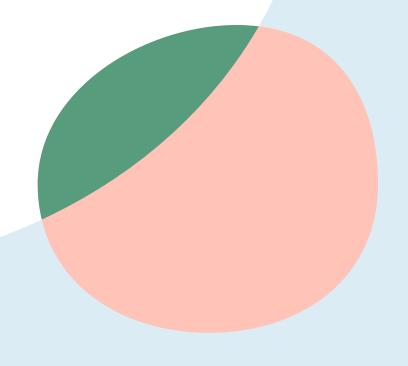
How to interpret the error log produced by Proteus





How to interpret the error log produced by proteus

If the proteus has failed to run, you will see the following output in your error log:

```
|
This file was created at: 08.Aug 2023 10:17:56

Error message: A worksheet starting with 'fOut_' (an F_Outputs sheet) was not found in worksheets
```

In this case you may have deleted sheets, which were hidden in the business plan tables, that are essential for us to process the data, or the file may have been corrupted during download. You should redownload the most recent business plan table, version 6, from the Ofwat website and populate it again without deleting any sheets.

```
*** Excel Sheet Name is: fOut_OUT ***

*** Data Validation Rule 1 *** Excel Sheet Name: fOut_OUT

Headers in Excel file should be in specific order and value. Headers are case sensitive.

Success, No Errors detected!

*** Data Validation Rule 2 *** Excel Sheet Name: fOut_OUT

Boncode find pattern using *Regex*. Reference (BON code) should consist of the following in sequence:
An upper case letter. Zero or more upper case letters or underscores. At least one digit. Zero or more number upper case letters, underscores, or digits.
No lower case letters. Boncodes must not contain \- character.

Success, No Errors detected!

**** Data Validation Rule 3 **** Excel Sheet Name: fOut_OUT

Reference (BON code) should have suffix _PR24

Success, No Errors detected!

**** Data Validation Rule 4 *** Excel Sheet Name: fOut_OUT

Data Type Checking. This verifies that the entered data has the appropriate data type
Unit Column must be less than 21 characters

Success, No Errors detected!

**** Data Validation Rule 5 *** Excel Sheet Name: fout_OUT

Data Type Checking. This verifies that the entered data has the appropriate data type
Description Column must be less than 230 characters
```

If proteus has successfully run the first few lines of the error log should resemble this

The full version of the error log can be found on GitHub. As seen above, each validation rule is run on each set of sheets, for example

```
*** Excel Sheet Name is: fOut_OUT ***

*** Data Validation Rule 1 *** Excel Sheet Name: fOut_OUT

Headers in Excel file should be in specific order and value. Headers are case sensitive.

Success, No Errors detected!
```

This means that all the sheets, which are named in the format (shown highlighted yellow) OUT[number], pass data validation rule 1.

Now, errors can occur for a magnitude of reasons, however, below are some of the common reasons why

Rule 1:

This checks that the headers, **Specifically the headers names Acronym, Reference, Item Description, Unit, Model,** are correctly named and in the right order. It is case sensitive.

This error occurs when one of the hidden sheets, named f_Out_[sheetnames], has been unhidden and the column header names have been altered. In this event, if it is not obvious which sheet has been altered and how it is recommended that you redownload a new business plan table and repopulated it, ensuring none of the hidden sheets are altered.

Rule 2:

The 'Reference' column contains 'Bon codes'. Every Bon code is a string of text. Fountain, Ofwat's database, requires that Bon codes follow a certain pattern (a 'regular expression'). This validation rule checks that the Bon codes consist of the following in sequence: an upper-case letter; zero or more upper case letters or underscores; at least one digit; zero or more number upper case letters, underscores, or digits; and no lower case letters. Bon codes must not contain \- characters.

This error is likely to have occurred by someone accidentally altering a bon code in one of the sheets, in the example below I simulated an error by adding a back slash into the expression:

```
*** Data Validation Rule 2 *** Excel Sheet Name: fOut_OUT8

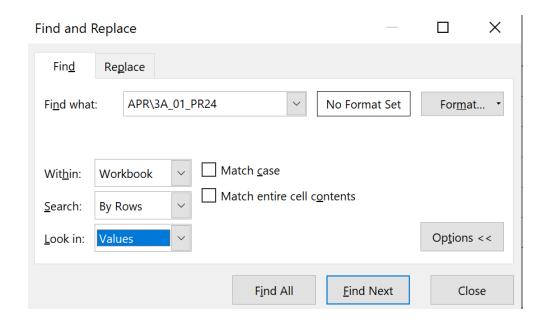
Boncode find pattern using *Regex*. Reference (BON code) should consist of the following in sequence:

An upper case letter. Zero or more upper case letters or underscores. At least one digit. Zero or more number upper case letters, underscores, or digits.

No lower case letters. Boncodes must not contain \- character.

Error in Row 4: 'Reference': APR\3A_01_PR24 doesn't match the regular expression
```

In this case you should copy the boncode, shown highlighted, go to your populated business plan table, and search for this by pressing Ctrl + f at the same time to search for the boncode, pasting the boncode into the 'find what:' entry as shown below, ensuring that the 'Within' option is set to Workbook, and 'Look in:' set to values.



Pressing 'Find All' should take you to two options, press the one that does NOT begin with fOut, and it'll take you to where your error is. Note down the sheet and cell number.

Populated2A.xlsx	fOut_OUT8	\$B\$4	APR\3A_01_PR24	='OUT8'!AA10
Populated2A.xlsx	OUT8	\$AA\$10	APR\3A_01_PR24	

To find the correct boncode entry, download a new business plan table from the Ofwat website and look in the same sheet and cell number as where the error was, and find the correct boncode.

Rule 3:

This checks that all the Bon codes in the 'Reference' column have the suffix "_PR24". This error occurs similarly to rule 2, when someone has altered a boncode within the sheets. To remedy follow the same procedure as shown in rule 2

Rule 4:

This checks that data in the 'Unit' column is less than 21 characters. This error is likely to have occurred by accidentally altering the unit entry in one of the sheets. The error

Error in Row 13: Reference: OUT2_07_PR24: Unit must be <=21 characters</pre>

log will show you the corresponding boncode where the error is (note the boncode, shown highlighted, will change depending on where the error is).

To source the error, copy the boncode from the error log, and search for this by pressing Ctrl +f at the same time to search for the boncode, pasting boncode into the 'find what:' entry, and ensuring that the 'Within' option is set to Workbook, and 'Look in:' set to values. Pressing 'Find All' Should take you to two options, press the one that does NOT begin with fout, and it'll take you to the sheet and row where the error is. Scrolling left should show you the error. Cross reference this with the business plan table on the Ofwat website to correct it.

Rule 5:

This checks that data in the 'Description' column is less than 230 characters. This error can be remedied in the same way as Rule 4.

Rule 6:

This checks that values (that is, anything under the 'Years' headers) entered by the user are formatted correctly. For example, if the 'Unit' column is named as Text, the user should enter a string, not a number.

This error occurs when the entry in a cell is not what is expected, i.e. a number has been inputted into a cell where text was expected. This error most often occurs due to incomplete data, as can be seen in the log on GitHub named 'ErrorLog_Empty BPT', as Proteus expects to see text, however, there is nothing inputted. If it is the case that there is no relevant data to add in this text field (for example the sheet relates to an item that a water only company would not need to fill in), then simply ignore these error messages. If data is meant to be filled in here, to remedy this, go to the row and column specified in the error log and ensure that the correct data has been inputted.

Rule 7:

This error checks for alterations in the boncodes. To remedy this, follow the procedure detailed in rule 2.

This checks if there is any alteration or deletion of Bon codes in the 'Reference' column. It does this by comparing the original Bon codes with the target Bon codes, where target Bon codes are those sent by the companies after data submission.

Ofwat (The Water Services Regulation Authority) is a non-ministerial government department. We regulate the water sector in England and Wales.

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