

# Procedure Writing – MET/CAL® Version 11.0

**FLUKE®**

Calibration



**Fluke179 - MET/CAL Editor**

File Edit View Debug Project Build Tools Window Help

Sub MET/CAL Version Check

Back Step (F11)

Fluke 179\_ (1 yr) CAL VER \_5500.mc Sub Display Copyright.mc Step (F11)

```
1.019 ENDLF
1.020 RSLT      =
1.021 HEAD      {AC VOLTS}
1.022 RSLT      =
1.023 HEAD      -2{ 600 mV Range}
1.024 TARGET
1.025 DISP      Rotate the UUT function switch to OFF then to VAC.
1.026 PIC        5500_17x_2k
1.027 5500      600 300.0mV      1% 0.3U      45H      SI

2.001 RSLT      =
2.002 HEAD      -2{ 6 V Range}
2.003 TARGET
2.004 5500      6 5.000V      1% 0.003U      500H      SI
3.001 5500      6 5.000V      2% 0.003U      1kH      SI

4.001 RSLT      =
4.002 HEAD      -2{ 60 V Range}
4.003 TARGET
4.004 5500      60 50.00V      1% 0.03U      45H      SI
5.001 5500      60 50.00V      2% 0.03U      1kH      SI
```

100 %

**Name Value**

|      |   |
|------|---|
| MEM  | 0 |
| MEM1 | 1 |

**Name Value**

|   |       |
|---|-------|
| A | False |
| B | False |
| C | False |
| D | False |
| F | True  |
| G | False |
| J | False |
| K | True  |
| L | True  |
| M | True  |
| N | False |
| P | False |

**String Registers**

| Name              | Value |
|-------------------|-------|
| MEM2              |       |
| @ReqMetCalVersion | 7.20x |
| @MetCalVersionOK  | 1     |
| @MeasMode         | TAR   |

**Solution Explorer**

Solution 'Fluke179' (1 project)

- Fluke179
  - 5500\_179\_TC.bmp
  - 5500\_17x\_2W.bmp
  - 5500\_17x\_CW.bmp
  - 5500\_17x\_hi\_amps.bmp
  - 5500\_17x\_lo\_amps.bmp
  - Fluke 179\_ (1 yr) CAL VER \_5500
  - Sub Display Copyright.mc
  - Sub High Voltage Safety Warning
  - Sub MET\_CAL Version Check.mc
  - Sub Select Verification Method (N

**Properties**

**Output**

Show output from: MET/CAL

Starting: Fluke 179\_ (1 yr) CAL VER \_5500.mc

**Error List**

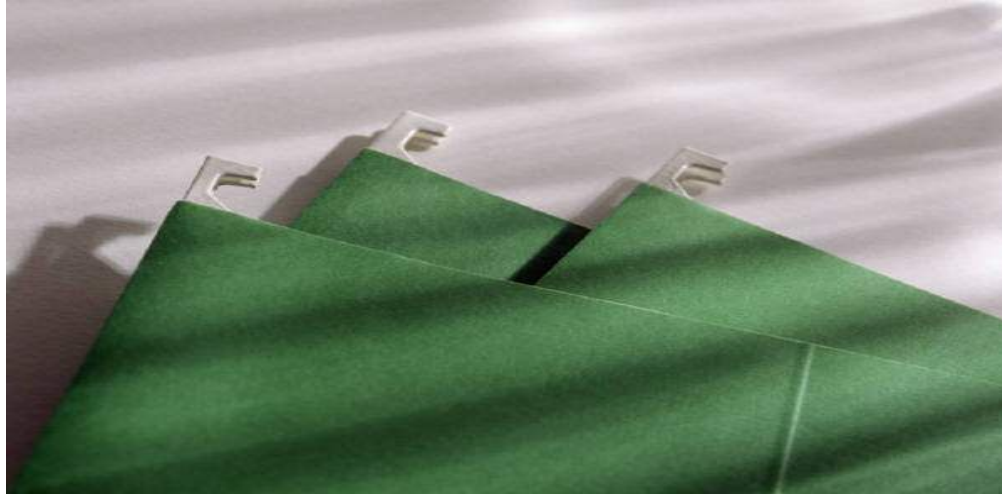
0 Errors 2 Warnings 0 Messages

| Description | File | Line | Column | Project |
|-------------|------|------|--------|---------|
|-------------|------|------|--------|---------|

Error List Test Run Status

Ln 120 Col 34 Ch 34 INS

Solution -



Project -



pros, pics, exes, etc

## OK so what is a ***Project***?

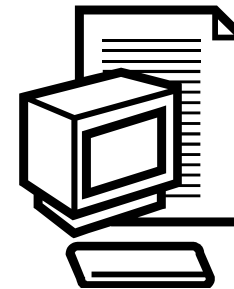
- Procedures, subs, images, executables, and other support files make up a ***project***.
- Users will edit or create files inside ***projects*** not unlike editing or creating individual procedures in older versions of Met/Cal.
- Multiple projects can be linked to one ***solution***
- One project can be linked to multiple ***solutions***.

- More about Projects:

- An important element in a project is its Property Page.
  - A project definition is not complete without it.
- The Property Page is where you tell Met/Cal what file type you want to publish (save as PXE or PKM).
- It is also where you specify a file name, package date, copyright, author, version, choose whether or not it has been validated and by whom and add comments.

- Definition: Publish

- Publish in the MET/CAL Editor environment, means to save a file in such a way that it can be run from MET/CAL Runtime.
- You can publish a single procedure.
- You can publish multiple procedures





- File Types and more on Publishing

- The editor can publish projects to PXE files

- A PXE is a Procedure Executable

- A PXE file cannot be changed unless you have the source Project file.

- The editor can publish individual procedures.

- Any individual procedure will carry the extension type of .mc while being viewed in MET/CAL Editor.

- Regardless of whether it is part of a Project/Solution or not.

- File Types and more on Publishing

- Individual procedures can still be published to the existing procedure directory.
  - procedures that are not part of projects/solutions\* can still be edited and published as procedures).
- Existing procedures can be published and imported into projects
- Any pre-existing procedure that was in your directory prior to an upgrade to version 8 will fall into this category.



## • File Extensions Glossary

- .mc
  - Text Source code for a procedure
    - If you are editing a procedure file in MET/CAL Editor – you are editing it in a text formatted file that carries an extension of “mc”.
    - This “.mc” file is THE source code for the procedure.
- .mcproj
  - MET/CAL Project
- .mcsln -
  - MET/CAL Solution

- How do I start – to create a project?

- From MET/CAL Editor, Click “File” and “New” “Project from an existing Procedure”
- Lets use the procedure we just edited.
- Select a procedure you want to work on by clicking “find”.
- Highlight “MET/CAL Project” under “Installed Templates”
- Type a name in the “Name” field at the bottom of the screen.
- Note that the Solution Explorer now has the project you names and the procedure file selected right below – again with the extension .mc

- Creating a Project/Solution

- Repeat the editing steps.
- Publish the procedure.
- If you choose you can publish the Project now
  - Either in addition to the procedure – or instead of
- If you have more than one procedure file in a project, publishing the project will publish all of the files in a batch at one time.
- Or if you have multiple files in multiple Projects in a single Solution – you can just publish the Solution.

- Starting completely from scratch?

- Select “File” “New”, “Procedure File”.
- Type in a name.
- Write your procedure, compiling and publishing as you go, or as you need.
- Then follow the steps in earlier slides to publish it as part of a Project and ultimately a Solution and we are back where we started.
- There are a couple of ways to accomplish this task.
  - This is the way that will feel most like the older MET/CAL Editor method.

**Fluke179 - MET/CAL Editor**

File Edit View Debug Project Build Tools Window Help

Sub MET/CAL Version Check

Fluke 179\_ (1 yr) CAL VER \_5500.mc Sub Display Copyright Step (F11)

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Starting: Fluke 179\_ (1 yr) CAL VER \_5500.mc

**Error List**

0 Errors 2 Warnings 0 Messages

| Description | File | Line | Column | Project |
|-------------|------|------|--------|---------|
|-------------|------|------|--------|---------|

Error List Test Run Status

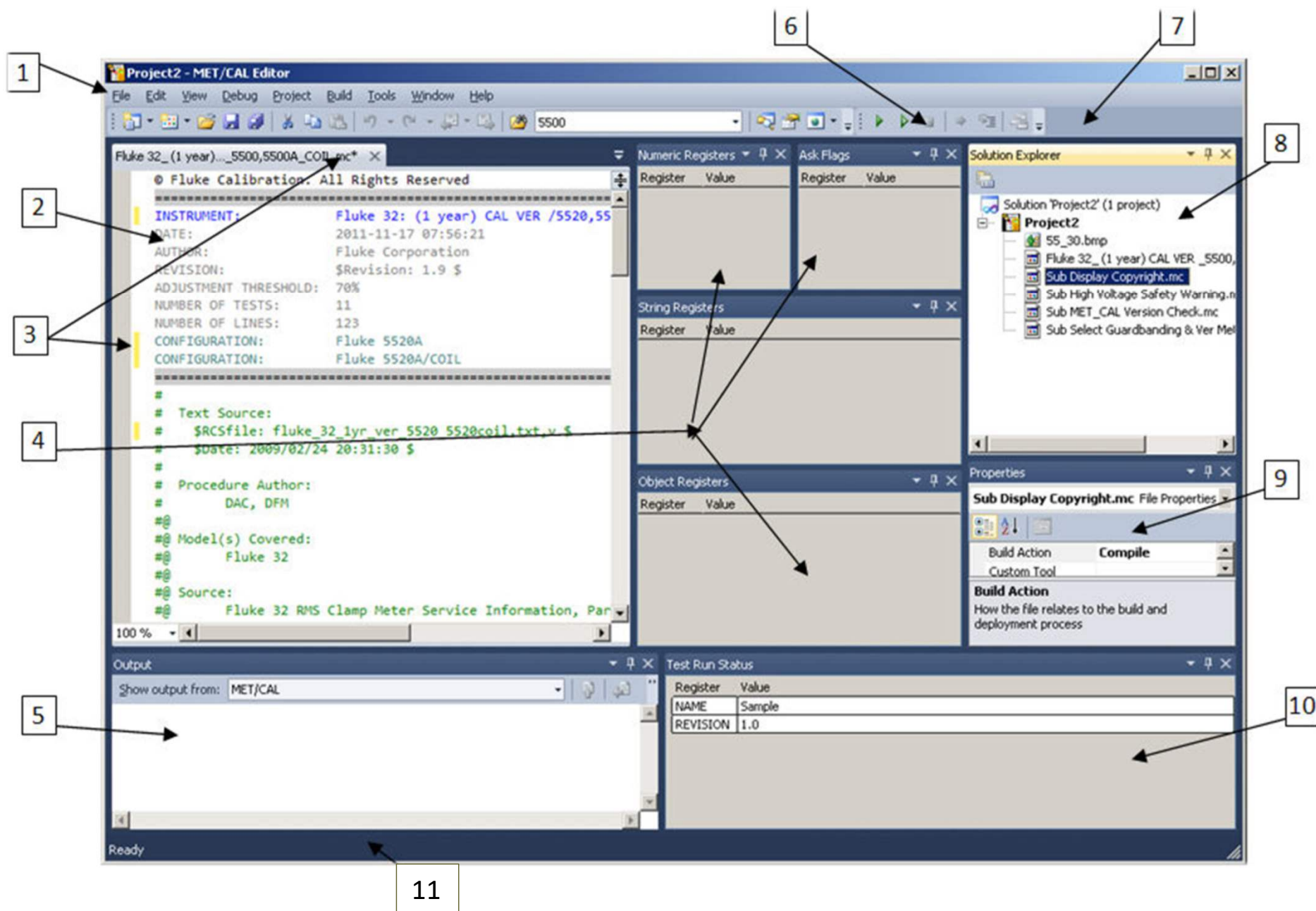
Ln 120 Col 34 Ch 34 INS

# **MET/CAL Procedure Editor**

The MET/CAL Editor is a development tool for creating, editing and maintaining MET/CAL procedures.

Version 8.0 of the MET/CAL Editor is all new and incorporates many features requested in earlier versions of MET/CAL.

The editor is built around the Microsoft Visual Studio Isolated Shell which is at the center of all development using Microsoft tools (C#, C++, VB.NET, etc).

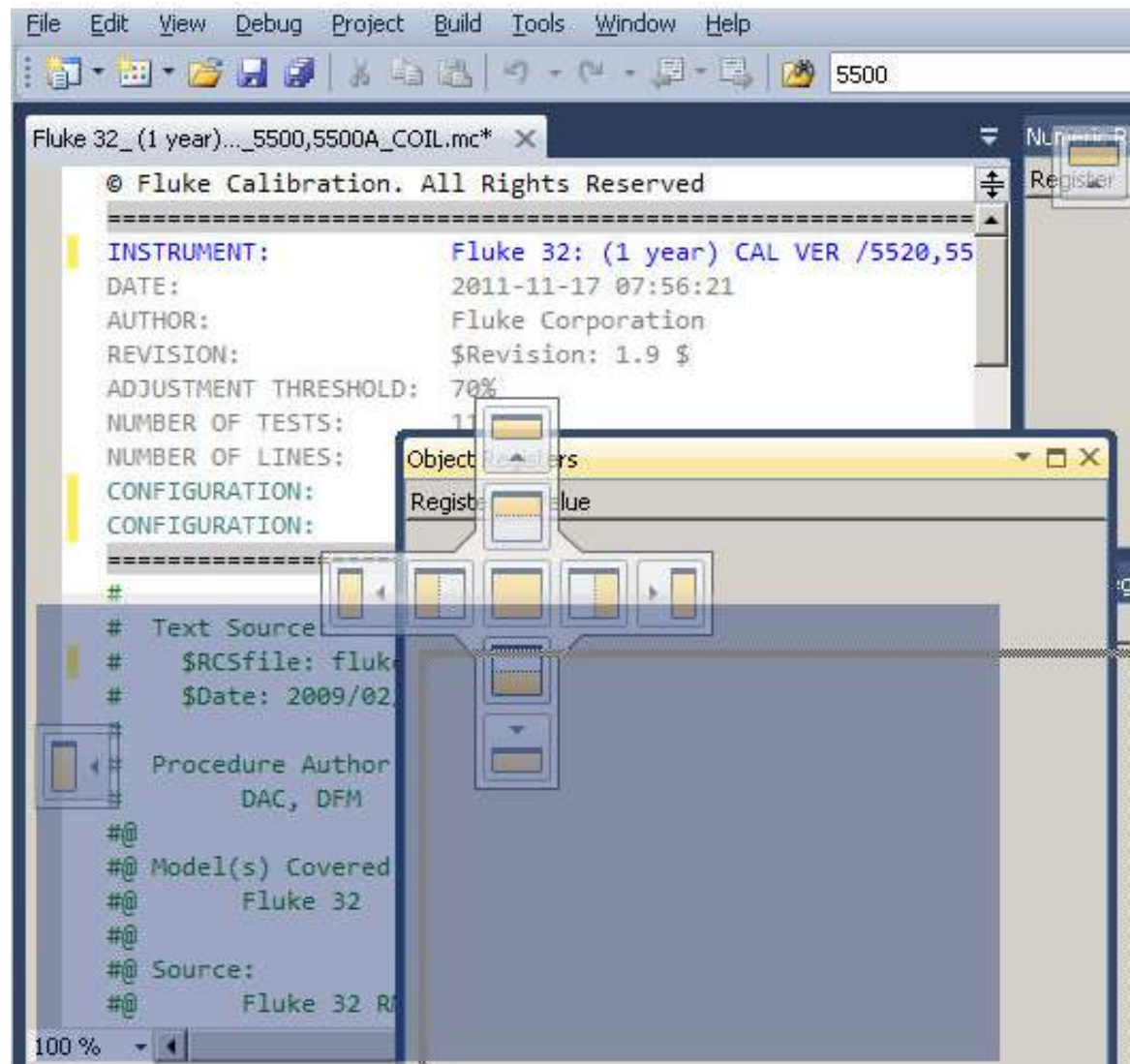




# Customizing the Editor Display

1. The editor has a very flexible environment that provides features to customize it's look and feel.
2. Each window within the editor can be docked to other windows side by side, top and bottom or as a tab.
3. Individual windows can also be configured to float outside the window of the editor itself.
4. The screen layout of the editor persists between uses of the program.
5. After the display is customized, it will remain the same for all subsequent runs of the editor.

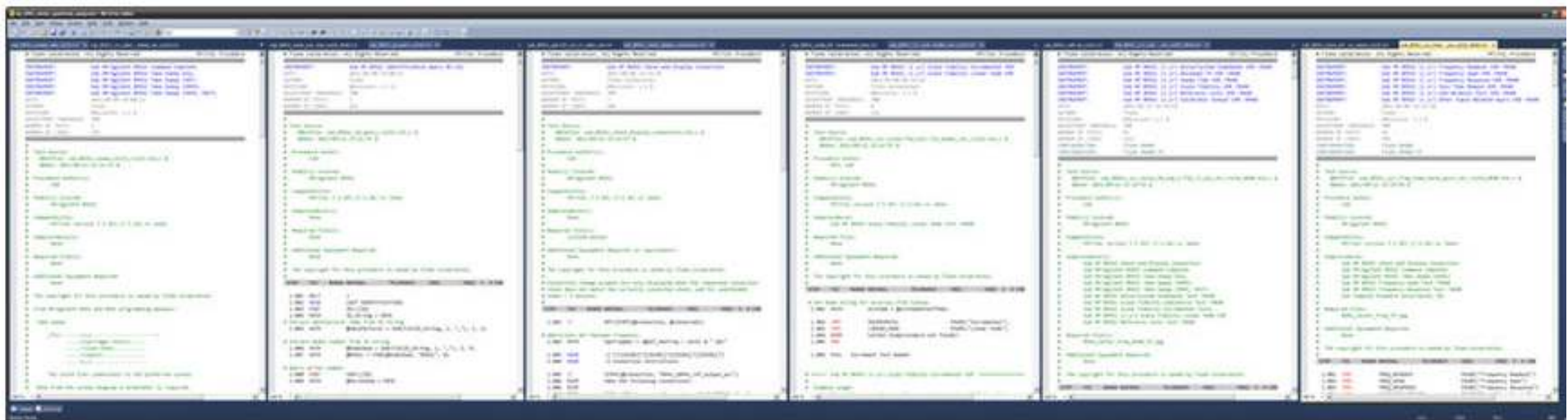
# Docking Windows



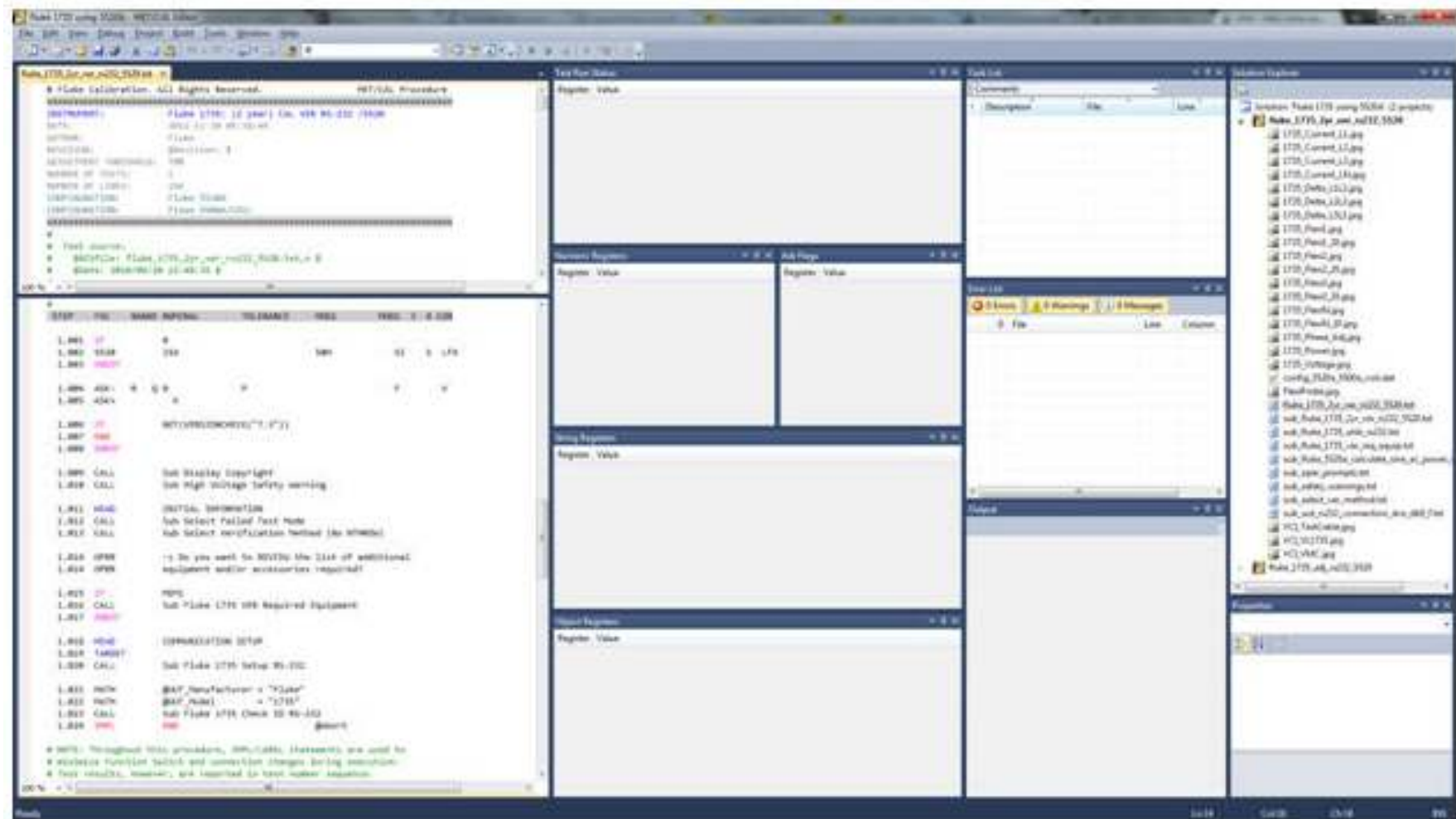
# Different Window Configurations

The Editor is configurable for many different display configurations

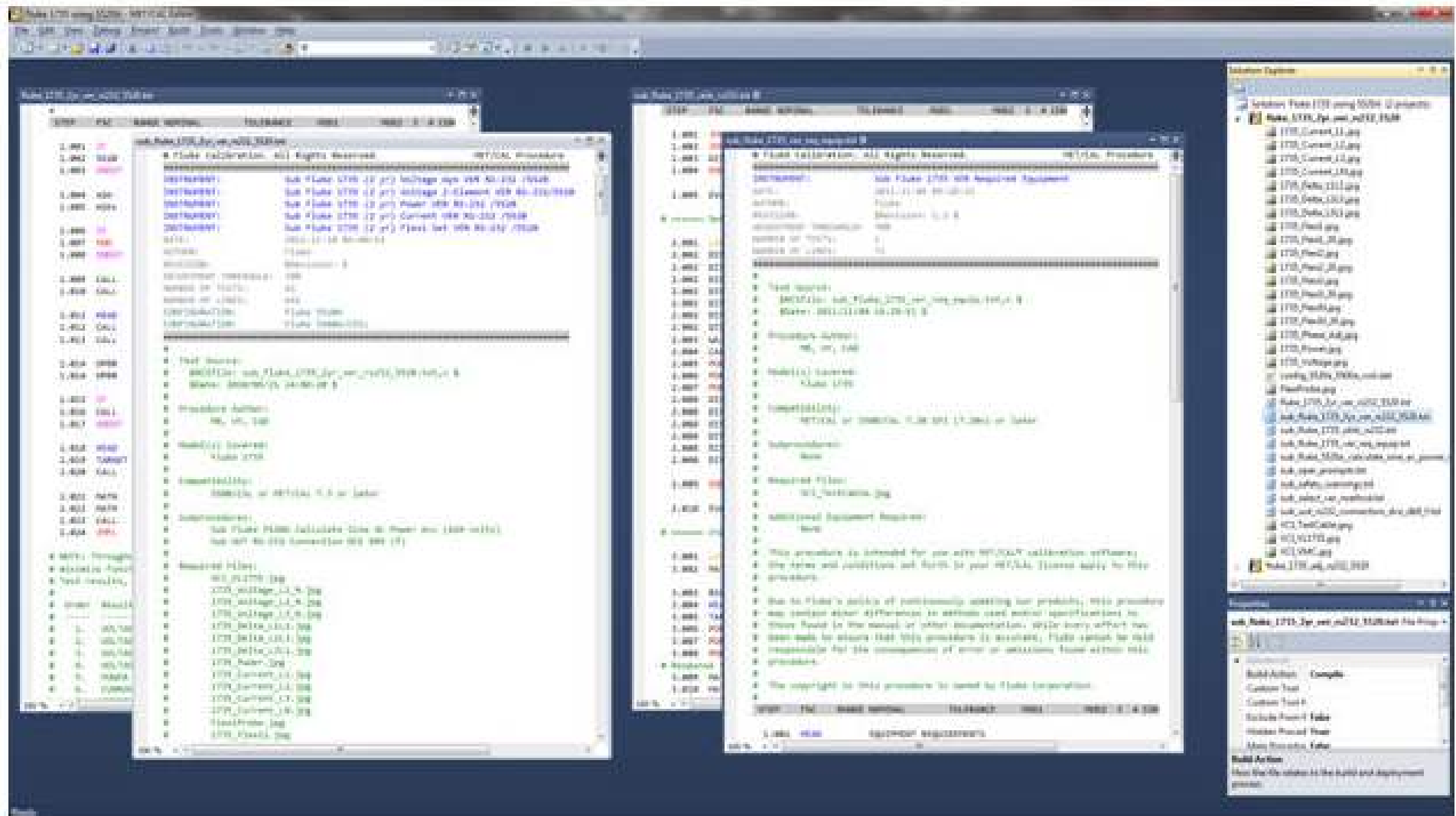
Two Monitors – Multiple Procedures



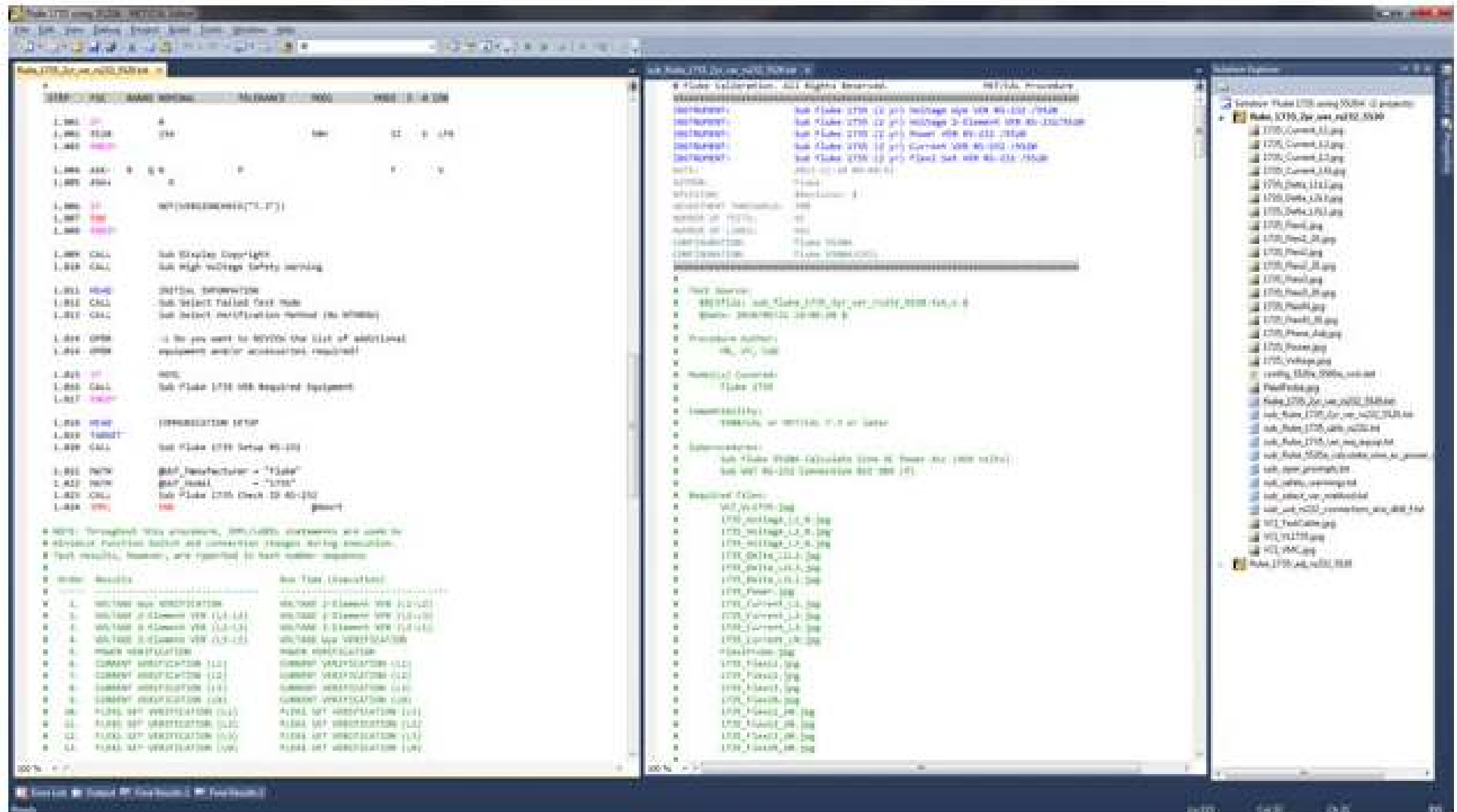
# Single Monitor – Split Procedure plus Other Views



# Single Monitor – Floating Windows



## Single Monitor – Minimized Tool Views



## What is a MET/CAL Procedure?

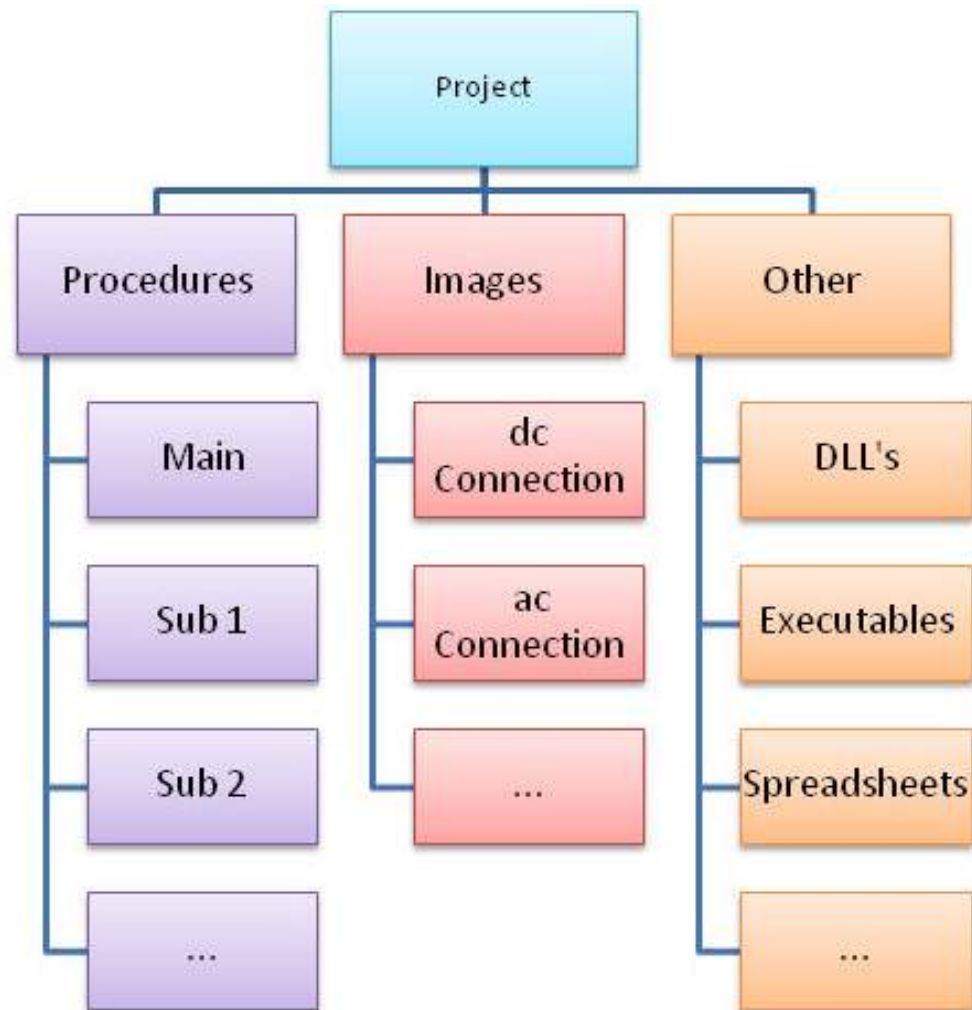
1. MET/CAL operation is centered around procedures.
2. They are used by the MET/CAL Runtime program to perform a calibration.
3. Created, edited and maintained by the MET/CAL Editor
4. A MET/CAL procedure is a file containing MET/CAL commands called Function Select Codes or FSC's.
5. Procedures are written for specific instruments and follow the manufactures' written calibration procedure



# Projects and Solutions

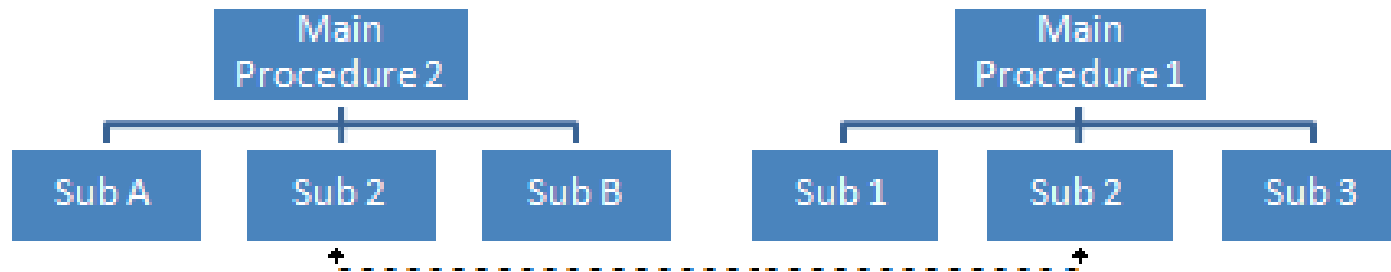
1. Version 8.0 introduces a new capability called Projects.
2. All of the components that make up a Project are saved to a single file called a Procedure Executable.
3. The file is easily distributed to other workstations or other labs.
4. The file cannot be altered and the contents cannot be viewed.
5. The project keeps all of the project's building blocks together within the project.
6. Without a project, it is up to the procedure author to ensure that all dependent files are located in the folders specified by the metcal.ini file.

# What is a MET/CAL project?



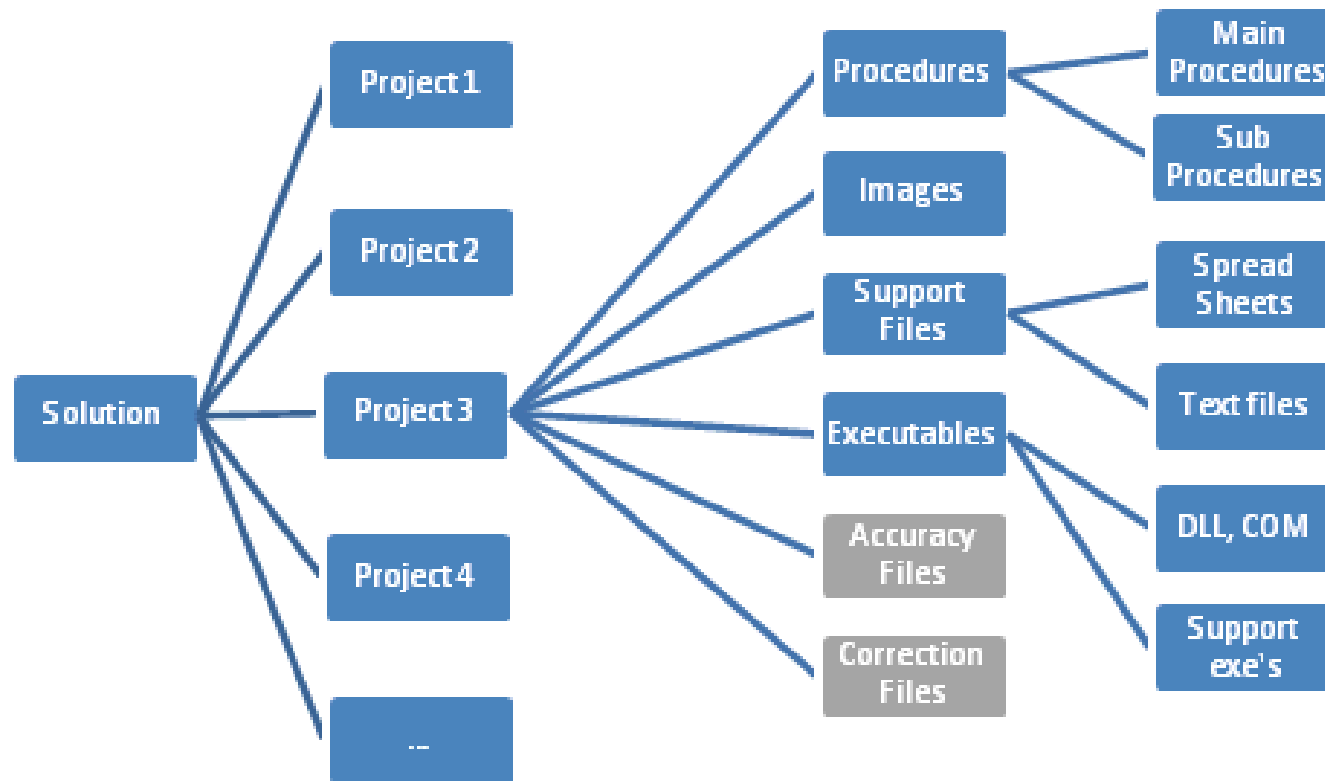
# The MET/CAL project

## Managing sub-procedures



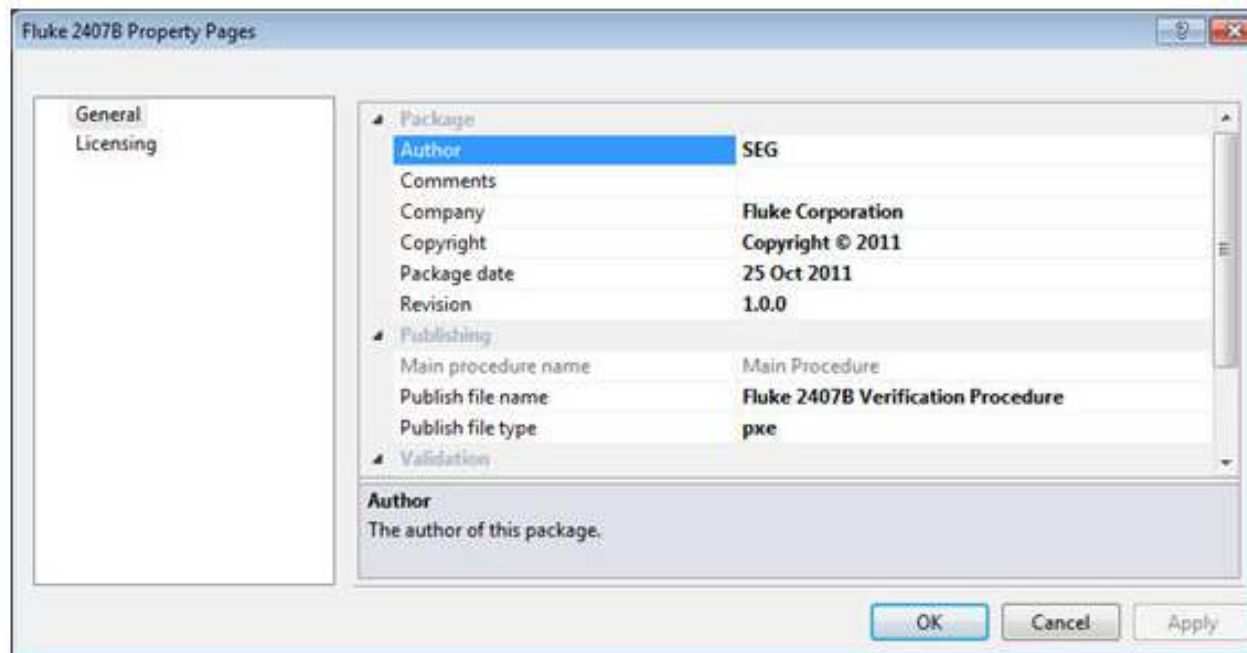
In previous versions of MET/CAL, sub-procedures were often shared among several procedures. This sometimes created problems.

# Solutions



# Project Properties

1. All Projects have properties
2. The menu is named based on the active project selected
3. Project properties are provided to associate information with all files in the project



# Properties Fields Explained

| Field               | Definition   |
|---------------------|--|
| <b>General</b>      |  |
| Author              | Enter the name of the person or group responsible for creating the procedure.  |
| Comments            | Text used to describe the overall purpose of the procedure or any special actions that should be taken when using the procedure.   |
| Company             | Name of the company that owns the procedure  |
| Copyright           | The copyright date of the procedure package.   |
| Package Date        | The date stamp of the procedure. When importing procedures, this is the date field of the main procedure. The field must be manually updated by the user.  |
| Revision            | The version of the procedure package. Use the version for tracking and control purposes  |
| Main Procedure Name | The name of the main procedure file. Each procedure package can have only 1 main procedure. The main procedure file is selected by using the file properties dialog for the actively selected file in a procedure project.   |
| Publish File Name   | The default file name of the procedure package.  |
| Publish File type   | <p>The package type:</p> <ul style="list-style-type: none"> <li>• PXE- Procedure Executable file. PXEs can be directly executed by MET/CAL</li> <li>• PKM- Procedure Package file. Used for distribution of procedure source. A PKM cannot be run by MET/CAL. The files must be imported into the editor and republished for use by the Run Time. This is a legacy option provided for compatibility with prior versions of MET/CAL. Distribution of procedure source is simplified by the Source zip file added to the \bin directory of a project during the Build process.</li> </ul> |

## Properties Fields Explained, continued

|                    |  |
|--------------------|--|
| Validated          | True/False field to indicate if a procedure has been validated. Use the option to flag to PXE users when a procedure is acceptable to execute.   |
| Validated by       | The person(s) or group that verified the procedure.  |
| Validation comment | Use the field to indicate the type or level of validation. "Z540.3, ISO17025" for example. There are no limits or specific requirements for the comment.   |
| Validation date    | The date that the package was validated. This date does not have to correspond   |
| <b>Licensing</b>   |  |
| License GUID       | The Globally Unique Identifier for the procedure executable. This item is used with a license file to create a proprietary PXE.<br><del>Licensed PXEs cannot be used without the appropriate license file. The license file mechanism is proprietary and is not publicly available in this release of MET/CAL.</del> |
| Licensed by        | The name of the organization that is providing the license.  |
| Licensed procedure | True/False to indicate if the procedure is licensed or not.  |
| Licensed to        | The name of the organization that is authorized to use the PXE.  |



# Building and Publishing

## Procedures Without Projects

1. Procedures developed outside of projects do not support the build operation.
2. These procedures are edited, debugged then published.
3. Any procedure opened with the File, Open Procedure option is opened outside of a project.
4. However, files in a procedure project can also be published as individual compiled procedure files.
5. Only procedures that compile can be published.

1. Open an existing procedure using the File, Open Procedure menu choice, or create a new procedure with CTRL+N or File, New Procedure.
2. Add text to the instrument line, and edit the procedure content.
3. Press F9 to Compile Check the procedure. This process ensures that all procedure content is valid and that the procedure can be compiled.
4. Test Run the procedure by using F5. Use the Debug Toolbar or short-cuts to control the debug process.
5. Repeat steps 2-4 until the procedure meets expectations.
6. Publish the procedure using the Build, Publish Procedure(s) or Build, Publish Procedure(s) To option to add the procedure to the compiled procedure directory.
7. Use the Procedure Selector to hide procedures that should not be accessible by the Run Time.
8. Use the MET/CAL Run Time, Calibrate menu to launch the published procedure.

# Building Procedure Projects

The Build and Publish process does the following:

Verifies that all procedures in the project compile without errors. Warnings do not prevent a compiling. Reference the Output window to view build process errors. The Status bar also updates with general progress information.

Scans each procedure and verifies procedures referenced in CALL statements are in the project. Even files marked as Exclude from Build in the file properties must be in the project however they will not be added to the final PXE.

Scans each procedure and verifies that each image referenced by a PIC statement is in the project. If a variable is used to reference the image, the file cannot be verified. In this case, it is up to the user to ensure that the picture is included in the project or is in the active pic directory defined by the metcal.ini file.

# Building Procedure Projects, continued

Scans each procedure for DOS statements and ensures that the application called by the statement is in the project. Similar to pictures, if a variable is used the program cannot be verified at build time. It is up to the user to ensure that the file is included in the project or is in the User\_Prog\_Dir or the User\_CWD defined by the metcal.ini file.

All files in the project that are compressed and added to a zip file that is named the same as the Package File Name defined in the Project Properties dialog. The file is copied to the \Bin directory relative to the active procedure project file.

The zip file contains all relevant source files necessary to rebuild the Procedure Project. Use this file to transfer source to another user if it is necessary to rebuild the project on a system that does not have access to the original project files.

Regardless of the Package Type selection in the Project Properties, a PXE file is also created in the \Bin project sub directory. All debugging is performed by using the PXE file in this folder.

# Building Procedure Projects, continued

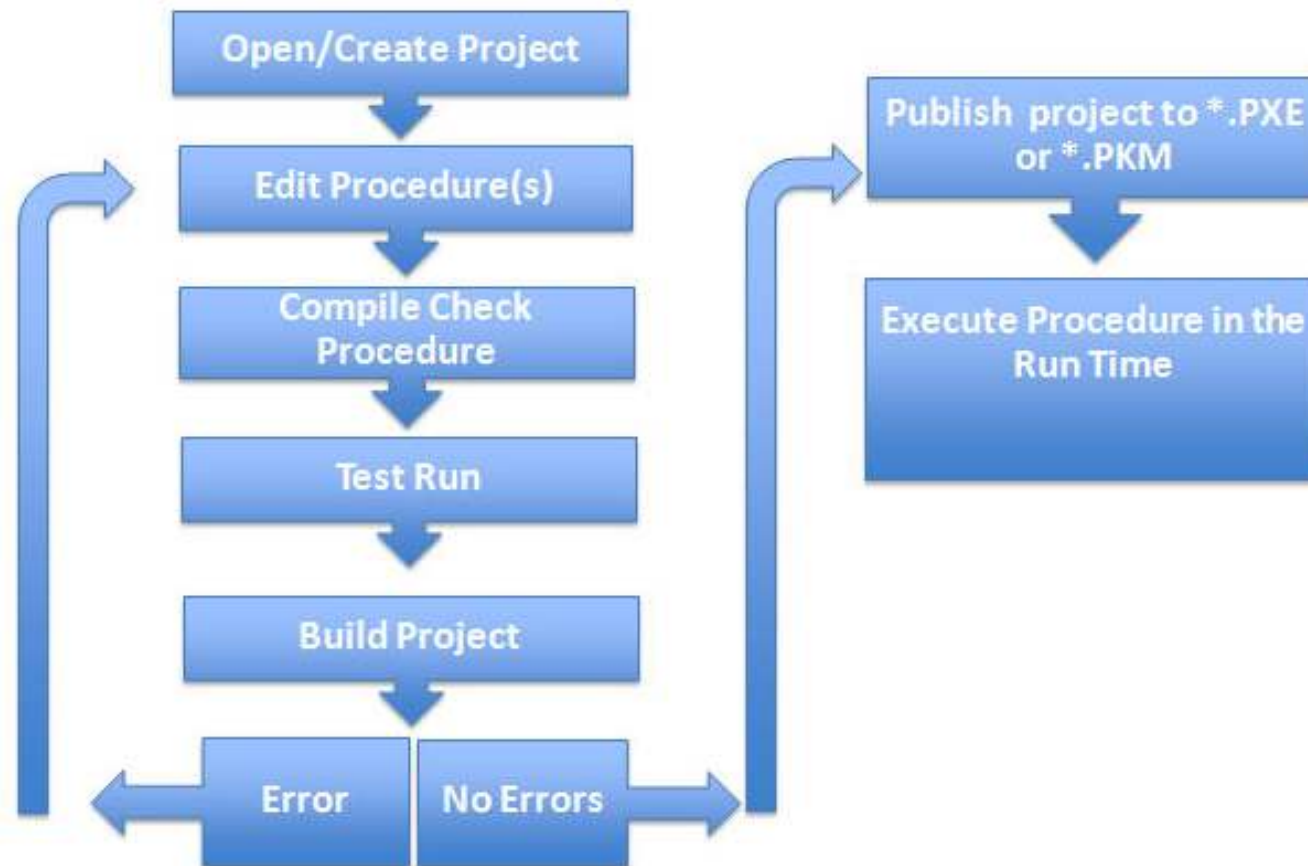
If the Build operation was initiated by Start Debugging, the actively selected procedure will execute starting at the first line of code. Debug from Cursor will always begin at the current cursor point of the active procedure.

When the Package Type selection in the Project Properties dialog is PKM and building was initiated by a Publish operation, a PKM file is also created in the \Bin directory.

When the Build, Publish Package option is used, the PKM or PXE file is copied to the target location selected by the user when the option was first pressed. Note publishing a package is effectively a file copy operation to move the package from the \Bin directory to the Run Time working directory. The default folder is the current compiled procedure directory.

For archival purposes, it is good practice to backup the project Zip file with the PXE after publishing. This is a user specific operation that is not handled by the procedure editor.

A flow chart of the Build/Publish sequence for procedures in a project



# File Types supported by MET/CAL Version 8.0

| File Extension  | Purpose   |
|-----------------|---|
| <b>.MCSLN</b>   | MET/CAL Editor Solution file which organizes projects, project items and solution items. Solution files are stored in the project directory or a specific solution directory. The location is determined by the New Project dialog.   |
| <b>.SUO</b>     | Visual Studio Solution User Options file which is a structure storage or compound file stored in binary format solution layout (hidden file type). When a source control program is used or when sharing a procedure project, exclude this file as it is specific to the user authoring the procedure and it does not contain details related to the function of the procedure. |
| <b>.MC PROJ</b> | MET/CAL Editor Project file which organizes project items.  |
| <b>.PRO</b>     | Old style MET/CAL procedure file.   |
| <b>.MC</b>      | MET/CAL procedure file stored in UTF-8 format. The file is plain text and can be opened in any text editor.   |
| <b>.CACHE</b>   | File used to make it faster to load .PRO files. These files should not be modified by the user and are hidden by default.   |
| <b>.PKM</b>     | Packed procedure file. The file contains one or more procedures and support files. A *.PKM file can be created by altering the Publish Type property in the <b>Project Properties</b> dialog. A *.PKM file can be imported into a project by using the <b>File, New Project from Existing *.pkm file</b> option.  |
| <b>.PXE</b>     | MET/CAL procedure executable; cannot be edited; produced when a Project is published; source Project is required to change a .PXE file.   |
| <b>.MCZ</b>     | MET/SUPPORT CD procedure file. The extension is associated with an extraction program that unpacks the procedure and support files into the active metcal.ini file paths.   |



# UTF-8 ??

MET/CAL 8.0 stores procedures files using UTF-8 format.

UTF-8 is a Unicode format that supports universal transport of characters created on operating systems with different code pages.

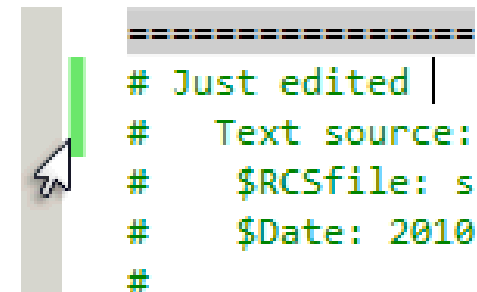
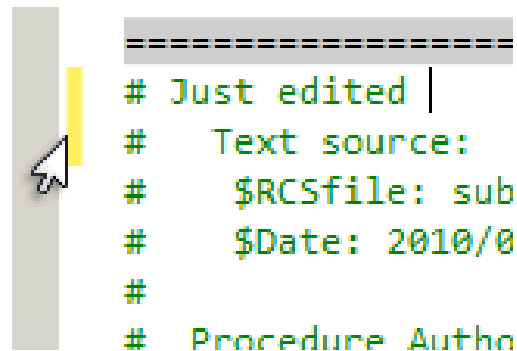
See Unicode Character Encoding in the MET/CAL User's Guide for more information.

# Files That Have Changed

Files that have changed include an asterisk after the file name on the file's edit dialog



File changes are indicated by a yellow highlight next to the file text. After the file is saved, the highlight changes to green.



## Printing a Procedure

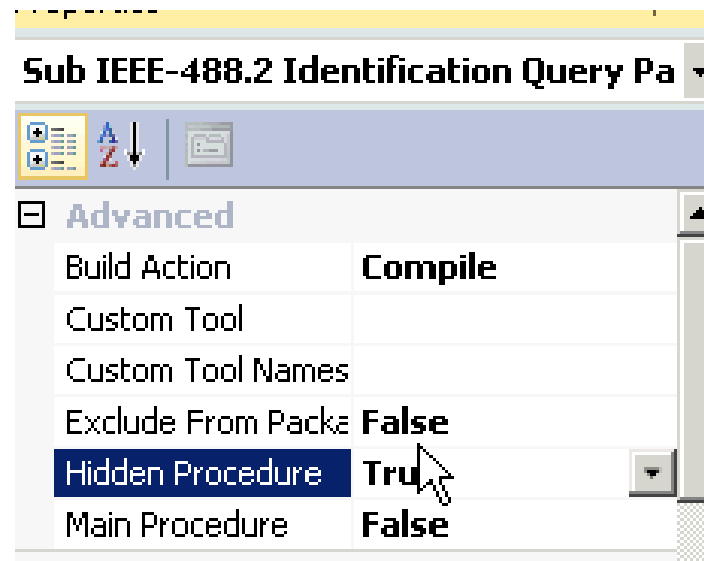
**The File, Print menu** opens a dialog box that lets you print the current procedure. To print the procedure to a PDF, install a PDF printer and select it as the print device in the print dialog.

To print a procedure, proceed as follows:

1. Open the procedure you want to print.
2. From the File menu, select **Print**.  
A Print dialog box appears.
3. Choose the options you want and select **OK** to print the active procedure

# Hiding a Procedure

The Procedure Selector has features to hide and unhide procedures in the active Compiled Procedure directory



In a procedure project use the file properties dialog and choose True as the Hide Procedure option.

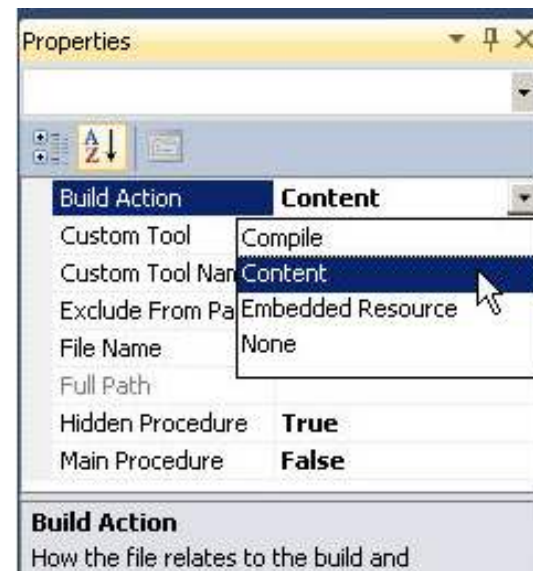
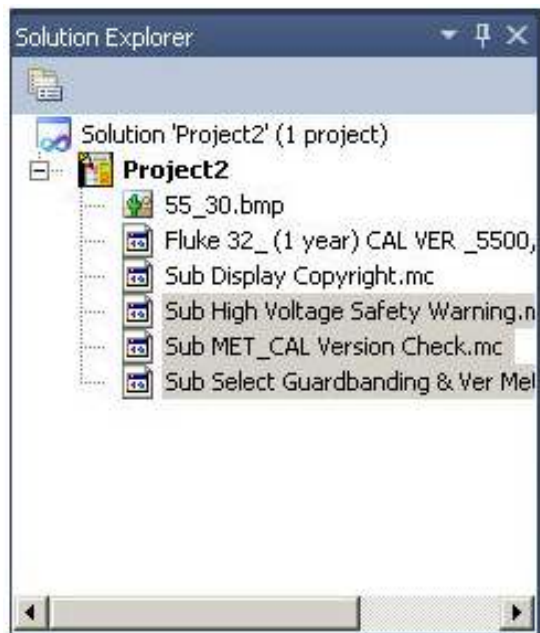
## Compile Checking a Procedure

The **Debug, Compile Check Procedure** (F9) checks the contents of the active procedure and reports errors in the Error window and warnings in the Warning window. The compile check does not check dependencies outside of the procedure file itself. Errors must be corrected before you can run the procedure. If no errors are present, the procedure is formatted and fields are lined up under the correct columns.

**T.U.R. Checking** - Procedure lines that contains an instrument evaluation FSC, the Test Uncertainty Ratio (T.U.R.) is calculated in most cases.

**Automatic Line Check** is operating as long as the Editor is not operating in Text Mode. The same checking as described above is performed on every procedure line as you enter it. When you press [ENTER], the line check is triggered. If no errors are found, the line is formatted, and the cursor is placed on the next line ready for the next procedure statement.

To enable debugging without resolving all issues in procedures, select all affected procedures in the Solution Explorer (CTRL+Click to multi-select), press F4 to display the file properties and choose Content as the Build Action property. This selection prevents the build process from attempting to compile the selected procedures. Make sure to change the build action back to Compile before publishing the procedure.



# Debug from Cursor

Runs procedure from the line where the cursor is currently positioned.

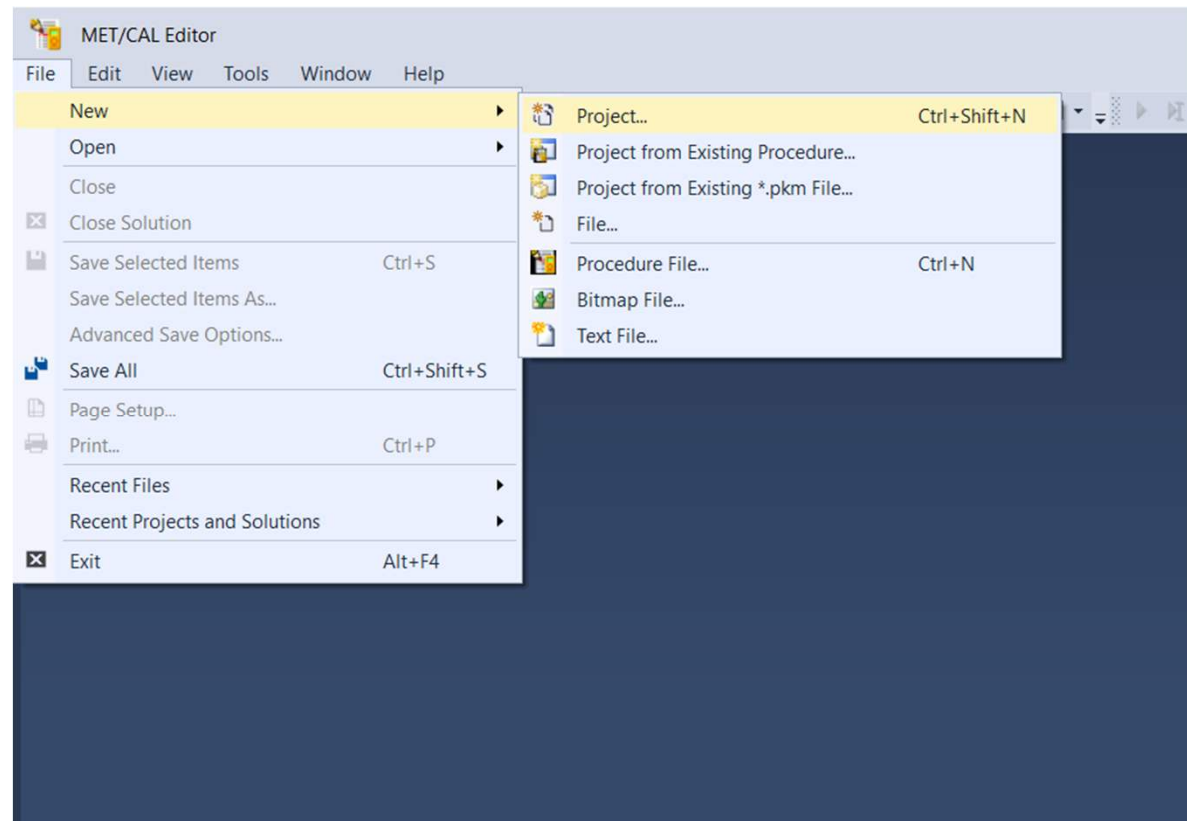
When the procedure is completed or terminated, the values of certain parameters are remembered, so that the next time you execute the procedure, it is not necessary to repeat the test steps that establish those values.

The system remembers the following parameters:

- ASK flags, created using the ASK- and ASK+ FSCs.
- Memory variables MEM, MEM1, MEM2, and M1 through M255
- Values created with Instrument Setup FSCs ( For example, MMFC, MCAL, and 606 FSCs).
- MESS message buffers, created with the MESS FSC.
- DRAW parameters, created with the DRAW FSC.
- SET settings table, created with SET FSCs.

MET/CAL Editor has many ways to copy and create new procedure.

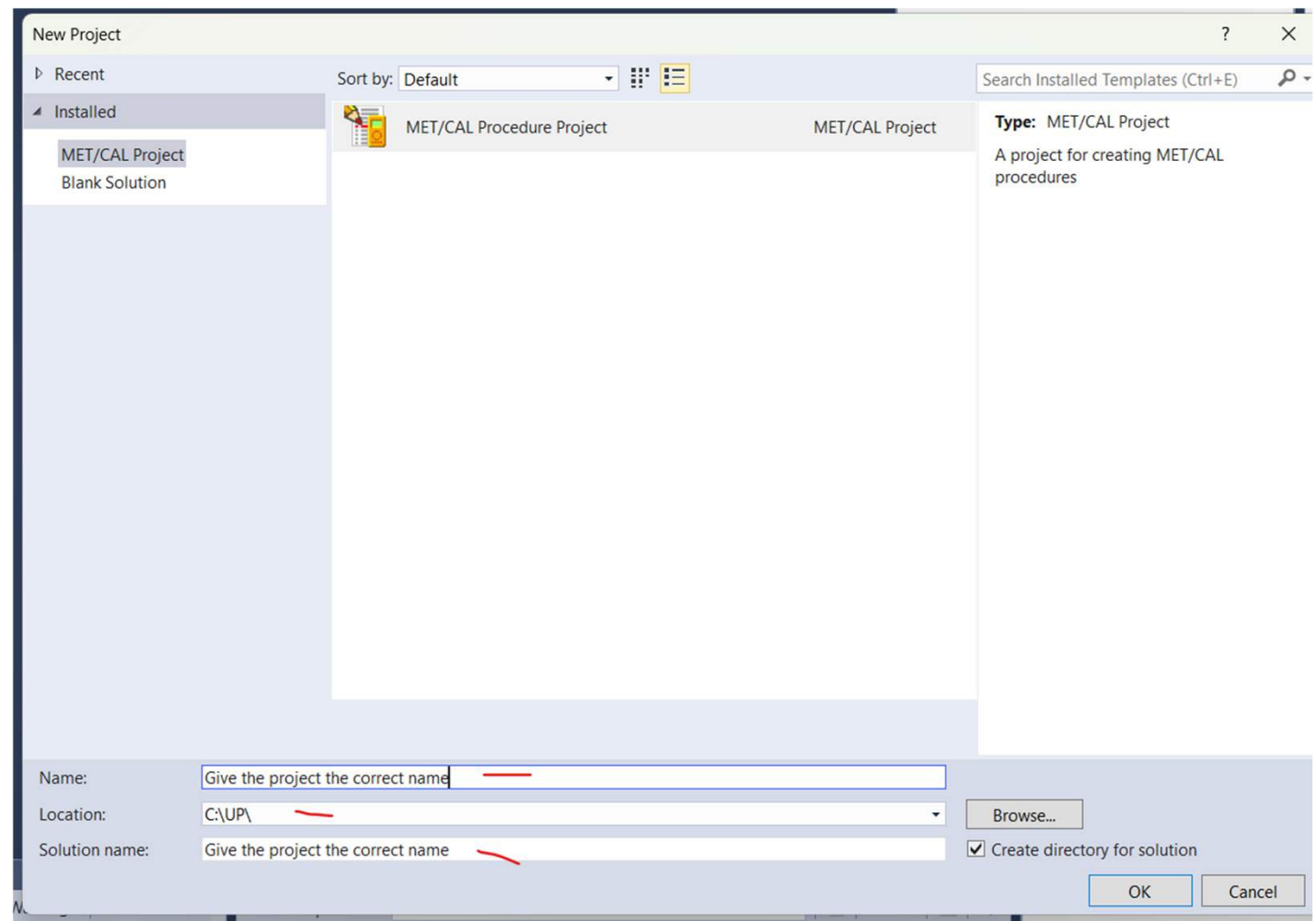
From beginning.



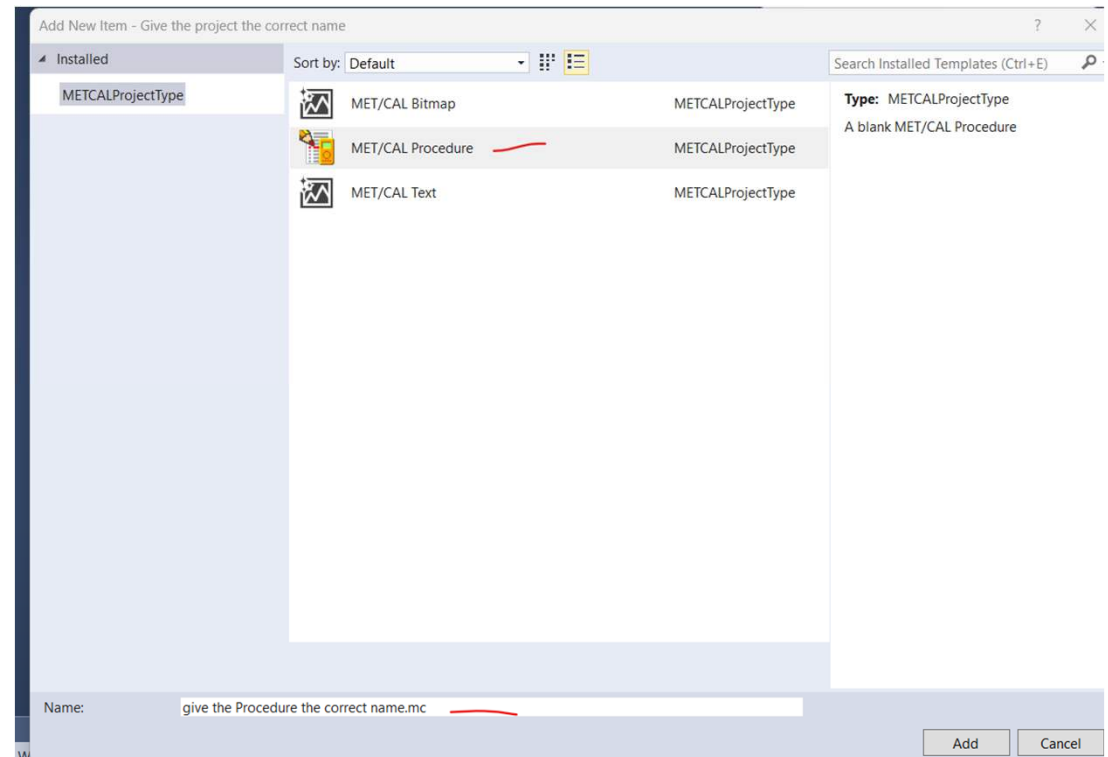
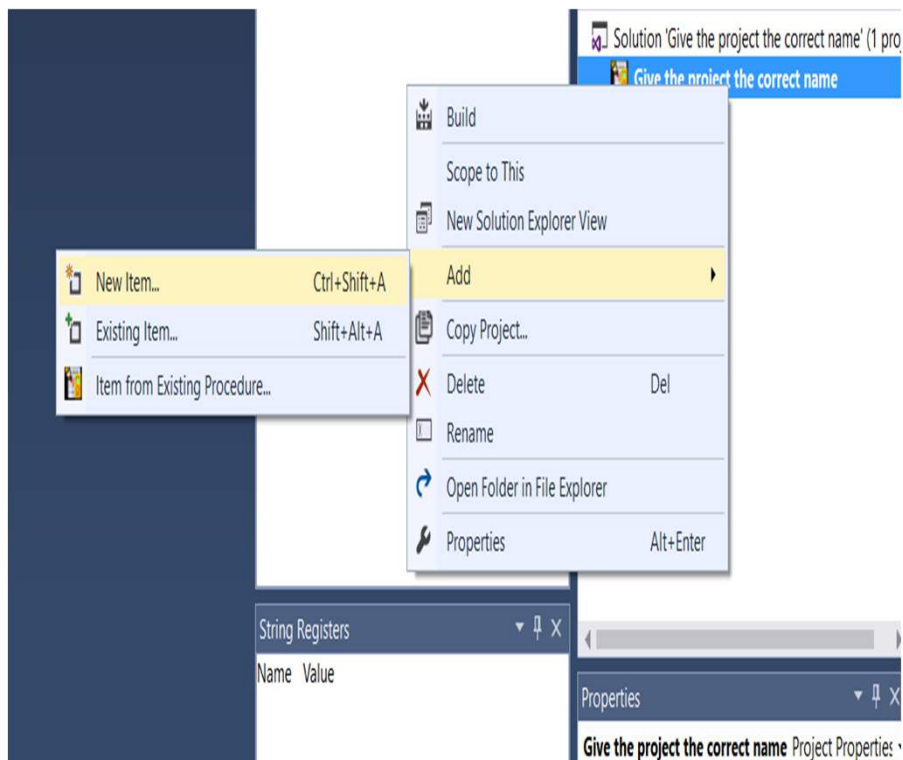


MET/CAL Editor has many ways to copy and create new procedure.

From beginning.



MET/CAL Editor has many ways to copy and create new procedure.



Now you can create your Procedure what is another part of the training

|    |                       |   |
|----|-----------------------|---|
| 1  | Caltech TST server    | MET/CAL Procedure                             |
| 2  | =====                 |   |
| 3  | INSTRUMENT:           | Now create your proc                          |
| 4  | DATE:                 | 2025-01-01                                    |
| 5  | AUTHOR:               | Mats Svensson                                 |
| 6  | REVISION:             | 1.00  |
| 7  | ADJUSTMENT THRESHOLD: | 70%   |
| 8  | NUMBER OF TESTS:      | 1   |
| 9  | NUMBER OF LINES:      | 14  |
| 10 | =====                 |   |
| 11 | STEP                  | FSC RANGE NOMINAL TOLERANCE MOD1 MOD2 3 4 CON |
| 12 |                       |   |
| 13 | 1.001                 | ASK+ K  |
| 14 | 1.002                 | DISP hi is all good                           |
| 15 |                       |   |

Add 6 sub proc named:

- Sub1 Gen
- Sub2 Gen
- Sub3 Gen
  
- Sub1 set
- Sub2 set
- Sub3 set

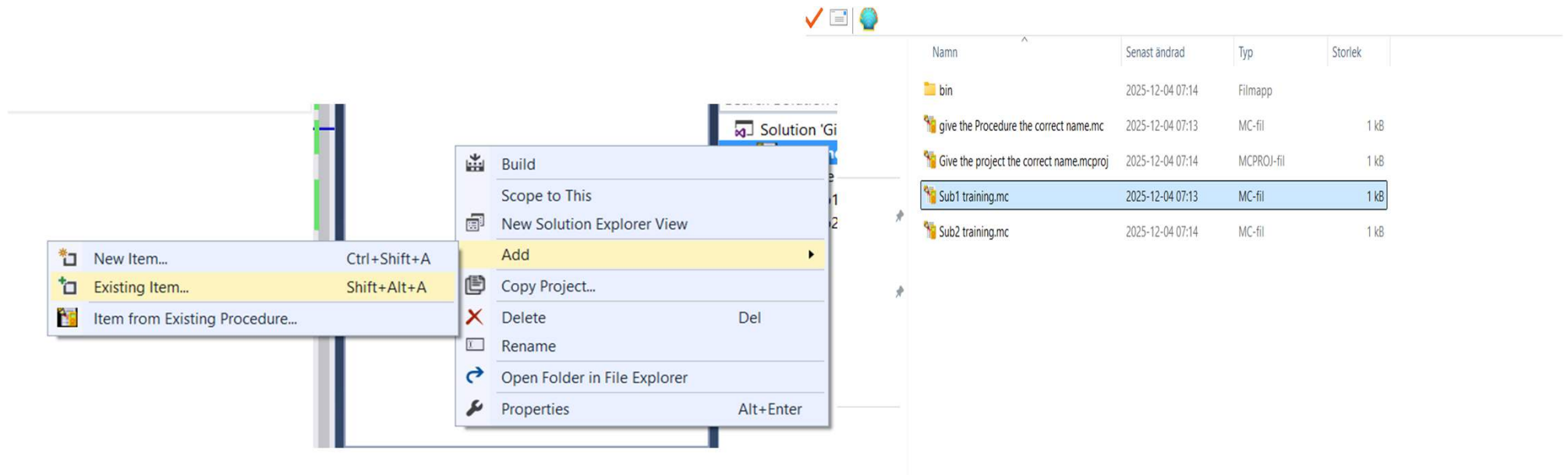
Compile the project.

LOOK IN TO THE FOLDER

LOOK IN TO THE FOLDER

Repeat the step before

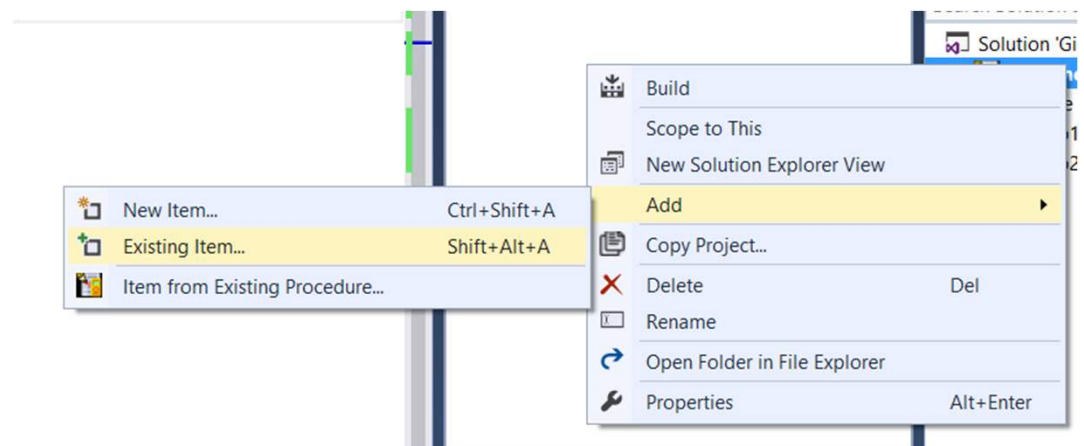
- Create a project from step 1
- Create a proc from the step before
- Go to Windows Explorer and copy the sub procedure
- Past it in to the New project
- Add it in MET/CAL under Existing Item



If you also like to copy the Main proc you need to Rename it and set it as MAIN PROCEDURE

You can rename it before you add it into the project or in MET/CAL

Also rename the Instrument text in the Main proc and rename the project "PXE" File





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You can rename it before you add it into the project or in MET/CAL

Also rename the Instrument text in the Main proc and rename the project “PXE” File

The screenshot displays a software development environment with three main panels:

- Left Panel (Code Editor):** Shows a MET/CAL Procedure for "Caltech TST server". The procedure includes a header section with metadata (INSTRUMENT, DATE, AUTHOR, REVISION, ADJUSTMENT THRESHOLD, NUMBER OF TESTS, NUMBER OF LINES) and a table of steps.
- Middle Panel (String Registers):** A table with columns "Name" and "Value".
- Right Panel (Solution Explorer and Properties):** The Solution Explorer shows a project named "Give the project the correct name" with sub-items "give the Procedure the correct name.mc", "Sub1 training.mc", and "Sub2 training.mc". The Properties window for "give the Procedure the correct name.mc" shows the "Main Procedure" property set to "True".

**Code Editor Content:**

```
1 Caltech TST server MET/CAL Procedure
2 =====
3 INSTRUMENT: Now create your proc
4 DATE: 2025-01-01
5 AUTHOR: Mats Svensson
6 REVISION: 1.00
7 ADJUSTMENT THRESHOLD: 70%
8 NUMBER OF TESTS: 1
9 NUMBER OF LINES: 16
10 =====
11 STEP FSC RANGE NOMINAL TOLERANCE MOD1 MOD2 3 4 CON
12
13 1.001 ASK+ K
14 1.002 DISP hi is all good
15 1.003 CALL Sub1 training
16 1.004 CALL Sub2 training
17
```

**String Registers Table:**

| Name | Value |
|------|-------|
|------|-------|

**Properties Window:**

| Property              | Value   |
|-----------------------|---|
| Build Action          | Compile   |
| Custom Tool           |   |
| Custom Tool Namespace |   |
| Exclude From Package  | False   |
| Main Procedure        | True  |
| Sectioned Procedure   | False   |
| File Name             | give the Procedure the correct name.mc  |
| Full Path             | C:\UP\tetrapak\Give the project the correct name\give the Procedure the correct name.mc |

Copy the complete project to a new catalog and rename it

| Namn                                      | S |
|---|---|
| Common                                    | 2 |
| Fluke 717 718 0 - 35 Bar calver 6270,2    | 2 |
| Fluke 717 718 -1 - 7 Bar calver 6270,2    | 2 |
| Fluke 717 718 -1- 2 Bar calver 6270,3     | 2 |
| Give the project the correct name         | 2 |
| New pressure case 1                       | 2 |
| New pressure case 2                       | 2 |
| New pressure case 3                       | 2 |
| Test4                                     | 2 |
| Give the project the correct name - kopia | 2 |

Copy the complete project to a new catalog and rename all

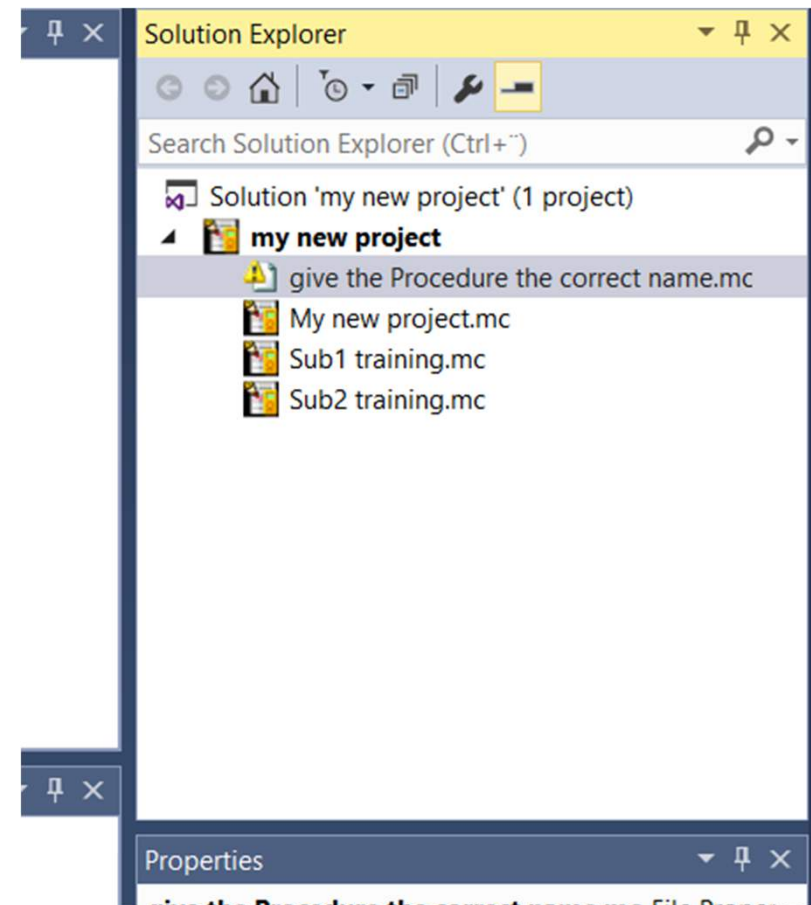
| Namn                                      |  | ^ | S |
|---|--|---|---|
| Common                                    |  | 2 |   |
| Fluke 717 718 0 - 35 Bar calver 6270,2    |  | 2 |   |
| Fluke 717 718 -1 - 7 Bar calver 6270,2    |  | 2 |   |
| Fluke 717 718 -1- 2 Bar calver 6270,3     |  | 2 |   |
| Give the project the correct name         |  | 2 |   |
| New pressure case 1                       |  | 2 |   |
| New pressure case 2                       |  | 2 |   |
| New pressure case 3                       |  | 2 |   |
| Test4                                     |  | 2 |   |
| Give the project the correct name - kopia |  | 2 |   |

Now you need to delete the old main proc and  
add the new one if you renamed it in explorer

Or

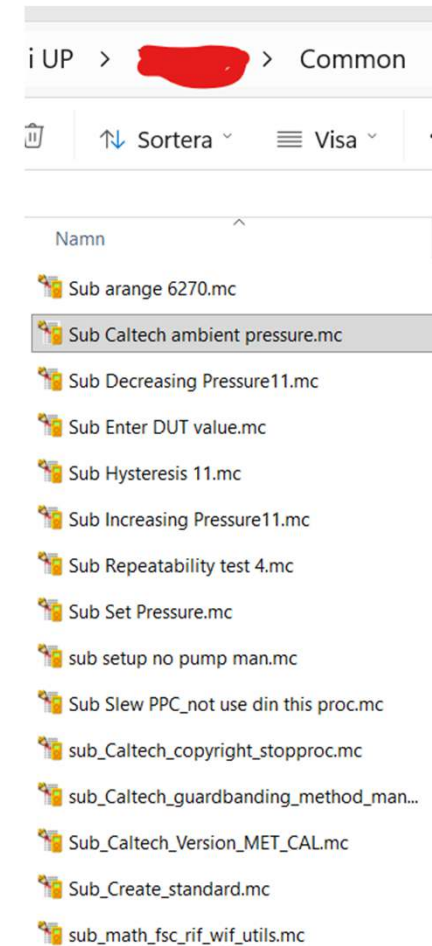
Rename it in MET/CAL what I prefer

Rename the PXE



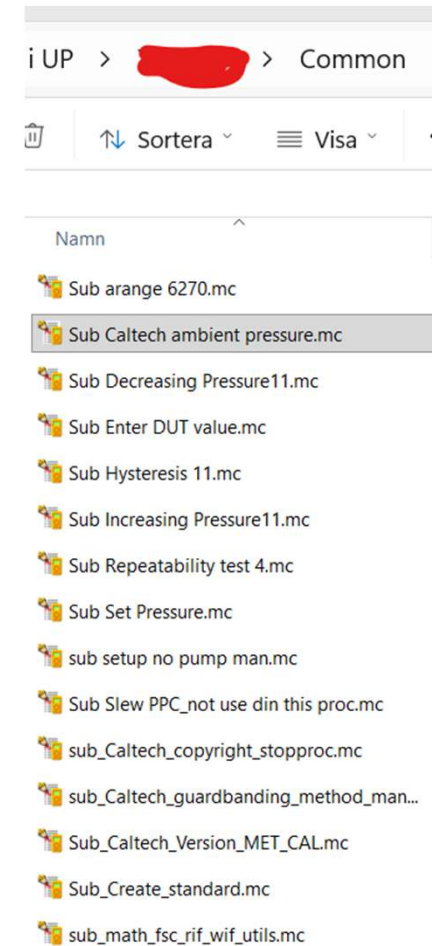
## Work with Command folders

- Create 2 folders
- Named Sub General1
- Named Sub Set1
- Rename the PXE



## Work with Command folders

- Past all sub you have create to folder Sub General1
- Rename the PXE



## Work with Command folders

- Past only general subs to the catalog Sub General1
- Past only “Set sub” to Sub1 Set1
- Named Sub General1
- Named Sub Set1
- Rename the PXE

