**[[[egovframework:mcom: Location](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EC%9C%84%EC%B9%98%EC%A0%95%EB%B3%B4%EC%97%B0%EA%B3%84&do=backlink" \o "Backlinks) Information Connection]]**

**[eGovFrame](http://www.egovframe.org/wiki/doku.php" \o "[H])**

Top of form



Bottom of form

Top of form



Bottom of form

Top of form



Bottom of form

Top of form



Bottom of form

Top of form



Bottom of form

Trace: » [Common component guide](http://www.egovframe.org/wiki/doku.php?id=egovframework:%EA%B3%B5%ED%86%B5%EC%BB%B4%ED%8F%AC%EB%84%8C%ED%8A%B8%EA%B0%80%EC%9D%B4%EB%93%9C) » [Test 2](http://www.egovframe.org/wiki/doku.php?id=egovframework:%ED%85%8C%EC%8A%A4%ED%8A%B82) » [Test 1](http://www.egovframe.org/wiki/doku.php?id=egovframework:%ED%85%8C%EC%8A%A4%ED%8A%B81)  »  [Test 4](http://www.egovframe.org/wiki/doku.php?id=egovframework:%ED%85%8C%EC%8A%A4%ED%8A%B84)  »  [mms Service Connection v1.0](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:mms%EC%84%9C%EB%B9%84%EC%8A%A4%EC%97%B0%EA%B3%84v1.0)  »  [multimedia](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EB%A9%80%ED%8B%B0%EB%AF%B8%EB%94%94%EC%96%B4%EC%A0%9C%EC%96%B4) control » [Synchronization](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EB%8F%99%EA%B8%B0%ED%99%94%EC%84%9C%EB%B9%84%EC%8A%A4) Service » [mms Service Connection v2.0](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:mms%EC%84%9C%EB%B9%84%EC%8A%A4%EC%97%B0%EA%B3%84v2.0) » mcom » [Location](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EC%9C%84%EC%B9%98%EC%A0%95%EB%B3%B4%EC%97%B0%EA%B3%84) information connection

**Table of Contents**

* [Cooperation](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EC%9C%84%EC%B9%98%EC%A0%95%EB%B3%B4%EC%97%B0%EA%B3%84#협업_-_위치정보연계) – Location information connection
  + [Outline](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EC%9C%84%EC%B9%98%EC%A0%95%EB%B3%B4%EC%97%B0%EA%B3%84#개요)
  + [Premise](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EC%9C%84%EC%B9%98%EC%A0%95%EB%B3%B4%EC%97%B0%EA%B3%84#전제조건)
  + [Description](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EC%9C%84%EC%B9%98%EC%A0%95%EB%B3%B4%EC%97%B0%EA%B3%84#설명)
    - [Setup and Caution](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EC%9C%84%EC%B9%98%EC%A0%95%EB%B3%B4%EC%97%B0%EA%B3%84#설정_및_주의사항)
  + Related Function
    - [Mobile location information inquiry](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EC%9C%84%EC%B9%98%EC%A0%95%EB%B3%B4%EC%97%B0%EA%B3%84#모바일_위치정보_조회)
    - [Building location information list inquiry](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EC%9C%84%EC%B9%98%EC%A0%95%EB%B3%B4%EC%97%B0%EA%B3%84#건물_위치정보_목록조회)
    - [Building location information detailed inquiry](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EC%9C%84%EC%B9%98%EC%A0%95%EB%B3%B4%EC%97%B0%EA%B3%84#건물_위치정보_상세조회)
    - [Building location information register](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EC%9C%84%EC%B9%98%EC%A0%95%EB%B3%B4%EC%97%B0%EA%B3%84#건물_위치정보_등록)
    - [Building location information](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EC%9C%84%EC%B9%98%EC%A0%95%EB%B3%B4%EC%97%B0%EA%B3%84#건물_위치정보_수정) update
  + [Reference](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EC%9C%84%EC%B9%98%EC%A0%95%EB%B3%B4%EC%97%B0%EA%B3%84#참고자료)

**Cooperation –Location information connection**

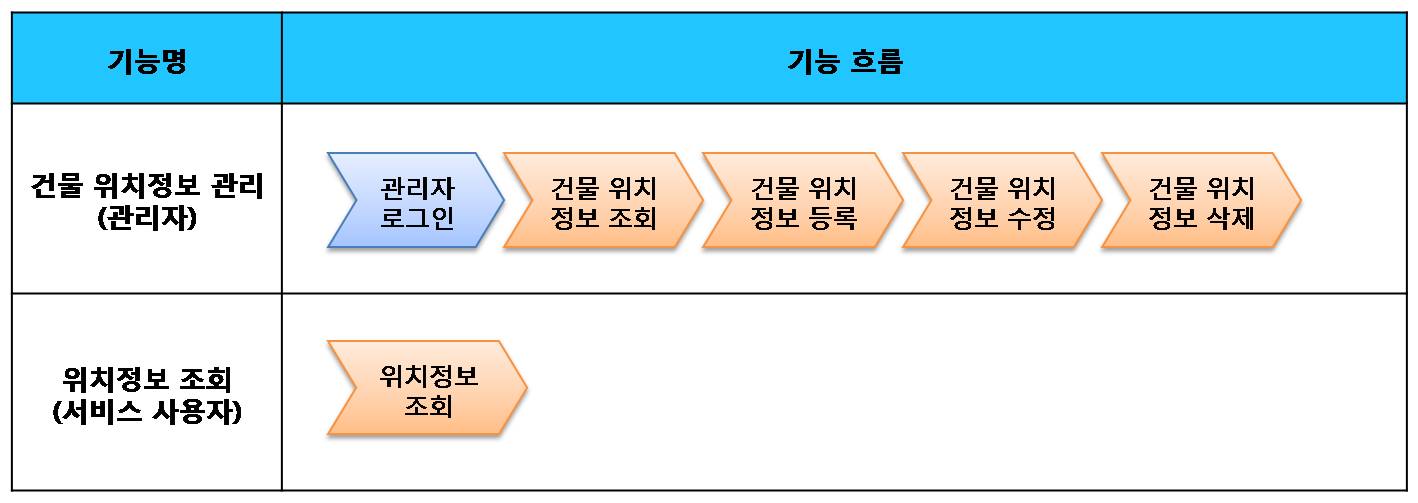
**Summary**

The location information connection is a component of attaining current location of users (altitude and latitude) which can be used in various location based services.

In attaining the current location of users, the GeoLocation API of HTML5 is used.

It searches location information of near buildings based on current location of the user and the manager manages the location information.

\* Function Flow



The development and testing of the mobile screen of this component is completed. It is also noted in development since the supports on HTML5 and CSS3 vary between the PC browser and mobile browser in the same brand.

The tested device and browsers are GalaxyS2, GalaxyS, iPad2, iPhone4, GalaxyTab1 and the web browsers, Firefox, Safari, Opera Mobile.

The test results are as following.

Android

The operation of HTML5, CSS3 and components of the Firefox(6.xx) and opera mobile was stable in android OS 2.3 (gengerbread).

However, in the lower version browsers, android 2.1, 2.2, the operation of components was unstable and UI realization was not smooth due to insufficient HTML5 and CSS3 supports.

For Opera Mobile, it caused problems in colors and event processing in UI. Therefore, it was excluded from the subject. Galaxy, GalxyS2 and GalaxyTab1 were chosen as test mobile devices.

iOS

The iOS is one of three supported browsers and was tested in versions 4.2 and 4.3. The support for HTML5 and CSS3 were relatively smooth.

iPhone4 and iPad2 were chosen as test mobile devices.

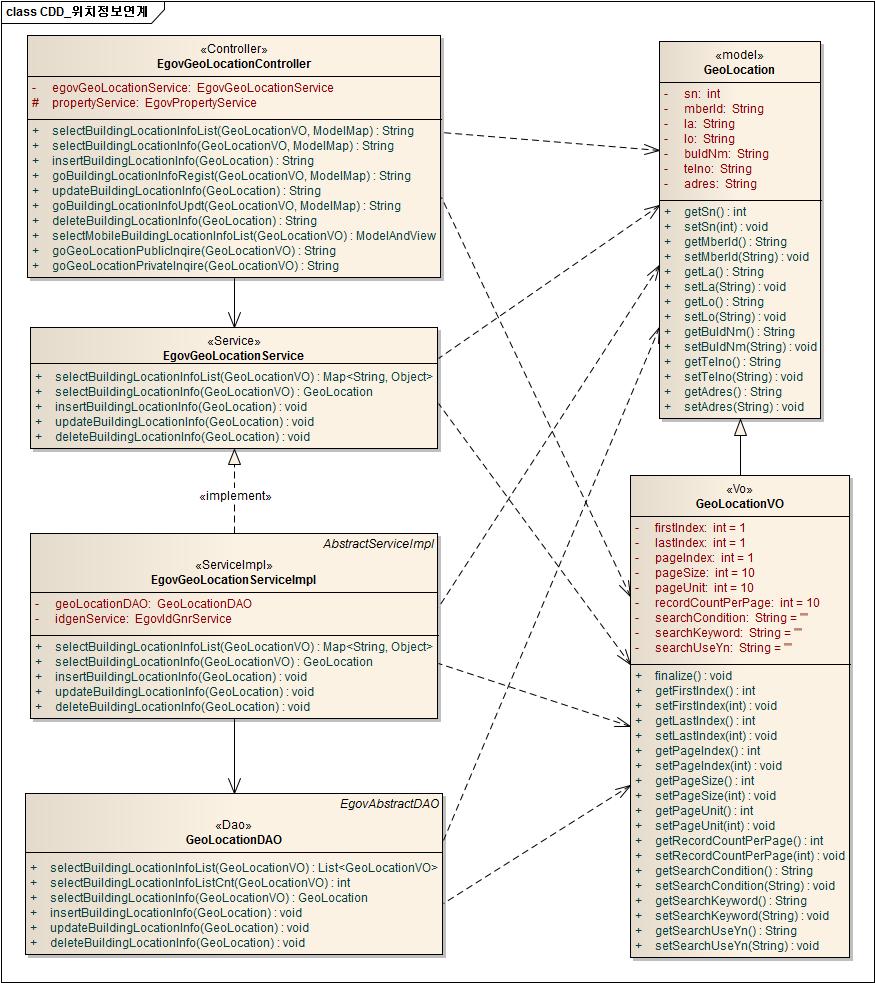
**Prerequisites**

In order to use two maps provided as samples of Mobile location information connection service, apply for the map API authentication key separately.   
- National Spatial Data Infrastructure map : <http://www.nsdi.go.kr/use/openapi/key/ahUseOpenAPIKey010.do>)   
- Daum map : <https://apis.daum.net/register/myapi.daum>)   
  
All authorities to use National Spatial Data Infrastructure and Daum maps are owned by those organizations  
Check the **'Daum map Open API  service terms and conditions** before using Daum map.   
(Daum map Open API service terms and conditions: <http://dna.daum.net/apis/mapagreement>)  
  
In addition to the sample maps, you can connect the service according to other map API terms and standards.

**Description**

Mobile location information connection is largely composed of building location information management (**building location information list inquiry, detail inquiry, registration, modification and deletion) and** **location information inquiry**  based on the current user location.(refer to the related functions)

**Class diagram**



**Related sources**

|  |  |  |
| --- | --- | --- |
| **Type** | **Target source name** | **Notes** |
| Controller | egovframework.mbl.com.geo.web.EgovGeoLocationController.java | location information connection Controller Class |
| Service | egovframework.mbl.com.geo.service.EgovGeoLocationService.java | location information connection Service Class |
| ServiceImpl | egovframework.mbl.com.geo.service.impl.EgovGeoLocationServiceImpl.java | location information connection ServiceImpl Class |
| Model | egovframework.mbl.com.geo.service.GeoLocation.java | location information connection Model Class |
| VO | egovframework.mbl.com.geo.service.GeoLocationVO.java | location information connection content VO Class |
| DAO | egovframework.mbl.com.geo.service.impl.GeoLocationDAO.java | location information connection Dao Class |
| JSP | /WEB-INF/jsp/egovframework/mbl/com/geo/EgovBuildingLocationInfoList.jsp | Building location information list inquiry page |
| JSP | /WEB-INF/jsp/egovframework/mbl/com/geo/EgovBuildingLocationInfoRegist.jsp | Building location information registration page |
| JSP | /WEB-INF/jsp/egovframework/mbl/com/geo/EgovBuildingLocationInfoUpdt.jsp | Building location information modification page |
| JSP | /WEB-INF/jsp/egovframework/mbl/com/geo/EgovBuildingLocationInfoDetail.jsp | Building location information detail inquiry page |
| JSP | /WEB-INF/jsp/egovframework/mbl/com/geo/EgovMobileGeoLocationPublicInqire.jsp | Mobile adjacent location information(public map) inquiry page |
| JSP | /WEB-INF/jsp/egovframework/mbl/com/geo/EgovMobileGeoLocationPrivateInqire.jsp | Mobile adjacent location information(private map) inquiry page |
| QUERY XML | resources/egovframework/sqlmap/mbl/com/geo/EgovGeoLocation\_SQL\_XXX.xml | location information connection QUERY XML |
| Validator Rule XML | resources/egovframework/validator/validator-rules.xml | XML that defines Validator Rule |
| Validator XML | resources/egovframework/validator/mbl/com/geo/EgovGeoLocation.xml | location information connection Validator XML |
| Message properties | resources/egovframework/message/message-common\_ko\_KR.properties | location information connection Message properties |
| Idgen XML | resources/egovframework/spring/com/context-idgen.xml | Building location information Id generation Idgen XML |

**ID Generation**

* In order to use ID Generation Service, add GEO\_ID (building location information ID) to COMTECOPSEQ, the sequence storing page.

**Related Tables**

|  |  |  |
| --- | --- | --- |
| **Table name** | **Table name (English)** | **Notes** |
| location information | COMTNGEOLOCATION | Manage building location information |

**Login / membership management / permission management**

location information connection requires in the administrator authentication in **building information list inquiry, detail inquiry, registration, modification and deletion**.  
For authentication, you can connect with login, membership management and permission management components. If you use Spring Security for authentication, make change as in the followings.

**src/main/java/resources/egovframework/spring/com/context-egovuserdetailshelper.xml**

<!--Service class that can check the authenticated user’s LoginVO, permissions and authentication-->

<bean id="egovUserDetailsHelper" class="egovframework.com.cmm.util.EgovUserDetailsHelper">

<property name="egovUserDetailsService">

<ref bean="egovUserDetailsSecurityService" />

</property>

</bean>

<!-- Bean that will use Security-based authentication-->

<bean id="egovUserDetailsSecurityService" class="egovframework.com.sec.ram.service.impl.EgovUserDetailsSecurityServiceImpl"/>

**web.xml**

<!-- 2. Spring Security Setup-->

<filter>

<filter-name>springSecurityFilterChain</filter-name>

<filter-class>org.springframework.web.filter.DelegatingFilterProxy</filter-class>

</filter>

<filter-mapping>

<filter-name>springSecurityFilterChain</filter-name>

<url-pattern>/\*</url-pattern>

</filter-mapping>

<listener>

<listener-class>org.springframework.security.ui.session.HttpSessionEventPublisher</listener-class>

</listener>

<!-- security end -->

<!-- 4. Filter setup for Spring Security logout setup-->

<filter>

<filter-name>EgovSpringSecurityLogoutFilter</filter-name>

<filter-class>egovframework.com.sec.security.filter.EgovSpringSecurityLogoutFilter</filter-class>

</filter>

<filter-mapping>

<filter-name>EgovSpringSecurityLogoutFilter</filter-name>

<url-pattern>/uat/uia/actionLogout.do</url-pattern>

</filter-mapping>

<!-- 4. Filter setup for Spring Security login setup -->

<filter>

<filter-name>EgovSpringSecurityLoginFilter</filter-name>

<filter-class>egovframework.com.sec.security.filter.EgovSpringSecurityLoginFilter</filter-class>

</filter>

<filter-mapping>

<filter-name>EgovSpringSecurityLoginFilter</filter-name>

<url-pattern>\*.do</url-pattern>

</filter-mapping>

As in the above, add Spring Security filter to web.xml.

For details on login/membership management/permission management, refer to the followings.

* login: [general login](http://www.egovframe.org/wiki/doku.php?id=egovframework:%EC%9D%BC%EB%B0%98_%EB%A1%9C%EA%B7%B8%EC%9D%B8#일반로그인)
* Membership management: [user management](http://www.egovframe.org/wiki/doku.php?id=egovframework:%EC%82%AC%EC%9A%A9%EC%9E%90_%EA%B4%80%EB%A6%AC)
* Permission management: [Permission management](http://www.egovframe.org/wiki/doku.php?id=egovframework:%EA%B6%8C%ED%95%9C%EA%B4%80%EB%A6%AC)

The following pages need the user/administrator permissions.

|  |  |  |
| --- | --- | --- |
| **Permission type** | **page path** | **description** |
| Administrator | /mbl/com/syn/selectBuildingLocationInfoList.mdo | building information list inquiry screen |
| Administrator | /mbl/com/syn/selectBuildingLocationInfo.mdo | building information detail inquiry screen |
| Administrator | /mbl/com/syn/goBuildingLocationInfoRegist.mdo | building information registration screen |
| Administrator | /mbl/com/syn/insertBuildingLocationInfo.mdo | building information registration |
| Administrator | /mbl/com/syn/goBuildingLocationInfoUpdt.mdo | building information modification screen |
| Administrator | /mbl/com/syn/updateBuildingLocationInfo.mdo | building information modification |
| Administrator | /mbl/com/syn/deleteBuildingLocationInfo.mdo | building information deletion |

**Settings and Notes**

\* The currently distributed mobile common component adopts HTML5 and CSS3 and this means that it doesn’t support the standards for mobile web site validity check of Mobile OK and W3C. For details on correct validity check, please contact the competent professional institute.  
\* The currently distributed mobile component V 2.0 has completed the security verification.

**Related functions**

Mobile location information connection service is largely composed of **Mobile location information inquiry** for users and **building location information list inquiry**, **building location information detail inquiry**, **building location information registration**, **building location information modification**, **building location information deletion** for administrators.

**Mobile location information inquiry**

**Business rules**

You can retrieve the location information of neighboring buildings based on the current user location.   
  
To use this, you need to set up as in the page in the following.

<script type="text/javascript" src="http://www.nsdi.go.kr/use/openapi/key/certifyKey.do?oap\_key=issued authentication key" charset="utf-8"></script>

or

<script type="text/javascript" src="http//apis.daum.net/maps/maps3.js?apikey=issued authentication key"></script>

Input the previously issued authentication key to the ***”issued authentication key”*** in the above code.  
  
To use another map API, you can modify the following to suit the map API.

<!-- Map API\* -->

Modify below

// Set up ZoomLevel based on the inquiry scope.\*

Modify below

// Current location coordinates\*

Modify below

// set up a map\*

Modify below

// create a map\*

Modify below

// Display current location marker\*

Modify below

// Create information window\*

Modify below

// building icon\*

Modify below

// Display building marker within the inquiry scope\*

Modify below

// Draw the inquiry scope circle \*

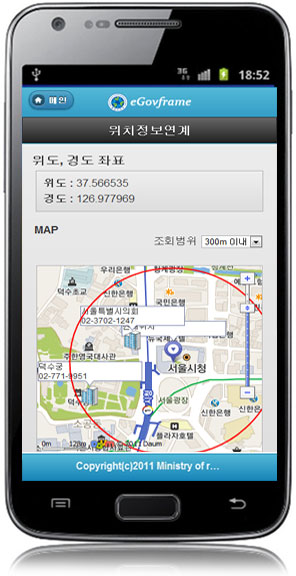
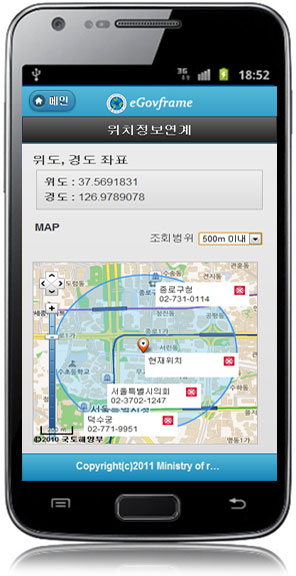
Modify below

**Related codes**

N/A

**Screen and execution manual**

|  |  |  |  |
| --- | --- | --- | --- |
| **Action** | **URL** | **Controller method** | **QueryID** |
| Change inquiry scope | /mbl/com/geo/selectMobileBuildingLocationInfoList.mdo | selectMobileBuildingLocationInfoList | “GeoLocationDAO.selectBuildingLocationInfoList” |



Change inquiry scope: every time the inquiry scope is changed, the building location information within the inquiry scope is retrieved.

**Building location information list inquiry**

**Business rules**

You can use the inquiry conditions to retrieve lists, or click the Register button to move to the building location information registration screen to register building location information.

**Related codes**

N/A

**Screen and execution manual**

|  |  |  |  |
| --- | --- | --- | --- |
| **Action** | **URL** | **Controller method** | **QueryID** |
| Inquiry | /mbl/com/geo/selectBuildingLocationInfoList.mdo | selectBuildingLocationInfoList | “GeoLocationDAO.selectBuildingLocationInfoList” |
|  | /mbl/com/geo/selectBuildingLocationInfoList.mdo | selectBuildingLocationInfoListCnt | “GeoLocationDAO.selectBuildingLocationInfoListCnt” |
| Register | /mbl/com/geo/goBuildingLocationInfoRegist.mdo | goBuildingLocationInfoRegist |  |
| Click list | /mbl/com/geo/selectBuildingLocationInfo.mdo | selectBuildingLocationInfo | “GeoLocationDAO.selectBuildingLocationInfo” |

10 building location information lists page are retrieved per page and paging is carried out on 10 page basis. The search conditions are building name, telephone number and address.  
To change the search range per page, modify pageUnit and pageSize in context-properties.xml (This setting have an influence on the entire common service functions.).



Inquiry: in order to retrieve the building location information, select search conditions in the top, enter a key word and click the Inquiry button.  
Register: to register building location information, use the Register button in the top to move to building location information registration screen.   
Click the list: moves to the **building location information detail inquiry** screen.

**Building location information detail inquiry**

**Business rules**

By clicking a list on building location information list inquiry, you can move to this screen, which shows details on the building location information.

**Related codes**

N/A

**Screen and execution manual**

|  |  |  |  |
| --- | --- | --- | --- |
| **Action** | **URL** | **Controller method** | **QueryID** |
| modify | /mbl/com/geo/goBuildingLocationInfoUpdt.mdo | goBuildingLocationInfoUpdt |  |
| delete | /mbl/com/geo/deleteBuildingLocationInfo.mdo | deleteBuildingLocationInfo | “GeoLocationDAO.deleteBuildingLocationInfo” |
| list | /mbl/com/geo/selectBuildingLocationInfoList.mdo | selectBuildingLocationInfoList | “GeoLocationDAO.selectBuildingLocationInfoList” |

On the building location information detail inquiry screen, you can carry out building location information modification, building location information deletion and building location information list inquiry.



Modify: click the Modify button to move to the screen for modifying the building location information.   
Delete: Click the Delete button to delete information after being prompted to select whether to delete.   
List: moves to the **building location information list inquiry** screen.

**building location information registration**

**Business rules**

- The red \* at the right of input entry indicates the required item..

- When stored, GEO\_ID column is automatically granted through “egovframework.rte.fdl.idgnr.impl.EgovTableIdGnrService”.

Primary Key => GEO\_ID : a serial number is automatically granted.

<bean name="egovGeoLocationIdGnrService"

class="egovframework.rte.fdl.idgnr.impl.EgovTableIdGnrService"

destroy-method="destroy">

<property name="dataSource" ref="dataSource" />

<property name="blockSize" value="10"/>

<property name="table" value="COMTECOPSEQ"/>

<property name="tableName" value="GEO\_ID"/>

</bean>

**Related codes**

N/A

**Screen and execution manual**

|  |  |  |  |
| --- | --- | --- | --- |
| **Action** | **URL** | **Controller method** | **QueryID** |
| Register | /mbl/com/geo/insertBuildingLocationInfo.mdo | insertBuildingLocationInfo | “GeoLocationDAO.insertBuildingLocationInfo” |
| List | /mbl/com/geo/selectBuildingLocationInfoList.mdo | selectBuildingLocationInfoList | “GeoLocationDAO.selectBuildingLocationInfoList” |

The basic data on building location information is inputted and stored.



Register: stores the inputted building location information.   
List: moves to the **building location information list inquiry** screen.

**building location information modification**

**Business rules**

- The red \* at the right of input entry indicates the required item..

**Related codes**

N/A

**Screen and execution manual**

|  |  |  |  |
| --- | --- | --- | --- |
| **Action** | **URL** | **Controller method** | **QueryID** |
| modify | /mbl/com/geo/updateBuildingLocationInfo.mdo | updateBuildingLocationInfo | “GeoLocationDAO.updateBuildingLocationInfo” |
| List | /mbl/com/geo/selectBuildingLocationInfoList.mdo | selectBuildingLocationInfoList | “GeoLocationDAO.selectBuildingLocationInfoList” |

The inputted building location information is stored.



Modify: stores the modified building location information.   
List: moves to the **building location information list inquiry** screen.

**References**

* Refer to execution environment: [ID Generation Service](http://www.egovframe.org/wiki/doku.php?id=egovframework:rte:fdl:id_generation#table_id_generation_service)
* Distribution and test: [Mobile Common Component System](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:mobile_common_component_system) and [distribution package plan](http://www.egovframe.org/wiki/doku.php?id=egovframework:mcom:%EB%AA%A8%EB%B0%94%EC%9D%BC_%EB%B0%B0%ED%8F%AC_%ED%8C%A8%ED%82%A4%EC%A7%80_%EA%B5%AC%EC%84%B1%EC%95%88)
* Related database structure and schema: Related database structure and schema

egovframework/mcom/location information연계.txt · Last modified: 2011/11/02 15:24 by com

Top of form



Bottom of form

Top of form



Bottom of form

Top of form



Bottom of form

Top of form



Bottom of form

Except where otherwise noted, content on this wiki is licensed under the following license:[CC Attribution-Noncommercial-Share Alike 3.0 Unported](http://creativecommons.org/licenses/by-nc-sa/3.0/)

