

## Summary

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This document describes a summary of the IDE for the e-government standard framework.

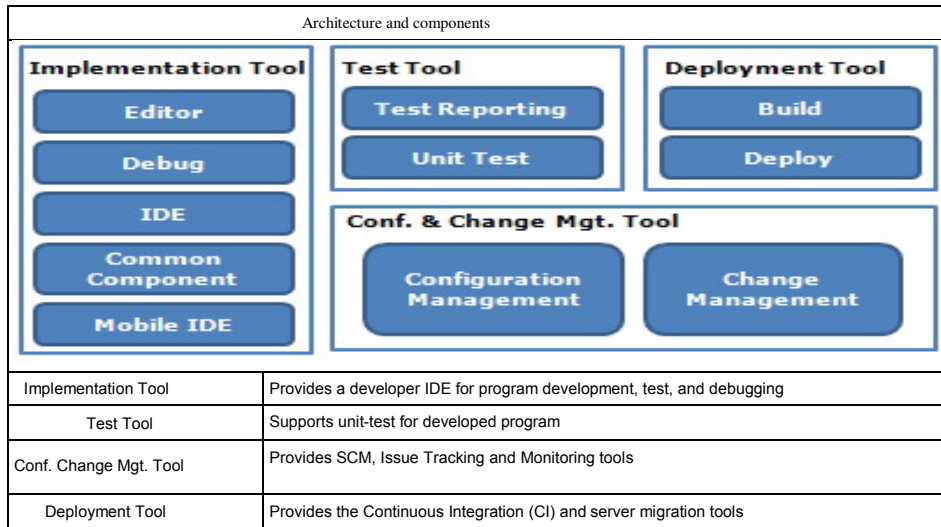
## Description

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### IDE Goal

The IDE provides following tools that support the life-cycle of the development process, including business program development, version control, build, and so forth.

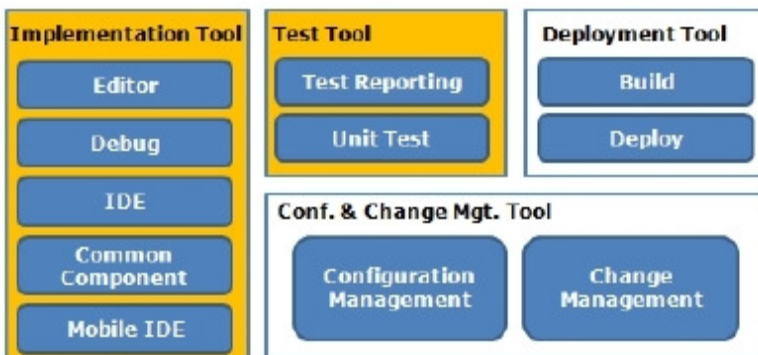
- Implementation Tool
- Test Tool
- Configuration & Change Management Tool
- Deployment Tool



### IDE and Server IDE

#### IDE

IDE consists of Implementation Tool(Editor, Debug, IDE, Common Component, Mobile IDE) and Test Tool(Test Reporting, Unit Test.)



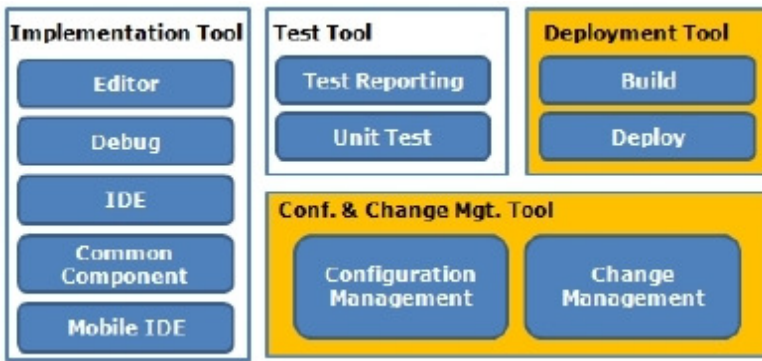
Detailed features of the Developer Development Environment are separated into two groups: core and optional components. Optional components are provided for convenience.

eGov standard framework provides lightweight development environment that consists of core components only. It is simple and easy for the developers to install and use the lightweight development environment. It is appropriate for small projects.

The framework also provides the integrated development environment that contains core and optional components for developer's convenience. Developers are advised to download and use the appropriate environment for the needs of their project.

#### Server IDE

Server IDE consists of Deployment Tool(Build, Deploy) and Conf. & Change Mgt. Tool(Configuration Management, Change Management.)

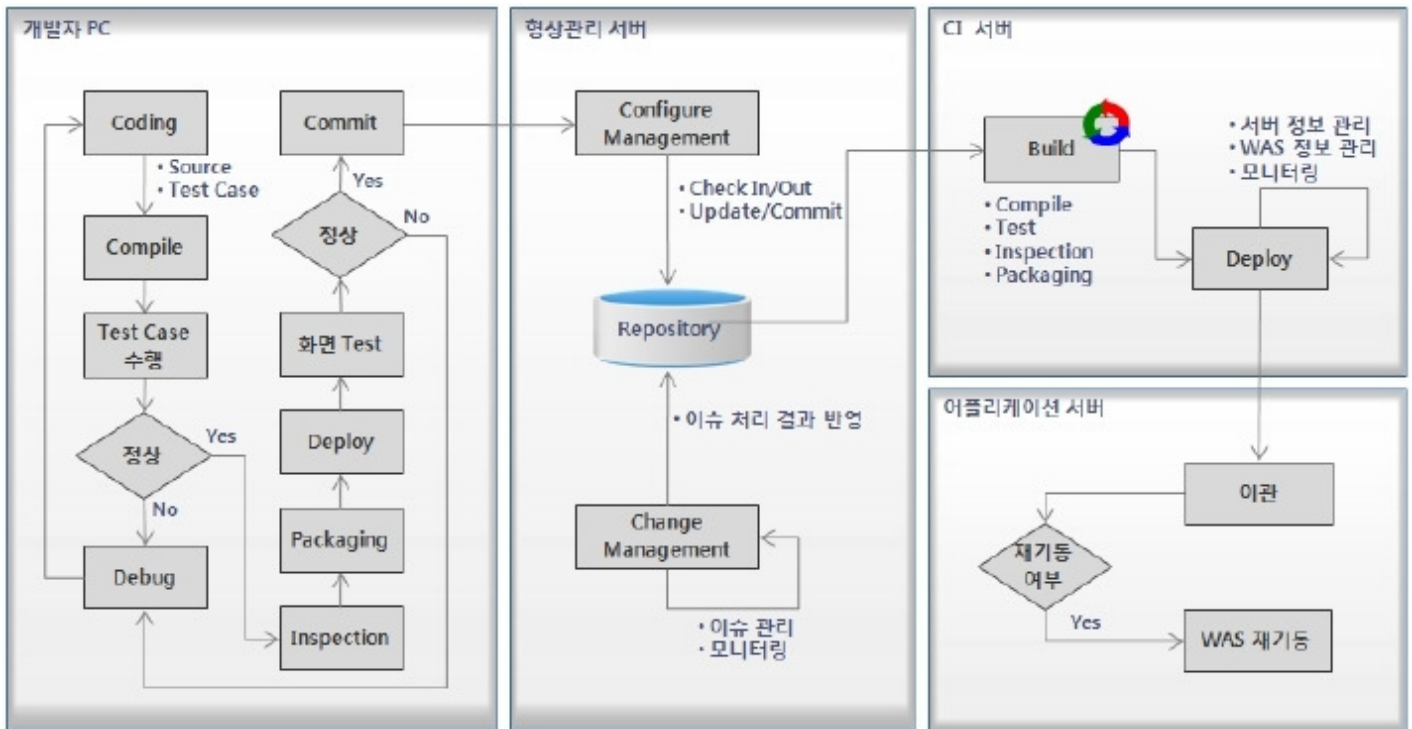


Server IDE of the Standard framework also provides both essential and optional features. According to the project, features in the Deployment Tool and the Conf. & Change Mgt. Tool are optionally selectable. (Server IDE)

## Development Process

The following diagram describes the possible development process using given IDE. The development process is separated into four areas, and detailed process for each area is shown below.

- Developer's Personal Computer
- Configuration Management Server
- CI Server
- Application Server



## Environmental settings

### Basic Environment

Components	Recommended Version	Notes
Java Development Kit	5.0	
Servlet	2.4	
Eclipse IDE for Java EE Developers	3.6	<a href="http://www.eclipse.org/downloads/">http://www.eclipse.org/downloads/</a> [ <a href="http://www.e">http://www.e</a>

### WAS

Name	Recommended Version	Java Compatibility	Note
Jboss application platform	4.3.0	JDK 5.0	
Tmax JEUS	6.0.0.5	JDK 5.0 or higher	
Oracle WebLogic Server	9.2	JDK 5.0 or higher	

## DBMS

Name	Recommended Version	Note
Mysql	5.1.30	
Tibero	3.0(sp2)	
Altibase DBMS Server	5.1.3.18	
Oracle	9.2(mp3)	

## Open Source Software Usage Status

Service Group	Service		Open Source Software	Version	License	Expansion & Development
Implementation Tool	Editor	Source Editor	Eclipse	3.6	EPL & EDL	
		IDE	N/A			Developed
		Common Component	N/A			Developed
		Customize Development Tool	N/A			Developed
		Mobile IDE	N/A			Developed
		Mobile Common Component	N/A			Developed
		Mobile Code Verification	N/A			Developed
		Add Plug-In	N/A			Developed
		UML Editor	AmaterasUML	1.3.2	EPL 1.0	
		ERD Editor	AmaterasERD	1.0.8	EPL 1.0	
		DBIO Editor	N/A			Developed
		Web Flow	Spring Web Flow	2.0.7		
		Code Generation	N/A			Developed
		Code Inspection	PMD, FindBugs	3.2.6, 1.3.9	BSD, LGPL	
		Server Connection Management	N/A			Developed
	Debug	Local Debug	Eclipse	3.6	EPL & EDL	
		Remote Debug	Eclipse	3.6	EPL & EDL	
TestTool	Unit Test	Test Case	JUnit	4.8.1, 3.8.2	C PL	
		Mock Support	EasyMock	3.0	MIT	
		DB Support	DbUnit	2.4.8	LGPL 2.1	
		Test Automation	Ant, Maven	1.8.2, 3.0.3	Apache License 2.0	
		Test Reporting	Ant, Maven	1.8.2, 3.0.3	Apache License 2.0	Feature added
		Test Coverage	EMMA	2.1	C PL	
		Test Case Generator	N/A			Developed
Deployment Tool	Build	Build Tool	Maven	3.0.3	Apache License 2.0	
		CI Server	Hudson	1.398	Creative Commons Attribution	
		Nexus	Nexus	1.8.0.1		
	Deploy		N/A			Developed
Conf.&Change Mgt.Tool	Configuration Management		Subversion		Subversion License	
	Change Management		jTrac		Apache License 2.0	RE-DEVELOPED UI

## Manual

IDE main screen introduces the development framework and environment. Users can manage the link URL information. A standard user should change link URL according to each project settings to use the development tool. The following process describes how to change the information.

1. Admin Login
  - Use the default Initial ID and password to login. Once successfully logged in, user should set a new password.
2. Management of Menus
  - Update the link URL information and enablement of each tool on the specified project.

## Environmental settings

1. Install IDE main tool
  - Download the main tool from the eGov standard framework portal (<http://www.egovframe.go.kr> [<http://www.egovframe.go.kr>]), and deploy to the WAS server.
2. Create DB Scheme
  - Download the DB Scheme creation sql for the main tool, connect to the DB and run the downloaded sql.

### 3. Change the DB connection information

After deploying the main tool, modify a WEB-INF/config/context-datasource.xml file under the deployed location of the WAS. Set it accordingly to the current project.

On deployment, a 'dev' user is registered on MySQL database as default.

## Intro screen



1. User can get to the main pages of each development tool.

2. In order to standard users use the tool, the admin should modify link URL to configure IDE settings suitable to the project.

## Admin Login

아이디

비밀번호

로그인

1. Enter an ID and password.
2. Press the 'Login' button.

## Management of Menus

### 메뉴 관리

개발환경 홈 > 메뉴 관리

메뉴명	URL	활성화 여부
Implementation Tool	<input type="text" value="http://www.egovframe.go.kr/wiki/doku.php?id=egovframework-dev"/>	<input checked="" type="radio"/> Y <input type="radio"/> N
Test Tool	<input type="text" value="http://www.egovframe.go.kr/wiki/doku.php?id=egovframework-dev"/>	<input checked="" type="radio"/> Y <input type="radio"/> N
Configuration Management Tool	<input type="text" value="http://www.egovframe.go.kr/wiki/doku.php?id=egovframework-dev"/>	<input checked="" type="radio"/> Y <input type="radio"/> N
Deployment Tool	<input type="text" value="http://192.168.100.16:8080/egovframework-dev-dep"/>	<input checked="" type="radio"/> Y <input type="radio"/> N
CI Tool	<input type="text" value="http://192.168.100.16:8080/hudson"/>	<input checked="" type="radio"/> Y <input type="radio"/> N
Change Management Tool	<input type="text" value="http://192.168.100.108:8080/issue"/>	<input checked="" type="radio"/> Y <input type="radio"/> N

1. Enter URLs and choose the active status for each tool.
2. Press the 'Save' button.