

# Model-based Code Gen

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## Summary

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The Code Gen tool converts UML 2.0 Execute Model-based design models into source codes, and can be utilized via the UML Editor that lets you design Class Diagrams that can be converted into eGovFrame source codes.

The eGovFrame IDE provides following Code Generation features.

## Description

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The eGovFrame's Code Gen provides following features, compared to other UML tools.

- eGovFrame-based Code Generation
- Auto-creation of Spring Annotation: supports Model, Service, ServiceImpl, Controller, VO, DAO types, and auto-creates Spring Annotation based on model-to-model relationships

StereoType	Contents
Model	synthesize getter, setter method based on attribute information
Service	use when ServiceImpl exists in Realization relationship
ServiceImpl	eGovFramework default import statement generation, synthesize @Service, @Resource upon Service, Dao connected as Relation.
Dao	eGovFramework default import statement generation, add @Repository Annotation
Controller	add @Controller Annotation
Vo	synthesize getter, setter method based on attribute information

- Supports XMI files of other UML modeling tools (for UML 2.1, XMI 2.1)
  - UML 2.1  
[http://www.omg.org/technology/documents/modeling\\_spec\\_catalog.htm#UML](http://www.omg.org/technology/documents/modeling_spec_catalog.htm#UML)  
[[http://www.omg.org/technology/documents/modeling\\_spec\\_catalog.htm#UML](http://www.omg.org/technology/documents/modeling_spec_catalog.htm#UML)]
  - XMI 2.1  
[http://www.omg.org/technology/documents/modeling\\_spec\\_catalog.htm#XMI](http://www.omg.org/technology/documents/modeling_spec_catalog.htm#XMI)  
[[http://www.omg.org/technology/documents/modeling\\_spec\\_catalog.htm#XMI](http://www.omg.org/technology/documents/modeling_spec_catalog.htm#XMI)]

## Manual

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- [Auto-generation of source codes using UML class diagrams](#)
- [Auto-generation of source codes from XMI files](#)
- [Export UML class diagrams as XML files](#)