

POSEIDON VB.NET CODE GENERATION PLUGIN GUIDE

General Rules

- 'package' visibility will be translated into 'Friend'
- 'abstract' will be translated into 'MustInherit' or 'MustOverride'
- 'final' will be translated into 'NotInheritable' or 'NotOverridable'
- 'static' will be translated into 'Shared'

The following keys for tagged value pairs are supported when the value has been set to 'true' within the appropriate context:

- 'Shadows'
- 'Overridable'
- 'Protected Friend'

Modelling Element Rules

Classes

- Uses the standard UML 'Class'
- Supports single inheritance only
- Protected Friend visibility is determined by setting the tagged value 'Protected Friend' to 'true'. Everything else will use the checked visibility radio button.

- Classes with abstract operations must also be declared 'abstract'

Interfaces

- Uses the standard UML 'Interface'
- Interface identifiers must start with the 'I' character
- Interface operations must be 'Public' and cannot be 'Shared'
- Interfaces cannot have attributes or navigable opposite association ends

Modules

- Uses the standard UML 'Class' with the <<Module>> stereotype
- Modules cannot be 'abstract' or 'final'
- Modules cannot participate in generalizations or specifications
- Modules cannot be an inner classifier or have an inner classifier
- Modules cannot have a 'Protected' or 'Protected Friend' member

Structures

- Uses the standard UML 'Class' with the <<Structure>> stereotype
- Structures must have at least one member that is non-static (shared) and is either an attribute, a navigable opposite association end, or an operation with the stereotype <<Event>>.
- Structures cannot have a 'Protected' or 'Protected Friend' member
- Structures cannot have an attribute or navigable opposite association end with an initialized value

Enums

- Uses the standard UML 'Class' with the <<Enum>> stereotype
- By default it generates an Enum as type 'Integer'
- Enums do not participate in generalizations or specifications
- Enums cannot have navigable opposite association ends, operations, or inner classifiers
- Other Enum types are supported by using the tagged value key 'type' with one of the following values
 - 'Short'
 - 'Byte'
 - 'Integer'
 - 'Long'

Anything else will default to 'Integer'.

Operations

Operations support the following tagged values:

- Operations support the following tagged values:
 - 'Protected Friend'
 - 'Shadows'
 - 'Overridable'
- Operations with no return parameter (returning 'void') are generated as 'Sub'
- Operations with a return parameter are generated as 'Function'

Operation's Parameters

- Parameter type 'in' is translated as 'ByVal', everything else is 'ByRef'
- The type 'ParamArray' is supported by using the stereotype <<ParamArray>> with a parameter
- A 'ParamArray' parameter must be the last parameter
- A 'ParamArray' parameter must be of type 'in' or 'ByVal'

Attribute & Association Ends

- Supports the tagged value 'Protected Friend'

Visual Basic Properties

- Properties are supported with <<Property>> stereotyped operations
- There are 3 type of stereotypes available:
 - 'Property' will generate 'Get' and 'Set' inside the Property block
 - 'ReadOnly Property' will generate only 'Get' inside the Property block
 - 'WriteOnly Property' will generate only 'Set' inside the Property block
- If no attribute is set in 'accessed attribute', it will by default generate an attribute with same type as the Property return type with the name set to 'm_operation_name'.

Visual Basic Events

- VB Events are supported by using <<Event>> stereotypes with operations