

## ASCET-DEVELOPER: Use external class



### Question

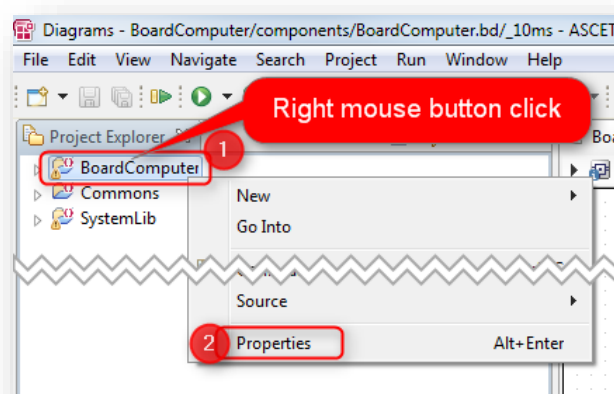
- I want to use a class in a module but the class resides outside of the module package
- I tried to go via Palette → Local Class and Type Selection of the BD module but to no avail
- How to use an external class in ASCET-DEVELOPER?



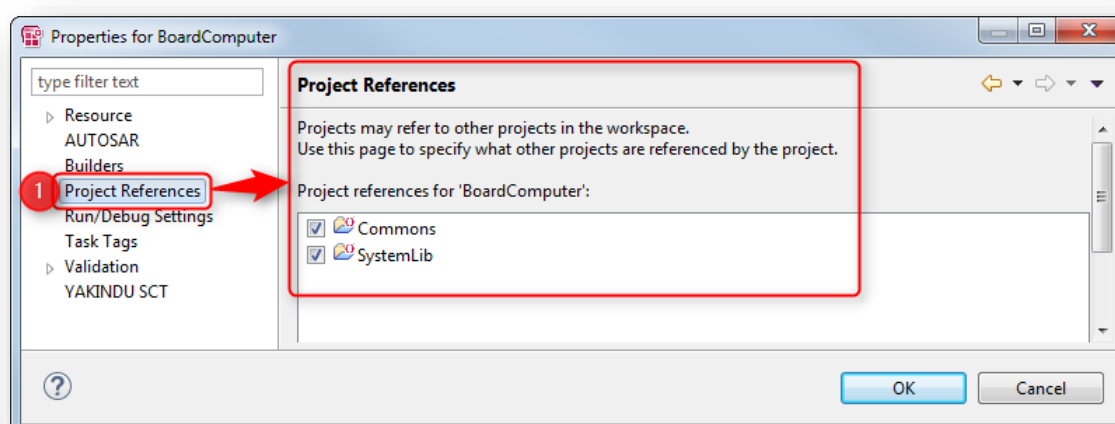
### Answer

- This is possible with 2 settings:
  - In properties of the project: Set **Project References** to the external packages
  - In source code file: `import <package_name>.<class_name>`
- Find an example in the **BoardComputer** project that comes with ASCET-DEVELOPER:

1. In **ASCET-DEVELOPER** → **Project Explorer** → On project: Right mouse button click → **Properties**



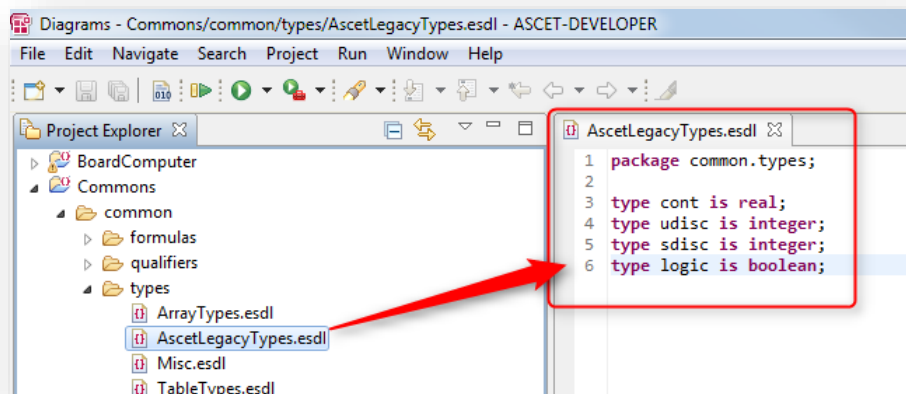
2. In dialog **Properties for BoardComputer** → **Project References**



3. There are 2 projects referenced: **Commons** and **SystemLib**

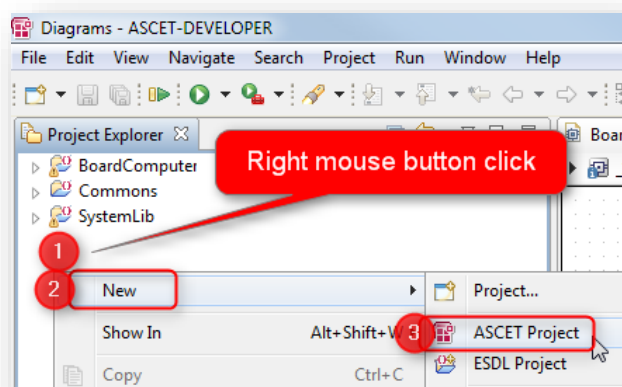
### Example use case: New project that uses legacy ASCET data types

- In the **BoardComputer** example project there is a package with legacy ASCET types (under "Commons"):

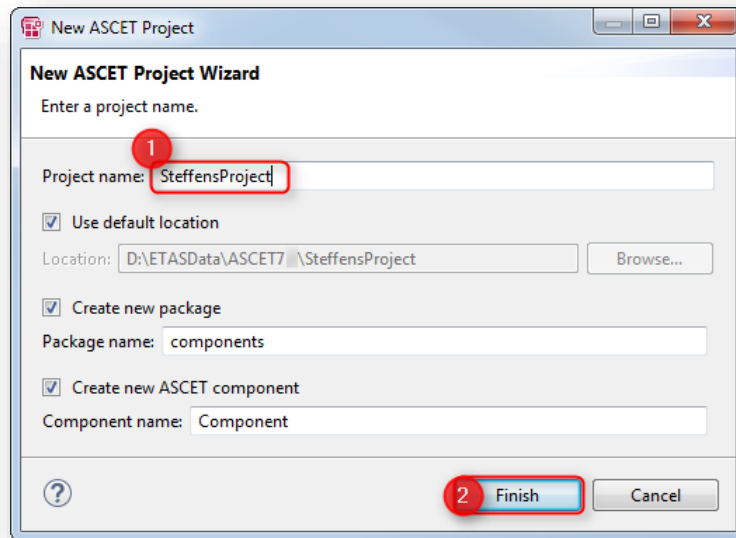


- We are going to use the ASCET legacy type **cont** in our own project:

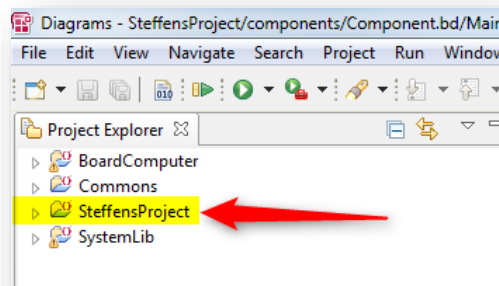
1. In **Project Explorer** → Right mouse button click → **New** → **ASCET Project**



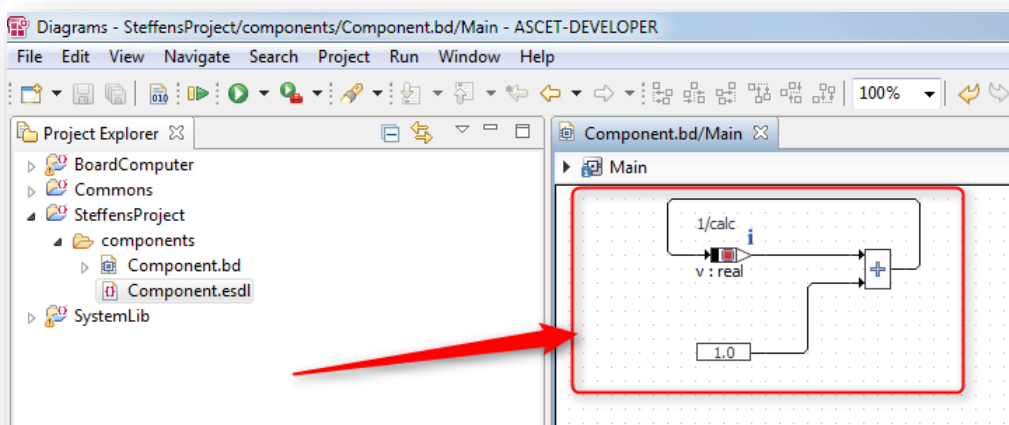
- In dialog **New ASCET Project** → At field **Project name:** Enter project name → Click **Finish** button



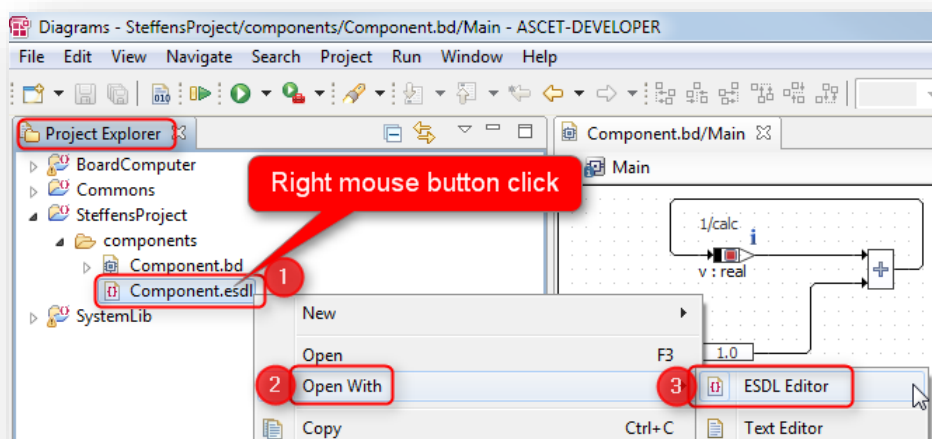
- Result:



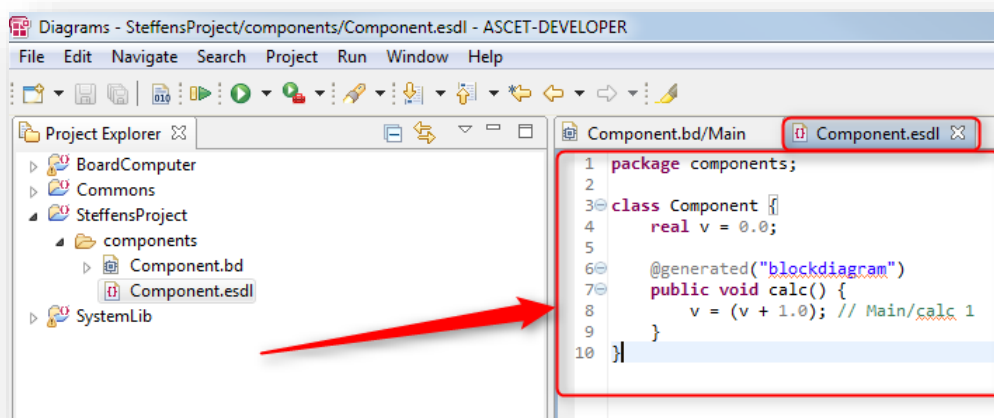
- In Block Diagram Editor we draw a simple block diagram, for example a counter:



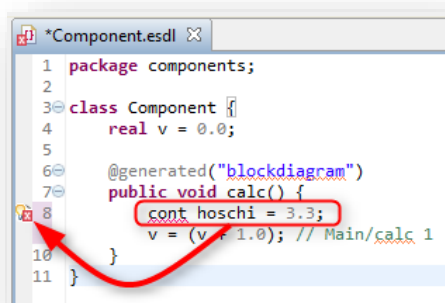
5. In **Project Explorer**, on **Component.esdl**: Right mouse button click → **Open With** → **ESDL Editor**



6. Result:

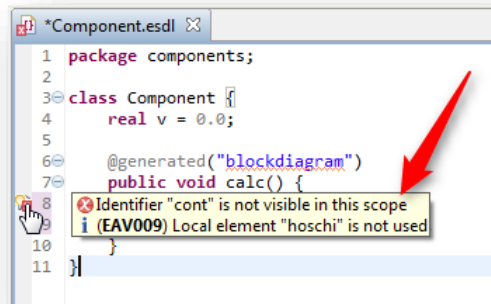


7. Add a line where we declare the new variable of the ASCET legacy type **cont**

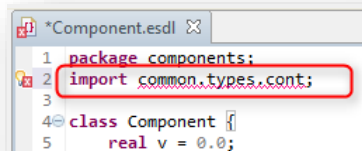


8. Hover mouse pointer on the white X in the red circle to see error messages:

- o Identifier "cont" is not visible in this scope

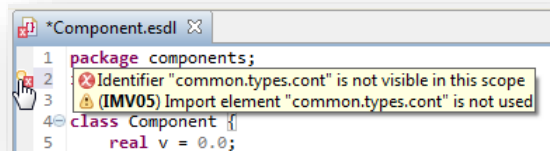


9. In line 2: Add **import common.types.cont;**

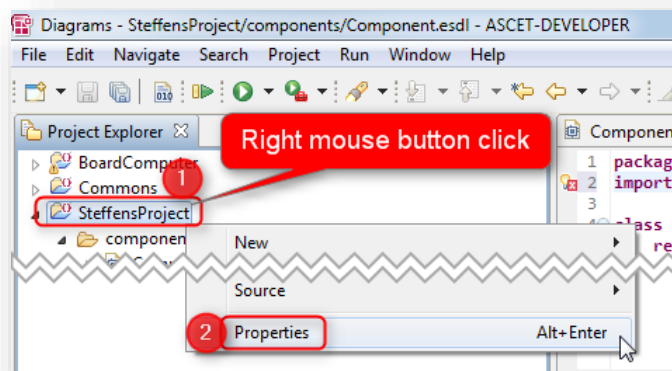


10. There will still be errors:

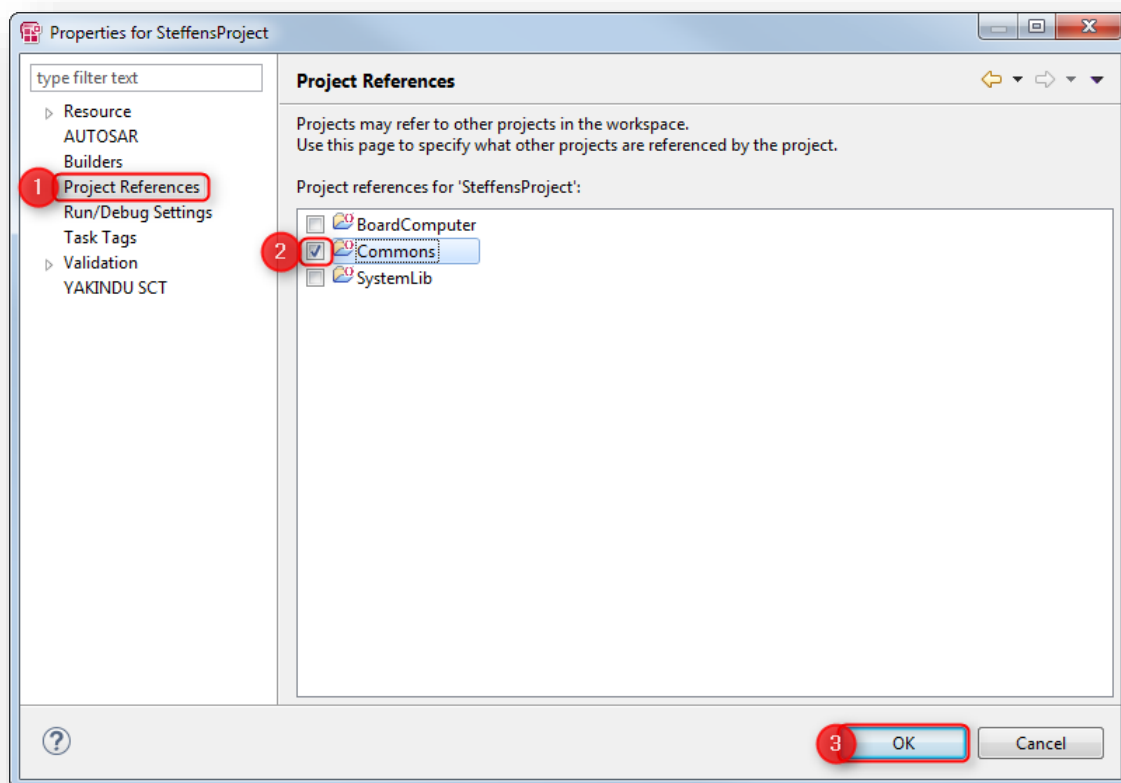
- o Identifier "common.types.cont" is not visible in this scope
- o (IMV05) Import element "common.types.cont" is not used



11. In **Project Explorer**, on project: Right mouse button click → **Properties**



12. In dialog **Properties for <project\_name>** → **Project References** → Check **Commons** → Click **OK** button



13. Result: No error messages any more

```

1 package components;
2 import common.types.cont;
3
4 class Component {
5     real v = 0.0;
6
7     @generated("blockdiagram")
8     public void calc() {
9         cont hoschi = 3.3;
10        v = (v + 1.0); // Main/calc 1
11    }
12 }
    
```

14. In line 9 there is a light bulb icon: hover mouse pointer on it

- (EAV009) Local element "<variable\_name>" is not used

```

4 class Component {
5     real v = 0.0;
6
7     @generated("blockdiagram")
8     public void calc() {
9         i (EAV009) Local element "hoschi" is not used
10        v = (v + 1.0); // Main/calc 1
11    }
12 }
    
```

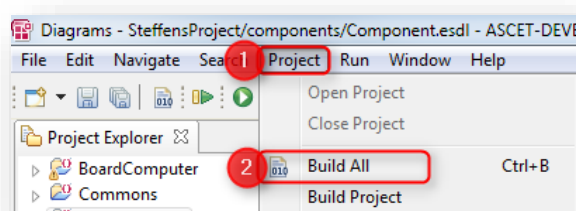
15. In line 11 we add a command just to use the variable in order to get rid of the light bulb icon

```

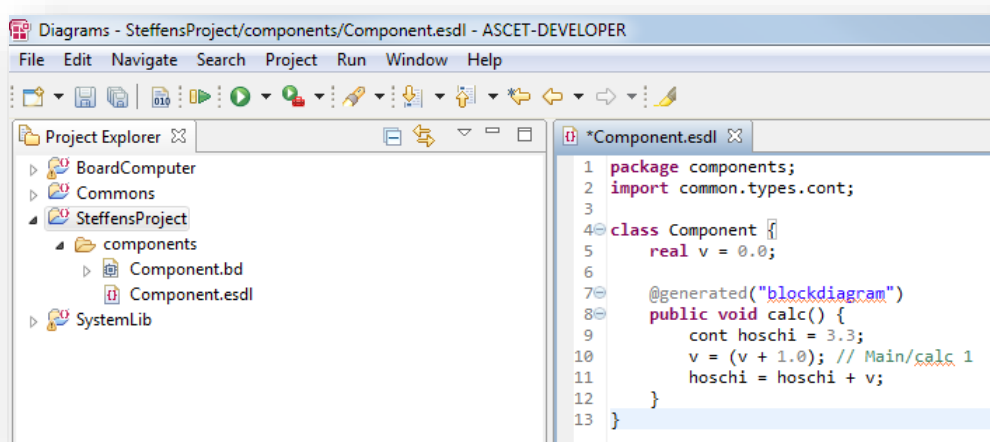
1 package components;
2 import common.types.cont;
3
4 class Component {
5     real v = 0.0;
6
7     @generated("blockdiagram")
8     public void calc() {
9         cont hoschi = 3.3;
10        v = (v + 1.0); // Main/calc 1
11        hoschi = hoschi + v;
12    }
13 }
    
```

16. Result: Light bulb icon turned into ventilator

17. In **Menu bar** → **Project** → **Build All**



18. Result:



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