

Code Generation

Summary

The eGovFrame's IDE provides the following Code Generation feature.

Template-based Code Gen

This tool enables creating eGovFrame-compliant CRUD programs based on pre-defined templates, or easily editing configuration/property files.

Model-based Code Gen

This tool enables creating eGovFrame-compliant Java codes based on class diagrams.

Description

The eGovFrame IDE's Code Generation provides the following features.

Architect	Application program design model and prototype
Developer	Source code development and rapid testing
Maintainer	Use of standard templates for readability and maintenance with high reliability

Manual

- Template-based Code Gen
 - Auto-generating CRUD programs
 - Auto-configuration
 - Adding custom templates
- Model-based Code Gen
 - Auto code generation based on the IDE's UML class diagrams
 - Auto code generation using XMI files
 - Export the IDE's UML class diagrams as XMI files

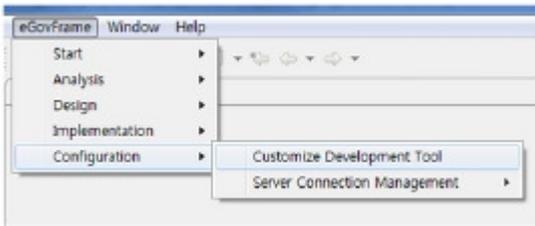
Updating the Code Generation

In order to use the Code Generation, the eGovFrame IDE needs to be downloaded or updated from the portal.

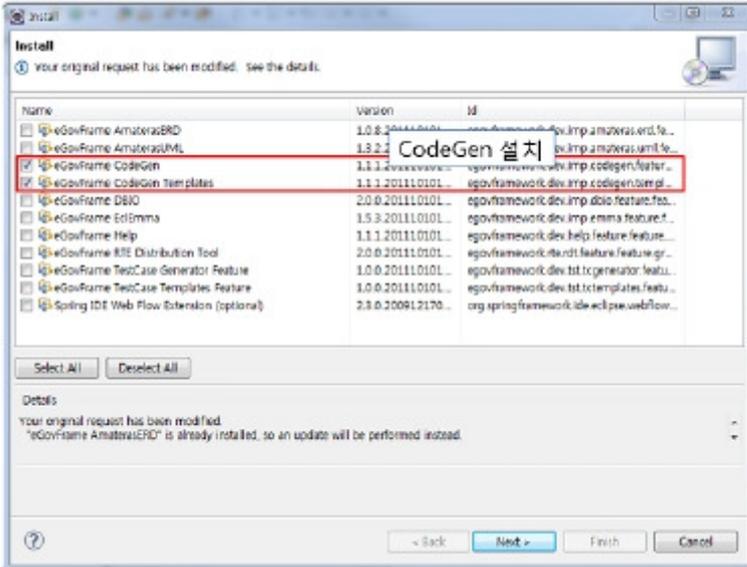
1. Updating via eGovFrame Perspective

eGovFrame provides an update method as below.

1. Choose eGovFrame > Configuration > Customize Development Tool from the eGovFrame main menu. (See <Figure 1>)
2. Check the eGovFrame CodeGen and the eGovFrame CodeGen Template checkboxes, and click Next. (See <Figure 2>)



<Figure 1> Menu

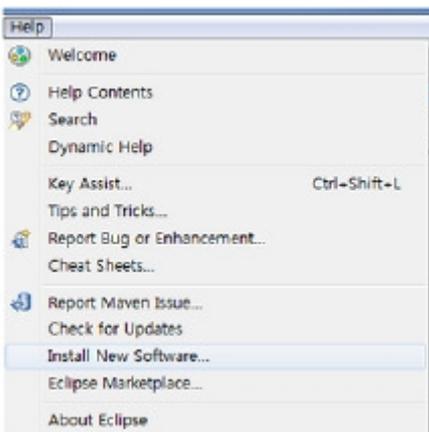


<Figure 2> Install CodeGen

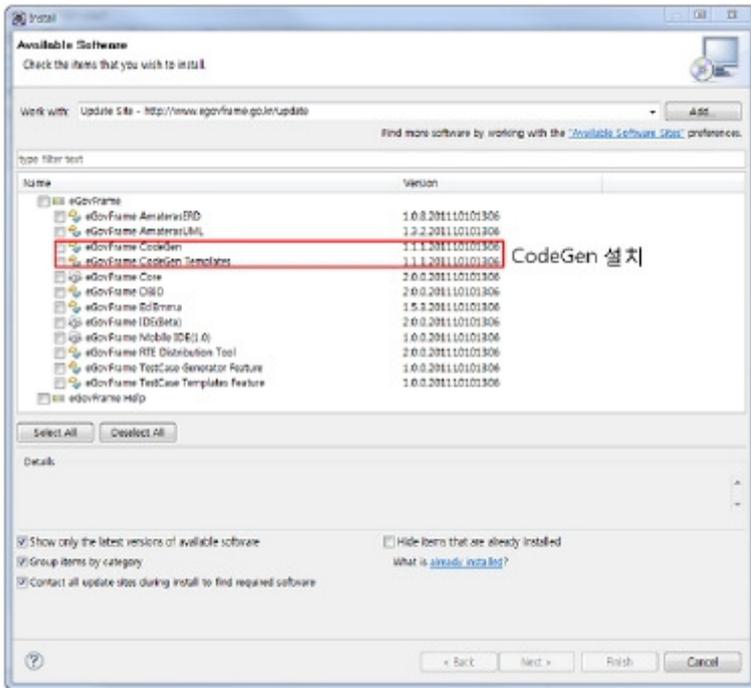
2. Updating via URL

The updating procedure via URL is as follows.

1. Choose Help > Install New Software from the Eclipse menu. (See <Figure 3>)
2. In the Work with text field, enter <http://www.egovframe.go.kr/update>
[<http://www.egovframe.go.kr/update>]
3. Expand the sub-options under the URL, check the eGovFrame CodeGen and the eGovFrame CodeGen Templates checkboxes, and click Next. (See <Figure 4>)



<Figure 3> Install New Software



<Figure 4> Updating via URL

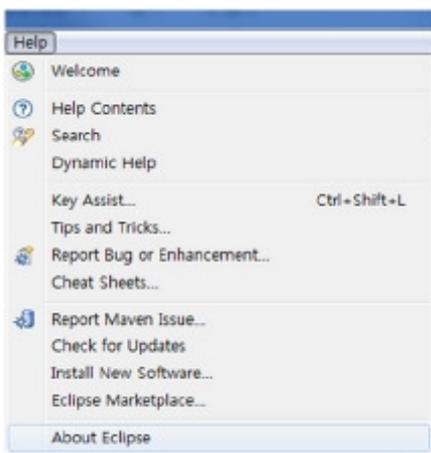
Notes

- In order to upgrade the Code Generation from the existing IDE, ensure that the encoding option is set to UTF-8. You need to enter the following line into the eclipse.ini file.

-Dfile.encoding=UTF-8

Model Based Code Generation feature uses Eclipse UML 2.0 library by default.

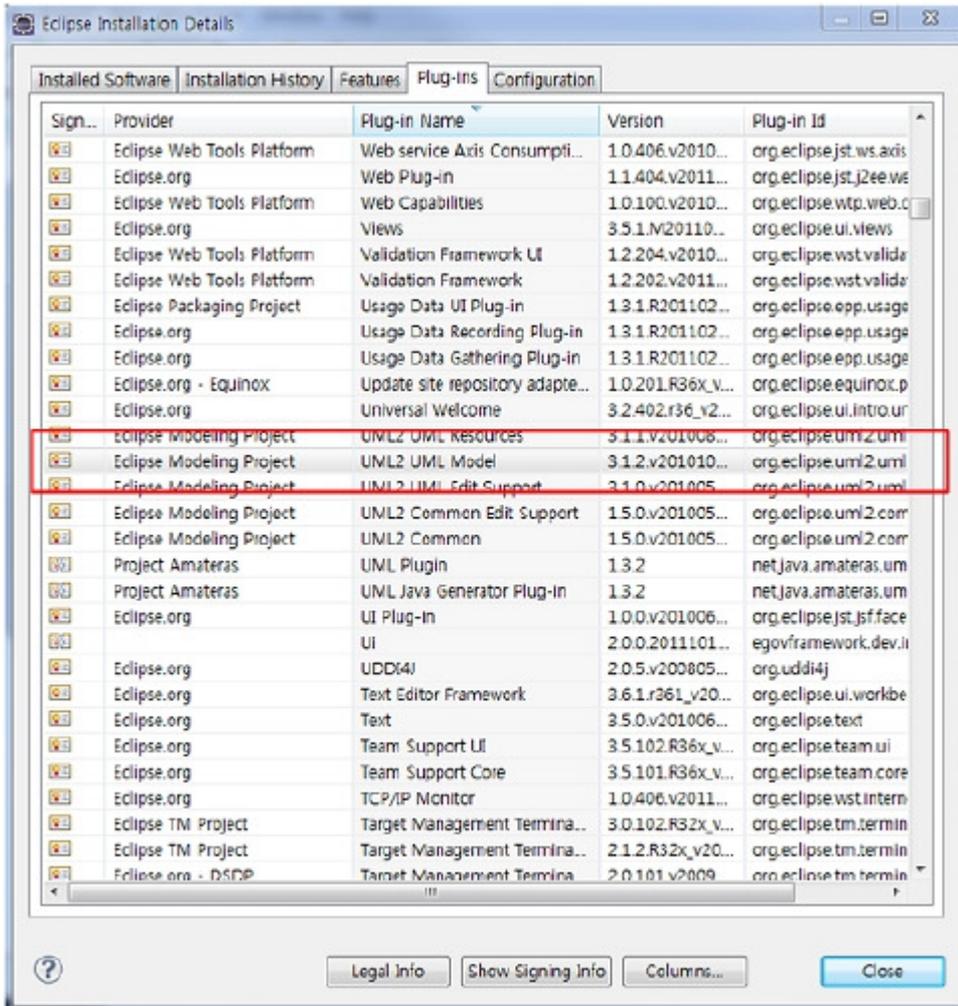
- Once you update the CodeGen plug-in and then the IDE, the said library gets updated automatically as well. If it still does not work properly, check if Eclipse UML 2.0 was installed properly. How to check Eclipse UML 2.0 installation is as below.



<Figure 5> Help > About Eclipse Platform from the menu



<Figure 6> Click the Plug-in Detail button



<Figure 7> Confirm Eclipse UML 2.0 from the list of plug-ins

- If you cannot find the plug-in from the list, you need to manually update the plug-in.

Helios Update Site > Models and Model Development > UML 2 End-User Features
 Helios Update Site > Models and Model Development > UML 2 Extender SDK