

# xexcel5 가

Last update: 2024/01/04

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# xexcel5 가

xFrame5

Excel

,

java lib

- lib
- lib
- 가 pdf

## lib

xFrame5

Excel

java

jar

lib

xFrame5

jar

Excel

	<b>xExcel lib</b>	<b>xDataset lib</b>
3.14	<ul style="list-style-type: none"> <li>• xexcel5-3.14.jar</li> <li>• poi-3.14.jar</li> <li>• poi-ooxml-3.14.jar</li> <li>• poi-ooxml-schemas-3.14.jar</li> <li>• poi-scratchpad-3.14.jar</li> <li>• commons-beanutils-1.8.3.jar</li> <li>• commons-codec-1.10.jar</li> <li>• commons-fileupload-1.2.1.jar</li> <li>• commons-io-1.4.jar</li> <li>• commons-logging-1.2.jar</li> <li>• curvesapi-1.03.jar</li> <li>• hamcrest-core-1.1.jar</li> <li>• log4j-core-2.3.2.jar</li> <li>• log4j-api-2.3.2.jar</li> <li>• log4j-1.2-api-2.3.2.jar</li> <li>• stax-api-1.0.1.jar</li> <li>• xmlbeans-2.6.0.jar</li> </ul>	<ul style="list-style-type: none"> <li>• xdataset5.jar</li> <li>• json-simple-1.1.1.jar</li> </ul>

	<b>xExcel lib</b>	<b>xDataset lib</b>
3.16	<ul style="list-style-type: none"><li>• xexcel5-3.16.jar</li><li>• poi-3.16.jar</li><li>• poi-ooxml-3.16.jar</li><li>• poi-ooxml-schemas-3.16.jar</li><li>• poi-scratchpad-3.16.jar</li><li>• commons-beanutils-1.8.3.jar</li><li>• commons-codec-1.10.jar</li><li>• commons-collections4-4.1.jar</li><li>• commons-fileupload-1.2.1.jar</li><li>• commons-io-1.4.jar</li><li>• commons-logging-1.2.jar</li><li>• curvesapi-1.04.jar</li><li>• hamcrest-core-1.1.jar</li><li>• log4j-core-2.3.2.jar</li><li>• log4j-api-2.3.2.jar</li><li>• log4j-1.2-api-2.3.2.jar</li><li>• stax-api-1.0.1.jar</li><li>• xmlbeans-2.6.0.jar</li></ul>	

	<b>xExcel lib</b>	<b>xDataset lib</b>
4.1.2	<ul style="list-style-type: none"> <li>• xexcel5_412.jar</li> <li>• poi-4.1.2.jar</li> <li>• poi-examples-4.1.2.jar</li> <li>• poi-excelant-4.1.2.jar</li> <li>• poi-ooxml-4.1.2.jar</li> <li>• poi-ooxml-schemas-4.1.2.jar</li> <li>• poi-scratchpad-4.1.2.jar</li> <li>• activation-1.1.1.jar</li> <li>• commons-codec-1.13.jar</li> <li>• commons-collections4-4.4.jar</li> <li>• commons-compress-1.19.jar</li> <li>• commons-logging-1.2.jar</li> <li>• commons-math3-3.6.1.jar</li> <li>• jaxb-api-2.3.1.jar</li> <li>• jaxb-core-2.3.0.1.jar</li> <li>• jaxb-impl-2.3.2.jar</li> <li>• junit-4.12.jar</li> <li>• log4j-core-2.17.2.jar</li> <li>• log4j-api-2.17.2.jar</li> <li>• log4j-1.2-api-2.17.2.jar</li> <li>• SparseBitSet-1.2.jar</li> <li>• curvesapi-1.06.jar</li> <li>• xmlbeans-3.1.0.jar</li> <li>• commons-io-1.4commons-fileupload-1.2.1</li> </ul>	

	<b>xExcel lib</b>	<b>xDataset lib</b>
5.2.2	<ul style="list-style-type: none"> <li>• xexcel5_522.jar</li> <li>• batik.jar</li> <li>• bcpkix-jdk15on-1.70.jar</li> <li>• bcprov-jdk15on-1.70.jar</li> <li>• bcutil-jdk15on-1.70.jar</li> <li>• commons-codec-1.15.jar</li> <li>• commons-collections4-4.4.jar</li> <li>• commons-io-2.11.0.jar</li> <li>• commons-math3-3.6.1.jar</li> <li>• commons-compress-1.21.jar</li> <li>• commons-fileupload-1.2.1.jar</li> <li>• commons-logging-1.2.jar</li> <li>• curvesapi-1.07.jar</li> <li>• fontbox-2.0.25.jar</li> <li>• graphics2d-0.35.jar</li> <li>• poi-5.2.2.jar</li> <li>• poi-examples-5.2.2.jar</li> <li>• poi-excelant-5.2.2.jar</li> <li>• poi-javadoc-5.2.2.jar</li> <li>• poi-ooxml-5.2.2.jar</li> <li>• poi-ooxml-full-5.2.2.jar</li> <li>• poi-ooxml-lite-5.2.2.jar</li> <li>• poi-scratchpad-5.2.2.jar</li> <li>• slf4j-api-1.7.36.jar</li> <li>• SparseBitSet-1.2.jar</li> <li>• xmlbeans-5.0.3.jar</li> <li>• pdfbox-2.0.25.jar</li> <li>• xml-apis-1.4.01.jar</li> <li>• xml-apis-ext-1.3.04.jar</li> <li>• xmlgraphics-commons-2.6.jar</li> <li>• xmlsec-2.3.0.jar</li> <li>• log4j-core-2.17.2.jar</li> <li>• log4j-api-2.17.2.jar</li> <li>• log4j-1.2-api-2.17.2.jar</li> </ul>	

- XExcel5.jar                      Excel 97 - 2003                      .xls      Excel                      .xlsx
  - XExcel5.jar                      JDK 1.8
  - POI 3.17                      4.X                      xexcel5.jar
  - Apache poi lib                      <https://poi.apache.org/>
  - Log4j                      Java
- <https://logging.apache.org/log4j/2.x/download.html#previous-releases>

**lib**

	XLS	XLSX
EXCEL	0	0
CSV	0	0
EXCEL	65,536	1,048,576

excel

- xFrame5
- web.xml
- lib

**xFrame5**

xFrame5 Engine

xframe5.js

```
//
GRID_EXCELDOWNLOAD_ITEMSTYLE: true,
GRID_EXCELDOWNLOAD_FORECOLOR: true,

//
XEXCEL_UPLOAD_URL: 'http://127.0.0.1:8080/xexcel5/XExcelUpload',
XEXCEL_DOWNLOAD_URL: 'http://127.0.0.1:8080/xexcel5/XExcelDownload',
```

	URL
XEXCEL_UPLOAD_URL	<ul style="list-style-type: none"> <li>ex) XEXCEL_UPLOAD_URL: <a href="http://127.0.0.1:8080/xexcel5/XExcelUpload">'http://127.0.0.1:8080/xexcel5/XExcelUpload'</a></li> </ul>
XEXCEL_DOWNLOAD_URL	<ul style="list-style-type: none"> <li>ex) XEXCEL_DOWNLOAD_URL: <a href="http://127.0.0.1:8080/xexcel5/XExcelDownload">'http://127.0.0.1:8080/xexcel5/XExcelDownload'</a></li> </ul>

GRID_EXCELDOWNLOAD_ITEMSTYLE	<ul style="list-style-type: none"> <li>ex) true</li> </ul>
GRID_EXCELDOWNLOAD_FORECOLOR	<ul style="list-style-type: none"> <li>ex) true)</li> </ul>

## web.xml

, Web web.xml 가 .

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://java.sun.com/xml/ns/j2ee"
  xmlns:web="http://xmlns.jcp.org/xml/ns/javaee"
  xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee
  http://java.sun.com/xml/ns/j2ee/web-app_2_4.xsd
  http://xmlns.jcp.org/xml/ns/javaee
  http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd" id="xadmin"
  version="2.4">

  <!-- 가 -->
  <servlet>
    <servlet-name>XExcelDownload</servlet-name>
    <servlet-class>xexcel5.servlet.XExcelDownload</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>XExcelDownload</servlet-name>
    <url-pattern>/XExcelDownload</url-pattern>
  </servlet-mapping>
  <servlet>
    <servlet-name>XExcelUpload</servlet-name>
    <servlet-class>xexcel5.servlet.XExcelUpload</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>XExcelUpload</servlet-name>
    <url-pattern>/XExcelUpload</url-pattern>
  </servlet-mapping>
  <!-- 가 -->

</web-app>
```

## Lib

xexcel5 lib WEB-INF/lib .



## Excel API

xFrame5

API

- API
- API

### » Api

xFrame5 GRID

API

### downloadexcel()

#### Parameters

Parameters	Type	Description
sFileName	STRING	

#### Return Value

Type	Description
void	

#### Example

```
function btn_downloadexcel_on_mouseup(objInst)
{
    grdList.downloadexcel("download.xlsx");
}
```

### downloadexcelex()

#### Parameters

Parameters	Type	Description
sFileName	STRING	
bShowOption	BOOL	
bSaveOneRow	BOOL	

Parameters	Type	Description
bIncPattern	BOOL	
bIncHeader	BOOL	
bIncStatData	BOOL	
bIncBorder	BOOL	
bIncAlign	BOOL	
bIncBackColor	BOOL	
bIncFont	BOOL	
bIncForeColor	BOOL	[ ] ( : false)
bIncItemStyle	BOOL	[ ] ( : false)
bIncItemMerge	BOOL	[ ] ( : false)
bIncLineNumber	BOOL	[ ] ( : false)
bIncMasking	BOOL	[ ] ( : false)
nFileDownType	short	( : 0)
nConvNumberType	short	[ ] ( : 0)
bCheckRowOnly	BOOL	[ ] ( : false)

### Return Value

Type	Description
void	

### Example

```
function btn_downloadexcel_on_mouseup(objInst)
{
    grdList.downloadexcelex("download.xlsx", true, false, true, true, true,
true, true, false,false);
}
```

### nFileDownType

```
nFileDownType      1
                    .
                    XExcelDownload
                    PC
                    Context Root
temp
                    .
                    web.xml  TEMP_DIR
                    TEMP_DIR  temp
                    C      > temp
```

```
<servlet>
  <servlet-name>XExcelDownload</servlet-name>
  <servlet-class>xexcel5.servlet.XExcelDownload</servlet-class>
  <!-- 가 -->
```

```

        <init-param>
            <param-name>TEMP_DIR</param-name>
            <param-value>C:\</param-value>
        </init-param>
    <!-- 가 -->
</servlet>
<servlet-mapping>
    <servlet-name>XExcelDownload</servlet-name>
    <url-pattern>/XExcelDownload</url-pattern>
</servlet-mapping>

```

## uploadexcel()

### parameters

Type	Type	Description
bAppendMode	BOOL [ ]	Append ( : false)

### Return Value

Type	Description
void	

### Example

```

function btn_loadexcel_on_mouseup(objInst)
{
    grdList.uploadexcel();
}

```

## uploadexcelelex()

### . uploadexcel API

### Parameters

Parameters	Type	Description
nStartSheetNo	short	( 1 )
nEndSheetNo	short	
nStartRowNo	long	( 1 )

Parameters	Type	Description
nExcelRowCountPerGridRow	STRING	(A )
nExcelRowCountPerGridRow	short	
bAppendMode	BOOL	[ ] Append ( : false)

## Return Value

Type	Description
void	

## Example

```
function btn_loadexcelx_on_mouseup(objInst)
{
    grdList.uploadexcelx(1, 1, 1, "A", 1);
}
```

## \* TEMP\_DIR

web.xml TEMP\_DIR . 가 ,

TEMP\_DIR TEMP\_DIR temp upload 가

가 C > excel\_test .

```
<servlet>
  <servlet-name>XExcelUpload</servlet-name>
  <servlet-class>xexcel5.servlet.XExcelUpload</servlet-class>
  <!-- 가 -->
  <init-param>
    <param-name>TEMP_DIR</param-name>
    <param-value>C:\excel_test</param-value>
  </init-param>
  <!-- 가 -->
</servlet>
<servlet-mapping>
  <servlet-name>XExcelUpload</servlet-name>
  <url-pattern>/XExcelUpload</url-pattern>
</servlet-mapping>
```

## \* CORS\_HEADER

가 CORS(Cross-Origin Resource Sharing)

false Access-Control-Allow-Credentials, Access-Control-Allow-Headers, Access-Control-Allow-Origin

```
<servlet>
  <servlet-name>XExcelUpload</servlet-name>
  <servlet-class>xexcel5.servlet.XExcelUpload</servlet-class>
  <!-- 가 -->
    <init-param>
      <param-name>CORS_HEADER</param-name>
      <param-value>>false</param-value>
    </init-param>
  <!-- 가 -->
</servlet>
<servlet-mapping>
  <servlet-name>XExcelUpload</servlet-name>
  <url-pattern>/XExcelUpload</url-pattern>
</servlet-mapping>
```

» **Api**

**setexceldownloadurl()**

exceldownload URL

**Parameters**

Parameters	Type	Description
url	STRING	exceldownload URL

**Return Value**

Type	Description
void	

**Example**

```
function btn_setexceldownloadurl_on_mouseup(objInst)
{
  var sExcelDownloadUrl =
"http://127.0.0.1:8080/xexcel5_app/XExcelDownload";
  factory.setexceldownloadurl(sExcelDownloadUrl);
}
```



## getexceluploadurl()

excelupload URL .

### Return Value

Type	Description
STRING	excelupload URL

### Example

```
function btn_getexceluploadurl_on_mouseup(objInst)
{
    var sExcelUploadUrl;
    sExcelUploadUrl = factory.getexceluploadurl();
    factory.consoleprint("sExcelUploadUrl = " + sExcelUploadUrl);
}
```

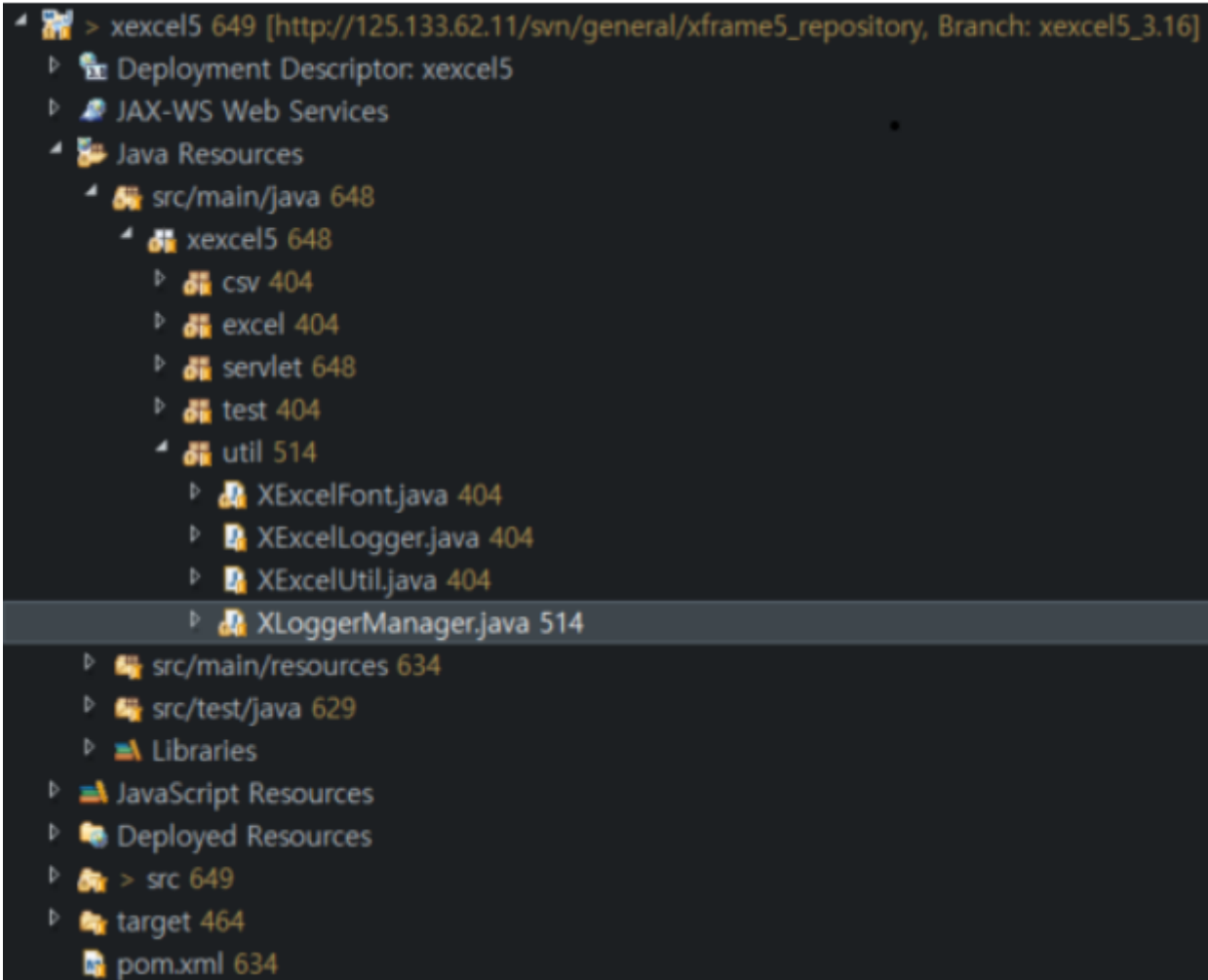
## XLoggerManager

XLoggerManager Class xFrame5 , Xexcel5

- Package
- Lib
- 
- Log4j
- Logger

### Package

XLoggerManager 가 Xexcel5 package .



XLoggerManager

xexcel5.util package

XLoggerManager

web.xml

가



## Log4j

XLoggerManager 가 log4j .

Log4j2.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<Configuration>

<!-- ( 가 ) -->
<Appenders>
  <Console name="xloggerconsole" target="SYSTEM_OUT">
    <PatternLayout pattern="[%5p] %d (%F\:%L) %c{1}:%M \: %m%n"/>
  </Console>

  <!-- ( 가 ) -->
  <!-- name: Appender , fileName: target , filePattern: history -
  -->
  <RollingFile name="xloggerfile" fileName="/excel5Logs/excel5log.log"
filePattern="/excel5Logs/excel5log.%i.log">
    <PatternLayout pattern="[%5p] %d (%F\:%L) %c{1}:%M \: %m%n"/>
    <Policies>
      <!-- size : Byte(default), KB, MB, or GB -->
      <SizeBasedTriggeringPolicy size="5000kb" />
    </Policies>
    <!-- (50 가 ) -->
    <DefaultRolloverStrategy max="50" fileIndex="min" />
  </RollingFile>
</Appenders>

<Loggers>
  <!-- xexcel5 ( ) -->
  <Logger name="xexcel5" level="DEBUG" additivity="false">
    <AppenderRef ref="xloggerconsole" />
  </Logger>
  <!-- xexcel5 ( ) -->
  <Logger name="xexcel5TempLogger" level="ERROR" additivity="false">
    <AppenderRef ref="xloggerconsole" />
    <AppenderRef ref="xloggerfile" />
  </Logger>
</Loggers>

</Configuration>
```

xml .

- Logger
  - Logger : xexcel5

- Logger Level : ERROR
- Appender : xloggerconsole(default) : , xloggerfile(option) :

## Logger

WAS                                  logger                                  XLoggerManager                                  .

- Parameter
  - logname :                  (xexcel5)
  - loglevel :                  [DEBUG > INFO > WARN > ERROR > FATAL]
  - appender :                  appender [all, xloggerfile, xloggerconsole]
  - logprint(                  ) :                  [true, false]
- DEBUG                  CONSOLE

<http://projectpath/XLoggerManager?logname=xexcel5&loglevel=debug&appender=xloggerconsole>

- DEBUG                  FILE                  CONSOLE

<http://projectpath/XLoggerManager?logname=xexcel5&loglevel=debug&appender=all>

- 

<http://projectpath/XLoggerManager?logname=xexcel5&logprint=true>

- INFO                  CONSOLE

<http://projectpath/XLoggerManager?logname=xexcel5&loglevel=info&appender=xloggerconsole&logprint=true>

## DRM

xFrame5                  xexcel5 lib                                  DRM

- DRM                  class
- DRM                  class
- DRM                  가
- CSV                  DRM                  class

### DRM                  class

web.xml                  XExcelUpload                                  가

```
<servlet>
  <servlet-name>XExcelUpload</servlet-name>
```

```

    <servlet-class>xexcel5.servlet.XExcelUpload</servlet-class>
<!-- 가 -->
    <init-param>
        <param-name>DRM_CLASS_PATH</param-name>
        <param-value>softbase.sample.XExcelUploadDRMClassSample</param-
value>
    </init-param>
<!-- 가 -->
</servlet>
<servlet-mapping>
    <servlet-name>XExcelUpload</servlet-name>
    <url-pattern>/XExcelUpload</url-pattern>
</servlet-mapping>

```

```

<init-param>      <param-value>          DRM          .
DRM                XExcelUploadDRMClassSample          .

```

```

import xexcel5.util.XExcelDrmInterface;

public class XExcelUploadDRMClassSample implements XExcelDrmInterface {
    public XExcelUploadDRMClassSample() {
    }

    public boolean initialize() throws Exception {
        return true;
    }

    public String execute(String saveFileAbsolutePath) throws Exception {
        // saveFileAbsolutePath :
        String decFileAbsolutePath = saveFileAbsolutePath;
        try {

            // TODO: DRM

            // ##### END

            // DRM
            //
            decFileAbsolutePath = saveFileAbsolutePath;
        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
            return saveFileAbsolutePath;
        }

        return decFileAbsolutePath;
    }
}

```

Line	Description
3	XExcelDrmInterface implements .
4	.
11 ~ 27	public String execute(String saveFileAbsolutePath) DRM saveFileAbsolutePath : xexcel lib PATH
29	decFileAbsolutePath : PATH .

DRM

1. xFrame5 UI (XExcelUpload )
2. xexcel5 lib . (XExcelUpload class)
3. DRM class . (XExcelUpload class)
4. DRM class (DRM class )
5. xFrame5 UI . (XExcelUpload class)

**DRM class**

web.xml XExcelDownload

가 .

```
<servlet>
  <servlet-name>XExcelDownload</servlet-name>
  <servlet-class>xexcel5.servlet.XExcelDownload</servlet-class>
  <!-- 가 -->
  <init-param>
    <param-name>DRM_ENCRYPT_CLASS_PATH</param-name>
    <param-value>softbase.sample.XExcelDownloadDRMClassSample</param-
value>
  </init-param>
  <!-- 가 -->
</servlet>
<servlet-mapping>
  <servlet-name>XExcelDownload</servlet-name>
  <url-pattern>/XExcelDownload</url-pattern>
</servlet-mapping>
```

<init-param> <param-value> DRM .

DRM XExcelDownloadDRMClassSample .

```
import xexcel5.util.XExcelDrmEncryptInterface;

public class XExcelDownloadDRMClassSample implements
```

```

XExcelDrmEncryptInterface {
    public XExcelDownloadDRMClassSample () {
    }

    public boolean initialize() throws Exception {
        return true;
    }

    public String execute(String saveFileAbsolutePath) throws Exception {
        // saveFileAbsolutePath :
        String encFileAbsolutePath = saveFileAbsolutePath;

        try {
            // TODO: DRM

            // ##### END

            // DRM
            //
            encFileAbsolutePath = saveFileAbsolutePath;
        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
            return saveFileAbsolutePath;
        }

        return encFileAbsolutePath;
    }
}
    
```

Line	Description
3	XExcelDrmEncryptInterface implements
4	
11~27	public String execute(String saveFileAbsolutePath) DRM saveFileAbsolutePath : xexcel lib PATH
29	encFileAbsolutePath : PATH

DRM

1. xFrame5 UI (XExcelDownload )
2. xexcel5 lib (XExcelDownload class)
3. DRM class (XExcelDownload class)
4. DRM class (DRM class )
5. xFrame5 UI (XExcelUpload class)

**DRM 가**

가 factory

setexcelglobalinfo API

```
function btn_setexcelglobalinfo_on_moeseup (object)
{
    factory.setexcelglobalinfo("EMP_ID#EMP_NAME") ;
}
```

setexcelgridinfo API

DRM XExcelUploadDRMClassSampleEx

```
import xexcel5.util.XExcelDrmInterfaceEx;

public class XExcelUploadDRMClassSampleEx implements XExcelDrmInterfaceEx {
    public XExcelUploadDRMClassSample() {
    }

    public boolean initialize() throws Exception {
        return true;
    }

    public String execute(String saveFileAbsolutePath, String
strGlobalInfo,
        String strGridInfo) throws Exception {

        // saveFileAbsolutePath :
        String decFileAbsolutePath = saveFileAbsolutePath;

        try {
            // TODO: DRM

            // ##### END

            // DRM
            //
            decFileAbsolutePath = saveFileAbsolutePath;
        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
            return saveFileAbsolutePath;
        }

        return decFileAbsolutePath;
    }
}
```

Line	Description
3	XExcelDrmInterfaceEx implements
4	.

Line	Description
11 ~ 29	public String execute(String saveFileAbsolutePath) DRM saveFileAbsolutePath : xexcel lib PATH strGlobalInfo : factory.setexcelglobalinfo API strGridInfo : setexcelgridinfo API
31	decFileAbsolutePath : PATH .

DRM XExcelDownloadDRMClassSampleEx .

```
import xexcel5.util.XExcelDrmEncryptInterfaceEx;

public class XExcelDownloadDRMClassSampleEx implements
XExcelDrmEncryptInterfaceEx {
    public XExcelDownloadDRMClassSample () {
    }

    public boolean initialize() throws Exception {
        return true;
    }

    public String execute(String saveFileAbsolutePath, String strGlobalInfo,
        String strGridInfo) throws Exception {

        // saveFileAbsolutePath :
        String encFileAbsolutePath = saveFileAbsolutePath;

        try {
            // TODO: DRM

            // ##### END

            // DRM
            //
            encFileAbsolutePath = saveFileAbsolutePath;
        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
            return saveFileAbsolutePath;
        }

        return encFileAbsolutePath;
    }
}
```

Line	Description
3	XExcelDrmEncryptInterfaceEx implements .
4	.

Line	Description
11 ~ 29	public String execute(String saveFileAbsolutePath, String strGlobalInfo, String strGridInfo) DRM saveFileAbsolutePath : xexcel lib PATH strGlobalInfo : factory.setexcelglobalinfo API strGridInfo : setexcelgridinfo API
31	decFileAbsolutePath : PATH .

\* **zip**

zip xexcel  
 XExcelDownloadDRMClassSampleEx

가 .

setexcelgridinfo API .

```
function btn_on_mouseup(objInst)
{
    // EXCEL_NAME:
    // ZIP_PWD: zip
    grdList.setexcelgridinfo("EXCEL_NAME=download.xlsx,ZIP_PWD=123");

    // download.xlsx
    // zip zip download.zip
    // zip xlsx가 .
    grdList.downloadexcel("download.xlsx");
}
```

EXCEL\_NAME zip

ZIP\_PWD .

zip XExcelDownloadDRMClassSampleEx

zip4j 2.11.5 .

```
import java.io.File;
import java.nio.file.Path;
import java.nio.file.Paths;
import java.util.HashMap;
import java.util.Map;
import net.lingala.zip4j.ZipFile;
import net.lingala.zip4j.model.ZipParameters;
import net.lingala.zip4j.model.enums.EncryptionMethod;
import xexcel5.util.XExcelDrmEncryptInterfaceEx;
import org.apache.logging.log4j.LogManager;
```



```
import org.apache.logging.log4j.Logger;

public class XExcelDownloadDRMClassSampleEx implements
XExcelDrmEncryptInterfaceEx
{
    private static final Logger logger =
LogManager.getLogger(XExcelDownloadDRMClassSampleEx.class);

    public XExcelDownloadDRMClassSampleEx () {
    }
    public boolean initialize() throws Exception
    {
        return true;
    }

    @Override
    public String execute(String saveFileAbsolutePath, String strGlobalInfo,
String strGridInf) throws Exception
    {
        String encFileAbsolutePath      = "";
        String zipFilePath               = "";
        String excelName                 = "";
        String zipPassword               = "";
        Map<String, String> keyValueMap = null;

        try {
            // = , =
            keyValueMap = parseKeyValueString(strGridInf);

            //      zip
            excelName = keyValueMap.get("EXCEL_NAME");
            zipPassword = keyValueMap.get("ZIP_PWD");
            logger.debug("execute > EXCEL_NAME = " + excelName + ",ZIP_PWD =
" + zipPassword);

            //      zip
            zipFilePath = getZipFilePath(saveFileAbsolutePath);

            //
            zipFile(saveFileAbsolutePath, zipFilePath, zipPassword,
excelName);

            //      zip
            encFileAbsolutePath = zipFilePath;
        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
            return saveFileAbsolutePath;
        }

        return encFileAbsolutePath;
    }
}
```

```
}

/**
 * zip
 * @param saveFileAbsolutePath
 * @return zip
 */
public String getZipFilePath(String saveFileAbsolutePath) {
    String fileNameWithoutExtension = "";
    String zipFilePath = "";
    String fileName = "";
    Path filePath = null;
    Path fileNamePath = null;
    Path directoryPath = null;
    int lastDotIndex = -1;

    try {
        // Path
        filePath = Paths.get(saveFileAbsolutePath);

        //
        fileNamePath = filePath.getFileName();

        //
        if (fileNamePath != null) {
            fileName = fileNamePath.toString();

            //
            lastDotIndex = fileName.lastIndexOf('.');
            if (lastDotIndex == -1) {
                fileNameWithoutExtension = fileName;
            }
            else {
                fileNameWithoutExtension = fileName.substring(0,
lastDotIndex);
            }
        } else {
            throw new Exception("The provided path is not a valid file
path.");
        }

        //
        directoryPath = filePath.getParent();

        // zip
        zipFilePath = directoryPath.toString() + File.separator +
fileNameWithoutExtension + ".zip";
    } catch (Exception e) {
        e.printStackTrace();
    }

    return zipFilePath;
}
```

```

}

/**
 *
 * @param sourceFilePath
 * @param zipFilePath      zip
 * @param password
 */
public void zipFile(String sourceFilePath, String zipFilePath, String
password, String excelName) {
    ZipParameters zipParameters = null;
    ZipFile zipFile      = null;

    try {
        // ZipParameters
        zipParameters = new ZipParameters();

        //
        if (excelName != null) {
            zipParameters.setFileNameInZip(excelName);
        }

        //
        if (password == null) {
            zipFile = new ZipFile(zipFilePath);
        }
        //
        (      ZipFile      )
        else {
            // ZipParameters
            zipParameters.setEncryptFiles(true);
            zipParameters.setEncryptionMethod(EncryptionMethod.ZIP_STANDARD);

            // ZipFile
            zipFile = new ZipFile(zipFilePath, password.toCharArray());
        }

        // zip      가
        zipFile.addFile(new File(sourceFilePath), zipParameters);
        zipFile.close();
    } catch (Exception e) {
        e.printStackTrace();
    }
}

/**
 *
 * = , =
 *
 * @param inputString = , =
 * @return
 */
public Map<String, String> parseKeyValueString(String inputString) {
    String[] keyValuePairs      = null;

```

```

Map<String, String> keyValueMap = null;
String[] keyValue                = null;
String key                       = "";
String value                     = "";
String pair                      = "";
int i                            = 0;

try {
//    keyValueMap = new HashMap<>();

//    if (inputString.equals("")) { return keyValueMap; }

//    keyValuePairs = inputString.split(",");

//    =
    for (i = 0; i < keyValuePairs.length; i++) {
        pair = keyValuePairs[i];
        keyValue = pair.split("=");

        if (keyValue.length == 2) {
            key = keyValue[0];
            value = keyValue[1];
            keyValueMap.put(key, value);
        } else {
            //            logger.debug("Incorrect format of input: " + pair);
        }
    }
} catch (Exception e) {
    e.printStackTrace();
}

return keyValueMap;
}
}

```

Line	Description
35	map .
43	zip . zip .
46	zip4j .
49	zip .

**CSV****DRM****class**

csv

DRM

DRM

### xframe5.js

xframe5.js ( doc > 98 )

```
xdatafile_upload_url: './xdatafileupload',
grid_csvupload_methodtype: 2, // csv (1: SCGIPT( ), 2:HTTP)
grid_txtupload_methodtype: 2, //TEXT (1: SCGIPT( ),
2:HTTP)
```

### web.xml

web.xml XDataFileUpload 가

```
<servlet>
  <servlet-name>XDataFileUpload</servlet-name>
  <servlet-class>xdatafile5.servlet.XDataFileUpload</servlet-class>
  <init-param>
    <param-name>DRM_CLASS_PATH</param-name>
    <param-
value>softbase.sample.XDataFileUploadDRMClassSample</param-value>
  </init-param>
  <init-param>
    <param-name>DEFAULT_CHARSET</param-name>
    <param-value>EUC-KR</param-value>
  </init-param>
</servlet>
<servlet-mapping>
  <servlet-name>XDataFileUpload</servlet-name>
  <url-pattern>/XDataFileUpload</url-pattern>
</servlet-mapping>
```

DRM\_CLASS\_PATH <param-value> DRM

DEFAULT\_CHARSET BOM(Byte Order Mark)

BOM BOM , BOM

juniversalchardet

US-ASCII, UTF-8, EUC-KR

DEFAULT\_CHARSET ( : EUC-KR)

TEMP\_DIR 가

### DRM

DRM XDataFileUploadDRMClassSample

```
import xdatafile5.util.XDataFileDrmInterface;

public class XDataFileUploadDRMClassSample implements XDataFileDrmInterface
{
    public XDataFileUploadDRMClassSample () {
    }

    public boolean initialize() throws Exception {
        return true;
    }

    public String execute(String saveFileAbsolutePath) throws Exception {
        // saveFileAbsolutePath :
        String decFileAbsolutePath = saveFileAbsolutePath;

        try {
            // TODO: DRM

            // ##### END

            // DRM
            //
            decFileAbsolutePath = saveFileAbsolutePath;
        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
            return saveFileAbsolutePath;
        }

        return decFileAbsolutePath;
    }
}
```

Line	Description
3	XDataFileDrmInterface implements
4	
11 ~ 27	public String execute(String saveFileAbsolutePath) DRM saveFileAbsolutePath : xdatafile5 lib PATH
29	decFileAbsolutePath : PATH

가                    가                    가                    XDataFileDrmInterfaceEx  
factory    setexcelglobalinfo                    setexcelgridinfo API

**API**

readcsv    readcsvex API                    readtxt    readtxtex API                    . CSV

```
function btn_readcsv_on_mouseup (objInst)
{
    //CSV      1
    grd.readcsves(1,1, "", false);
}
```

xdatafile5 log4j2.xml

```
<Loggers>
  <!-- xdatafile5      -->
  <Logger name="xdatafile5" level="DEBUG" additivity="false">
    <AppenderRef ref="xloggerconsole" />
  </Logger>
</Loggers>
```

- xdatafile5.jar
- commons-fileupload-1.2.1.jar
- commons-io-1.4.jar
- commons-logging-1.2.jar
- juniversalchardet-2.4.0.jar

**CSV**

**DRM**

**class**

csv

DRM

DRM

, DRM

### xframe5.js

xframe5.js

```
XDATAFILE_DOWNLOAD_URL: '/XdatafileDownload',
GRID_CSVDOWNLOAD_METHODTYPE: 2,
```

GRID\_TXTDOWNLOAD\_METHODTYPE: 2,

## web.xml

web.xml XDataFileUpload 가

```
<servlet>
<servlet-name>XDataFileDownload</servlet-name>
  <servlet-class>xdatafile5.servlet.XDataFileDownload</servlet-class>
  <init-param>
    <param-name>DRM_ENCRYPT_CLASS_PATH</param-name>
    <param-
value>softbase.sample.XDataFileDownloadDRMClassSample</paramvalue>
    </init-param>
  </servlet>
<servlet-mapping>
  <servlet-name>XDataFileDownload</servlet-name>
  <url-pattern>/XDataFileDownload</url-pattern>
</servlet-mapping>
```

DRM_ENCRYPT_CLASS_PATH	<param-value>	DRM	.
TEMP_DIR	가	.	.

## DRM

DRM XDataFileDownloadDRMClassSample .

```
import xdatafile5.util.XDataFileDrmInterface;

public class XDataFileDownloadDRMClassSample implements
cDataFileDrmEncryptInterface {
  public XDataFileDownloadDRMClassSample () {
  }

  public boolean initialize() throws Exception {
    return true;
  }

  public String execute(String saveFileAbsolutePath) throws Exception {
    // saveFileAbsolutePath :
    String encFileAbsolutePath = saveFileAbsolutePath;
    try {
      // TODO: DRM
```



```

// ##### END

// DRM
//
encFileAbsolutePath = saveFileAbsolutePath;
} catch (Exception e) {
// TODO: handle exception
e.printStackTrace();
return saveFileAbsolutePath;
}

return encFileAbsolutePath;
}
}

```

Line	Description
3	XExcelDrmEncryptInterface implements
4	
11 ~ 26	public String execute(String saveFileAbsolutePath) DRM saveFileAbsolutePath : xdatafile5 lib PATH
28	encFileAbsolutePath : PATH

가                      가                      가                      XDataFileDrmEncryptInterfaceEx  
    factory    setexcelglobalinfo                      setexcelgridinfo API

### API

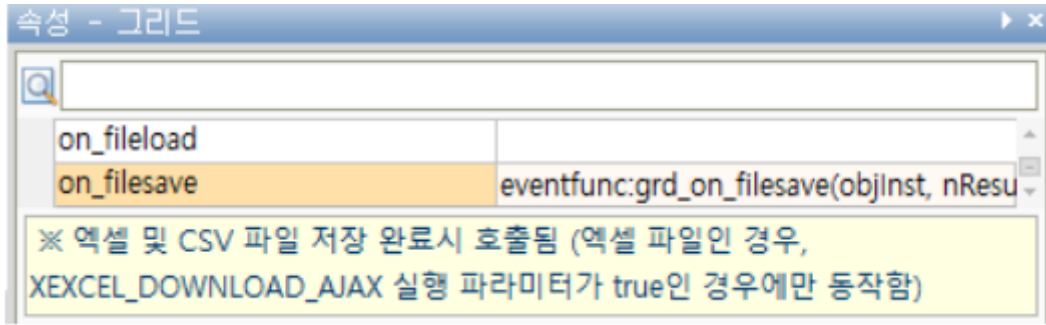
savecsv    savecsvex API    savetxt    savetxtex API    . CSV

```

function btn_savecsv_on_mouseup(objInst)
{
// csv
grd.savecsv();
}

```

CSV                                      on\_filesave                      가



xFrame5 xexcel5 lib

•

가

web.xml XExcelDownload

가

```
<servlet>
  <servlet-name>XExcelDownload</servlet-name>
  <servlet-class>xexcel5.servlet.XExcelDownload</servlet-class>
  <!-- 가 -->
  <init-param>
    <param-name>HEADERIMAGE_PATH</param-name>
    <param-value>C:\\sample.png</param-value>
  </init-param>
  <!-- 가 -->
</servlet>
<servlet-mapping>
  <servlet-name>XExcelDownload</servlet-name>
  <url-pattern>/XExcelDownload</url-pattern>
</servlet-mapping>
```

<init-param> <param-value>

png

.xlsx

가 2

가

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[http://technet.softbase.co.kr/wiki/guide/general/excel\\_guide](http://technet.softbase.co.kr/wiki/guide/general/excel_guide)



Last update: **2024/01/04 10:22**