels are available : ERROR, INFO, DEBUG, TRACE, where TRACE is the highest level of logging.

6. Collect Data from different Talk2M accounts using the DataMailbox.

A single instance of DataMailbox Connector can only collect eWON Historical Data from one **single** account. To work around this, you can create a new instance of the DataMailbox Connector by simply duplicating the whole DataMaillbox Connector directory :
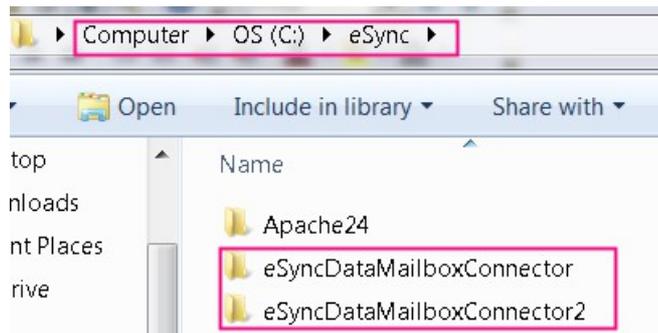
You then have to edit the file "installEsyncDmConnector.bat", replace the string "eSyncDmConnector" by "eSyncDmConnector#" where # is the instance number and save it.
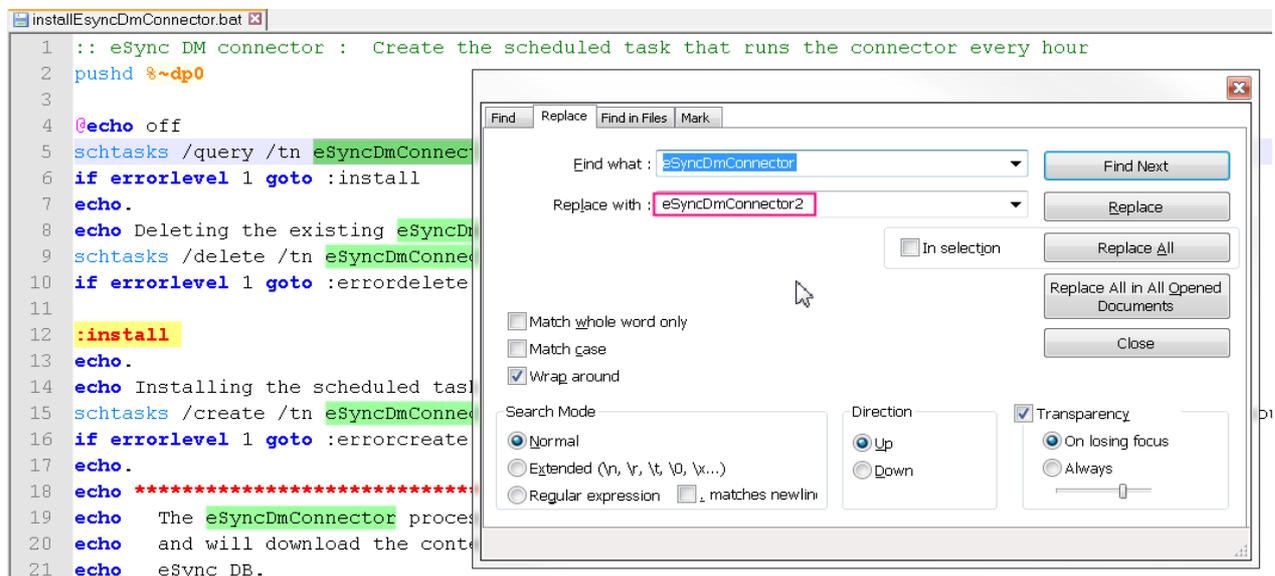
Finally, you just follow the same steps as explained above (config.ini and installEsyncDmConnector.bat execution).

Revision

Revision History

Revision Level	Date	Description
1.0	17/09/2015	Creation of document
1.1	21/06/2017	Changing the URL of the DM connector

Document build number: 66

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