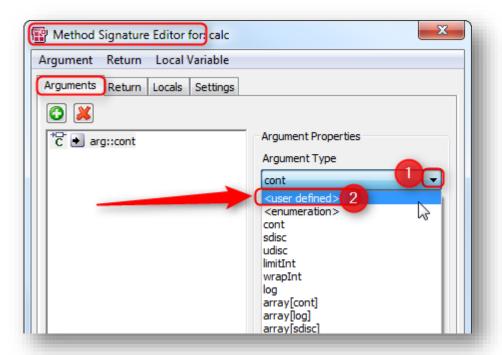


ASCET: Define and use a user defined type



• I would like to assign a user defined type for a method return type and argument



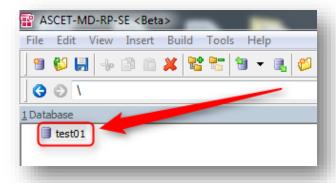
- In ASCET there is an option to choose the user defined type
- But looking for definition: how to define a user defined type?



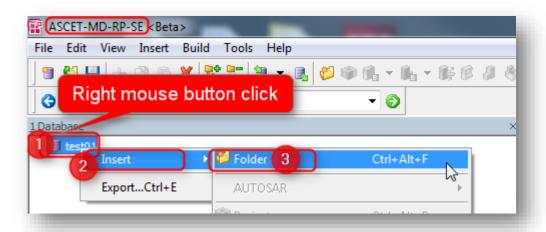


Following is a step by step walk through creation and usage of a user defined data type in ASCET

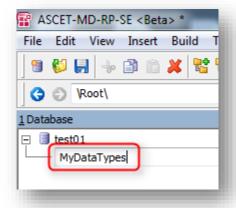
1. For this example, we start with a newly created empty database (named "test01")



- 2. Move mouse pointer to the database ("test01")
- 3. **Right** mouse button click, then move mouse pointer over **Insert**, and then left mouse button click on **Folder**



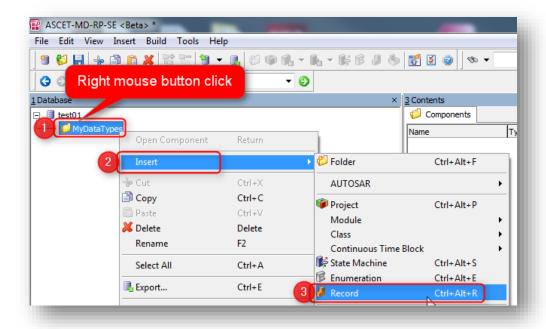
4. Type a meaningful name for the newly created folder (we use "MyDataTypes" here)





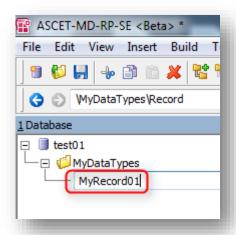
Create a user defined type

- 5. Create a user defined type:
 - 1. Move the mouse pointer on the newly created folder
 - 2. On folder: right mouse button click > Insert > Record



3. Remarks:

- There are several options here like Class, Enumeration or Record
- To keep this article simple we will just use one
- We use **Record** in this example
- Of course, it is possible to use several user defined types at the same time
- 6. Type a name for the newly created record (we use "MyRecord01")



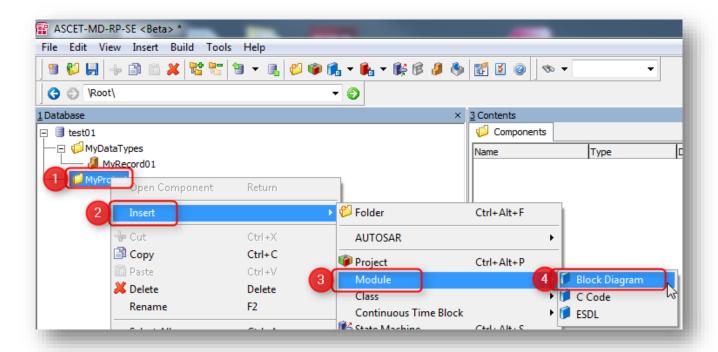


Insert a user defined type:

- 7. Now, create a folder for the ASCET model
 - 1. Move mouse pointer to the database ("test01")
 - 2. **Right** mouse button click, then move mouse pointer over **Insert**, and then left mouse button click on **Folder**

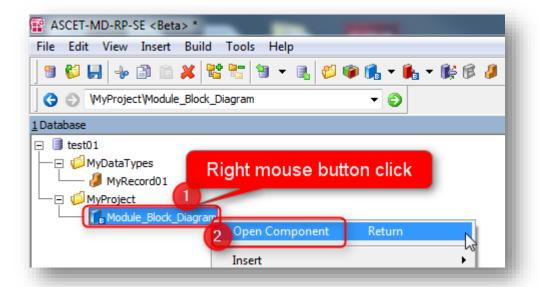


- 3. Type a name for the project (we use "MyProject")
- 8. On the newly created project: Right mouse button click > Insert > Module > Block Diagram

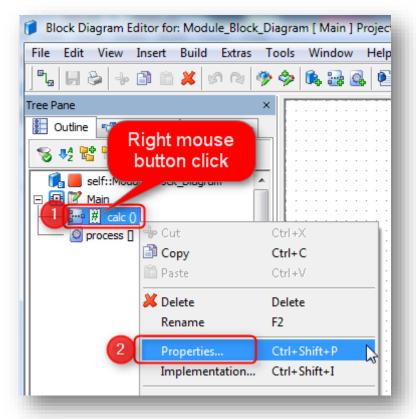




9. Open Block Diagram Editor

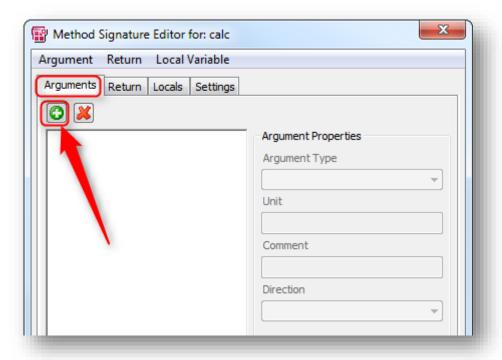


10. Under Main on <method_name>: Right mouse button click > Properties...

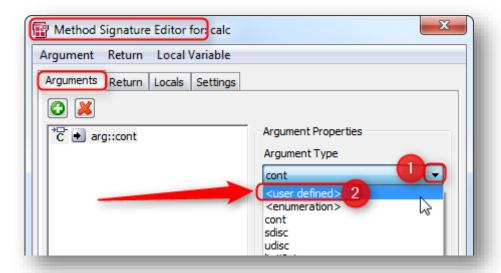




- 11. Dialog Method Signature Editor for: <method_name> opens
- 12. On tab Arguments: Click on white plus symbol on green circle

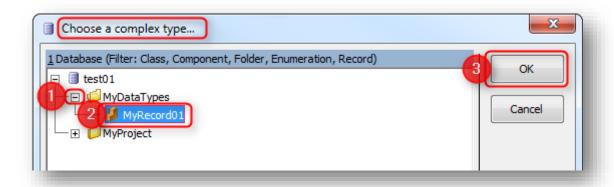


- 13. On panel Argument Properties: at field Argument Type: click on black triangle
- 14. Click on <user defined>

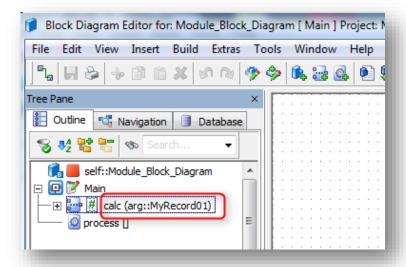




15. In Dialog Choose a complex type...: Select user defined type, and click OK button



16. In Block Diagram Editor: method call is displayed with user defined data type as argument





Do you still have questions?

- You will find further FAQ articles on the ETAS homepage: www.etas.com/en/faq
- Movies corresponding to FAQ articles can be found on the ETAS YouTube channel as well
- Please feel free to contact our Support Center, if you have further questions.
- Here you can find all information: http://www.etas.com/en/hotlines.php

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