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DIRECTORATE-GENERAL FOR MOBILITY AND TRANSPORT
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European Product Registry for Energy Labelling (EPREL)

User Guide - 04 Model registration - System-to-system

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1. TABLE OF CONTENTS

1.1. Document History

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1.2. Bibliography

[1] EPREL, *Business Glossary*, 2016.

[2] EPREL, *REGULATION (EU) 2017/1369 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2017 setting a framework for energy labelling and repealing Directive 2010/30/EU (Text with EEA relevance).*

[3] EPREL, User Guide - 02 Model registration - File upload.

[4] EPREL, User Guide - 01 Supplier Registration, 2018.

[5] EPREL, XML Exchange Model, 2018.

1.3. Abbreviations and Glossary

See document "EPREL – Business Glossary" [1]

In this document, the "Regulation (EU) 2017/1369" [2] is also mentioned as "Regulation".

2. INTRODUCTION AND PURPOSE

"REGULATION (EU) 2017/1369 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2017 setting a framework for energy labelling and repealing Directive 2010/30/EU" (hereafter called the 'Regulation') [2] requires the European Commission (EC) to establish a product database where all new models (including second hand imported models), covered by a delegated act (Energy Labelling regulation) have to be registered before they are placed on the EU market for the first time:

Article 12
Product database

1. *The Commission shall establish and maintain a product database consisting of a* ***public part****,* ***a compliance part*** *and* ***an online portal*** *giving access to those two parts. The product database shall not replace or modify the responsibilities of the market surveillance authorities.*
2. *The product database shall serve the following purposes:*
    a. *to support market surveillance authorities in carrying out their tasks under this Regulation and the relevant delegated acts, including enforcement thereof;*
    b. *to provide the public with information about products placed on the market and their energy labels, and product information sheets;*
    c. *to provide the Commission with up-to-date energy efficiency information for products for reviewing energy labels;*
3. *The public part of the database and the online portal shall contain the information set out in points 1 and 2 of Annex I respectively which shall be made publicly available. The public part of the database shall meet the criteria in paragraph 7 of this Article, and the functional criteria set out in point 4 of Annex I.*
4. *The compliance part of the product database shall be accessible only to market surveillance authorities and to the Commission and shall contain the information set out in point 3 of Annex I, including the specific parts of the technical documentation as referred to in paragraph 5 of this Article. The compliance part shall meet the criteria in paragraphs 7 and 8 of this Article, and the functional criteria set out in point 4 of Annex I.*
5. *The mandatory specific parts of the technical documentation that the supplier shall enter into the database shall cover only:*
    a. *a general description of the model, sufficient for it to be unequivocally and easily identified;*
    b. *references to the harmonised standards applied or other measurement standards used;*
    c. *specific precautions that shall be taken when the model is assembled, installed, maintained or tested;*
    d. *the measured technical parameters of the model;*
    e. *the calculations performed with the measured parameters;*
    f. *testing conditions if not described sufficiently in point (b).*

    In addition, the supplier may upload additional parts of the technical documentation on a voluntary basis into the database.
6. *When data other than those specified in paragraph 5 or not available in the public part of the database would become necessary for market surveillance authorities and/or the Commission for carrying out their tasks under this Regulation, they shall be able to obtain them from the supplier on request.*
7. *The product database shall be established in accordance with the following criteria:*
    a. *minimising the administrative burden for the supplier and other database users;*
    b. *user-friendliness and cost-effectiveness; and*
    c. *automatic avoidance of redundant registration.*
8. *The compliance part of the database shall be established in accordance with the following criteria:*
    a. *protection from unintended use and the safeguarding of confidential information by way of strict security arrangements;*
    b. *access rights based on the need-to-know principle;*
    c. *processing of personal data in accordance with Regulation (EC) No 45/2001 and Directive 95/46/EC, as applicable;*
    d. *limitation of data access in scope to prevent copying larger data sets;*
    e. *traceability of data access for the supplier with regard to its technical documentation.*
9. *The data in the compliance part of the database shall be treated in accordance with Commission Decision (EU, Euratom) 2015/4431. In particular, the specific cyber-security arrangements of Commission Decision (EU, Euratom) 2017/462 and its implementing rules shall apply. The*

confidentiality level shall reflect the consequential harm resulting from disclosure of the data to unauthorised persons.

10. *The supplier shall have access and editing rights to the information it enters in the product database pursuant to Article 4(1) and (2). A record of changes shall be kept for market surveillance purposes, keeping track of the dates of any editing.*
11. *Customers using the public part of the product database shall be able to easily identify the best energy class populated for each product group, allowing them to compare model characteristics and to choose the most energy efficient products.*
12. *The Commission shall be empowered to specify, by means of implementing acts, the operational details of the product database. After consulting the Consultation Forum provided for in Article 14, those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 18(2).*

ANNEX I

INFORMATION TO BE ENTERED IN THE PRODUCT DATABASE AND FUNCTIONAL CRITERIA FOR THE PUBLIC PART OF THE DATABASE

1. Information to be entered in the public part of the database by the supplier:
(a) the name or trademark, address, contact details and other legal identification of the supplier;
(b) the model identifier;
(c) the label in electronic format;
(d) the energy efficiency class(es) and other parameters of the label;
(e) the parameters of the product information sheet in electronic format.

2. Information to be entered in the online portal by the Commission:
(a) contact details of Member State market surveillance authorities;
(b) working-plan pursuant to Article 15;
(c) minutes of the Consultation Forum;
(d) an inventory of delegated and implementing acts, transitional measurement and calculation methods and applicable harmonised standards.

3. Information to be entered in the compliance part of the database by the supplier:
(a) the model identifier of all equivalent models already placed on the market;
(b) the technical documentation as specified in Article 12(5).
The Commission shall provide a link to the Information and Communication System on Market Surveillance (ICSMS), which includes the outcome of compliance checks performed by Member States and provisional measures adopted.

4. Functional criteria for the public part of the product database:
(a) each product model shall be retrievable as an individual record;
(b) it shall generate a single viewable, downloadable and printable file of the energy label of each model, as well as the linguistic versions of the complete product information sheet, in all official languages of the Union;
(c) the information shall be machine readable, sortable and searchable, respecting open standards for third party use, free of charge;
(d) an online helpdesk or contact point for the supplier shall be established and maintained, clearly referenced on the portal.

This document "EPREL - User Guide – 04 Model registration - System-to-system" tries to guide a Supplier user in the process of connecting its eDelivery Access Point and uploading a batch of multiple models into his Supplier Organisation using the system-to-system functionality.

3. System-to-system

The process of uploading a bunch of models automatically into a supplier organisation by a supplier will be explained step by step in a simplified way.

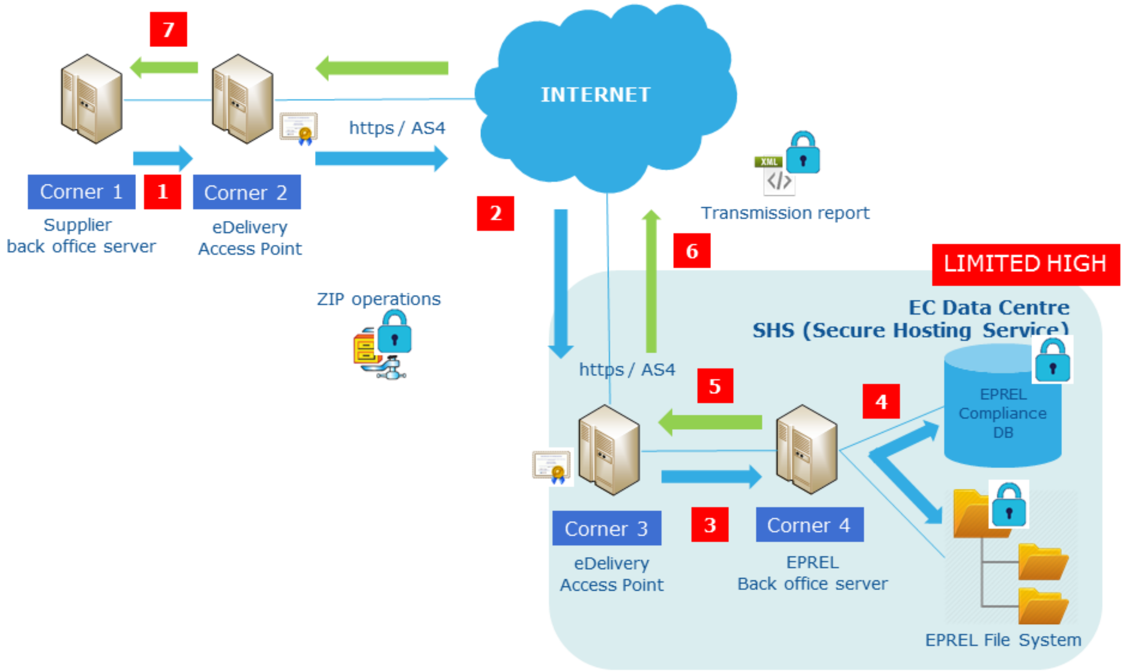

Figure 1 System-to-system architecture

The image shows the basic architecture of a system-to-system connection sending a message from the Supplier's system (corner 1) using the supplier's Access Point (corner 2), and sending the message to EPREL Access Point (corner 3), where it will be received by EPREL system (corner 4) and processed.

A transmission report is produced and sent back following the same process but in the opposite direction.

3.1. Connectivity test

The first step is to connect the eDelivery Access Points and testing the connectivity, sending and receiving test messages.

To connect follow the next steps.

3.1.1. Fill request form

In order to connect the Supplier's Access Point to EPREL Access Point to be able to send messages using eDelivery supplier will have to fill the "EPREL - S2S - Identification form" following the instructions included in the same form. It can be found at:

https://webgate.ec.europa.eu/fpfis/wikis/display/EPREL/eDelivery+Documentation

3.1.2. *Request connectivity to EPREL team*

Once supplier has the form filled, it can be sent to:

ENER-EPREL-HELPDESK@ec.europa.eu

3.1.3. *Validation of request by EPREL team*

On reception of the request connection form. EPREL team will validate it and start the internal procedures if accepted.

3.1.4. *Creation of system-to-system user for the supplier by EPREL team*

Once request is accepted, EPREL team creates an EPREL user that will be assigned to the Supplier Organisation requesting connection.

This user will have the information of the Party ID of the Supplier's Access Point. This will allow EPREL to know to which organisation assign the product models received in a message identified by this Party ID.

3.1.5. *Transfer of the request to EU Send*

EPREL team will then transfer your request to EU Send team asking them to connect your Access Point using the Party ID defined before.

EU Send is the team in charge of managing the Access Points using eDelivery.

EU Send will contact the supplier requesting connection to ask for any additional necessary information (i.e. certificates).

3.1.6. *EU Send connects the supplier Access Point*

Finally, EU Send with all the information gathered will connect the supplier's Access Point to EPREL Access Point.

3.1.7. *Test connectivity*

EU Send will ask the supplier to perform some connectivity tests, to validate that the connection is correct. For doing so, some preconfigured messages will be sent from Supplier to EPREL Access Point. These messages have nothing to do with real EPREL messages; they have different content and are only valid to test that messages flow correctly from supplier Access Point to EPREL Access Point and vice versa.

3.2. EPREL system-to-system functionality test

If supplier has arrived to this point successfully, it means that its system is connected and ready to send and receive messages using eDelivery. It is time to test that system-to-system works properly.

For doing it, follow the next steps.

3.2.1. Prepare ZIP file

System-to-system upload of models will be done by sending a ZIP file containing an XML with all the models to be created in the database and all the attachments (labels, technical documentation) to be uploaded to the file storage of EPREL.

This ZIP file is what it is called "the payload". This file will be the same as when using manual file upload, but it will be enveloped in a message that will contain transport data following AS4 specification to be able to be sent using eDelivery.

For more information about how to prepare a ZIP file, see the document "EPREL – User Guide – 02 Model registration - File upload" [3], you can find it at:

https://webgate.ec.europa.eu/fpfis/wikis/display/EPREL/EPREL+Guidelines

3.2.2. Send ZIP file

Send the message containing your ZIP file using your supplier's Access Point to EPREL (as you did with the connection test messages).

3.2.3. EPREL process ZIP file

EREP runs an automatic process regularly (approx. every 5 minutes) which checks the EPREL Access Point for messages received. It takes the messages in the order of arrival and then it process them.

Processing the message consists in extracting the payload (ZIP file) from the message received. Taking any identification necessary from the message (i.e. Party ID). Finally processing the ZIP file to execute the operations included in the XML and assigning the product models to register/update to the supplier organisation of the EPREL user who has the Party Id specified (created by EPREL team at 3.1.4).

3.2.4. EPREL sends transmission report

Once the process is finished, EPREL will produce a transmission report in XML format, which will be sent back to the supplier's Access Point using eDelivery, encapsulated in a message.

For more information about the content of the transmission report, see the same document "EPREL – User Guide – 03 File upload", you can find it at:

https://webgate.ec.europa.eu/fpfis/wikis/display/EPREL/EPREL+Guidelines

3.2.5. Receiving transmission report

Supplier's Access Point will receive the message with the transmission report and then it has to route it to the supplier's back office system.

The supplier's system is in charge of interpreting this message and showing it to the user in a readable way.

3.2.6. Verify results

To verify the results of the transmission, you can do the following.

3.2.6.1. Receiving transmission report

Interpret the transmission report received in XML (see 3.8.4) and see if it has been done successfully or with errors.

3.2.6.2. Verify that file has been received and processed using EPREL user interface

Login to EPREL with your own user and visit the page "Uploads page". Apart from all the "Manual" uploads that your organisation has done, you can also see the "S2S" system-to-system uploads, which are those send as explained.

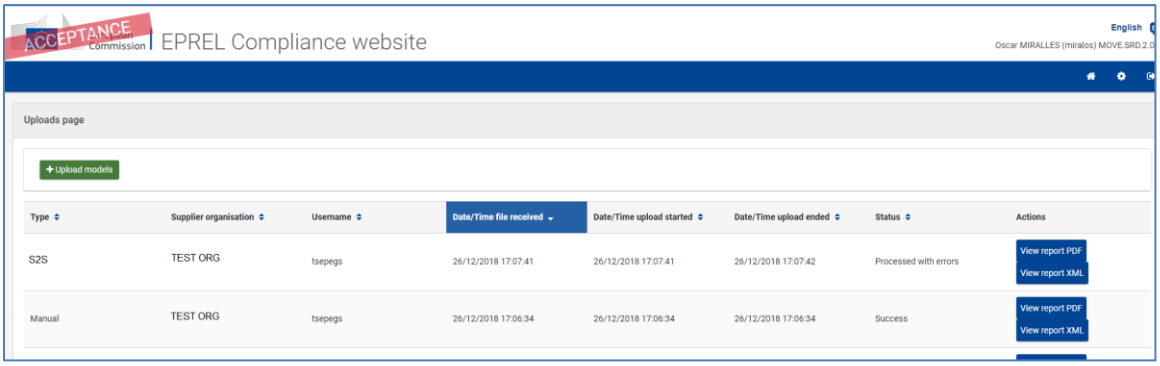

Figure 2 Uploads page

Open the transmission report in PDF format and see the results.

3.2.6.3. Verify that models have been created using EPREL user interface

Login to EPREL using your own user and visit the page for the product groups where your product models were expected to be registered. Search in the list of product models to see if they exist now in the results list.

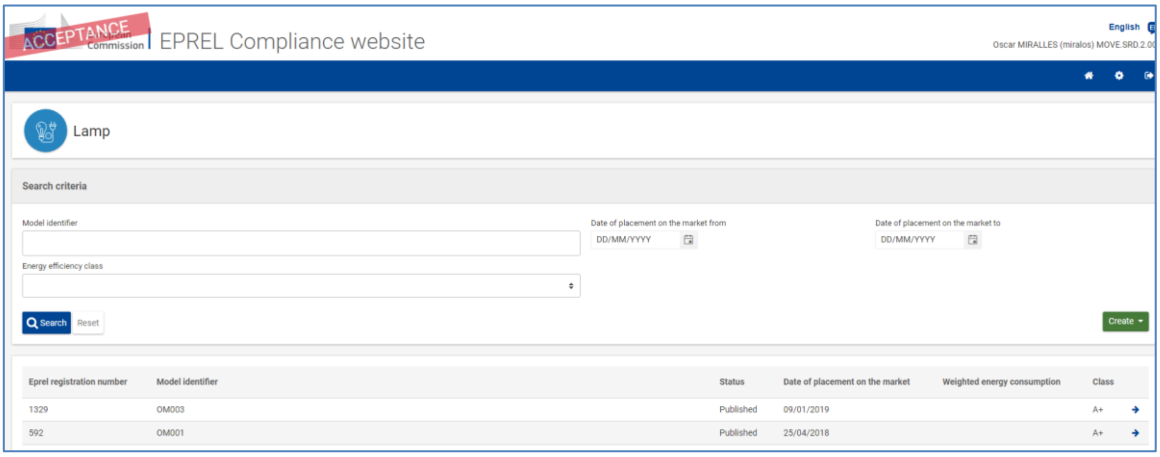

Figure 3 Lamps search screen

4. Example ZIP files

There are many examples of ZIP files with all the possible combinations of XML’s in the EPREL Forum:

https://webgate.ec.europa.eu/fpfis/wikis/display/EPREL/EPREL+Guidelines