



This project is funded
by the European Union



Energy Efficient Compliant Products - EEPLIANT3 [GA: 832558]

WP2 - Development and implementation of IT tools supporting market surveillance for
ecodesign and labelling

Call for proposals - IT development and services

1 Background

EEPLIANT3 (Energy Efficiency Compliant Products 2018) is a pan-EU Concerted Action on market surveillance and funded by the European Union with duration from June 2019 until November 2023.

The EEPLIANT3 Concerted Action is coordinated by PROSAFE together with the Austrian Energy Agency and Vores Bureau. The project consortium is composed of 24 Market Surveillance Authorities (MSAs) and 5 organisations from the following countries: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, France, Germany, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Portugal, Slovenia, Spain, Sweden and Turkey.

The objective of this Concerted Action is to help deliver the intended economic and environment benefits of the framework Regulation for Energy Labelling 2017/1369 and Ecodesign Directive 2009/125 by increasing the rates of compliance with them.

This will be achieved through the coordination of the monitoring, verification and enforcement activities of MSAs and other organisations across the Single Market plus Turkey and through further enhancing their knowledge, skills and experience.

More Information about the pan-EU Concerted Action is available online:

<https://www.eepliant.eu/index.php/new-about-eepliant/about-eepliant3>

2 Development of IT tools

Within one of the work packages of EEPLIANT 3 (Work Package 2) IT tools will be developed or adapted and made available with the aim of transforming the efficiency, effectiveness and productivity of market surveillance authorities across the EU.

One of these IT initiatives is the adaptation of a tool created under the previous action EEPLIANT2 identified as “upload to ICSMS tool”. This tool, split between two apps is described in Specifications of the present tool and expected changes, allows A) for project participants to record data in an online server, and B) for this data to be processed, exported, and uploaded into the EC’s DG GROW ICSMS database.



This project is funded
by the European Union



ICSMS (Information and Communication System on Market Surveillance)¹ is an online IT platform hosted by DG GROW to work as a nexus in which national Market Surveillance Authorities can share information on non-compliant products.

The database is split between DRPI (Directive Related Product Information) categories that gather data according to the specificities of different products and legislations. The “standard” is the Generic DRPI, but additional DRPIs for more specific groups of products are being developed and launched. Some examples of data fields hosted there are:

ICSMS Field ID	ICSMS Field Name	Required?	Remarks/Permissible values
GEN 2	Status	Yes	Permissible values: •Draft •Completed •Possibility for an appeal exists •Subject of an appeal •On Hold / Paused •Investigation Started
GEN 7	Processing Member State	Yes	Only English names of the Member States are accepted.
GEN 10	Date of Creation	Yes	The value has to be a date in the format DD-MM-YYYY.
GEN 20	Distributor(s)	No	Address information. Free text.

Table 1 Examples of data fields in ICSMS

3 Specifications of the present tool and expected changes

A description of the tool including technical specifications, details, and explanation of the requested services are presented below.

Term	Definition
Workbook	A file that contains one or more worksheets. Equivalent to the term “Workbook” in Microsoft Excel.
Worksheet	A page with a collection of fields where you write and edit data, formulas, etc. Equivalent to the term “Worksheet” in Microsoft Excel.
Field	A cell that contains an item of information. Equivalent to the term “Field” in Microsoft Excel.

Table 2 Glossary

The “Upload to ICSMS” tool consists of two elements, hereby described individually with their technical specifications at the end:

- Web app for data collection and,
- Windows client for data upload.

¹ <https://webgate.ec.europa.eu/icsms/>



This project is funded by the European Union



3.1 Web app for data collection (IT Data Collection and Storage System).

A web app allows a spreadsheet-like interface to be used for the recording of data on an online database. The encoded data is then processed through the use of Excel-like formulas and references, consolidated into a single Worksheet containing the full set of data to be uploaded, and exported into a local environment. It follows the structure below.

Web app			
Workbook A		Workbook B	
Worksheet A.1	Worksheet A.2	Worksheet B.1	Worksheet B.2
Datafields (...)	Datafields (...)	Datafields (...)	Datafields (...)
Datafields (...)	Datafields (...)	Datafields (...)	Datafields (...)
Workbook A - ICSMS		Workbook B - ICSMS	

Table 3 Structure of datasets in the IT Data Collection and Storage System

“The EEPLIANT2 data collection and storage system” is a web application optimised for use on a PC. Users having valid and correct user IDs and passwords can access the system from their browser using the correct URL.

The system has two sides as shown in Figure 1 Structure of the IT Data Collection and Storage System:

A “front end” that is accessed by the inspector and resembles a spreadsheet with rows and columns. The Inspectors will enter the inspection data here - one row for each product. Each inspector can only access his or her own inspection data to simplify the process for them (that way there is no need for them to go over the data of other inspectors, which is not necessary for their role).

And a “Back end” where the Facilitator can set up the system and undertake a number of system administrative tasks.

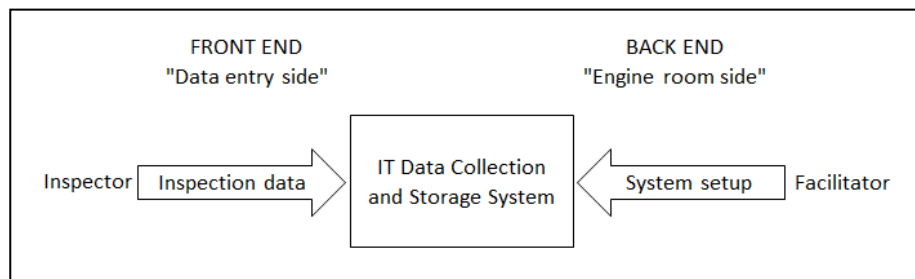


Figure 1 Structure of the IT Data Collection and Storage System

3.1.1 The back end of the web app for data collection

After logging in, the Facilitator role can create and edit the spreadsheets within each defined workbook, as well as review and/or export the recorded data. They can adapt the “cells” to use formulas or references and work on the recorded data to adapt it into the required format for upload.



This project is funded
by the European Union



The facilitator also has the capacity to modify or add data as needed, with access that can be granted to each workbook and allows them to work on the data recorded by each Inspector.

Search...

Torben Rahbek ▾

Change fields
Change fields of "Product info (product-info-3)"

🏠 / Spreadsheets / Cold Domestic Appliances WP4 (cold-domestic-appliances-wp4) /

Fields

	Field name	Data types	Choices <small>Options for dropdown field; (Enter separated)</small>	Formula / Fixed value <small>Formula for formula field / Fixed value</small>	Width <small>Field width</small>	Text alignment <small>Possible values: center, left, right</small>	Required	
☰	File no.	Text		//	220	left	<input type="checkbox"/>	<input type="checkbox"/>
☰	Product mode	Text		//	220	left	<input type="checkbox"/>	<input type="checkbox"/>
☰	Manufacturer	Text		//	220	left	<input type="checkbox"/>	<input type="checkbox"/>
☰	Product Numk	Text		//	220	left	<input type="checkbox"/>	<input type="checkbox"/>
☰	Supplier	Multiple lines of text		//	220	left	<input type="checkbox"/>	<input type="checkbox"/>
☰	Distributor	Multiple lines of text		//	220	left	<input type="checkbox"/>	<input type="checkbox"/>
☰	Reason for sel	Text		//	220	left	<input type="checkbox"/>	<input type="checkbox"/>
☰	Comments (of	Multiple lines of text		//	220	left	<input type="checkbox"/>	<input type="checkbox"/>

© Prosafe, 2019 - 2020

Figure 2 View from the Facilitator's section

3.1.2 The front end

After logging in (through a PC web browser, with multiple of them supported) the Inspector role has access to their assigned workbooks where they can record and modify their own data. They do not get access to the data of other inspectors.

Search... ReadMe How to use Legislation ICSMS inspector1

Inspection data

Inspection data

	Product info	CE declaration	CE marking	EEL label class part 1	EEL label class part 2	Fulfilment of ecodesign reqts	Label Tech doc	Energy Label Product Fiche	Conclusion	ICSMS
	A	B	C	D	E	F	G	H	I	
	File no.	Product model name	Manufacturer / brand	Product Number	Supplier	Distributor	Reason for selection	Comments (optional)		Proce Men Sta
1										Denmi
2										Denmi
3										Denmi
4										Denmi
5										Denmi
6										Denmi
7										Denmi
8										Denmi
9										Denmi
10										Denmi
11										Denmi
12										Denmi
13										Denmi
14										Denmi
15										Denmi
16										Denmi
17										Denmi
18										Denmi
19										Denmi
20										Portug
21										Portug
22										Portug
23										Portug
24										Portug

Lommeregner DTI test to cover different © Prosafe, 2019 - 2020

Figure 3 View from the Inspector's section

3.1.3 Technical characteristics of the web app

- Based on Python - Django framework.
- Excel-like interface achieved by means of a Javascript plugin.
- Database uses .sqlite3 system.

Used Python packages

beautifulsoup4==4.6.0
 certifi==2020.4.5.1
 chardet==3.0.4
 click==7.1.2
 cssutils==1.0.2
 Django==2.2.12
 django-appconf==1.0.4
 django-colorful==1.3
 django-compressor==2.4
 django-modelcluster==4.4.1
 django-multisafepay==1.1.1
 django-recaptcha==2.0.6
 django-taggit==0.24.0
 django-treebeard==4.3.1
 django-widget-tweaks==1.4.8
 djangorestframework==3.11.0
 draftjs-exporter==2.1.7
 gTTS==2.1.1
 gTTS-token==1.1.3



This project is funded
by the European Union



```
html5lib==1.0.1  
idna==2.9  
libsass==0.20.0  
Pillow==6.2.2  
python-dateutil==2.8.1  
pytz==2020.1  
rcssmin==1.0.6  
requests==2.23.0  
rjsmin==1.1.0  
roadrunner==2.1.1  
six==1.15.0  
sqlparse==0.3.1  
Unidecode==1.1.1  
urllib3==1.25.9  
uwsgidecorators-fallback==0.0.3  
wagtail==2.6  
wagtail-bootstrap-customizer==1.0.1  
wagtail-metadata==3.1.0  
wagtailfontawesome==1.2.1  
webencodings==0.5.1  
Willow==1.1
```

3.2 Windows client for data upload

A windows client (native app) takes the data gathered under the previous step and uploads it to the ICSMS database through its API.

The MS Excel file exported at the end of the previous step contains all the final data worksheets defined for each workbook for upload to ICSMS. In these worksheets, the data columns share the nomenclature of the destination data fields at the ICSMS database. The Windows Client connects with this database's API and, with said orientations for instruction, uploads the data as collected. E.g. it takes a data point from the column defined as ECO21 and uploads it to the ICSMS database under the ECO21 data field.

The key element is to ensure that the uploaded data shares the strict formatting requested by the ICSMS data fields. This is achieved by setting input requirements for each individual field.

The full list of ICSMS data fields to be modified will be shared with the winning bidder together with the rest of documents and files, but it may cover from free text to pre-determined data types such as dates or codes from a pre-defined list.

Technical characteristics - Based on Python:

Used Python packages

```
altgraph==0.17  
appdirs==1.4.3  
attrs==19.3.0
```



This project is funded
by the European Union



```
cached-property==1.5.1
certifi==2019.11.28
chardet==3.0.4
defusedxml==0.6.0
future==0.18.2
html5lib==1.0.1
idna==2.9
isodate==0.6.0
Jinja2==2.11.1
lxml==4.5.0
MarkupSafe==1.1.1
pefile==2019.4.18
Pillow==7.0.0
PyInstaller==3.6
PyPDF2==1.26.0
pytz==2019.3
pywin32-ctypes==0.2.0
reportlab==3.5.42
requests==2.23.0
requests-toolbelt==0.9.1
six==1.14.0
urllib3==1.25.8
webencodings==0.5.1
xhtml2pdf==0.2.4
xlrd==1.2.0
zeep==3.4.0
```

4 Expected modifications:

PROSAFE is looking forward to adapt the existing “upload to ICSMS” tool to be used for the upload of the data gathered under the ongoing EEPLIANT3 Concerted Action. The planned modifications are of a very limited scope and consist of the following:

4.1 For the web app for data collection (IT Data Collection and Storage System)

The following modifications are expected:

- Allowing for the setting of new worksheets. The current web app has a pre-established set of three workbooks used for the gathering of data under EEPLIANT2. The product areas covered are domestic refrigeration, professional refrigeration and network standby connected equipment. The interface should be adapted to make it possible by the administrator to create new workbooks and store them in the hosted database for future fulfilment and export.
- Assistance in the transfer of the online database. The web app and linked database is currently hosted in the servers of the original developer. We would be interested in



This project is funded
by the European Union



transferring the SQLITE3 database from their servers to the one maintained by our IT provider.

4.2 For the windows client for data upload

Assistance in the modification of the windows native client for the upload of new data fields (Energy DRPI). The tool was originally designed with the objective of uploading data into the ICSMS data fields defined under the “generic DRPI (Directive Related Product Information)”. This is the interface of the database for generic product types. However, in 2021 it was updated to include an interface specifically for products under the Energy Labelling Directive.

The practical effect is that, while the overall structure remains the same, the data fields have been updated to reflect the reality of this new type of products. Some of the data fields are virtually the same and only need to be renamed in the Windows client coding (From “GEN” to “ECO” code descriptors); others are new or have experienced changed in the type of data that they collect.

As the data that we will need to upload under EEPLIANT3 corresponds to this new product category, we need to adapt the Windows Client to work with it instead of the previously used “generic” structure.

This would involve:

- a. Review of the modifications to the requested data fields and types.
- b. Either:
 - A) Adaption of the fields to the new framework by the bidder itself; or
 - B) Instruction or training to PROSAFE staff on how to modify by ourselves.

Ideally the bidder should provide quotations for both options, with the understanding that the second one should be of lower cost.

Important to note: The Windows Client itself is already functional, and the requested modifications affect exclusively the naming of the API fields to reflect the latest changes. The current setup was already designed with the easy adaptation of fields in mind.

5 Financial Proposal Requirements

PROSAFE is VAT registered as taxable person established in Belgium with VAT number BE 0809.226.854. Therefore, all quoted prices should be in Euro and without VAT.

Terms of offer must be valid for acceptance (or negotiation) for at least 1 month from submission.

The bidder should quote its prices broken down per described task following the structure of the table below, with the actual cost based on a pre-defined hourly rate.

Task description (per point 4)	Amount of hours	Hourly rate	Total
1. Adapting interface to make the creation of new “workbooks” possible	[XXX]	€[XXX] per hour	€[XXX]



This project is funded
by the European Union



2. Assistance in the transfer of online database	[XXX]	€[XXX] per hour	€[XXX]
3. Adaptation of Windows Client to new Energy DRPI			
a) By the bidder, or	[XXX]	€[XXX] per hour	€[XXX]
b) By PROSAFE, with training from the bidder	[XXX]	€[XXX] per hour	€[XXX]

6 Proposal documentation

The proposal shall comprise:

- **Digitally signed Declaration of Honour** - model present on the website at following address: <https://eepliant.eu/index.php/news/34-news/news-items/168-eepliant3-wp2-call-for-proposals>
- Brief overview of your organisation.
- Portfolio overview showing previous projects developed by the bidder and related either in topic or scope to the one covered by this call.
- Section confirming your understanding and acceptance of the scope, development objectives, framework in use, and the overall requirements for the delivery of this service. Additional observations or comments are welcome, but the proposal should be in line with the requirements described under point 4.
- Financial proposal per the specifications covered under point 5.

7 Questions about this specification

Any questions of clarification or other queries about the call for proposals requirements or specification must be submitted in writing to eepliant3@prosafe.org AND info@prosafe.org, and copied to Torben.Rahbek@Prosafe.org with the subject header 'URGENT: Question for EEPLIANT3 WP2 Call for Proposals - Adaptation of "Upload to ICSMS'. Verbally addressed questions cannot be answered, in fairness to all bidders.

Questions must be received by Monday 11 October 2021, 09:00 CET.

Anonymised question(s) and response(s) will be circulated to bidders who registered their interest and circulated by email to all initially contacted bidders, unless they asked to be removed from the mailing list.

8 Proposal and contract timeline

The timeline of this call for proposals will be as follows:

1. Publication of the call for proposals	01/10/2021
2. Deadline for the submissions of questions	11/10/2021
3. Deadline for the submission of proposals	18/10/2021 - 9:00 CET



This project is funded
by the European Union



Proposals must be sent to PROSAFE via email to eepliant3@prosafa.org and info@prosafa.org with the subject header 'EEPLIANT3 WP2 Proposal - Adaptation of Upload to ICSMS tool' and copied to the Facilitator Torben Rahbek at Torben.Rahbek@Prosafa.org.

Offers received after Monday 18 October at 09:00 CET will be disregarded.

1. PROSAFE aims to notify bidders that failed the procedure shortly after.
2. PROSAFE will inform successful bidders at latest by Friday 29 October 2021.
3. Clarification of bid details and implementation options with preferred bidders will take place during the following week, until the signature of the contract expected by Thursday 11 November 2021.
4. The contracted services are expected to start by the end of November.

9 Standard terms and conditions for the contract

Please see the attached standard terms and conditions that will apply for the contract.

10 Further information

Further information regarding the task and the selection procedure can be obtained from the PROSAFE Office by writing an email to eepliant3@prosafa.org / info@prosafa.org

With best regards,

Ioana Sandu

Executive Director