

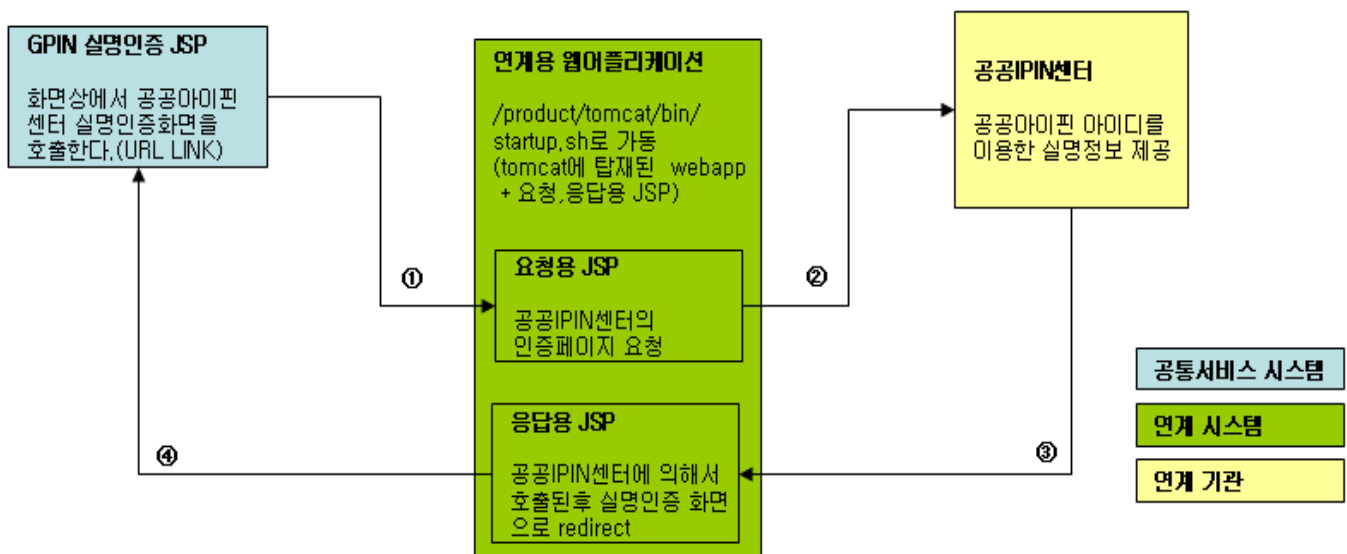
Public I-PIN real name verification

Summary

This is the component providing the public IPIN personal verification function which is generally used during the system construction, and it confirms the state of the person himself who is corresponded to the GPIN ID through the GPIN connection module. The common component is constructed so that it is to be used at the subscription stage of the members and corporate members. This function confirms the person himself through the public IPIN connection module, therefore, the web application for connection shall be provided by applying to the public IPIN center.

- Flow of functions

Name of function	Flow of function
Public IPIN personal verification	① Personal verification request URL call → ② Personal verification → ③ Personal verification reply URL call → ④ Result confirmation



Description

Package Dependency

Real name verification package has direct functional dependency only for the common package (cmm) of element technology.

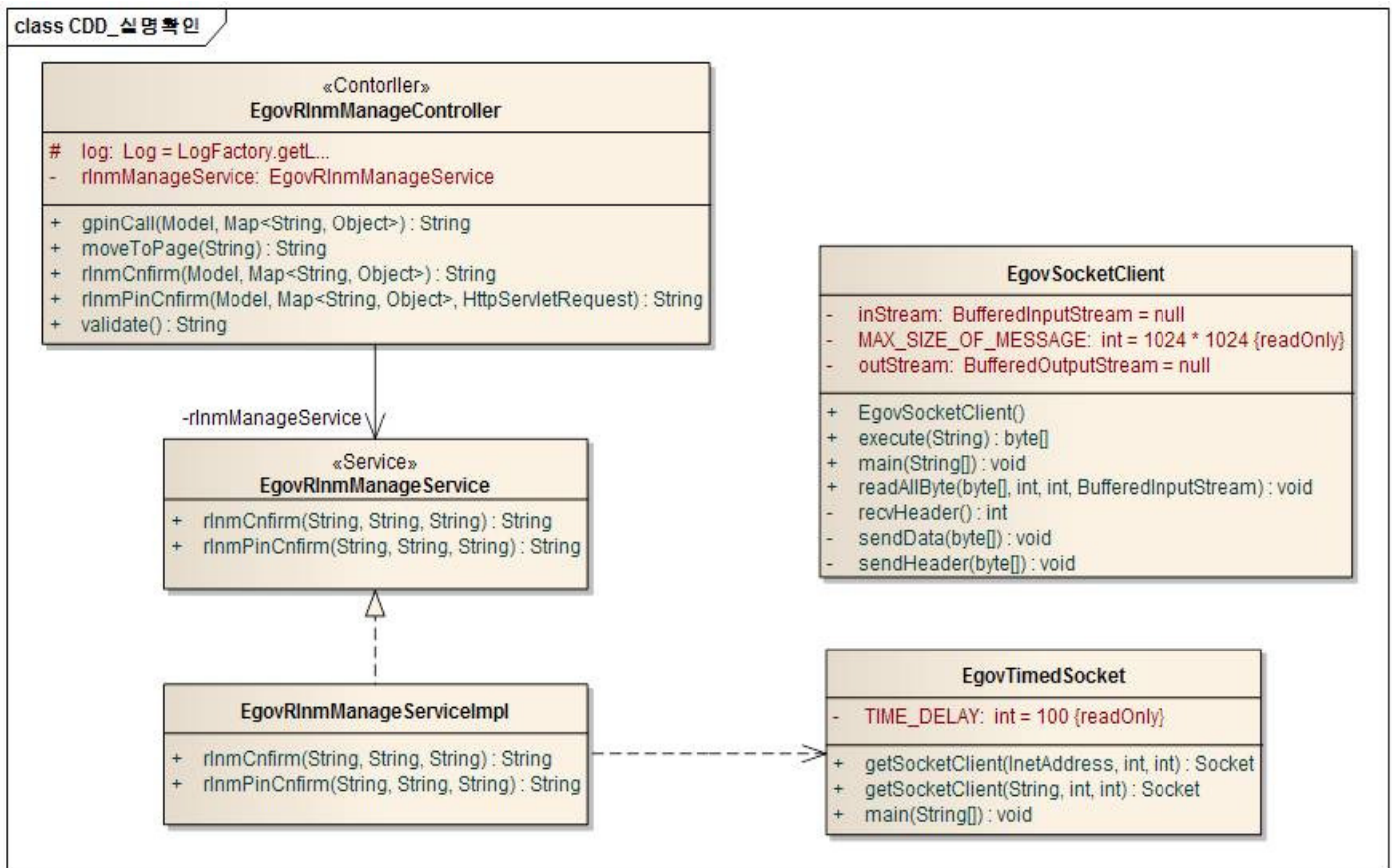
- Dependency between packages: [Security Package Dependency](#)

Related Sources

Type	Name of Corresponded Source	Remarks
Controller	egovframework.com.sec.rnc.web.EgovRInmManageController.java	Controller class for public I-PIN real name verification
Service	egovframework.com.sec.rnc.service.EgovRInmManageService.java	Service interface for public I-PIN real name verification

ServiceImpl	egovframework.com.sec.rnc.service.impl.EgovRlnmManageServiceImpl.java	Service implementation class for public I-PIN real name verification
Class for connection	egovframework.com.sec.rnc.service.EgovSocketClient.java	Client class for public I-PIN real name verification
Class for connection	egovframework.com.sec.rnc.service.EgovTimedSocket.java	Socket class for public I-PIN real name verification
JSP	/WEB-INF/jsp/egovframework/com/sec/rnc/EgovRlnmPinCnfirm.jsp	Page for public I-PIN real name verification

Class Diagram



Configuration

The item and application environment setup required for utilizing the public IPIN personal verification function are as follows.

1. Distribution module

GPIN connection module and the source for test are received from public IPIN center. Regarding the guide for configuration of provided module and basic installation, refer to the guide document of public IPIN center. (Refer to www.g-pin.go.kr.)

Provided module	Description
G-PIN ClientTomcat	This is the Tomcat Container which is installed for conducting the role of relay with G-PIN Center at utilization institution system.
G-PIN Client WebApp	This is the WebApp module to be placed above the Tomcat which is installed at the utilization institution
G-PIN Proxy and SamplePages	This is the module to be included at the WebApp inside of utilization institution which is to be applied. It is provided by dividing into for each development language (JSP, PHP, ASP, ASPX).
G-PIN SecurityKit	This is the section related with JAVA development environment, and it is the data to be installed for reinforcing security when using the security module at G-PIN Client.
G-PIN Utils	Certificate conversion Utils program

2. Operation system application procedure

Installation of module

(1) Construction and setup of Java development environment

```
export JAVA_HOME="/usr/java5_64/"
export JRE_HOME="/usr/java5_64/jre/"
```

(2) Java Security patch

The local_policy.jar and US_export_policy.jar are copied with the \$JAVA_HOME/jre/lib/security.

(3) Installation and driving of Tomcat

In the case of using separate tomcat for connection, the ClientTomcat module being distributed shall directly be executed. (In the case of using separate tomcat)

(4) G-PIN Client WebApp arrangement (Deploy)

In the case of using separate tomcat for connection, the Client WebApp being distributed shall be deployed to webapps of ClientTomcat module which is to be executed. (Execute tomcat after copying distribution module to webapps.)

(5) Installation of G-PIN Proxy and SamplePage

Add gpin-proxy-1.5.jar file to WEB-INF/lib route of web application.

Distributed sample sources shall be located at the deployed Client WebApp, and GPIN_CLIENT_HOST, GPIN_CLIENT_PORT, GPIN_CLIENT_CONTEXT shall be set up at gpin_proxy_properties.jsp. (Basically distributed setup shall be used and it will be changed if required.)

(6) Installation of GPKI certificate conversion program

Install conversion program at PC by executing SetupGFX.exe program. When certificate is issued from public IPIN center, generate PFX file through this program.

Setup of G-PIN Client

(1) Conversion of server certificate

Generate PFX file with distributed certificate conversion program (At this moment, certificate, key value, and password shall be in the state of being issued from public IPIN center.)

(2) Setup of gpin.properties

REQ_PARAM_SP_ID= The ID which is issued by applying to public IPIN center

REQ_PARAM_ISSUER_ID= The ID which is issued by applying to public IPIN center

CERT_KEY_ALIAS=jeus

REQ_PARAM_RESTRICT_ONLY_LOCAL=false

CERT_KEY_PASSWORD= Individual (confidential) key password of certificate for server

CERT_PFX_PASSWORD= Individual (confidential) key password of certificate for server

CERT_PFX_FILE_NAME=SVRxxxxxxxxxx_env.cer.pfx

CERT_KEYSTORE_PASSWORD= Individual (confidential) key password of certificate for server

CERT_KEYSTORE_NAME=SVRxxxxxxxxxx_env.jks

(3) Generation of KeyStore and Metadata

Generate following files by executing WEB-INF/makeAutoMeta.sh which is the automatic generation tool of metadata.

WEB-INF/gpin-config.xml

WEB-INF/metadata/SPID-metadata.xml

(4) Confirmation of installation

Confirm the installation details through the personal verification (Auth) test.

3. Application of service

In order to use GPIN personal verification service, the service shall be applied to the undertaking institution. (It can be applied by undertaking civil servant)

Apply public I-PIN service to public I-PIN center.

Apply certificate for server to administrative electronic signature certification center.

Related Functions

Before inputting subscription application information at the subscription stage, personal verification stage shall be passed through.

Public IPIN personal verification

Business rule


1. After agreeing the terms and condition, and passing through the personal verification, call the subscription application screen.
2. In the case of public IPIN, personal verification is conducted through the screen provided by the public IPIN center.
3. Verified resultant information can be confirmed through the session information because the screen which was set up for feedback during the request is included in the session information when calling it again at the public IPIN center, and the confirmed personal verification information is automatically inputted when inputting subscription application information. (It cannot be revised.)
4. When subscription procedure is progressed after selecting as member at login screen, it is connected to the member subscription screen after passing through the personal verification stage, and in the case of selecting corporate member, it is connected to the corporate member subscription application screen.

Related code

N/A

Screen and execution manual

Action	URL	Controller method
Personal verification	/sec/rnc/EgovRlnmCnfirm.do	rlnmCnfirm

 **공공IPIN 실명확인**

공공 마이핀 아이디를 사용하여 실명확인을 하십시오.

* 이용자의 개인정보를 보호하기 위해 웹사이트에 주민등록번호를 제공하지 않고 본인확인 하는 인터넷상의 개인식별번호 서비스입니다.
(gpin정보는 실명확인시 입력되는 정보로 설정되며 저장되지 않습니다.)

- Personal verification: It is moved to the personal verification screen provided by the public IPIN center so that the personal verification shall be passed through before inputting the subscription application information.
- Moving to GPIN personal verification: It is moved to the screen of performing the personal verification with public IPIN.
- Progressing of subscription: When the personal verification is completed, it is moved to the next stage screen. When the personal verification is not progressed or failed, corresponding message is displayed.
- ID finding: It is moved to the ID finding page of the public IPIN center.
- Password finding: It is moved to the password finding page of public IPIN center.
- Public IPIN center: It is moved to the home page of public IPIN center.

- Application of subscription: When the personal verification is completed, it is moved to the next stage screen. When the personal verification is not progressed or failed, corresponding message is displayed.

*** Actual certification is realized through the certification screen of the hpublic IPIN center which is called when clicking the public IPIN confirmation button.**

