

## Excel to Metrel ESM file converter

# Welcome!

This tool will help you convert your data in a .xlsx (Excel) file format to Metrel .padfx file format. You can then easily edit and/or view your data using the Metrel ES Manager or Metrel SDK software.

Continue

## Excel to Metrel ESM file converter instructions



Distributor:

Manufacturer:  
METREL d.d.  
Ljubljanska cesta 77  
1354 Horjul  
Slovenia

web site: <http://www.metrel.si>  
e-mail: [metrel@metrel.si](mailto:metrel@metrel.si)

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# 1 Dashboard screen

## Wizard

### General Settings

Number of lines to skip from top :

Work scope 1st level :

Work scope 2nd level :

### Structure objects Settings

> Node

Structure object type:

### Row Settings

Structure object type :

Parameter links

Parameter	:	<input type="text" value="Appliance ID"/>
Column letter	:	<input type="text" value="A"/>
Allow null or empty	:	<input type="text" value="False"/>
Column type	:	<input type="text" value="Text"/>

Figure 1 Dashboard screen of web service wizard - fixed part

<b>General Settings</b>	
Enables basic settings for creation of .padfx files.	
Number of lines to skip from top	Defines how many lines in the excel file will be skipped (starting, line 1).
Work scope 1 <sup>st</sup> level	Defines the master and child Work scope for created .padfx file. Correct Work scope must be selected in order to enable files transfer to the desired instrument.
Work scope 2 <sup>nd</sup> level	
<b>Structure objects Settings</b>	
Enables the creation of a basic structure, where the structural elements with relevant data will be imported.	
Structure object type	Enables selection of corresponding structural elements for the relevant structural level.
<b>Row Settings</b>	
Enables to define data structure from excel file, to be linked to the corresponding parameters of the selected structural element.	
<i>Parameter links</i>	
Each configuration is corresponding to relevant column from source excel file.	
Parameter	Enables selection of parameter linked to the corresponding structural element. Each parameter can be linked only to one column letter in the source excel file.
Column letter	Defines the column in the source excel file.
Allow null or empty	Defines criteria for specific cell. <u>True</u> = allows empty cells in specific column. <u>False</u> = forbids empty cells in specific column.
Column type	Defines criteria for specific cell. <u>Text</u> = cell data can contain letters, numbers, and special characters such as ! or &. <u>Date &amp; time</u> = cell data shall be in following format <i>dd.mm.yyyy hh:mm:ss</i> .
Add new...	Allows adding of the set parameters to the list.
Load configuration	Enables to load user configuration from file.
Save configuration	Enables to save set configuration to file.
Select an excel file and start conversion	Enables selection of source excel file, conversion to .padfx is started automatically if no exceptions are found.

Parameter : Group ▼

Column letter :

Allow null or empty : True ▼

Column type : Text ▼

Add new...

Parameter ID : Producer / Make [Id: 198] 🗑️

Column letter : D

Allow null or empty : True

Column type : Text

Parameter ID : Inventory No. [Id: 193] 🗑️

Column letter : C

Allow null or empty : True

Column type : Text

Parameter ID : Name [Id: 195] 🗑️

Column letter : B

Allow null or empty : True

Column type : Text

Parameter ID : Appliance ID [Id: 194] 🗑️

Column letter : A

Allow null or empty : True

Column type : Text

Figure 2 Dashboard screen of web service wizard - user defined part

<div style="border: 1px solid black; padding: 2px;"> <p>Parameter ID : Producer / Make [Id: 198] <span style="float: right;">🗑️</span></p> <p>Column letter : D</p> <p>Allow null or empty : True</p> <p>Column type : Text</p> </div>	<p>A field with user-set parameters, each section defines its own column in excel.</p>
<div style="border: 1px solid black; padding: 2px; text-align: center;"> <span style="font-size: 2em;">🗑️</span> </div>	<p>Allows removal of specific section.</p>

## 2 Importing example

First prepare the excel file, put the data into the correct format. Data shall be arranged in columns, all cells except dates shall be categorized as General. Cells containing dates shall be categorized as Date and formatted as *dd.mm.yyyy*.

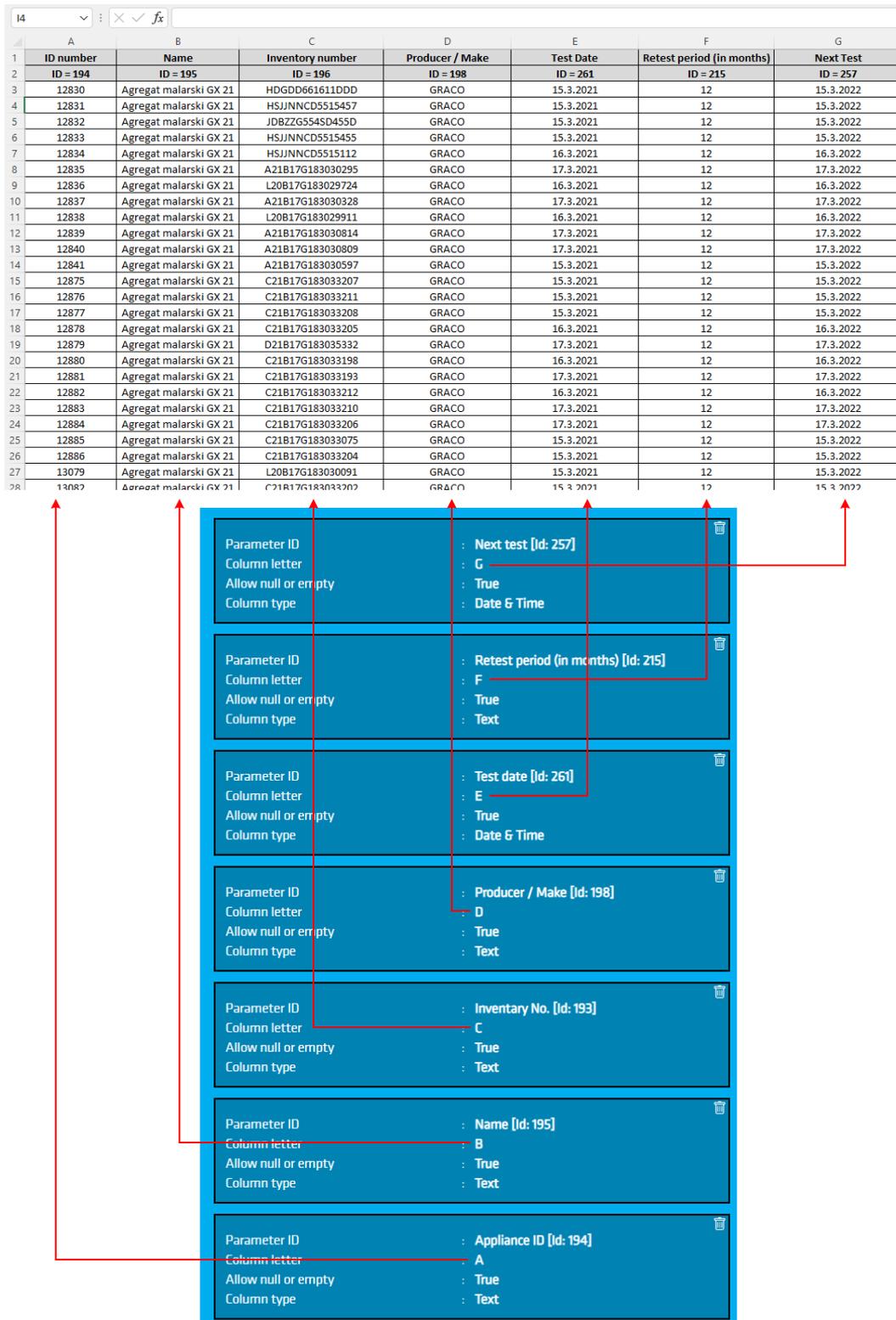


Figure 3 Correlation between Excel & Parameter links

The figure illustrates the data flow and configuration correlation between three systems:

- Excel Spreadsheet:** A table with columns: ID number, Name, Inventory number, Producer / Make, Test Date, Retest period (in months), and Next Test. It lists various 'Agregat malarski GX 21' units with their respective IDs, inventory numbers, and test dates.
- MESM Software Interface:** A window titled 'Demo datoteka HELP.padx - Metri ES Manager'. It features a 'Tree View' on the left showing a hierarchy of 'Set-Name' objects. A central table lists 'Appliance id', 'Structure Path', 'Name', 'Next test', and 'Test date'. A right-hand menu shows configuration options like 'Safety of LV Installations' and 'PAT (new instruments)'. Red lines connect the 'Name' column in the MESM table to the 'Name' column in the Excel spreadsheet.
- Wizard Configuration Window:** A 'Wizard' dialog with two sections:
  - General Settings:** Includes 'Number of lines to skip from top' (set to 2), 'Work scope 1st level' (set to 'Safety of Electrical Equipment I'), and 'Work scope 2nd level' (set to 'PAT (new instruments)'). Red arrows point from these settings to the corresponding MESM configuration menu.
  - Structure objects Settings:** Includes 'Structure object type' (set to 'Element'). Red arrows point from this setting to the 'Set-Name' objects in the MESM Tree View.

Figure 4 Correlation between MESM, Excel, and Wizard

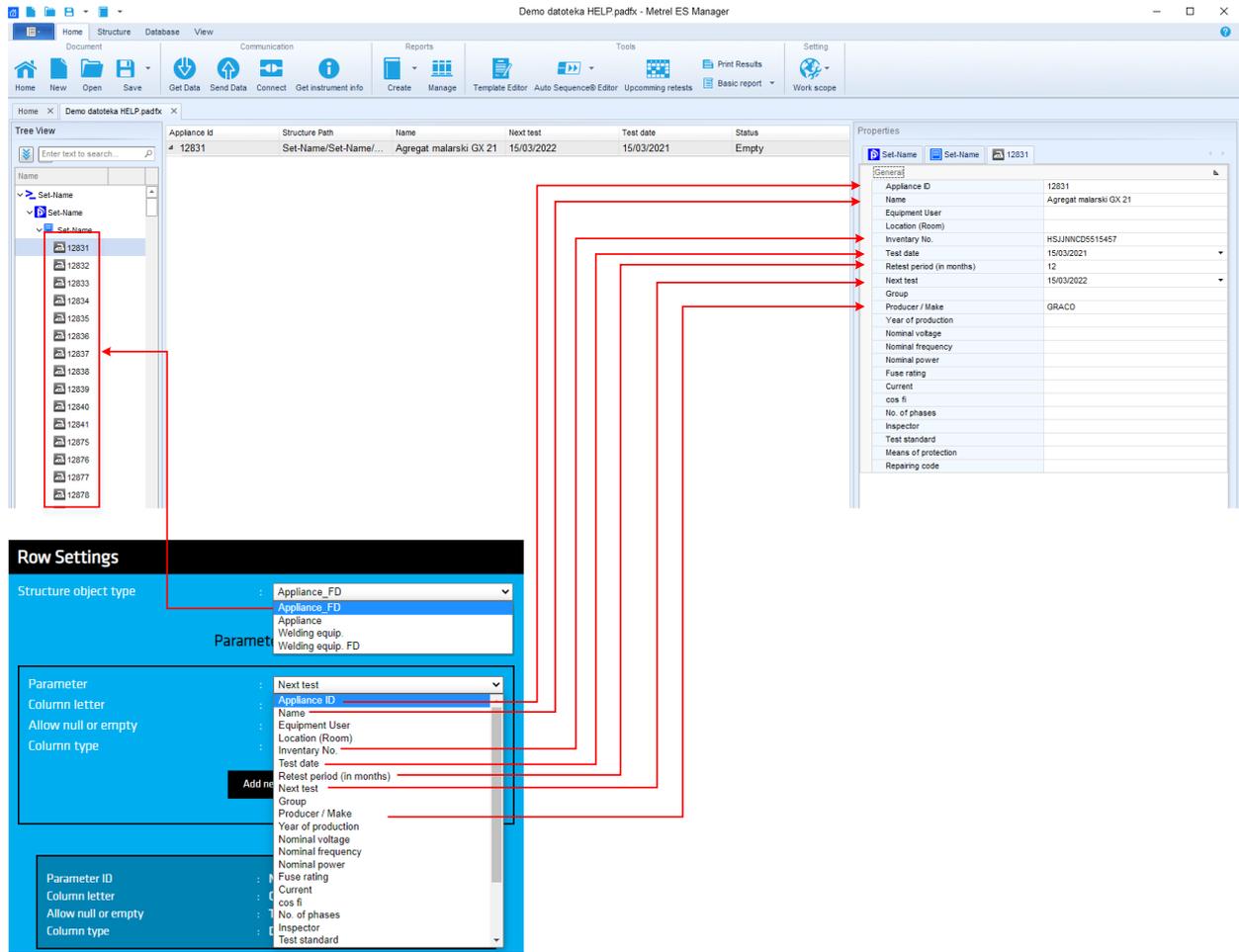


Figure 5 Correlation between MESM & Wizard