

# [[[egovframework:mcom: Location Information Connection](#)]]

**EGOVFRAME**

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## 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

기능명	기능 흐름
건물 위치정보 관리 (관리자)	
위치정보 조회 (서비스 사용자)	

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 (gingerbread).

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, GalaxyS2 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>

- Daummap : <https://apis.daum.net/register/myapi.daum>

All authorities to use National Spatial Data Infrastructure and Daummaps are owned by those organizations

Check the '**Daummap Open API service terms and conditions**' before using Daummap.

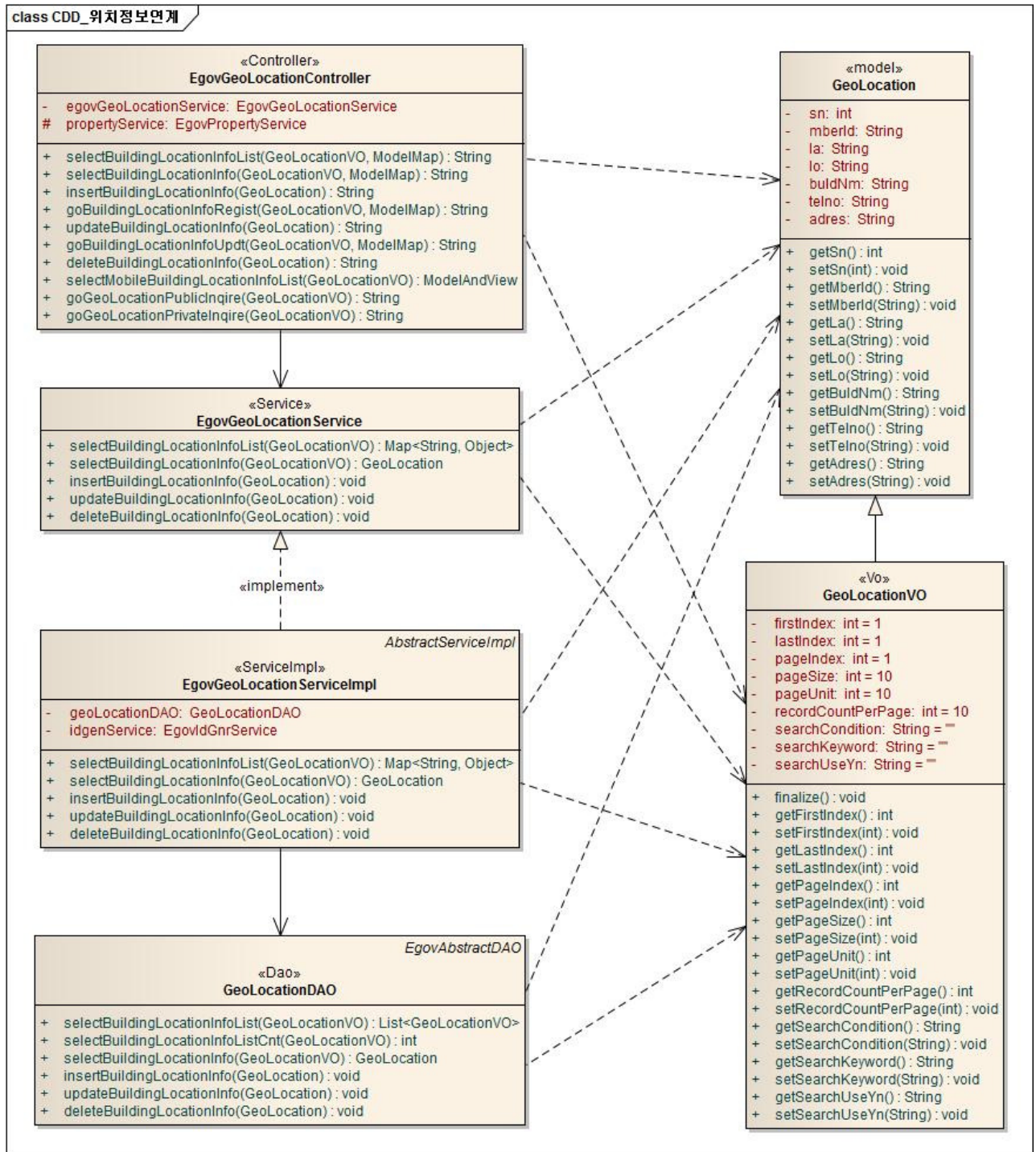
(Daummap Open API service terms and conditions: <http://dna.daum.net/apis/mapagreement>)

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 buildinglocation information management (**buildinglocation informationlist inquiry, detail inquiry, registration, modification and deletion**) and **location informationinquiry** based on the current user location.(refer to the related functions)

### Class diagram



### Related sources

<b>Type</b>	<b>Target source name</b>	<b>Notes</b>
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/EgovMobileGeoLocationPublicInquire.jsp	Mobile adjacent location information (public map) inquiry page
JSP	/WEB-INF/jsp/egovframework/mbl/com/geo/EgovMobileGeoLocationPrivateInquire.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	resources/egovframework/validator/mbl/com/geo/EgovGeoL	location information

XML	ocation.xml	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 generationIdgen XML

### ID Generation

- In order to use ID Generation Service, add GEO\_ID (buildinglocation informationID) to COMTECOPSEQ, the sequence storing page.

### Related Tables

Table name	Table name (English)	Notes
location information	COMTNGEOLOCATION	Manage buildinglocation information

### Login / membership management / permission management

location information connection requires in the administrator authentication in **buildinginformationlist 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="egovUserDetailsService"/>
</property>
</bean>

<!-- Bean that will use Security-based authentication-->
<bean id="egovUserDetailsService" class="egovframework.com.sec.ram.service.impl.EgovUserDetailsServiceImp
"/>

```

### 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](#)
- Membership management: [user management](#)
- Permission management: [Permission management](#)

The following pages need the user/administrator permissions.

<b>Permission type</b>	<b>pagepath</b>	<b>description</b>
Administrator	/mbl/com/syn/selectBuildingLocationInfoList.mdo	buildinginformationlist inquiry screen
Administrator	/mbl/com/syn/selectBuildingLocationInfo.mdo	buildinginformationdetail inquiry screen
Administrator	/mbl/com/syn/goBuildingLocationInfoRegist.mdo	buildinginformationregistrationscreen
Administrator	/mbl/com/syn/insertBuildingLocationInfo.mdo	buildinginformationregistration
Administrator	/mbl/com/syn/goBuildingLocationInfoUpdt.mdo	buildinginformationmodificationscreen
Administrator	/mbl/com/syn/updateBuildingLocationInfo.mdo	buildinginformationmodification
Administrator	/mbl/com/syn/deleteBuildingLocationInfo.mdo	buildinginformationdeletion

## 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 **Mobilelocation informationinquiry** for users and **buildinglocation informationlist inquiry, buildinglocation informationdetail inquiry,buildinglocation informationregistration, buildinglocation informationmodification, buildinglocation informationdeletion** for administrators.

## Mobilelocation informationinquiry

### 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.nsdic.go.kr/use/openapi/key/certifikey.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 ZoomLevelbased 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
// buildingicon*
Modify below
// Display buildingmarker 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.



## Buildinglocation informationlist inquiry

### Business rules

You can use the inquiry conditions to retrieve lists, or click the Register button to move to the buildinglocation informationregistrationscreen to registerbuildinglocation information.

### Related codes

N/A

### Screen and execution manual

<b>Action</b>	<b>URL</b>	<b>Controller method</b>	<b>QueryID</b>
Inquiry	/mbl/com/geo/selectBuildin gLocationInfoList.mdo	selectBuildingLocatio nInfoList	“GeoLocationDAO.selectBuildingL ocationInfoList”
	/mbl/com/geo/selectBuildin gLocationInfoList.mdo	selectBuildingLocatio nInfoListCnt	“GeoLocationDAO.selectBuildingL ocationInfoListCnt”
Register	/mbl/com/geo/goBuildingLo cationInfoRegist.mdo	goBuildingLocationIn foRegist	
Click list	/mbl/com/geo/selectBuildin gLocationInfo.mdo	selectBuildingLocatio nInfo	“GeoLocationDAO.selectBuildingL ocationInfo”

10 buildinglocation informationlistspageare 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.).

The screenshot shows the eGovFrame Portal interface. At the top, there is a navigation bar with the eGovframe logo and a '목록' (List) button. Below this, there is a search section titled '건물 위치 정보 목록조회' (Building Location Information List Search). It includes a dropdown menu for selection, a search input field, and buttons for '조회' (Search) and '등록' (Register).

번호	건물명	전화번호	주소	위도	경도
1	서울시 교육청	02-399-9114	서울특별시 종로구 신문로2가 2-77	37,570121	126,966781
2	덕수궁	02-771-9951	서울특별시 중구 정동 5-1	37,565847	126,975212
3	정부종합청사		서울특별시 종로구 사직동	37,575051	126,975217
4	종로구청	02-731-0114	서울특별시 종로구 수송동 146-2	37,573171	126,979519
5	서울특별시의회	02-3702-1247	서울특별시 중구 태평로1가 60-1	37,567457	126,976601
6	서울특별시청 서소문별관		서울특별시청 서소문별관	37,564368	126,975525

Below the table, there is a page indicator '1'.

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Inquiry: in order to retrieve the buildinglocation information, select search conditions in the top, enter a key word and click the Inquiry button.

Register: to register buildinglocation information, use the Register button in the top to move to buildinglocation informationregistrationscreen.

Click the list: moves to the **buildinglocation informationdetail inquiry** screen.

## Buildinglocation informationdetail inquiry

### Business rules

By clicking a list on buildinglocation informationlist inquiry, you can move to this screen, which shows details on the buildinglocation 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 buildinglocation informationdetail inquiry screen, you can carry out buildinglocation informationmodification, buildinglocation informationdeletion andbuildinglocation informationlist inquiry.



Modify: click the Modify button to move to the screen for modifying the buildinglocation information.

Delete: Click the Delete button to delete information after being prompted to select whether to delete.

List: moves to the **buildinglocation informationlist inquiry** screen.

## buildinglocation informationregistration

### 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

<b>Action</b>	<b>URL</b>	<b>Controller method</b>	<b>QueryID</b>
Register	/mbl/com/geo/insertBuildingLocationInfo.mdo	insertBuildingLocationInfo	"GeoLocationDAO.insertBuildingLocationInfo"
List	/mbl/com/geo/selectBuildingLocationInfoList.mdo	selectBuildingLocationInfoList	"GeoLocationDAO.selectBuildingLocationInfoList"

The basic data on buildinglocation information is inputted and stored.



Register: stores the inputted buildinglocation information.

List: moves to the **buildinglocation informationlist inquiry** screen.

## buildinglocation informationmodification

### Business rules

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

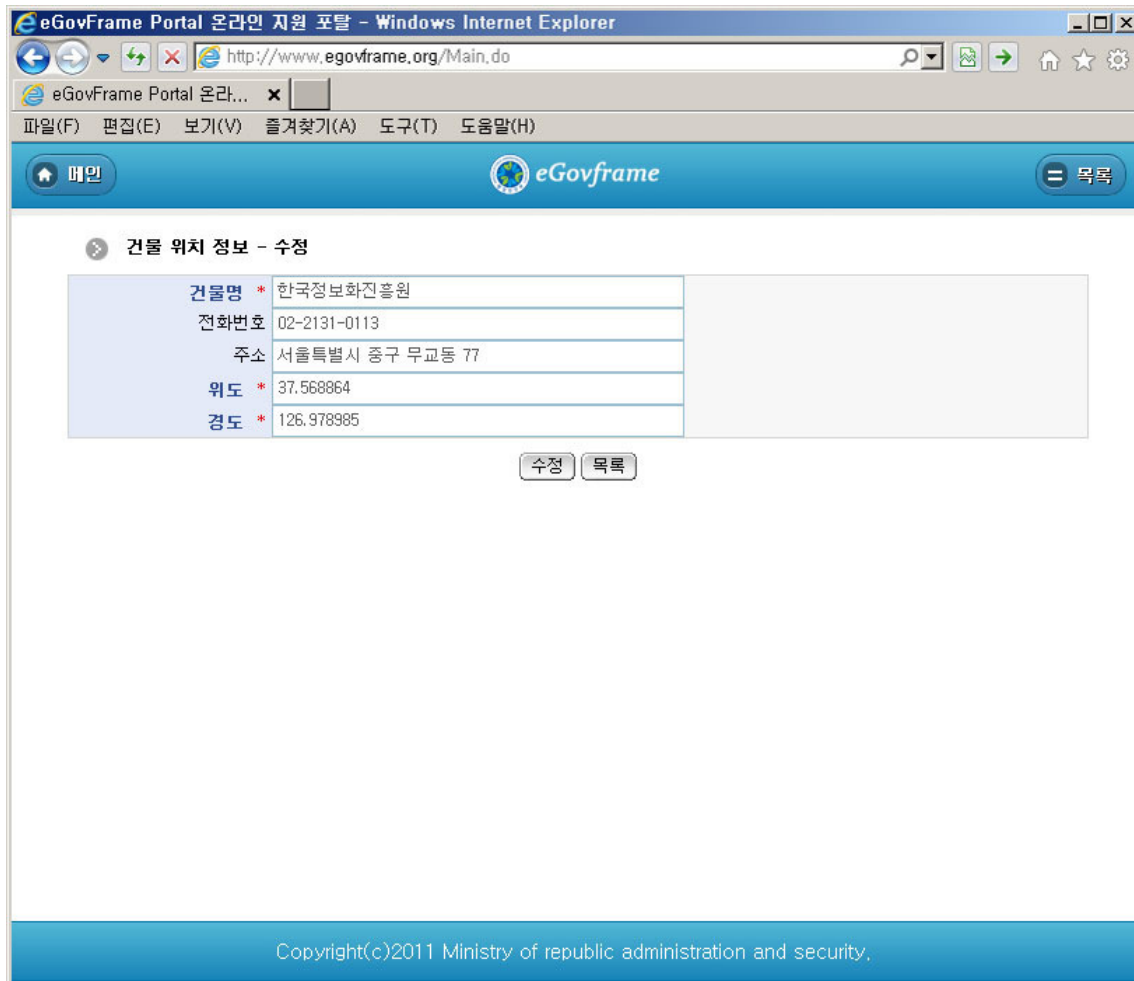
### Related codes

N/A

### Screen and execution manual

<b>Acti on</b>	<b>URL</b>	<b>Controller method</b>	<b>QueryID</b>
mod ify	/mbl/com/geo/updateBuildingLoc ationInfo.mdo	updateBuildingLoca tionInfo	"GeoLocationDAO.updateBuilding LocationInfo"
List	/mbl/com/geo/selectBuildingLoca tionInfoList.mdo	selectBuildingLocati onInfoList	"GeoLocationDAO.selectBuilding LocationInfoList"

The inputted buildinglocation 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](#)
- Distribution and test: [Mobile Common Component System](#) and [distribution package plan](#)
- Related database structure and schema: [Related database structure and schema](#)

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

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