

# [[ egovframework:mcom:multimedia control ]]

**EGOVFRAME**

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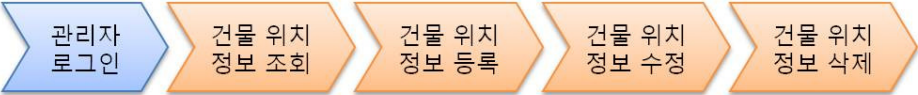
## Digital Asset Management - Multimedia Control

### Summary

Multimedia Control provides a function that plays and explores video and songs stored in the server on the mobile web interface and a function to manage multimedia information.

For Multimedia Control, video and audio tags provided by HTML5 are used. Without a plug-in, you can play video and music files by using the codec within the browser.

\* Flow chart

기능명	기능 흐름
멀티미디어 정보 관리 (관리자)	
멀티미디어 조회 (서비스 사용자)	

This component has been developed and tested on the browsers available in the mobile devices.

Since the browser support is different depending the device (PC or mobile device), development and application should be carefully carried out.

The test devices include Galaxy S2, Galaxy S, Galaxy Tab 1, iPad2, iPhone 4.

The test mobile browsers include Android basic browser, Firefox, Safari and Opera Mobile.

#### Android

For the Android web browser, Firefox(6.xx), opera mobile, in android OS 2.3(gingerbread), the execution of HTML5, CSS3 and components is supported stably.

However, in Android 2.1, 2.2, the previous version of Android OS 2.3 (gingerbread), the support for HTML5 and CSS3 is not sufficient to implement the component UI properly.

Opera Mobile was excluded from the support as it caused some problems with handling colors and events.

For testing, Galaxy, Galaxy S2 and Galaxy Tab 1 were used.

#### iOS

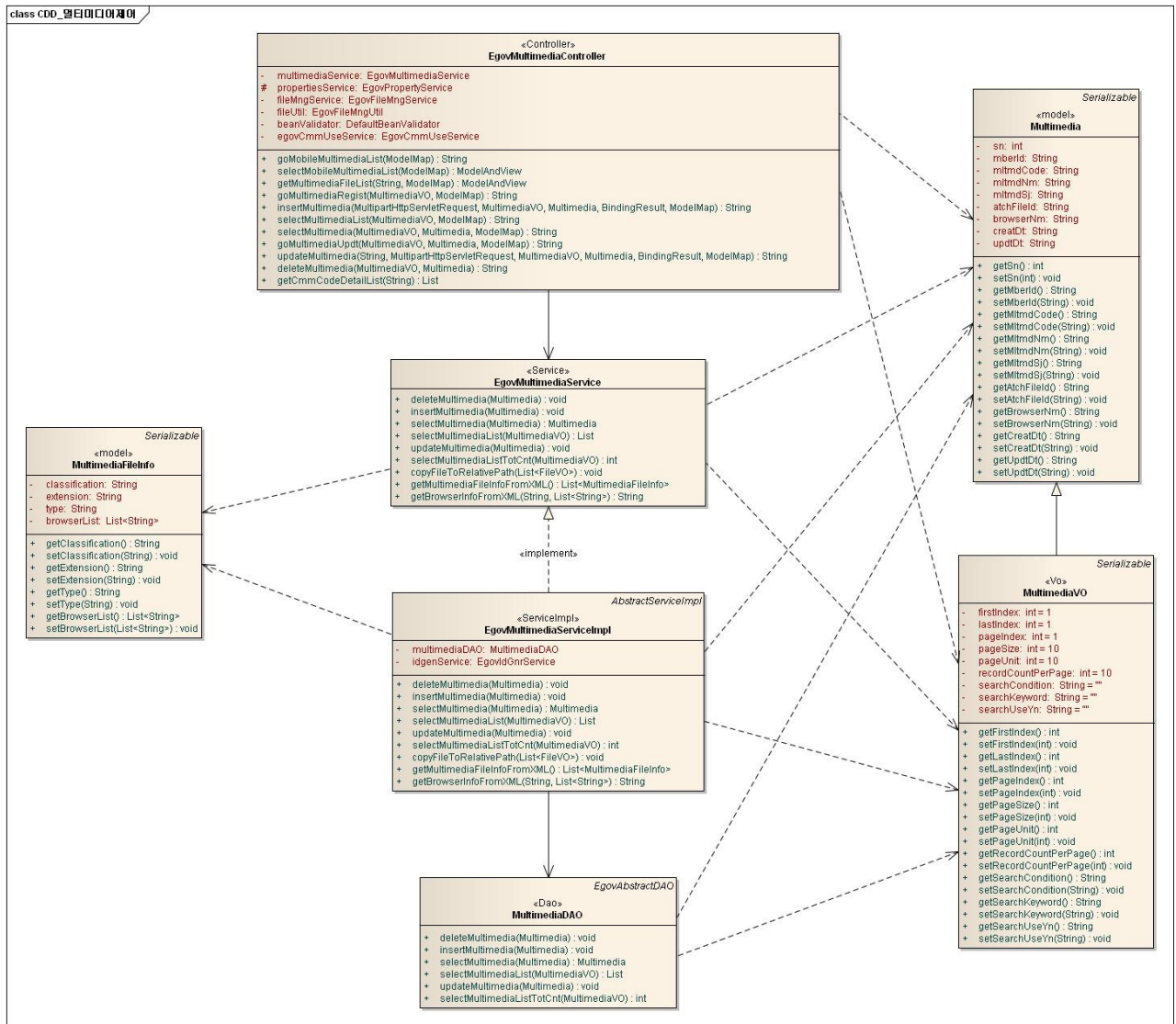
iOS is one of the three supported browsers and both version (iOS 4.2, 4.3) supported HTML5 and CSS3 relatively well.

iPhone4 and iPad2 were used for testing.

### Description

Multimedia Control is largely composed of the multimedia information management function ( **Multimedia Information List Inquiry, Detail Inquiry, registration, modification and deletion**) and Multimedia Information based **multimedia inquiry** function.(refer to related functions)

#### Class diagram



## Related sources

Types	Source names	Notes
Controller	egovframework.mbl.com.mlt.web.EgovMultimediaController.java	Multimedia Control Controller Class
Service	egovframework.mbl.com.mlt.service.EgovMultimediaService.java	Multimedia Control Service Class
ServiceImpl	egovframework.mbl.com.mlt.service.impl.EgovMultimediaServiceImpl.java	Multimedia Control ServiceImpl Class
Model	egovframework.mbl.com.mlt.service.Multimedia.java	Multimedia Control Model Class
VO	egovframework.mbl.com.mlt.service.MultimediaVO.java	Multimedia

		Control VO Class
DAO	egovframework.mbl.com.mlt.service.impl.MultimediaDAO.java	Multimedia Control Dao Class
JSP	/WEB-INF/jsp/egovframework/mbl/com/mlt/EgovMultimediaList.jsp	Multimedia Information List Inquiry Page
JSP	/WEB-INF/jsp/egovframework/mbl/com/mlt/EgovMultimediaRegist.jsp	Multimedia Information Registration Page
JSP	/WEB-INF/jsp/egovframework/mbl/com/mlt/EgovMultimediaUpdt.jsp	Multimedia Information Modification Page
JSP	/WEB-INF/jsp/egovframework/mbl/com/mlt/EgovMultimediaDetail.jsp	Multimedia Information Detail Inquiry Page
JSP	/WEB-INF/jsp/egovframework/mbl/com/mlt/EgovMobileMultimediaList.jsp	Mobile Multimedia Inquiry Page
Mutimedia File Info XML	java/egovframework/mbl/com/mlt/service/impl/MultimediaFileInfo.xml	Multimedia File information XML
QUERY XML	resources/egovframework/sqlmap/mbl/com/mlt/EgovMultimedia_SQL_XX X.xml	Multimedia Control QUERY XML
Validator Rule XML	resources/egovframework/validator/validator-rules.xml	XML that defines Validator Rule
Validator XML	resources/egovframework/validator/mbl/com/mlt/EgovMultimedia.xml	Multimedia Control Validator XML
Message properties	resources/egovframework/message/message-common_ko_KR.properties	Multimedia Control Message properties
Idgen XML	resources/egovframework/spring/com/context-idgen.xml	Multimedia Information IdGeneration Idgen XML

### ID Generation

- In order to use ID Generation Service, add MTL\_ID (Multimedia Information ID) to COMTECOPSEQ, the sequence storing table.

### Related tables

Table name	Table name (English)	Notes
Multimedia information	COMTNMLTMD	Manage multimedia Information

### Login/membership management/permission management

Multimedia Control requires the user/administrator authentication in **Multimedia 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="egovUserDetailsService" />
  </property>
</bean>

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

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

The following pages need the user/administrator permissions.

Permission types	Page Path	Description
administrator	/mbl/com/mpa/selectMultimediaList.mdo	Multimedia Information List Inquiry screen
administrator	/mbl/com/mpa/selectMultimedia.mdo	Multimedia Information Detail Inquiry screen
administrator	/mbl/com/mpa/goMultimediaRegist.mdo	Multimedia Information Registration screen
administrator	/mbl/com/mpa/insertMultimedia.mdo	Multimedia Information Registration
administrator	/mbl/com/mpa/goMultimediaUpdt.mdo	Multimedia Information Modification screen
administrator	/mbl/com/mpa/updateMultimedia.mdo	Multimedia Information Modification
administrator	/mbl/com/mpa/deleteMultimedia.mdo	Multimedia Information Deletion

### Settings and Notes

\* Due to the environmental settings of a specific server environment (Zeus), video or music files may not be played. For information and technical support for this, please contact the relevant company.

\* 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.

\* Security verification is under progress on the currently distributed mobile component. We plan to complete security verification as soon as possible to release a new security-patched version.

### Related functions

Multimedia Control is largely composed of **Multimedia Inquiry** for users and **Multimedia Information List Inquiry, Multimedia Information Detail Inquiry, Multimedia Information Registration, Multimedia Information Modification** and **Multimedia Information Deletion** for administrator.

### Mobile Multimedia Inquiry

#### Business rules

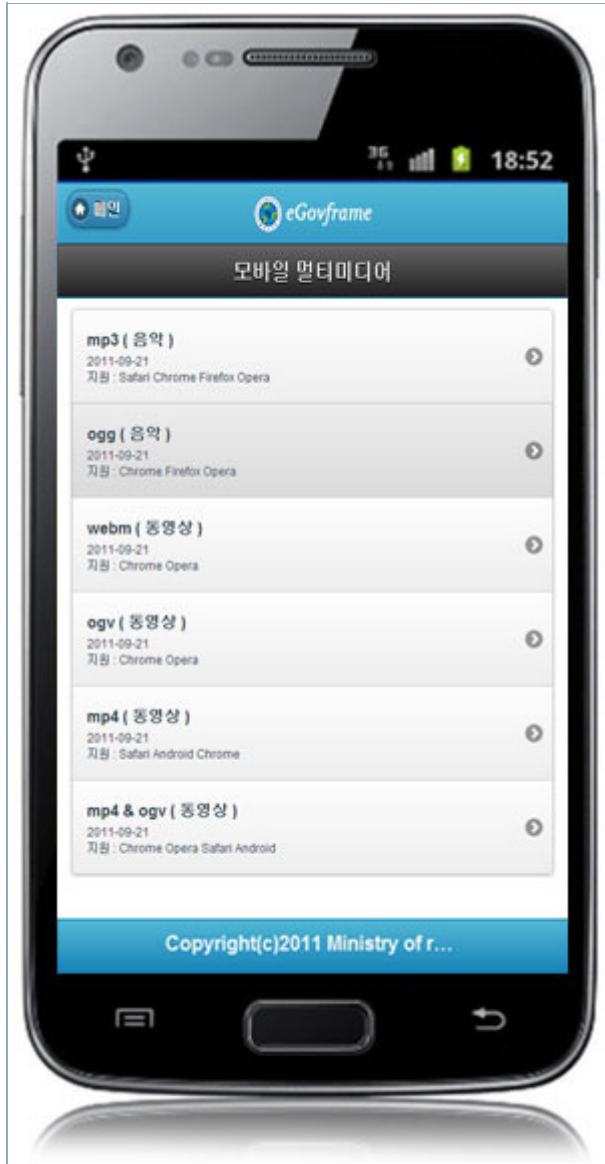
Retrieve and play multimedia files (video and music) stored in the server.

#### Related codes

N/A

#### Screen and execution manual

Action	URL	Controller method	QueryID
Multimedia Inquiry	/mbl/com/mlt/selectMobileMultimediaList.mdo	selectMobileMultimediaList	"MultimediaDAO.selectMultimediaList"
<b>Multimedia List Inquiry screen</b>			



**Video play screen**

**Music play screen**



## Multimedia Information List Inquiry

### Business rules

You can use List Inquiry as the inquiry condition. Or you can click the Registration button to move to Multimedia Information Registration screen to register Multimedia Information.

### Related codes

N/A

### Screen and execution manual

Action	URL	Controller method	QueryID
Inquiry	/mbl/com/mlt/selectMultimediaList.mdo	selectMultimediaList	"MultimediaDAO.selectMultimediaList"
Register	/mbl/com/mlt/goMultimediaRegist.mdo	goMultimediaRegist	
Click list	/mbl/com/mlt/selectMultimedia.mdo	selectMultimedia	"MultimediaDAO.selectMultimedia"



10 Multimedia Information lists are retrieved per page and paging is carried out on 10 page basis. The search conditions include Multimedia titles, Multimedia classifications and supported browsers.

To change the search range per page, change pageUnit and pageSize in context-properties.xml.

(this setting affects the entire common service function.)

The screenshot shows a web browser window with the URL <http://www.egovframe.org/Main.do>. The page title is "eGovFrame Portal 온라인 지원 포털 - Windows Internet Explorer". The main content area displays a search interface for multimedia information. At the top, there is a dropdown menu for search conditions, a search input field, and buttons for "조회" (Search) and "등록" (Register). Below this is a table with the following data:

순번	멀티미디어 제목	멀티미디어 구분	지원브라우저	생성일시
1	동영상	동영상	Chrome Opera Safari Android	2011-09-08
2	음악	음악	Safari Chrome Firefox Opera	2011-09-08
3	Study	동영상	Chrome Opera	2011-09-06
4	Bear Movie	동영상	Chrome Opera Safari Android	2011-09-06
5	New Stories	음악	Safari Chrome Firefox Opera	2011-09-06
6	토이 스토리	동영상	Safari Android Chrome	2011-09-06

Below the table, there is a page number "1". At the bottom of the page, there is a copyright notice: "Copyright(c)2011 Ministry of republic administration and security."

Inquiry: in order to retrieve Multimedia Information, select the search condition at the top, enter a key word and click Inquiry button.

Registration: in order to register Multimedia Information, use the Register button to move to **Multimedia Information Registration** screen.

Click list: moves to **Multimedia Information Detail Inquiry** screen.

## Multimedia Information Detail Inquiry

### Business rules

By clicking a list on Multimedia List Inquiry screen, you can move to this screen. It shows details of Multimedia Information.

### Related codes

N/A

### Screen and execution manual

Action	URL	Controller method	QueryID
Modification	/mbl/com/mlt/goMultimediaUpdt.mdo	goMultimediaUpdt	
Delete	/mbl/com/mlt/deleteMultimedia.mdo	deleteMultimedia	"MultimediaDAO.deleteMultimedia"
List	/mbl/com/mlt/selectMultimediaList.mdo	selectMultimediaList	"MultimediaDAO.selectMultimediaList"

On Multimedia Information Detail Inquiry screen, you can carry out Multimedia Information Modification, Multimedia Information deletion and Multimedia Information List Inquiry.

The screenshot shows a web browser window titled "eGovFrame Portal 온라인 지원 포털 - Windows Internet Explorer". The address bar shows "http://www.egovframe.org/Main.do". The page content includes a header with the "eGovframe" logo and a "메인" (Main) button. Below the header, there is a section titled "멀티미디어 상세 조회" (Multimedia Detailed Inquiry). This section displays the following information:

- 멀티미디어 제목: 동영상
- 멀티미디어 구분: 동영상
- 지원 브라우저: Chrome Opera Safari Android
- 멀티미디어 파일: test.mp4 [7232134 byte], testogv.ogv [3193386 byte]
- 생성일시: 2011-09-08

At the bottom of this section, there are three buttons: "수정" (Modify), "삭제" (Delete), and "목록" (List).

The footer of the page contains the text: "Copyright(c)2011 Ministry of republic administration and security."

Update: click the Update button to move to the place where Multimedia Information can be modified.

Delete: click the Delete button to delete after viewing the message to determine whether to delete.

List: moves to **Multimedia Information List Inquiry** screen.

**Multimedia Information Registration**  
**Business rules**

- The red \* means the required items.

- When stored, MLT\_ID column uses "egovframework.rte.fdl.idgnr.impl.EgovTableIdGnrService".

Primary Key => MLT\_ID : serial number automatically generated.

```
<bean name="egovMultimediaIdGnrService"
    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="MLT_ID"/>
</bean>
```

- The supported browser will be decided after comparing the Multimedia file extension with Multimedia File information file("MultimediaFileInfo.xml").

### MultimediaFileInfo.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<browserInfo>
  <video extension="ogv" type="video/ogv">
    <browser>Chrome</browser>
    <browser>Firefox</browser>
  </video>
  <video extension="ogg" type="video/ogg">
    <browser>Chrome</browser>
    <browser>Firefox</browser>
  </video>
  <video extension="mp4" type="video/mp4">
    <browser>Chrome</browser>
    <browser>Safari</browser>
    <browser>Android</browser>
    <browser>Opera</browser>
  </video>
  <video extension="webm" type="video/webm">
    <browser>Chrome</browser>
    <browser>Android</browser>
    <browser>Opera</browser>
    <browser>Firefox</browser>
  </video>
  <audio extension="ogg" type="audio/ogg">
    <browser>Chrome</browser>
    <browser>Android</browser>
    <browser>Opera</browser>
    <browser>Firefox</browser>
  </audio>
  <audio extension="mp3" type="audio/mpeg">
    <browser>Chrome</browser>
    <browser>Safari</browser>
    <browser>Android</browser>
    <browser>Opera</browser>
  </audio>
</browserInfo>
```

- The followings are the supported browsers per Multimedia file extension.

Type	Extension	Supported browser
Video	OGV	Chrome

		Firefox
	OGG	Chrome
		Firefox
	MP4	Chrome
		Safari
		Android
		Opera
	webm	Chrome
		Android
		Opera
		Firefox
Music	OGG	Chrome
		Android
		Opera
		Firefox
	MP3	Chrome
		Safari
		Android
		Opera

### Related codes

The followings are the codes used in Multimedia Control and reflection of the settings based on them.

Code classification	Code classification name	Code ID	Code name
COM077	Multimedia	MLT01	Video
COM077	Multimedia	MLT02	music

### Screen and execution manual

Action	URL	Controller method	QueryID
Registration	/mbl/com/mlt/insertMultimedia.mdo	insertMultimedia	"MultimediaDAO.insertMultimedia"
List	/mbl/com/mlt/selectMultimediaList.mdo	selectMultimediaList	"MultimediaDAO.selectMultimediaList"

Store the basic information on Multimedia Information.



Register: store the entered Multimedia Information.

List: moves to **Multimedia Information List Inquiry** screen.

## Multimedia Information Modification

### Business rules

- The red \* means the required items during modification.

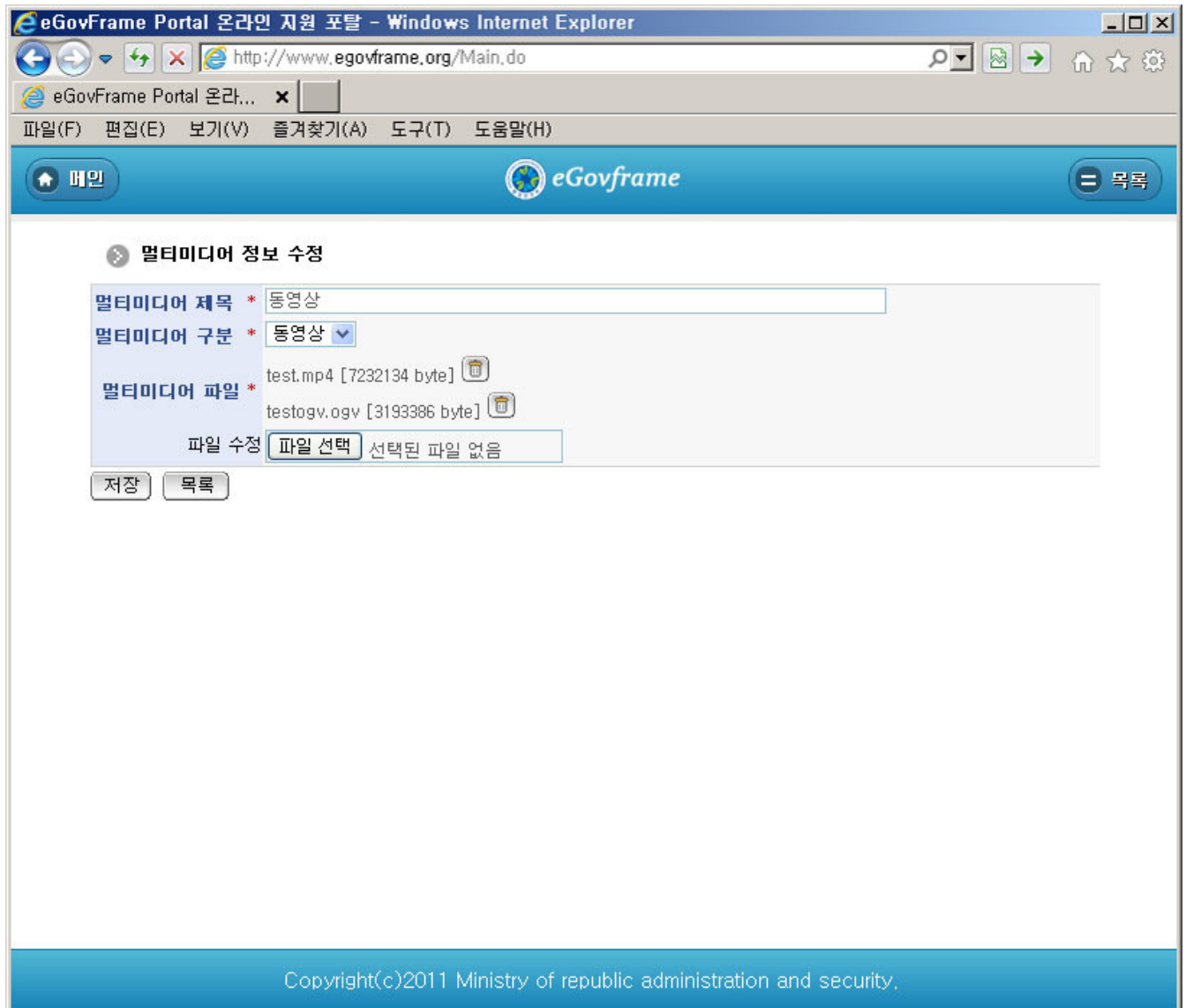
### Related codes

N/A

### Screen and execution manual

Action	URL	Controller method	QueryID
Modification	/mbl/com/mlt/updateMultimedia.mdo	updateMultimedia	"MultimediaDAO.updateMultimedia"
List	/mbl/com/mlt/selectMultimediaList.mdo	selectMultimediaList	"MultimediaDAO.selectMultimediaList"

Store the entered Multimedia Information.



Update: store the modified Multimedia Information.

List: moves to **Multimedia Information List Inquiry** screen.

## References

- Refer to the execution environment: [ID Generation Service](#)
- Refer to the common component: [File Manage Service](#)
- Distribution and test: [Mobile Common Component System](#) and [distribution package plan](#)
- Related database structure and schema: [Related database structure and schema](#)

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