Documentation for SDK for Java 2.0-ce

Table of Contents

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SDK for Java 2.0-ce

OpenKM SDK for Java is a set of software development tools that allows the creation of applications for OpenKM. The OpenKM SDK for Java includes a Webservices library.

This Webservices library is a complete API layer to access OpenKM through REST Webservices and provides complete compatibility between the OpenKM REST Webservices versions minimizing the changes in your code.

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Compatibility

SDK for Java version 2.0-ce should be used:

- **From OpenKM Professional version 7.0.1**

Sample client

You can make use of the OpenKM Maven Repository and the right SDK version. This is a sample pom.xml configuration:

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.openkm.sample</groupId>
  <artifactId>sample</artifactId>
  <version>1.0-SNAPSHOT</version>

  <repositories>
    <repository>
      <id>openkm.com</id>
      <name>OpenKM Maven Repository</name>
      <url>https://maven.openkm.com</url>
    </repository>
  </repositories>

  <dependencies>
    <dependency>
      <groupId>com.openkm</groupId>
      <artifactId>sdk4j</artifactId>
      <version>2.0-ce</version>
    </dependency>
  </dependencies>
</project>
```

Your first class:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Folder;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (Folder fld : ws.folder.getFolderChildren("4f873d10-654e-4d99-a94f-15466e30a0f6")) {
                System.out.println("Folder -> " + fld.getPath());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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Jar sample

If you use "**maven-assembly-plugin**" rather "**maven-shade-plugin**" you will get an error "**missing MessageBodyWriter**" while uploading a new file across the SDK.

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.openkm.sample</groupId>
  <artifactId>sample</artifactId>
  <version>1.0-SNAPSHOT</version>

  <properties>
    <java.compiler>1.8</java.compiler>
    <sdk4j.version>2.0-ce</sdk4j.version>
    <maven-compiler-plugin.version>3.1</maven-compiler-plugin.version>
    <maven-shade-plugin.version>2.4.3</maven-shade-plugin.version>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  </properties>

  <repositories>
    <repository>
      <id>openkm.com</id>
      <name>OpenKM Maven Repository</name>
      <url>https://maven.openkm.com</url>
    </repository>
  </repositories>

  <dependencies>
    <dependency>
      <groupId>com.openkm</groupId>
      <artifactId>sdk4j</artifactId>
      <version>${sdk4j.version}</version>
    </dependency>
  </dependencies>

  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>${maven-compiler-plugin.version}</version>
        <configuration>
          <source>${java.compiler}</source>
          <target>${java.compiler}</target>
          <encoding>${project.build.sourceEncoding}</encoding>
        </configuration>
      </plugin>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-shade-plugin</artifactId>
        <version>${maven-shade-plugin.version}</version>
        <executions>
          <execution>
            <phase>package</phase>
            <goals>
              <goal>shade</goal>
            </goals>
            <configuration>
              <transformers>
                <transformer implementation="org.apache.maven.plugins.shade.resource.ManifestResourceTransformer"
```

```
              <mainClass>com.openkm.Main</mainClass>
            </transformer>
            <transformer implementation="org.apache.maven.plugins.shade.resource.AppendingTransformer">
              <resource>META-INF/services/javax.ws.rs.ext.MessageBodyWriter</resource>
            </transformer>
          </transformers>
        </configuration>
      </execution>
    </executions>
  </plugin>
 </plugins>
</build>
</project>
```

Basic concepts

Authentication

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Repository methods from "**repository**" class as is shown below:

```
ws.repository.getAppVersion();
```

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.exception.DatabaseException;
import com.openkm.sdk4j.exception.RepositoryException;
import com.openkm.sdk4j.exception.UnknowException;
import com.openkm.sdk4j.exception.WebserviceException;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getAppVersion());
        } catch (RepositoryException e) {
            e.printStackTrace();
        } catch (DatabaseException e) {
            e.printStackTrace();
        } catch (UnknowException e) {
            e.printStackTrace();
        } catch (WebserviceException e) {
            e.printStackTrace();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
```

```
}
```

Accessing API

OpenKM API classes are under com.openkm package, as can shown at this Javadoc API summary.

At main url http://docs.openkm.com/javadoc/ you'll see all available Javadoc documentation.

At the moment of writing this page the actual OpenKM version was 7.1.5 what can change with time.

There is a direct correspondence between the classes and methods implemented at com.openkm.api packages and available from SDK for Java.

OpenKM API classes:

OpenKM API class	Description	Supported	Implementation	Interface
OKMActivity	Manages the activity log.	Yes	ActivityImpl.java	BaseActivity.java
OKMAuth	Manages security and users. For example add or remove grants on a node, create or modify users or getting the profiles.	Yes	AuthImpl.java	BaseAuth.java
OKMBookmark	Manages the user bookmarks.	Yes	BookmarkImpl.java	BaseBookmark.java
OKMDashboard	Manages all data shown at dashboard.	Yes	DashboardImpl.java	BaseDashboard.java
OKMDocument	Manages documents. For example create, move or delete a document.	Yes	DocumentImpl.java	BaseDocument.java

OKMFolder	Manages folders. For example create, move or delete a folder.	Yes	FolderImpl.java	BaseFolder.java
OKMMail	Manages mails. For example create, move or delete a mails.	Yes	MailImpl.java	BaseMail.java
OKMNode	Manages general purpose node actions.	Yes	NodeImpl.java	NodeBase.java
OKMNote	Manages notes on any node type. For example create, edit or delete a note on a document, folder, mail or record.	Yes	NoteImpl.java	BaseNote.java
OKMNotification	Manages notifications. For example add or remove subscriptions on a document or a folder.	Yes	NotificationImpl.java	BaseNotification.java
OKMProperty	Manages categories and keywords. For example add or remove keywords on a document, folder, mail or record.	Yes	PropertyImpl.java	BaseProperty.java
OKMPropertyGroup	Manages metadata. For example add metadata group, set metadata fields.	Yes	PropertyGroupImpl.java	BasePropertyGroup.java

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OKMRecord	Manages records. For example create, move or delete a record.	Yes	RecordImpl.java	BaseRecord.java
OKMRelation	Manages relations between nodes. For example create a relation (parent-child) between two documents.	Yes	RelationImpl.java	BaseRelation.java
OKMRepository	A lot of options related with the repository. For example get the properties of main root node (/okm:root).	Yes	RepositoryImpl.java	BaseRepository.java
OKMReport	Manages reports. For example execute reports.	Yes	ReportImpl.java	BaseReport.java
OKMSearch	Manages search feature. For example manage saved queries or perform a new query to the repository.	Yes	SearchImpl.java	BaseSearch.java
OKMUserConfig	Manages user home configuration.	No		
OKMWorkflow	Manages workflows. For example execute a new workflow.	Yes	WorkflowImpl.java	BaseWorkflow.java

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Class Hierarchy

Packages detail:

Name	Description
com.openkm	The **com.openkm.OKMWebservicesFactory** that returns an **com.openkm.OKMWebservices** object which implements all interfaces. `OKMWebservices ws = OKMWebservicesFactory.newInstance(host, username, password);`
com.openkm.sdk4j.bean	Contains all classes result of unmarshalling REST objects.
com.openkm.sdk4j.definition	All interface classes: • com.openkm.sdk4j.definition.BaseActivity • com.openkm.sdk4j.definition.BaseAuth • com.openkm.sdk4j.definition.BaseBookmark • com.openkm.sdk4j.definition.BaseConversion • com.openkm.sdk4j.definition.BaseDashboard • com.openkm.sdk4j.definition.BaseDocument • com.openkm.sdk4j.definition.BaseFolder • com.openkm.sdk4j.definition.BaseMail • com.openkm.sdk4j.definition.BaseNode • com.openkm.sdk4j.definition.BaseNote • com.openkm.sdk4j.definition.BaseNotification • com.openkm.sdk4j.definition.BaseProperty • com.openkm.sdk4j.definition.BasePropertyGroup • com.openkm.sdk4j.definition.BaseRecord • com.openkm.sdk4j.definition.BaseRelation • com.openkm.sdk4j.definition.BaseRepository • com.openkm.sdk4j.definition.BaseSearch • com.openkm.sdk4j.definition.BaseWorkflow
com.openkm.sdk4j.impl	All interface implementation classes: • com.openkm.sdk4j.impl.ActivityImpl

	• com.openkm.sdk4j.impl.AuthImpl • com.openkm.sdk4j.impl.BookmarkImpl • com.openkm.sdk4j.impl.ConversionImpl • com.openkm.sdk4j.impl.DashboardImpl • com.openkm.sdk4j.impl.DocumentImpl • com.openkm.sdk4j.impl.FolderImpl • com.openkm.sdk4j.impl.MailImpl • com.openkm.sdk4j.impl.NodeImpl • com.openkm.sdk4j.impl.NoteImpl • com.openkm.sdk4j.impl.NotificationImpl • com.openkm.sdk4j.impl.PropertyGroupImpl • com.openkm.sdk4j.impl.PropertyImpl • com.openkm.sdk4j.impl.RecordImpl • com.openkm.sdk4j.impl.RelationImpl • com.openkm.sdk4j.impl.RepositoryImpl • com.openkm.sdk4j.impl.SearchImpl • com.openkm.sdk4j.impl.WorkflowImpl
com.openkm.sdk4j.util	A couple of utilities.  The class com.openkm.sdk4j.util.ISO8601 should be used to set and parse metadata date fields.
com.openkm.sdk4j.exception	All exception classes.

Activity samples

Basics

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Activity methods from "**activity**" class as is shown below:

```
ActivityList results = ws.activity.findActivityLog(0, 20, beginDate, endDate, user, "", item);
```

Methods

findActivityLog

Description:

Method	Return values	Description
findActivityLog(int page, int length, Calendar beginDate, Calendar endDate, String user, String action, String item)	**ActivityList**	Returns a list of all activity log by date, user, action and item.
The value of the **item** is the UUID of the node (document, folder, mail or record).		

Example:

```
package com.openkm;
import java.util.Calendar;
```

```
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Activity;
import com.openkm.sdk4j.bean.ActivityList;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);

            Calendar beginDate = Calendar.getInstance();
            beginDate.add(Calendar.MONTH, -1);
            Calendar endDate = Calendar.getInstance();
            String item = "f84a2e1f-a858-4e53-9c09-36519d903782";

            ActivityList results = ws.activity.findActivityLog(0, 20, beginDate, endDate, user, "", item);
            for(Activity activity: results.getActivities()) {
             System.out.println(activity);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getActivityActions

Description:

Method	Return values	Description
getActivityActions()	**List<String>**	Returns a list of all the activity log actions.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (String action : ws.activity.getActivityActions()) {
                System.out.println(action);
            }
```

```
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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Auth samples

Basics

The class **com.openkm.sdk4j.bean.Permission** contains permission values (READ, WRITE, etc.). You should use it in combination with methods that are changing or getting security grants.

To set READ and WRITE access you should do:

```
int permission = Permission.READ + Permission.WRITE;
```

To check if you have permission access you should do:

```
// permission is a valid integer value
if ((permission | Permission.WRITE) = Permission.WRITE) {
  // Has WRITE grants.
}
```

Example of uuid:

- Using UUID -> "**c41f9ea0-0d6c-45da-bae4-d72b66f42d0f**";

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Auth methods from "**auth**" class as is shown below:

```
Map<String, Integer> grants = ws.auth.getGrantedRoles("373bcdd0-c082-4e7b-addd-e10ef813946e");
```

Methods

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login

Description:

Method	Return values	Description
login(String user, String password)	String	Login process return authentication token.

Login token by **default** have an **expiration time of 24h**.

After executing the login method, all the next calls will use automatically the authentication token.

Each time login method is executed the login token is replaced by newer.

When user login into the application the first time, is called internally a method what creates user specific folders, like /okm:trash/userId etc.

From API point of view, this method should be only executed first time user accessing from API, for creating specific user folder structure.

Otherwise you can get errors, for example PathNotExistsException /okm:trash/userId when deleting objects, because the folders has not been created.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            System.out.println("Token: " + ws.login(user, password));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

login

Description:

Method	Return values	Description

login(String user, String password, int expiration, boolean restrictIP)	String	Login process return authentication token.

Login token by default have an **expiration** time of variable **expiration value in days**.

When **restrictIP** is true, the token **only will work from the source IP address**.

After executing the login method, all the next calls will use automatically the authentication token.

Each time login method is executed the login token is replaced by newer.

When user login into the application the first time, is called internally a method what creates user specific folders, like /okm:trash/userId etc.

From API point of view, this method should be only executed first time user accessing from API, for creating specific user folder structure.

Otherwise you can get errors, for example PathNotExistsException /okm:trash/userId when deleting objects, because the folders has not been created.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
        int days = 7;
        boolean restrictIp = true;

        try {
            System.out.println("Token: " + ws.login(user, password, days, restrictIp));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

logout

Description:

Method	Return values	Description

logout()	void	Execute logout method in OpenKM side.

Thee authentication token will be reset.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.logout();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getGrantedUsersAndRoles

Description:

Method	Return values	Description
getGrantedUsersAndRoles(String uuid)	**GrantedUsersAndRolesItem**	Return the granted users and roles of a node.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.GrantedUsersAndRolesItem;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String username = "okmAdmin";
        String password = "admin";
```

```
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(username, password);

            GrantedUsersAndRolesItem grants = ws.auth.getGrantedUsersAndRoles("3c68b3a1-c65c-4b1e-84b5-9ce27
            for (String user : grants.getGrantedUsers().keySet()) {
                System.out.println(user + "->" + grants.getGrantedUsers().get(user));
            }
            for (String role : grants.getGrantedRoles().keySet()) {
                System.out.println(role + "->" + grants.getGrantedRoles().get(role));
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getGrantedRoles

Description:

Method	Return values	Description
getGrantedRoles(String uuid)	**Map<String, Integer>**	Return the granted roles of a node.

Example:

```
package com.openkm;

import java.util.Map;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Map<String, Integer> grants = ws.auth.getGrantedRoles("373bcdd0-c082-4e7b-addd-e10ef813946e");
            for (String role : grants.keySet()) {
                System.out.println(role + "->" + grants.get(role));
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getGrantedUsers

Description:

Method	Return values	Description
getGrantedUsers(String uuid)	**Map<String, Integer>**	Return the granted users of a node.

Example:

```
package com.openkm;

import java.util.Map;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String username = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(username, password);
            Map<String, Integer> grants = ws.auth.getGrantedUsers("373bcdd0-c082-4e7b-addd-e10ef813946e");
            for (String user : grants.keySet()) {
                System.out.println(user + "->" + grants.get(user));
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getRoles

Description:

Method	Return values	Description
getRoles(boolean showAll)	**List<String>**	Return the list of all the roles.
When showAll variable is set to true return all the roles - enabled and disabled - otherwise only returns the enabled.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
```

```
        String host = "http://localhost:8080/OpenKM";
        String username = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
        try {
            ws.login(username, password);
            for (String role : ws.auth.getRolesByUser("okmAdmin")) {
                System.out.println(role);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getRolesByUser

Description:

Method	Return values	Description
getRolesByUser(String user)	**List<String>**	Return the list of all the roles assigned to a user.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/OpenKM";
        String username = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
        try {
            ws.login(username, password);
            for (String role : ws.auth.getRolesByUser("okmAdmin")) {
                System.out.println(role);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUsers

Description:

Method	Return values	Description
getUsers(boolean showAll)	**List<CommonUser>**	Return the list of all the users.

When showAll variable is set to true return all the users - enabled and disabled - otherwise only returns the enabled.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.CommonUser;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (CommonUser commonUser : ws.auth.getUsers(true)) {
                System.out.println(commonUser);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUser

Description:

Method	Return values	Description
getUser(String userId)	**CommonUser**	Return all user data

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.CommonUser;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
```

```
            CommonUser commonUser = ws.auth.getUser("okmAdmin");
            System.out.print(commonUser);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUsersByRole

Description:

Method	Return values	Description
getUsersByRole(String role)	**List<CommonUser>**	Return the list of all the users who have assigned a role.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.CommonUser;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (CommonUser commonUser : ws.auth.getUsersByRole("ROLE_ADMIN")) {
                System.out.println(commonUser);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

revokeRole

Description:

Method	Return values	Description
revokeRole(String uuid, String roleId, int permissions, boolean recursive)	**void**	Remove role grant on a node.

The parameter recursive only has sense when the uuid is a folder or a record node.

When parameter recursive is true, the change will be applied to the node and its descendants.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Permission;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            // Remove ROLE_USER write grants at the node but not descendants
            ws.auth.revokeRole("4f873d10-654e-4d99-a94f-15466e30a0f6", "ROLE_USER", Permission.ALL_GRANTS

            // Remove all ROLE_ADMIN grants to the node and descendants
            ws.auth.revokeRole("4f873d10-654e-4d99-a94f-15466e30a0f6", "ROLE_ADMIN", Permission.ALL_GRANTS
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

revokeUser

Description:

Method	Return values	Description
revokeUser(String uuid, String user, int permissions, boolean recursive)	**void**	Remove user grant on a node.

The parameter recursive only has sense when the uuid is a folder or a record node.

When parameter recursive is true, the change will be applied to the node and descendants.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
```

```
import com.openkm.sdk4j.bean.Permission;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            // Remove sochoa write grants at the node but not descendants
            ws.auth.revokeUser("373bcdd0-c082-4e7b-addd-e10ef813946e", "sochoa", Permission.ALL_GRANTS, false

            // Remove all okmAdmin grants at the node and descendants
            ws.auth.revokeUser("373bcdd0-c082-4e7b-addd-e10ef813946e", "okmAdmin", Permission.ALL_GRANTS, t
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

grantRole

Description:

Method	Return values	Description
grantRole(String uuid, String role, int permissions, boolean recursive)	**void**	Add role grant on a node.
The parameter recursive only has sense when the uuid is a folder or a record node. When parameter recursive is true, the change will be applied to the node and descendants.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Permission;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            // Add ROLE_USER write grants at the node but not descendants
            ws.auth.grantRole("4f873d10-654e-4d99-a94f-15466e30a0f6", "ROLE_USER", Permission.ALL_GRANTS, f
```

```
            // Add all ROLE_ADMIN grants to the node and descendants
            ws.auth.grantRole("4f873d10-654e-4d99-a94f-15466e30a0f6", "ROLE_ADMIN", Permission.ALL_GRANTS,
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

grantUser

Description:

Method	Return values	Description
grantUser(String uuid, String user, int permissions, boolean recursive)	**void**	Add user grant on a node.
The parameter recursive only has sense when the uuid is a folder or record node. When parameter recursive is true, the change will be applied to the node and descendants.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Permission;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            // Add sochoa write grants at the node but not descendants
            ws.auth.grantUser("4f873d10-654e-4d99-a94f-15466e30a0f6", "sochoa", Permission.ALL_GRANTS, false);

            // Add all okmAdmin grants at the node and descendants
            ws.auth.grantUser("4f873d10-654e-4d99-a94f-15466e30a0f6", "okmAdmin", Permission.ALL_GRANTS, true
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

changeSecurity

Description:

Method	Return values	Description
changeSecurity(String uuid, ChangeSecurity changeSecurity)	**void**	Change the security of a node.

Example:

```
package com.openkm;

import java.util.ArrayList;
import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.ChangeSecurity;
import com.openkm.sdk4j.bean.GrantedRole;
import com.openkm.sdk4j.bean.GrantedUser;
import com.openkm.sdk4j.bean.Permission;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);

            List<GrantedUser> guList = new ArrayList<>();
            GrantedUser gu = new GrantedUser();
            gu.setUser("sochoa");
            gu.setPermissions(Permission.ALL_GRANTS);
            guList.add(gu);

            List<GrantedRole> grList = new ArrayList<>();
            GrantedRole gr = new GrantedRole();
            gr.setRole("ROLE_TEST");
            gr.setPermissions(Permission.READ | Permission.WRITE);
            grList.add(gr);

            ChangeSecurity cs = new ChangeSecurity();
            cs.setGrantedUsersList(guList);
            cs.setGrantedRolesList(grList);
            cs.setRecursive(true);
            ws.auth.changeSecurity("4f873d10-654e-4d99-a94f-15466e30a0f6", cs);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

overwriteSecurity

Description:

Method	Return values	Description

overwriteSecurity(String uuid, ChangeSecurity changeSecurity)	**void**	Overwrite the security of a node.

The ChangeSecurity object is used in changeSecurity and overwriteSecurity methods.

Although set values in the variables revokeUsers and revokeRoles of the ChangeSecurity object, these values will not be taken in consideration while overwritten the security.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.*;
import com.openkm.sdk4j.impl.OKMWebservices;

import java.util.ArrayList;
import java.util.List;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<GrantedUser> guList = new ArrayList<>();
            GrantedUser gu = new GrantedUser();
            gu.setUser("sochoa");
            gu.setPermissions(Permission.ALL_GRANTS);
            guList.add(gu);

            List<GrantedRole> grList = new ArrayList<>();
            GrantedRole gr = new GrantedRole();
            gr.setRole("ROLE_TEST");
            gr.setPermissions(Permission.READ | Permission.WRITE);
            grList.add(gr);

            ChangeSecurity cs = new ChangeSecurity();
            cs.setGrantedUsersList(guList);
            cs.setGrantedRolesList(grList);
            cs.setRecursive(true);
            ws.auth.overwriteSecurity("4f873d10-654e-4d99-a94f-15466e30a0f6", cs);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

hasSecurityRecursive

Description:

Method	Return values	Description
hasSecurityRecursive()	Boolean	Check if the user has grants to propagate the security recursively.

The configuration parameter named "**default.security.recursive.role**" is used to indicate the role.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println("hasSecurityRecursive = " + ws.auth.hasSecurityRecursive());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

isAdmin

Description:

Method	Return values	Description
isAdmin()	Boolean	Check if the authenticated user is a member of the administrators.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
```

```
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println("Is Administrator " + ws.auth.isAdmin());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getSessionId

Description:

Method	Return values	Description
getSessionId()	**String**	Get http session id.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.auth.getSessionId());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createUser

Description:

Method	Return values	Description
createUser(String userId, String password, String email, String name, boolean active)	**void**	Create a new user.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.auth.createUser("test", "password.2016", "test@mail.com", "User test", true);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteUser

Description:

Method	Return values	Description
deleteUser(String userId)	**void**	Delete a user.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.auth.deleteUser("test");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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updateUser

Description:

Method	Return values	Description
updateUser(String userId, String password, String email, String name, boolean active)	**void**	Update a user.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.auth.updateUser("test", "newpassword", "test@mail.com", "Test", false);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createRole

Description:

Method	Return values	Description
createRole(String roleId, boolean active)	**void**	Create a new role.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
```

```
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.auth.createRole("ROLE_TEST", true);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteRole

Description:

Method	Return values	Description
deleteRole(String roleId)	**void**	Delete a role.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.auth.deleteRole("ROLE_TEST");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

updateRole

Description:

Method	Return values	Description
updateRole(String roleId, boolean active)	**void**	Update a role.

Example:

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```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.auth.updateRole("ROLE_TEST", true);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

assignRole

Description:

Method	Return values	Description
assignRole(String userId, String roleId)	**void**	Assign role to a user.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.auth.assignRole("test", "ROLE_USER");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

removeRole

Description:

Method	Return values	Description
removeRole(String userId, String roleId)	**void**	Remove a role from a user.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.auth.removeRole("test", "ROLE_USER");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getProfiles

Description:

Method	Return values	Description
getProfiles(boolean filterByActive)	**List<Profile>**	Return the list of all profiles.

The parameter filterByActive when enabled the method will return only the active profiles, otherwise will return all available profiles.

Each user has assigned one profile that enables more or less of the OpenKM UI features.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Profile;
import com.openkm.sdk4j.impl.OKMWebservices;
```

```
public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (Profile profile : ws.auth.getProfiles(true)) {
                System.out.println(profile.getName());
                System.out.println(profile.getActive());
                System.out.println(profile.getPrfMisc());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserProfile

Description:

Method	Return values	Description
getUserProfile(String userId)	**Profile**	Return the profile assigned to a user.

Each user has assigned one profile that enables more or less of the OpenKM UI features.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Profile;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Profile profile = ws.auth.getUserProfile("okmAdmin");
            System.out.println(profile.getName());
            System.out.println(profile.getActive());
            System.out.println(profile.getPrfMisc());
        } catch (Exception e) {
            e.printStackTrace();
        }
```

```
    }
}
```

setUserProfile

Description:

Method	Return values	Description
setUserProfile(String userId, long profileId)	**void**	Change the assigned profile to a user.

Each user has assigned one profile that enables more or less of the OpenKM UI features.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Profile;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            // Set the profile named "default" to the user
            for (Profile profile : ws.auth.getProfiles(true)) {
                if (profile.getName().equals("default")) {
                    ws.auth.setUserProfile("test", profile.getId());
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserToken

Description:

Method	Return values	Description
getUserToken(String userId)	**String**	Return the token to a user.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            String token = ws.auth.getUserToken("okmAdmin");
            System.out.println(token);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setUserPermissions

Description:

Method	Return values	Description
setUserPermissions(String uuid, String userId, int permissions, boolean recursive)	**void**	Update user permissions on a node.
The parameter recursive only has sense when the uuid is a folder or record node. When parameter recursive is true, the change will be applied to the node and descendants.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Permission;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

```
        try {
            ws.login(user, password);
            // Update permissions of sochoa at the node but not descendants
            ws.auth.setUserPermissions("3c68b3a1-c65c-4b1e-84b5-9ce2712ca573", "sochoa", Permission.READ + Pe

            // Update permissions of okmAdmin at the node and descendants
            ws.auth.setUserPermissions("3c68b3a1-c65c-4b1e-84b5-9ce2712ca573", "okmAdmin", Permission.ALL_GF
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setRolePermissions

Description:

Method	Return values	Description
setRolePermissions(String uuid, String roleId, int permissions, boolean recursive)	**void**	Update role permissions on a node.
The parameter recursive only has sense when the uuid is a folder or record node. When parameter recursive is true, the change will be applied to the node and descendants.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Permission;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            // Update permissions of ROLE_USER at the node but not descendants
            ws.auth.setRolePermissions("3c68b3a1-c65c-4b1e-84b5-9ce2712ca573", "ROLE_USER", Permission.REAI

            // Update permissions of ROLE_ADMIN at the node and descendants
            ws.auth.setRolePermissions("3c68b3a1-c65c-4b1e-84b5-9ce2712ca573", "ROLE_ADMIN", Permission.ALL
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserTenants

Description:

Method	Return values	Description
getUserTenants()	**List<Tenant>**	Return the list of all tenants.

Example:

```
package com.openkm;

import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Tenant;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<Tenant> tenants = ws.auth.getUserTenants();
            for (Tenant tenant : tenants) {
                System.out.println(tenant);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setUserTenant

Description:

Method	Return values	Description
setUserTenant(long tenantId)	**void**	Change the assigned tenant to a user.

User might have access to several tenants but only have one assigned.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            long tenantId = 1;
            ws.auth.setUserTenant(tenantId);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

isLoginLowercase

Description:

Method	Return values	Description
isLoginLowercase()	**void**	Return true when user is must be set in lowercase in login.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.auth.isLoginLowercase());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

isPasswordExpired

Description:

Method	Return values	Description
isPasswordExpired()	**void**	True when the password of the user has expired.

By default the password expriation is disabled. Take a look at the configuration parameter named "**user.password.expiration**" in the Security configuration parameters section to enable.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println("Password expired: " + ws.auth.isPasswordExpired());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getToken

Description:

Method	Return values	Description
getToken()	void	Get a new authentication token

Authentication token expires after 24 hours or later (it depends on how was created). This method helps in refreshing the current token.

Example:

```
package com.openkm;
```

```
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.getToken();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Bookmark samples

Basics

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Bookmark methods from "**bookmark**" class as is shown below:

```
ws.bookmark.getUserBookmarks()
```

Methods

getUserBookmarks

Description:

Method	Return values	Description
getUserBookmarks()	**List<Bookmark>**	Returns a list of all the bookmarks of a user.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Bookmark;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
```

```
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (Bookmark bookmark : ws.bookmark.getUserBookmarks()) {
                System.out.println(bookmark);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createBookmark

Description:

Method	Return values	Description
createBookmark(String uuid, String name)	**void**	Create a new bookmark.
The value of the **uuid** is the UUID of the node (document, folder, mail or record).		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.bookmark.createBookmark("a37f570f-5e7f-4a03-8d04-9b3689be82f1", "test bookmark");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

renameBookmark

Description:

Method	Return values	Description
renameBookmark(int bookmarkId, String name)	**void**	Rename a bookmark

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            int bookmarkId = 1;
            ws.bookmark.renameBookmark(bookmarkId, "set bookmark");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteBookmark

Description:

Method	Return values	Description
deleteBookmark(int bookmarkId)	**void**	Delete a bookmark.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            int bookmarkId = 1;
            ws.bookmark.deleteBookmark(bookmarkId);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
```

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```
}
```

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Conversion samples

Basics

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Conversion methods from "**conversion**" class as is shown below:

```
ws.conversion.doc2pdf(is, "test.docx");
```

Methods

doc2pdf

Description:

Method	Return values	Description
doc2pdf(InputStream is, String fileName)	**InputStream**	Retrieve the uploaded document converted to PDF format.
The parameter fileName is the document file name. Application uses this parameter to identify by document extension the document MIME TYPE.		

The openoffice service must be enabled in OpenKM server to get it running.

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Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/openkm/test.docx");
            FileOutputStream fos = new FileOutputStream("/home/openkm/out.pdf");
            InputStream convertedStream = ws.conversion.doc2pdf(is, "test.docx");
            IOUtils.copy(convertedStream, fos);
            is.close();
            convertedStream.close();
            fos.close();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

imageConvert

Description:

Method	Return values	Description
imageConvert(InputStream is, String fileName, String params, String dstMimeType)	**InputStream**	Retrieve the uploaded image with transformation.

The variable fileName is the document file name. Application uses this variable to identify by document extension the document MIME TYPE.

The parameter dstMimeType is the expected document MIME TYPE result.

Using this method you are really executing on server side the ImageMagick convert tool.

You can set a lot of parameters - transformations - in **params** variable. Take a look at ImageMagick convert tool to get a complete list of them.

The image convert tool must be enabled in OpenKM server to get it running.

When params value is not empty always must contains ends with the chain "${fileIn} ${fileOut}".

Ensure there is only a white space as separator between two parameters.

When building your integrations, we suggest installing ImageMagic software locally, and check your image transformations first from your command line.

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/openkm/test.png");
            FileOutputStream fos = new FileOutputStream("/home/openkm/out.jpg");
            InputStream convertedStream = ws.conversion.imageConvert(is, "test.png", "-resize 50% ${fileIn} ${fileOut}"
            IOUtils.copy(convertedStream, fos);
            is.close();
            convertedStream.close();
            fos.close();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

html2pdf

Description:

Method	Return values	Description
html2pdf(String url)	**InputStream**	Retrieve the PDF of an URL.

The HTML to PDF conversion tool must be enabled in OpenKM server to get it running.

Example:

```
package com.openkm;

import java.io.FileOutputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            FileOutputStream fos = new FileOutputStream("/home/openkm/out.pdf");
            InputStream is = ws.conversion.html2pdf("https://www.openkm.com/es/");
            IOUtils.copy(is, fos);
            is.close();
            fos.close();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

doc2txt

Description:

Method	Return values	Description
doc2txt(InputStream is, String fileName)	**String**	Extracts the text from the upload document.

Must be enabled a Text Extractor for the document MIME TYPE in OpenKM server to get it running.

Example:

```
package com.openkm;

import java.io.FileInputStream;
```

```
import java.io.InputStream;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/openkm/test.docx");
            System.out.println(ws.conversion.doc2txt(is, "test.docx"));
            is.close();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

img2txt

Description:

Method	Return values	Description
img2txt(InputStream is, String fileName)	**String**	Extracts the text from the uploaded image.

The OCR engine must be enabled in OpenKM server to get it running.

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/openkm/test.png");
            System.out.println(ws.conversion.img2txt(is, "test.png"));
```

```
            is.close();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

barcode2txt

Description:

Method	Return values	Description
barcode2txt(InputStream is, String fileName)	**String**	Extracts the barcode text from the uploaded image.

The Bar Code tool must be enabled in OpenKM server to get it running.

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/openkm/test.png");
            System.out.println(ws.conversion.barcode2txt(is, "test.png"));
            is.close();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Dashboard samples

Basics

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Dashboard methods from " **dasboard**" class as is shown below:

```
ws.dashboard.getUserCheckedOutDocuments(0, 5);
```

Methods

getUserCheckedOutDocuments

Description:

Method	Return values	Description
getUserCheckedOutDocuments(int offset, int limit)	**DashboardResultSet**	Returns a list of the documents in edition by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserCheckedOutDocuments(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLastModifiedDocuments

Description:

Method	Return values	Description
getUserLastModifiedDocuments(int offset, int limit)	**DashboardResultSet**	Returns a list of the last documents modified by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLastModifiedDocuments(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLockedDocuments

Description:

Method	Return values	Description
getUserLockedDocuments(int offset, int	**DashboardResultSet**	Returns a list of the documents locked by the

limit)		user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLockedDocuments(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLockedRecords

Description:

Method	Return values	Description
getUserLockedRecords(int offset, int limit)	**DashboardResultSet**	Returns a list of the records locked by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLockedRecords(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
```

```
}
```

getUserLockedFolders

Description:

Method	Return values	Description
getUserLockedFolders(int offset, int limit)	**DashboardResultSet**	Returns a list of the folders locked by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLockedFolders(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
```

```
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLockedMails

Description:

Method	Return values	Description
getUserLockedMails(int offset, int limit)	**DashboardResultSet**	Returns a list of the mails locked by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

```
        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLockedMails(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserSubscribedDocuments

Description:

Method	Return values	Description
getUserSubscribedDocuments(int offset, int limit)	**DashboardResultSet**	Returns a list of the documents subscribed by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;
```

```
public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserSubscribedDocuments(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserSubscribedFolders

Description:

Method	Return values	Description
getUserSubscribedFolders(int offset, int limit)	**DashboardResultSet**	Returns a list of the folders subscribed by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserSubscribedFolders(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserSubscribedRecords

Description:

Method	Return values	Description
getUserSubscribedRecords(int offset, int limit)	**DashboardResultSet**	Returns a list of the records subscribed by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserSubscribedRecords(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLastCreatedDocuments

Description:

Method	Return values	Description
getUserLastCreatedDocuments(int offset, int limit)	**DashboardResultSet**	Returns a list of the last documents created by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLastCreatedDocuments(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLastDocumentsNotesCreated

Description:

Method	Return values	Description
getUserLastDocumentsNotesCreated(int offset, int limit)	**DashboardResultSet**	Returns a list of the last documents notes created by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLastDocumentsNotesCreated(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLastCreatedFolders

Description:

Method	Return values	Description
getUserLastCreatedFolders(int offset, int limit)	**DashboardResultSet**	Returns a list of the last folders created by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLastCreatedFolders(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLastFoldersNotesCreated

Description:

Method	Return values	Description

getUserLastFoldersNotesCreated(int offset, int limit)	**DashboardResultSet**	Returns a list of the last folders notes created by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLastFoldersNotesCreated(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLastCreatedRecords

Description:

Method	Return values	Description
getUserLastCreatedRecords(int offset, int limit)	**DashboardResultSet**	Returns a list of the last records created by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLastCreatedRecords(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
```

```
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLastRecordsNotesCreated

Description:

Method	Return values	Description
getUserLastRecordsNotesCreated(int offset, int limit)	**DashboardResultSet**	Returns a list of the last records notes created by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

```
        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLastRecordsNotesCreated(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLastDownloadedDocuments

Description:

Method	Return values	Description
getUserLastDownloadedDocuments(int offset, int limit)	**DashboardResultSet**	Returns a list of the last documents downloaded by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {
```

```
    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLastDownloadedDocuments(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLastImportedMails

Description:

Method	Return values	Description
getUserLastImportedMails(int offset, int limit)	**DashboardResultSet**	Returns a list of the last mails imported by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;
```

```
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLastImportedMails(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLastMailsNotesCreated

Description:

Method	Return values	Description
getUserLastMailsNotesCreated(int offset, int limit)	**DashboardResultSet**	Returns a list of the last mails notes created by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLastMailsNotesCreated(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserLastImportedMailAttachments

Description:

Method	Return values	Description
getUserLastImportedMailAttachments(int offset, int limit)	**DashboardResultSet**	Returns a list of the last mails imported with attachments by the user.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardResult;
import com.openkm.sdk4j.bean.DashboardResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            DashboardResultSet resultSet = ws.dashboard.getUserLastImportedMailAttachments(0, 5);
            System.out.println("Total: " + resultSet.getTotal());
            for (DashboardResult dashboardResult : resultSet.getResults()) {
                System.out.println(dashboardResult.getNode());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getUserSearches

Description:

Method	Return values	Description
getUserSearches()	**List<QueryParams>**	Returns a list of the searches saved by the user as user news.

Example:

```
package com.openkm;

import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {
```

```
    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<QueryParams> results = ws.dashboard.getUserSearches();
            for (QueryParams userSearch : results) {
                System.out.println(userSearch);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findUserSearches

Description:

Method	Return values	Description
findUserSearches(long qpId)	**List<DashboardNodeResult>**	Returns a list of nodes based in a search saved by the user (search of type user news).

Example:

```
package com.openkm;

import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.DashboardNodeResult;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            long qpId = 1;
            List<DashboardNodeResult> results = ws.dashboard.findUserSearches(qpId);
            for (DashboardNodeResult nodeResult : results) {
                System.out.println(nodeResult);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Document samples

Basics

Example of uuid:

- Using UUID -> "**f123a950-0329-4d62-8328-0ff500fd42db**";

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Document methods from "**document**" class as is shown below:

```
ws.document.createDocument("1be884f4-5758-4985-94d1-f18bfe004db8", "logo.png", is);
```

Methods

createDocument

Description:

Method	Return values	Description
createDocument(String uuid, String name, InputStream is)	**Document**	Creates a new document. Return an object Document with the properties of the created document.
The values of the uuid parameter should be a folder or record node UUID.		

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Document;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/gnujavasergio/okm/logo.png");
            Document doc = ws.document.createDocument("1be884f4-5758-4985-94d1-f18bfe004db8", "logo.png", is);
            System.out.println(doc);
            IOUtils.closeQuietly(is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createDocument

Description:

Method	Return values	Description
createDocument(String uuid, String name, InputStream is, long nodeClass)	**Document**	Creates a new document with nodeClass. Return an object Document with the properties of the created document.
The values of the uuid parameter should be a folder or record node UUID. The nodeClass parameter should be a valid bussiness type (serie) value. A nodeClass with value 0 means there's no business type (serie) selected.		

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;
```

```
import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Document;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/gnujavasergio/okm/logo.png");
            long nodeClass = 0;
            Document doc = ws.document.createDocument("1be884f4-5758-4985-94d1-f18bfe004db8", "logo.png", is, n
            System.out.println(doc);
            IOUtils.closeQuietly(is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteDocument

Description:

Method	Return values	Description
deleteDocument(String uuid)	**void**	Delete a document.

When a document is deleted it is automatically moved to /okm:trash/userId folder.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.document.deleteDocument("1ec49da9-1746-4875-ae32-9281d7303a62");
        } catch (Exception e) {
```

```
            e.printStackTrace();
        }
    }
}
```

getDocumentProperties

Description:

Method	Return values	Description
getDocumentProperties(String uuid)	**Document**	Return the document properties.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.document.getDocumentProperties("1ec49da9-1746-4875-ae32-9281d7303a62"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getContent

Description:

Method	Return values	Description
getContent(String uuid)	**InputStream**	Retrieve document content - binary data - of the actual document version.

In case you sent the file across a Servlet response we suggest set the content length with:

```
Document doc = ws.getDocumentProperties("1ec49da9-1746-4875-ae32-9281d7303a62");
response.setContentLength(new Long(doc.getActualVersion().getSize()).intValue());
```

We've found wrong size problems while using:

```
response.setContentLength(is.available());
```

Example:

```
package com.openkm;

import java.io.FileOutputStream;
import java.io.InputStream;
import java.io.OutputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            OutputStream fos = new FileOutputStream("/home/openkm/logo.png");
            InputStream is = ws.document.getContent("1ec49da9-1746-4875-ae32-9281d7303a62");
            IOUtils.copy(is, fos);
            IOUtils.closeQuietly(is);
            IOUtils.closeQuietly(fos);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getContentByVersion

Description:

Method	Return values	Description
getContentByVersion(String uuid, String versionName)	**InputStream**	Retrieves a document content (binary data) from a specific document version.

In case you sent the file across a Servlet response we suggest set the content length with:

```
Document doc = ws.getDocumentProperties("1ec49da9-1746-4875-ae32-9281d7303a62");
response.setContentLength(new Long(doc.getActualVersion().getSize()).intValue());
```

We've found wrong size problems while using:

```
response.setContentLength(is.available());
```

Example:

```
package com.openkm;

import java.io.FileOutputStream;
import java.io.InputStream;
import java.io.OutputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            OutputStream fos = new FileOutputStream("/home/openkm/logo.png");
            InputStream is = ws.document.getContentByVersion("/okm:root/logo.png", "1.1");
            IOUtils.copy(is, fos);
            IOUtils.closeQuietly(is);
            IOUtils.closeQuietly(fos);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getDocumentChildren

Description:

Method	Return values	Description
getDocumentChildren(String fldId)	**List<Document>**	Returns a list of all documents which their parent is fldId.
The parameter fldId can be a folder or a record node UUID.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Document;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (Document doc : ws.document.getDocumentChildren("1be884f4-5758-4985-94d1-f18bfe004db8")) {
                System.out.println(doc);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

renameDocument

Description:

Method	Return values	Description
renameDocument(String uuid, String newName)	**Document**	Changes the name of a document.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Document;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Document doc = ws.document.renameDocument("1ec49da9-1746-4875-ae32-9281d7303a62", "logo_renam
            System.out.print(doc);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setProperties

Description:

Method	Return values	Description
setProperties(String uuid, String title, String description, String lang, List<String> keywords, List<String> categories)	**void**	Changes some document properties.

The parameter lang must be ISO 691-1 compliant.

More information at: https://en.wikipedia.org/wiki/List_of_ISO_639-1_codes.

Example:

```
package com.openkm;

import java.util.ArrayList;
import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<String> keywords = new ArrayList<>();
            keywords.add("test");
            keywords.add("invoice");

            List<String> categories = new ArrayList<>();
            categories.add("58c9b25f-d83e-4006-bd78-e26d7c6fb648");

            ws.document.setProperties("1ec49da9-1746-4875-ae32-9281d7303a62", "new title", "some description", "es
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setLanguage

Description:

Method	Return values	Description

setLanguage(String uuid, String lang)	**void**	Sets the document language.

The parameter lang must be ISO 691-1 compliant.

More information at: https://en.wikipedia.org/wiki/List_of_ISO_639-1_codes.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.document.setLanguage("1ec49da9-1746-4875-ae32-9281d7303a62", "en");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setDocumentTitle

Description:

Method	Return values	Description
setDocumentTitle(String uuid, String title)	**void**	Sets the document title.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
```

```
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.document.setDocumentTitle("1ec49da9-1746-4875-ae32-9281d7303a62", "Some title here");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

checkout

Description:

Method	Return values	Description
checkout(String uuid)	**void**	Marks the document for edition.

Only one user can modify a document at a time.

Before starting edition you must do a checkout action that locks the edition process for other users and allows edition only to the user who has executed the action.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.document.checkout("1ec49da9-1746-4875-ae32-9281d7303a62");
            // At this point the document is locked for other users except for the user who executed the action
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

cancelCheckout

Description:

Method	Return values	Description
cancelCheckout(String uuid)	**void**	Cancels a document edition.

This action can only be done by the user who previously executed the checkout action.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            // At this point the document is locked for other users except for the user who executed the action
            ws.document.cancelCheckout("1ec49da9-1746-4875-ae32-9281d7303a62");
            // At this point other users are allowed to execute a checkout and modify the document
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

forceCancelCheckout

Description:

Method	Return values	Description
forceCancelCheckout(String uuid)	**void**	Cancels a document edition.

This method allows to cancel edition on any document.

It is not mandatory to execute this action by the same user who previously executed the checkout action.

This action can only be done by a super user (user with ROLE_ADMIN).

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            // At this point the document is locked for other users except for the user who executed the action
            ws.document.forceCancelCheckout("1ec49da9-1746-4875-ae32-9281d7303a62");
            // At this point other users are allowed to execute a checkout and modify the document
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

isCheckedOut

Description:

Method	Return values	Description
isCheckedOut(String docId)	**Boolean**	Returns a boolean that indicates if the document is on edition or not.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println("Is the document checkout:" + ws.document.isCheckedOut("1ec49da9-1746-4875-ae32-9
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

checkin

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Description:

Method	Return values	Description
checkin(String uuid, InputStream is, String comment)	**Version**	Updates a document with a new version and returns an object with new Version values.

Only the user who started the edition - checkout - is allowed to update the document.

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/openkm/logo.png");
            ws.document.checkin("1ec49da9-1746-4875-ae32-9281d7303a62", is, "optional some comment");
            IOUtils.closeQuietly(is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

checkin

Description:

Method	Return values	Description
checkin(String docId, InputStream is, String comment, int increment)	**Version**	Updates a document with a new version and returns an object with new Version values.

The value of increment variable must be 1 or greater.

The valid values of increment variable depends on the VersionNumberAdapter you have enabled.

Only the user who started the edition - checkout - is allowed to update the document.

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/openkm/logo.png");
            ws.document.checkin("1ec49da9-1746-4875-ae32-9281d7303a62", is, "optional some comment", 2);
            IOUtils.closeQuietly(is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

isLocked

Description:

Method	Return values	Description
isLocked(String uuid)	**Boolean**	Returns a boolean that indicates if the document is locked or not.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {
```

```
    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println("Is document locked:" + ws.document.isLocked("1ec49da9-1746-4875-ae32-9281d7303a
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getLockInfo

Description:

Method	Return values	Description
getLockInfo(String uuid)	**LockInfo**	Returns an object with the Lock information

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.document.getLockInfo("1ec49da9-1746-4875-ae32-9281d7303a62"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

purgeDocument

Description:

Method	Return values	Description
purgeDocument(String uuid)	**void**	The document is definitely removed from repository.

Usually you will purge documents into /okm:trash/userId - the personal trash user locations - but is possible to directly purge any document from the whole repository.

When a document is purged only will be able to be restored from a previously repository backup. The purge action removes the document definitely from the repository.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.document.purgeDocument("1ec49da9-1746-4875-ae32-9281d7303a62");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

moveDocument

Description:

Method	Return values	Description
moveDocument(String uuid, String dstId)	**void**	Move document into some folder or record.
The values of the dstId parameter should be a folder or record UUID.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
```

```
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.document.moveDocument("9ed5c7b1-9314-4479-8f80-fd8e2b47f55e", "8599eab7-ae61-4628-8010-1103
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

copyDocument

Description:

Method	Return values	Description
copyDocument(String uuid, String dstId, String newName)	**void**	Copy a document into some folder or record.

The values of the dstId parameter should be a folder or record UUID.

When the parameter newName value is null,the document will preservate the same name.

Only the binary data and the security grants are copied to destination, the metadata, keywords, etc. of the document are not copied.

See "**extendedDocumentCopy**" method for this feature.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.document.copyDocument("9ed5c7b1-9314-4479-8f80-fd8e2b47f55e", "8599eab7-ae61-4628-8010-1103
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
```

```
}
```

getVersionHistorySize

Description:

Method	Return values	Description
getVersionHistorySize(String uuid)	**long**	Returns the sum in bytes of all documents into documents history.

Example:

```
package com.openkm;

import java.util.Locale;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            String[] UNITS = new String[]{"B", "KB", "MB", "GB", "TB", "PB", "EB"};
            long bytes = ws.document.getVersionHistorySize("9ed5c7b1-9314-4479-8f80-fd8e2b47f55e");
            String value = "";

            for (int i = 6; i > 0; i--) {
                double step = Math.pow(1024, i);
                if (bytes > step) {
                    value = String.format(Locale.ROOT, "%3.1f %s", bytes / step, UNITS[i]);
                }
            }

            if (value.isEmpty()) {
                value = Long.toString(bytes) + " " + UNITS[0];
            }

            System.out.println(value);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

isValidDocument

Description:

Method	Return values	Description
isValidDocument(String docId)	**Boolean**	Returns a boolean that indicates if the node is a document or not.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.document.isValidDocument("9ed5c7b1-9314-4479-8f80-fd8e2b47f55e"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getDocumentPath

Description:

Method	Return values	Description
getDocumentPath(String uuid)	**String**	Converts a document UUID to document path.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.document.getDocumentPath("9ed5c7b1-9314-4479-8f80-fd8e2b47f55e"));
        } catch (Exception e) {
            e.printStackTrace();
```

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```
        }
    }
}
```

getDetectedLanguages

Description:

Method	Return values	Description
getDetectedLanguages()	**List<String>**	Return a list of available document languages what OpenKM can identify.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (String lang : ws.document.getDetectedLanguages()) {
                System.out.println(lang);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

extendedDocumentCopy

Description:

Method	Return values	Description
extendedDocumentCopy(String nodeId, String dstId, String name, boolean categories, boolean keywords, boolean propertyGroups, boolean notes, boolean security)	**void**	Copies a document with associated data into some folder or record.
The values of the nodeId parameter should be a Document UUID.		

The values of the dstId parameter should be a folder or a record UUID.

When the parameter newName value is null, the document will preserve the same name.

By default only the binary data and the security grants, the metadata, keywords, etc. of the document are not copied.

Additional:

- When the category parameter is true the original values of the categories will be copied.
- When the keywords parameter is true the original values of the keywords will be copied.
- When the propertyGroups parameter is true the original values of the metadata groups will be copied.
- When the notes parameter is true the original value of the notes will be copied.
- When the security parameter is true the original value of the security will be copied.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Document;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Document document = ws.document.extendedDocumentCopy("055b5206-35d0-4351-ba92-c304bbba7ddf",
            System.out.println(document);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getExtractedText

Description:

Method	Return values	Description
getExtractedText(String uuid)	**String**	Returns an String with the extracted text by text extractor process.

When a document is uploaded to OpenKM, it goes into text extraction queue. There's a crontab tab that periodically process this queue and extract document contents.

Unfortunately there is not a direct way to know if a document has been processed or not from the API, because this information is only stored at database level.

Althoughthis restriction, from API - only administrators users - can do database queries to retrieve this information. Check Repository samples for accessing database level.

More information at Statistics.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

import java.io.FileInputStream;
import java.io.InputStream;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);

            InputStream is = new FileInputStream("/home/openkm/test.pdf");
            ws.document.setExtractedText("301de803-f4ae-48f1-8505-e83b26716956", is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setExtractedText

Description:

Method	Return values	Description
setExtractedText(String uuid, InputStream is)	**void**	Set extracted text

Example:

```
package com.openkm;
```

```
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            String text = ws.document.getExtractedText("46762f90-82c6-4886-8d21-ad3017dd78a7");
            System.out.println(text);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getThumbnail

Description:

Method	Return values	Description
getThumbnail(String uuid, ThumbnailType type)	**InputStream**	Returns thumbnail image data.

Available types:

- ThumbnailType.THUMBNAIL_PROPERTIES (shown in properties view)
- ThumbnailType.THUMBNAIL_LIGHTBOX (shown in light box)
- ThumbnailType.THUMBNAIL_SEARCH (shown in search view)

Each thumbnail type has its own image dimensions.

Example:

```
package com.openkm;

import java.io.FileOutputStream;
import java.io.InputStream;
import java.io.OutputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.ThumbnailType;
import com.openkm.sdk4j.impl.OKMWebservices;
```

```
public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            OutputStream fos = new FileOutputStream("/home/openkm/invoice.png");
            InputStream is = ws.document.getThumbnail("46762f90-82c6-4886-8d21-ad3017dd78a7", ThumbnailType.T
            IOUtils.copy(is, fos);
            IOUtils.closeQuietly(is);
            IOUtils.closeQuietly(fos);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createDocumentFromTemplate

Description:

Method	Return values	Description
createDocumentFromTemplate(String uuid, String dstPath, boolean categories, boolean keywords, boolean notes, Map<String, String> properties)	**Document**	Creates a new document from the template and returns an object Document.

The **uuid** parameter is the UUID value of the template file.

The **dstPath** value is the document destination path.

When the template uses metadata groups to fill in fields, then these values are mandatory and must be set into properties parameter.

For more information about Templates and metadata check: Creating templates Creating templates

Additional:

- When category parameter is true the original values of the categories will be copied.
- When keywords parameter is true the original values of the keywords will be copied.
- When notes parameter is true the original values of the notes will be copied.

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Example:

The example below is based on Creating PDF template sample.

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Document;
import com.openkm.sdk4j.impl.OKMWebservices;
import com.openkm.sdk4j.util.ISO8601;

import java.util.Calendar;
import java.util.HashMap;
import java.util.Map;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String username = "okmAdmin";
        String password = "admin";

        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(username, password);

            Map<String, String> properties = new HashMap<>();
            // okg:tpl
            properties.put("okp:tpl.name", "sdk name");
            Calendar cal = Calendar.getInstance();
            // Value must be converted to String ISO 8601 compliant
            properties.put("okp:tpl.bird_date", ISO8601.formatBasic(cal));
            properties.put("okp:tpl.language", "[ \"java\" ]");

            // Property okg:technology
            properties.put("okp:technology.comment", "sdk name");

            Document document = ws.document.createDocumentFromTemplate("5e72dec8-2409-405b-ac15-d964feb3
            System.out.println(document);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

updateDocumentFromTemplate

Description:

Method	Return values	Description
updateDocumentFromTemplate(String uuid, String dstId, Map<String, String> properties)	**Document**	Updates a document previously created from the template and returns an object Document.

The uuid value is the UUID value of the template file.

The dstId is the document to updated UUID.

This method only has sense when the template uses metadata groups to fill in fields.

For more information about Templates and metadata take a look at Creating templates .

Example:

The example below is based on Creating PDF template sample.

```
package com.openkm;

import java.util.Calendar;
import java.util.HashMap;
import java.util.Map;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;
import com.openkm.sdk4j.util.ISO8601;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Map<String, String> properties = new HashMap<>();
            properties.put("okp:tpl.name", "update Some name");
            Calendar cal = Calendar.getInstance();
            // Value must be converted to String ISO 8601 compliant
            properties.put("okp:tpl.bird_date", ISO8601.formatBasic(cal));
            properties.put("okp:tpl.language", "[ \"python\" ]");

            ws.document.updateDocumentFromTemplate("9fa9787e-d8b0-4ff7-905a-a89f0b228ec8", "058b9379-b441-4
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getCheckedOut

Description:

Method	Return values	Description
getCheckedOut()	**List<Document>**	Return a list of documents checkout by the user.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Document;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (Document doc : ws.document.getCheckedOut()) {
                System.out.println(doc);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createDocument

Description:

Method	Return values	Description
createDocument(String uuid, File file)	**Document**	Creates a new document and returns as a result an object Document with the properties of the created document.
The values of the **uuid** parameter should be a folder or record node UUID.		

Example:

```
package com.openkm;

import java.io.File;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Document;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
```

```
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            File file = new File("/home/gnujavasergio/okm/logo.png");
            Document doc = ws.document.createDocument("151f3a54-f370-47d6-801a-d20faecec180", file);
            System.out.println(doc);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setDocumentDescription

Description:

Method	Return values	Description
setDocumentDescription(String uuid, String description)	**void**	Set a description.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.document.setDocumentDescription("7ce1b4a8-4ade-4dce-8d7d-4e99a6cd368b", "some description");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createWizardDocument

Description:

Method	Return values	Description
createWizardDocument(String uuid, String name, long nodeClass,	**WizardNode**	Create a new document

InputStream is)		with wizard.

The parameters **uuid** should be any valid folder or record **UUID**.

The WizardNode contains a list of pending actions what should be done to complete the process of document creation. These might be:

- Add keyword
- Add Categories
- Add Metadata

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.WizardNode;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/gnujavasergio/okm/logo.png");
            WizardNode wn = ws.document.createWizardDocument("1f323e88-64ee-4f57-91e2-9276f8c603f9", "logo.pr
            System.out.print(wn);
            IOUtils.closeQuietly(is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getNumberOfPages

Description:

Method	Return values	Description
getNumberOfPages(String uuid)	**int**	Get the number of pages of a document.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println("The number of pages is : " + ws.document.getNumberOfPages("b2f88679-e3fd-4f97-bf0
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getPageAsImage

Description:

Method	Return values	Description
getPageAsImage(String uuid, int pageNumber, int maxWidth, int maxHeight)	**String**	Return specific page as an image encoded as a String in b64.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.document.getPageAsImage("3fe350e2-69e8-4681-a97c-6ac4ba6c1524", 1, 150, 150)
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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isAttachment

Description:

Method	Return values	Description
isAttachment(String docId)	**Boolean**	Returns a boolean that indicates if the node is a mail attachment or not.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.document.isAttachment("9ed5c7b1-9314-4479-8f80-fd8e2b47f55e"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getDocumentPdf

Description:

Method	Return values	Description
getDocumentPdf(String uuid)	**InputStream**	Returns a PDF of the document.

Example:

```
package com.openkm;

import java.io.FileOutputStream;
import java.io.InputStream;
import java.io.OutputStream;

import org.apache.commons.io.IOUtils;
```

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```
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Document;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Document doc = ws.document.getDocumentProperties("7f6c5c0b-a66b-4782-9595-e14b402a18b0");
            InputStream is = ws.document.getDocumentPdf(doc.getUuid());
            OutputStream fos = new FileOutputStream("/home/openkm/book.pdf");
            IOUtils.copy(is, fos);
            IOUtils.closeQuietly(is);
            IOUtils.closeQuietly(fos);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Folder samples

Basics

Example of uuid:

- Using UUID -> "**f123a950-0329-4d62-8328-0ff500fd42db**";

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Folder methods from "**folder**" class as is shown below:

```
ws.folder.createFolder("1be884f4-5758-4985-94d1-f18bfe004db8", "test");
```

Methods

createFolder

Description:

Method	Return values	Description
createFolder(String uuid, String name)	**Folder**	Creates a new folder and returns as a result an object Folder.
The parameters **uuid** should be any valid folder or record **UUID**.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Folder;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Folder folder = ws.folder.createFolder("1be884f4-5758-4985-94d1-f18bfe004db8", "test");
            System.out.println(folder);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getFolderProperties

Description:

Method	Return values	Description
getFolderProperties(String uuid)	**Folder**	Return the folder properties.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.folder.getFolderProperties("76f4155e-42af-4be4-9a1c-756497616fb6"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteFolder

Description:

Method	Return values	Description
deleteFolder(String fldId)	**void**	Delete a folder.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.folder.deleteFolder("76f4155e-42af-4be4-9a1c-756497616fb6");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

renameFolder

Description:

Method	Return values	Description
renameFolder(String fldId, String newName)	**void**	Rename a folder.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
```

```
            // Exists folder /okm:root/test
            ws.folder.renameFolder("91264771-02b9-471d-b7a3-ba8cc49a10dd", "renamedFolder");
            // Folder has renamed to /okm:root/renamedFolder
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

moveFolder

Description:

Method	Return values	Description
moveFolder(String uuid, String dstId)	**void**	Moves folder into some folder or record.
The values of the dstId parameter should be a folder or record UUID.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            // Exists folder /okm:root/test
            ws.folder.moveFolder("ada67d44-b081-4b23-bdc1-74181cafbc5d", "8599eab7-ae61-4628-8010-1103d6950
            // Folder has moved to /okm:root/tmp/test
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getFolderChildren

Description:

Method	Return values	Description
getFolderChildren(String uuid)	**List<Folder>**	Returns a list of all folders which their parent is fldId.
The parameter uuid can be a folder or a record node.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Folder;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (Folder fld : ws.folder.getFolderChildren("1be884f4-5758-4985-94d1-f18bfe004db8")) {
                System.out.println(fld);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

isValidFolder

Description:

Method	Return values	Description
isValidFolder(String uuid)	**Boolean**	Returns a boolean that indicates if the node is a folder or not.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            // Return false
            ws.folder.isValidFolder("8cd1e072-8595-4dd3-b121-41d622c43f08");

            // Return true
            ws.folder.isValidFolder("1be884f4-5758-4985-94d1-f18bfe004db8");
```

```
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getFolderPath

Description:

Method	Return values	Description
getFolderPath(String uuid)	**String**	Convert folder UUID to folder path.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.folder.getFolderPath("1be884f4-5758-4985-94d1-f18bfe004db8"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

copyFolder

Description:

Method	Return values	Description
copyFolder(String uuid, String dstId, String newName)	**void**	Copies a folder into a folder or record.

The values of the dstId parameter should be a folder or record UUID.

When parameter newName value is null, folder will preservate the same name.

Only the security grants are copied to destination, the metadata, keywords, etc. of the folder are not copied.

See "**extendedFolderCopy**" method for this feature.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.folder.copyFolder("ada67d44-b081-4b23-bdc1-74181cafbc5d", "8599eab7-ae61-4628-8010-1103d6950c
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

extendedFolderCopy

Description:

Method	Return values	Description
extendedFolderCopy(String uuid, String dstId, String newName, boolean categories, boolean keywords, boolean propertyGroups, boolean notes, boolean security)	**void**	Copies a folder with the associated data into some folder or record.

The values of the dstId parameter should be a folder or record UUID.

When parameter newName value is null, folder will preservate the same name.

By default only the binary data and the security grants, the metadata, keywords, etc. of the folder are not copyed.

Additional:

- When the category parameter is true the original values of the categories will be copied.
- When the keywords parameter is true the original values of the keywords will be copied.
- When the propertyGroups parameter is true the original values of the metadata groups will be copied.

- When the notes parameter is true the original values of the notes will be copied.
- When the security parameter is true the original value of the security will be copied.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Folder;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Folder folder = ws.folder.extendedFolderCopy("ada67d44-b081-4b23-bdc1-74181cafbc5d", "8599eab7-ae61
                    "new name folder", true, true, true, true, true);
            System.out.println(folder);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getContentInfo

Description:

Method	Return values	Description
getContentInfo(String uuid)	**ContentInfo**	Return and object ContentInfo with information about folder.

The ContentInfo object retrives information about:

- The number of folders into.
- The number of documents into.
- The number of records into.
- The number of mails into.
- The size in bytes of all objects into the folder.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.folder.getContentInfo("ada67d44-b081-4b23-bdc1-74181cafbc5d"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

purgeFolder

Description:

Method	Return values	Description
purgeFolder(String uuid)	**void**	The folder is definitely removed from the repository.

Usually you will purge folders into /okm:trash/userId - the personal trash user locations - but it is possible to directly purge any folder from the whole repository.

When a folder is purged, it will only be able to be restored from a previously repository backup. The purge action removes the folder definitely from the repository.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.folder.purgeFolder("ada67d44-b081-4b23-bdc1-74181cafbc5d");
```

```
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createMissingFolders

Description:

Method	Return values	Description
createMissingFolders(String fldPath)	**String**	Create missing folders.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.folder.createMissingFolders("/okm:root/missingfld1/missingfld2/missingfld3");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setFolderDescription

Description:

Method	Return values	Description
setFolderDescription(String uuid, String description)	**void**	Set a description.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;
```

```
public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.folder.setFolderDescription("4c195453-246b-4ce9-86ba-b84e68d1f284", "some description");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createFolderFromTemplate

Description:

Method	Return values	Description
createFolderFromTemplate(String uuid, String dstPath, boolean categories, boolean keywords, boolean notes, boolean propertyGroups, boolean security, Map<String, String> properties)	**Folder**	Creates a new folder from the template and returns an object Folder.

The **uuid** parameter is the UUID value of the template file.

The **dstPath** value is the folder destination path.

When the template uses metadata groups to fill in fields, then these values are mandatory and must be set into properties parameter.

Additional:

- When category parameter is true the original values of the categories will be copied.
- When keywords parameter is true the original values of the keywords will be copied.
- When notes parameter is true the original values of the notes will be copied.
- When propertyGroups parameter is true the original values of the propertygroups will be copied.
- When security parameter is true the original values of the security will be copied.

Example:

```
package com.openkm.example;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Folder;
import com.openkm.sdk4j.bean.PropertyGroup;
import com.openkm.sdk4j.impl.OKMWebservices;
import com.openkm.sdk4j.util.ISO8601;

import java.util.Calendar;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

public class FolderExample {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);

            // createFolderFromTemplate
            Map<String, String> properties = new HashMap<>();
            // okg:tpl
            properties.put("okp:tpl.name", "sdk name");
            Calendar cal = Calendar.getInstance();
            // Value must be converted to String ISO 8601 compliant
            properties.put("okp:tpl.bird_date", ISO8601.formatBasic(cal));
            properties.put("okp:tpl.language", "[ \"java\" ]");

            // Property okg:technology
            properties.put("okp:technology.comment", "sdk name");
            Folder folder = ws.folder.createFolderFromTemplate("47c70047-2924-483c-bc42-23d0cbef6b17", "/okm:root
            System.out.println(folder);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Import samples

Basics

We suggest executing the methods below for huge import or for simple creation cases.

These methods execute fewer steps in the background either what is described in Document samples and Folder samples. That means you will get extra performance in the action because there are executed less logic in the server side.

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Import methods from " **quickImport**" class as is shown below:

```
ws.quickImport.importDocument("1be884f4-5758-4985-94d1-f18bfe004db8", file);
```

Methods

importDocument

Description:

Method	Return values	Description
importDocument(String uuid, File file)	**String**	Creates a new document. Return an the UUID of the Document.
The values of the uuid parameter should be a folder or record node UUID.		

Example:

```
package com.openkm;

import java.io.File;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            File file = new File("/home/gnujavasergio/okm/logo.png");
            String uuid = ws.quickImport.importDocument("1be884f4-5758-4985-94d1-f18bfe004db8", file);
            System.out.println(uuid);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

importFolder

Description:

Method	Return values	Description
importFolder(String uuid, String name)	**String**	Creates a new folder. Return an the UUID of the folder.
The values of the uuid parameter should be a folder or record node UUID.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            String uuid = ws.quickImport.importFolder("1be884f4-5758-4985-94d1-f18bfe004db8", "folder-name");
```

```
            System.out.println(uuid);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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Mail samples

Basics

Example of uuid:

- Using UUID -> "**064ff51a-b815-4f48-a096-b4946876784f**";

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Mail methods from " **mail**" class as is shown below:

```
ws.mail.getMailProperties("05d9b8e3-f9c1-4ace-9007-afd775dbbced")
```

Methods

getMailProperties

Description:

Method	Return values	Description
getMailProperties(String uuid)	**Mail**	Returns the mail properties.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;
```

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```
public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.mail.getMailProperties("05d9b8e3-f9c1-4ace-9007-afd775dbbced"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteMail

Description:

Method	Return values	Description
deleteMail(String uuid)	**void**	Deletes a mail.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.mail.deleteMail("05d9b8e3-f9c1-4ace-9007-afd775dbbced");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

purgeMail

Description:

Method	Return values	Description
purgeMail(String uuid)	**void**	Mail is definitely removed from repository.

Usually, you will purge mails into /okm:trash/userId - the personal trash user locations - but it is possible to directly purge any mail from the whole repository.

When a mail is purged it will only be able to be restored from a previously repository backup. The purge action removes the mail definitely from the repository.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.mail.purgeMail("05d9b8e3-f9c1-4ace-9007-afd775dbbced");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

renameMail

Description:

Method	Return values	Description
renameMail(String uuid, String newName)	**void**	Rename a mail.

From OpenKM frontend UI the subject is used to show the mail name at file browser table. That means this change will take effect internally on mail path, but will not be appreciated from default UI.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;
```

```
public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.mail.renameMail("e3831cc4-30f0-419a-8fbf-a3418472ada5", "new name");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

moveMail

Description:

Method	Return values	Description
moveMail(String uuid, String dstId)	**void**	Move mail into a folder or record.
The values of the dstId parameter should be a folder or record UUID.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.mail.moveMail("e3831cc4-30f0-419a-8fbf-a3418472ada5", "ada67d44-b081-4b23-bdc1-74181cafbc5d");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

copyMail

Description:

Return

Method	values	Description
public void copyMail(String uuid, String dstId, String newName)	**void**	Copies mail into a folder or record.

The values of the dstId parameter should be a folder or record UUID.

When parameter newName value is null, mail will preserve the same name.

Only the security grants are copied to the destination, the metadata, keywords, etc. of the folder are not copied.

See "**extendedMailCopy**" method for this feature.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.mail.copyMail("e3831cc4-30f0-419a-8fbf-a3418472ada5", "ada67d44-b081-4b23-bdc1-74181cafbc5d", "I
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

extendedMailCopy

Description:

Method	Return values	Description
extendedMailCopy(String uuid, String dstId, boolean categories, boolean keywords, boolean propertyGroups, boolean notes, boolena security, String newName)	**Mail**	Copy mail width with associated data into a folder or record.

The values of the dstId parameter should be a folder or record UUID.

By default, only the binary data and the security grants, the metadata, keywords, etc. of the folder are not copied.

Additional:

- When the category parameter is true the original values of the categories will be copied.
- When the keywords parameter is true the original values of the keywords will be copied.
- When the propertyGroups parameter is true the original values of the metadata groups will be copied.
- When the notes parameter is true the original values of the notes will be copied.
- When the security parameter is true the original value of the security will be copied.
- When newName is set the mail name is renamed.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Mail;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Mail mail = ws.mail.extendedMailCopy("e3831cc4-30f0-419a-8fbf-a3418472ada5", "ada67d44-b081-4b23-bc
            System.out.println(mail);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getMailChildren

Description:

Method	Return values	Description
getMailChildren(String uuid)	**List<Mail>**	Returns a list of all mails which their parent is fldId.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Mail;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (Mail mail : ws.mail.getMailChildren("ada67d44-b081-4b23-bdc1-74181cafbc5d")) {
                System.out.println(mail);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

isValidMail

Description:

Method	Return values	Description
isValidMail(String uuid)	**Boolean**	Returns a boolean that indicates if the node is a mail or not.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            // Return false
            System.out.println(ws.mail.isValidMail("ada67d44-b081-4b23-bdc1-74181cafbc5d"));

            // Return true
            System.out.println(ws.mail.isValidMail("e3831cc4-30f0-419a-8fbf-a3418472ada5"));
        } catch (Exception e) {
```

```
            e.printStackTrace();
        }
    }
}
```

getMailPath

Description:

Method	Return values	Description
getMailPath(String uuid)	**String**	Converts mail UUID to mail path.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.mail.getMailPath("e3831cc4-30f0-419a-8fbf-a3418472ada5"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createAttachment

Description:

Method	Return values	Description
createAttachment(String uuid, String docName, InputStream is)	**Document**	Adds an attachement to the mail.

Example:

```
package com.openkm;

import java.io.FileInputStream;
```

```
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/openkm/logo.png");
            ws.mail.createAttachment("e3831cc4-30f0-419a-8fbf-a3418472ada5", "logo.png", is);
            IOUtils.closeQuietly(is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteAttachment

Description:

Method	Return values	Description
deleteAttachment(String uuid, String docId)	**void**	Delete a mail attachment.
The value of the parameter **docId** parameter can be a valid document **UUID**.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.mail.deleteAttachment("e3831cc4-30f0-419a-8fbf-a3418472ada5", "6dcb02dc-0881-4610-b2bc-a158ed7
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getAttachments

Description:

Method	Return values	Description
getAttachments(String uuid)	**List<Document>**	Retrieves a list of all the attachment documents of the mails.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Document;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (Document doc : ws.mail.getAttachments("e3831cc4-30f0-419a-8fbf-a3418472ada5")) {
                System.out.println(doc);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

sendMailWithAttachments

Description:

Method	Return values	Description
sendMailWithAttachments(List<String> to, List<String> cc, List<String> bcc, List<String> replyTo, String subject, String body, List<String> docsId, String uuid)	**void**	Send mail message with attachement.

The values of the uuid parameter should be a folder or record UUID. The uuid parameter indicate where the mail will be stored in the repository after is sent.

Other parameters:

- to are a list of mail accounts destination.
- subject is the mail subject.
- cc, bcc, replyTo is a list of mail accounts destination (optional)
- docsId is a list of valid document UUID already into OpenKM that will be sent as an attachment into mail (optional).

Example:

```
package com.openkm;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<String> to = Arrays.asList("gnu.java.sergio@mail.com");
            List<String> cc = new ArrayList<>();
            List<String> bcc = new ArrayList<>();
            List<String> replyTo = new ArrayList<>();
            List<String> docsId = Arrays.asList("46762f90-82c6-4886-8d21-ad3017dd78a7", "8cd1e072-8595-4dd3-b12
            ws.mail.sendMailWithAttachments(to, cc, bcc, replyTo, "some subject", "some body", docsId, "85f07f05-1641
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

sendMailWithAttachments

Description:

Method	Return values	Description
sendMailWithAttachments(String from, List<String> to, List<String> cc, List<String> bcc, List<String> replyTo, String subject, String body, List<String> docsId, String uuid)	**void**	Send mail message with attachement.

The values of the uuid parameter should be a folder or record UUID. The uuid parameter indicate where the mail will be

stored in the repository after is sent.

Other parameters:

- from is optional and maybe set with empty value
- to are a list of mail accounts destination.
- subject is the mail subject.
- cc, bcc, replyTo is a list of mail accounts destination (optional)
- docsId is a list of valid document UUID already into OpenKM that will be sent as an attachment into mail (optional).

Example:

```
package com.openkm;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            String from = "some@nomail.com";
            List<String> to = Arrays.asList("gnu.java.sergio@mail.com");
            List<String> cc = new ArrayList<>();
            List<String> bcc = new ArrayList<>();
            List<String> replyTo = new ArrayList<>();
            List<String> docsId = Arrays.asList("46762f90-82c6-4886-8d21-ad3017dd78a7", "8cd1e072-8595-4dd3-b12
            ws.mail.sendMailWithAttachments(from, to, cc, bcc, replyTo, "some subject", "some body", docsId, "85f07f05
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

importEml

Description:

Method	Return values	Description
importEml(String uuid, String title, InputStream is)	**Mail**	Import a mail in EML format.

The values of the **uuid** parameter should be a folder or record UUID. The **uuid** parameter indicates where the mail will be stored in the repository after is imported.

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Mail;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/openkm/test.eml");
            Mail mail = ws.mail.importEml("85f07f05-1641-47e8-891f-0ea30643554e", "some title", is);
            System.out.println(mail);
            IOUtils.closeQuietly(is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

importMsg

Description:

Method	Return values	Description
importMsg(String uuid, String title, InputStream is)	**Mail**	Import a mail in MSG format.

The values of the **uuid** parameter should be a folder or record UUID. The **uuid** parameter indicates where the mail will be stored in the repository after is sent.

Example:

```
package com.openkm;

import java.io.FileInputStream;
```

```
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Mail;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/openkm/test.msg");
            Mail mail = ws.mail.importMsg("85f07f05-1641-47e8-891f-0ea30643554e", "some title", is);
            System.out.println(mail);
            IOUtils.closeQuietly(is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setMailTitle

Description:

Method	Return values	Description
setMailTitle(String uuid, String title)	**void**	Sets the mail title.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.mail.setMailTitle("9d5dd110-db99-4d72-8cf7-610b027a4822", "new title");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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sendMail

Description:

Method	Return values	Description
sendMail(List<String> recipients, String subject, String body)	**void**	Sends a mail.

Example:

```
package com.openkm;

import java.util.ArrayList;
import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            StringBuffer body = new StringBuffer();
            body.append("Test message body.");
            List<String> recipients = new ArrayList<>();
            recipients.add("some@mail.com");
            ws.mail.sendMail(recipients, "Testing sending mail from OpenKM", body.toString());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

sendMail

Description:

Method	Return values	Description
sendMail(String from, List<String> recipients, String subject, String body)	**void**	Sends a mail.

Other parameters:

- from is optional and maybe set with empty value

Example:

```
package com.openkm;

import java.util.ArrayList;
import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            String from = "some@nomail.com";
            StringBuffer body = new StringBuffer();
            body.append("Test message body.");
            List<String> recipients = new ArrayList<>();
            recipients.add("some@mail.com");
            ws.mail.sendMail(to, recipients, "Testing sending mail from OpenKM", body.toString());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setMailDescription

Description:

Method	Return values	Description
setMailDescription(String uuid, String description)	**void**	Set the description.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Mail;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.mail.setMailDescription("b405a504-d8cb-4166-ac51-22f68acee8c5", "some description");
            Mail mail = ws.mail.getMailProperties("b405a504-d8cb-4166-ac51-22f68acee8c5");
            System.out.println("Description: " + mail.getDescription());
```

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```
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getMailContent

Description:

Method	Return values	Description
getMailContent(String mailId)	**InputStream**	Retrieve mail content - binary data - of the current mail version.

Example:

```
package com.openkm;

import java.io.FileOutputStream;
import java.io.InputStream;
import java.io.OutputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            OutputStream fos = new FileOutputStream("/home/openkm/test.eml");
            InputStream is = ws.mail.getMailContent("b405a504-d8cb-4166-ac51-22f68acee8c5");
            IOUtils.copy(is, fos);
            IOUtils.closeQuietly(is);
            IOUtils.closeQuietly(fos);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createWizardMail

Description:

Method	Return values	Description
createWizardMail(String uuid, String title, InputStream is,	**WizardNode**	Create a new document with a

String type)		wizard.

The parameters **uuid** should be any valid folder or record **UUID**.

Available types:

- Mail.ORIGIN_MSG
- Mail.ORIGIN_EML

The WizardNode contains a list of pending actions what should be done to complete the process of document creation. These might be:

- Add keyword
- Add Categories
- Add Metadata

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Mail;
import com.openkm.sdk4j.bean.WizardNode;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/openkm/sample2.eml");
            WizardNode wn = ws.mail.createWizardMail("4c195453-246b-4ce9-86ba-b84e68d1f284", "test title", is, Mail.
            System.out.print(wn);
            IOUtils.closeQuietly(is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getMailThumbnail

Description:

Method	Return values	Description
getMailThumbnail(String mailId, ThumbnailType type)	**InputStream**	Returns thumbnail image data.

Available types:

- ThumbnailType.THUMBNAIL_PROPERTIES (shown in properties view)
- ThumbnailType.THUMBNAIL_LIGHTBOX (shown in light box)
- ThumbnailType.THUMBNAIL_SEARCH (shown in search view)

Each thumbnail type has its own image dimensions.

Example:

```
package com.openkm;

import java.io.FileOutputStream;
import java.io.InputStream;
import java.io.OutputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.ThumbnailType;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            OutputStream fos = new FileOutputStream("/home/gnujavasergio/okm/thumbnail.png");
            InputStream is = ws.mail.getMailThumbnail("1778f0b5-672c-48c1-b54e-494c18dd6df4", ThumbnailType.THI
            IOUtils.copy(is, fos);
            IOUtils.closeQuietly(is);
            IOUtils.closeQuietly(fos);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getMailAccounts

Description:

Method	Return values	Description
getMailAccounts()	**List<MailAccount>**	Retrieves a list of user email accounts.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.MailAccount;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (MailAccount mailAccount : ws.mail.getMailAccounts()) {
                System.out.println(mailAccount);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getMailMessages

Description:

Method	Return values	Description
getMailMessages(long accountId, long start)	**MailServerMessages**	Retrieves a list of messages in the email server for an email account.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.ExternalMail;
import com.openkm.sdk4j.bean.MailServerMessages;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
```

```
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            long accoundId = 1;
            long start = 1;
            MailServerMessages msg = ws.mail.getMailMessages(accoundId, start);
            for (ExternalMail mail : msg.getServerMails()) {
                System.out.println(mail);
            }

        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

addMailAccount

Description:

Method	Return values	Description
addMailAccount(MailAccount mailAccount)	**void**	Add an email account.

It is a good practice to create an account, verify the mail configuration with the testMailAccount(MailAccount mail).

When you do **not set the user**, the account will be **added by default to the logged user**.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.MailAccount;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            MailAccount mailAcount = new MailAccount();
            mailAcount.setMailProtocol(MailAccount.PROTOCOL_IMAPS);
            mailAcount.setMailUser("test@none.com");
            mailAcount.setMailPassword("123456");
            mailAcount.setMailHost("imap.gmail.com");
            mailAcount.setMailFolder("OpenKM");
            mailAcount.setActive(true);
```

```
            mailAcount.setRecursive(true);
            ws.mail.addMailAccount(mailAcount);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

updateMailAccount

Description:

Method	Return values	Description
updateMailAccount(MailAccount mailAccount)	**void**	Update the main configuration data of an email account.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.MailAccount;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            MailAccount mailAcount = new MailAccount();
            mailAcount.setId(2);
            mailAcount.setMailProtocol(MailAccount.PROTOCOL_IMAPS);
            mailAcount.setMailUser("testupdate@none.com");
            mailAcount.setMailPassword("123456789");
            mailAcount.setMailHost("imap.gmail.com");
            mailAcount.setMailFolder("OpenKM");
            mailAcount.setActive(true);
            mailAcount.setRecursive(true);
            ws.mail.updateMailAccount(mailAcount);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

testMailAccount

Description:

Method	Return values	Description

testMailAccount(MailAccount mailAccount)	**void**	Check email account connection.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.MailAccount;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            MailAccount mailAcount = new MailAccount();
            mailAcount.setMailProtocol(MailAccount.PROTOCOL_IMAPS);
            mailAcount.setMailUser("testupdate@none.com");
            mailAcount.setMailPassword("123456789");
            mailAcount.setMailHost("imap.gmail.com");
            mailAcount.setMailFolder("OpenKM");
            mailAcount.setActive(true);
            mailAcount.setRecursive(true);

            // Test mail account
            ws.mail.testMailAccount(mailAcount);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteMailAccount

Description:

Method	Return values	Description
deleteMailAccount(long mailAccountId)	**void**	Delete email account.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
```

```
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            long mailAccountId = 2;
            ws.mail.deleteMailAccount(mailAccountId);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

importMailMessages

Description:

Method	Return values	Description
importMailMessages(long mailAccountId, List<Long> messageIds)	**void**	Import email account messages.

Example:

```
package com.openkm;

import java.util.ArrayList;
import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.ExternalMail;
import com.openkm.sdk4j.bean.MailServerMessages;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<Long> messageIds = new ArrayList<>();

            long mailAccountId = 1; // Valid mailAccountId
            long start = 1;
            MailServerMessages msg = ws.getMailMessages(mailAccountId, start);
            for (ExternalMail mail : msg.getServerMails()) {
                messageIds.add(mail.getUid());
            }

            ws.mail.importMailMessages(mailAccountId, messageIds);
        } catch (Exception e) {
            e.printStackTrace();
```

```
        }
    }
}
```

createMailFilter

Description:

Method	Return values	Description
createMailFilter(long mailAccountId, MailFilter mailFilter)	**void**	Add email account filter.

Example

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.MailFilter;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            long mailAccountId = 2; // Valid mailAccountId

            MailFilter filter = new MailFilter();
            filter.setOrder(0);
            filter.setGrouping(false);
            filter.setExclusive(true);
            filter.setActive(false);
            filter.setNode("a9d5c158-c7b1-4771-b9c3-b8d24f5a2645");

            ws.mail.createMailFilter(mailAccountId, filter);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

updateMailFilter

Description:

Method	Return values	Description
updateMailFilter(MailFilter mailFilter)	**void**	Update email account filter.

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Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.MailFilter;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);

            MailFilter filter = new MailFilter();
            filter.setId(2);  // Valid filter id
            filter.setOrder(0);
            filter.setGrouping(false);
            filter.setExclusive(true);
            filter.setActive(true);
            filter.setNode("a9d5c158-c7b1-4771-b9c3-b8d24f5a2645");

            ws.mail.updateMailFilter(filter);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteMailFilter

Description:

Method	Return values	Description
deleteMailFilter(long mailFilterId)	**void**	Delete email account filter.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
```

```
            ws.login(user, password);

            long filterId = 1; // Valid filter id
            ws.mail.deleteMailFilter(filterId);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createMailRule

Description:

Method	Return values	Description
createMailRule(long filterId, MailFilterRule rule)	**void**	Create email filter rule.

Mail account filter parameters:

- **Field**: Sets the mail field that will be evaluated by the rule.

Available options are:

- MailFilterRule.FIELD_FROM
- MailFilterRule.FIELD_TO
- MailFilterRule.FIELD_SUBJECT
- MailFilterRule.FIELD_CONTENT
- MailFilterRule.FIELD_ATTACHMENT

- **Operation:** Set the operation that will be done for the evaluation process.

Available options are:

- MailFilterRule.OPERATION_EQUALS
- MailFilterRule.OPERATION_NOT_EQUALS
- MailFilterRule.OPERATION_CONTAINS
- MailFilterRule.OPERATION_ENDS_WITH
- MailFilterRule.OPERATION_STARTS_WITH

- ***Value**: Sets the value that will be used for the evaluation process.*
- ***Active:** Sets rule enabled or not.*

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Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.MailFilterRule;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);

            long filterId = 2;// Valid filter id

            MailFilterRule rule = new MailFilterRule();
            rule.setOperation(MailFilterRule.OPERATION_CONTAINS);
            rule.setValue("test");
            rule.setField(MailFilterRule.FIELD_FROM);
            rule.setActive(false);

            ws.mail.createMailRule(filterId, rule);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

updateMailRule

Description:

Method	Return values	Description
updateMailRule(MailFilterRule rule)	**void**	Update email coount rule.

Mail account filter parameters:

- **Field**: Sets the mail field that will be evaluated by the rule.

Available options are:

- MailFilterRule.FIELD_FROM
- MailFilterRule.FIELD_TO
- MailFilterRule.FIELD_SUBJECT
- MailFilterRule.FIELD_CONTENT

- MailFilterRule.FIELD_ATTACHMENT

- **Operation:** Set the operation that will be done for the evaluation process.

Available options are:

- MailFilterRule.OPERATION_EQUALS
- MailFilterRule.OPERATION_NOT_EQUALS
- MailFilterRule.OPERATION_CONTAINS
- MailFilterRule.OPERATION_ENDS_WITH
- MailFilterRule.OPERATION_STARTS_WITH

- ***Value**: Sets the value that will be used for the evaluation process.*
- ***Active:** Sets rule enabled or not.*

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.MailFilterRule;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);

            MailFilterRule rule = new MailFilterRule();
            rule.setId(2);
            rule.setOperation(MailFilterRule.OPERATION_EQUALS);
            rule.setValue("test");
            rule.setField(MailFilterRule.FIELD_FROM);
            rule.setActive(false);

            ws.mail.updateMailRule(rule);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteMailRule

Description:

Method	Return values	Description
deleteMailRule(long ruleId)	**void**	Delete a rule of an email account.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);

            long ruleId = 1; // Valid rule id
            ws.mail.deleteMailRule(ruleId);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getMailFilterRules

Description:

Method	Return values	Description
getMailFilterRules(long filterId)	**List<MailFilterRule>**	Retrieve a list rules by filter.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.MailFilterRule;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

```
        try {
            ws.login(user, password);

            long filterId = 2; // Valid filter id
            for (MailFilterRule mailFilterRule : ws.mail.getMailFilterRules(filterId)) {
                System.out.println(mailFilterRule);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getPdf

Description:

Method	Return values	Description
getPdf(String uuid)	**InputStream**	Returns a PDF of the email.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Mail;
import com.openkm.sdk4j.impl.OKMWebservices;
import org.apache.commons.io.IOUtils;

import java.io.FileOutputStream;
import java.io.InputStream;
import java.io.OutputStream;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Mail mail = ws.mail.getMailProperties("4b88cbe9-e73d-45fc-bac0-35e0d6e59e43");
            InputStream is = ws.mail.getPdf(mail.getUuid());
            OutputStream fos = new FileOutputStream("/home/gnujavasergio/okm/" + mail.getSubject() + ".pdf");
            IOUtils.copy(is, fos);
            IOUtils.closeQuietly(is);
            IOUtils.closeQuietly(fos);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Node samples

Basics

Example of uuid:

- Using UUID -> "**373bcdd0-c082-4e7b-addd-e10ef813946e**";

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Node methods from "**node**" class as is shown below:

```
ws.node.getNodeByUuid("29a22996-0e3b-421e-8759-c24ea41c1ebb")
```

Methods

getNodeByUuid

Description:

Method	Return values	Description
getNodeByUuid(String uuid)	**Node**	Get a node by uuid.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Node;
import com.openkm.sdk4j.impl.OKMWebservices;
```

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```
public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Node node = ws.node.getNodeByUuid("29a22996-0e3b-421e-8759-c24ea41c1ebb");
            System.out.println(node);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getVersionHistory

Description:

Method	Return values	Description
getVersionHistory(String uuid)	**List<Version>**	Returns a list of the version history of a document.

Example:

```
package com.openkm;

import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Version;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<Version> versions = ws.node.getVersionHistory("3767deb4-21e7-4272-82be-fece5384fbab");
            for (Version version : versions) {
                System.out.println(version);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

restoreVersion

Description:

Method	Return values	Description
restoreVersion(String uuid, String versionName)	**void**	Restore a document to a specific version.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.node.restoreVersion("3767deb4-21e7-4272-82be-fece5384fbab", "1.2");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

renameVersion

Description:

Method	Return values	Description
renameVersion(String uuid, String versionName, String newName)	**void**	Rename a specific version.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
```

```
            ws.node.renameVersion("34e657ee-0c29-45d8-9c07-c09bbc22076c", "1.3","1.4");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteVersion

Description:

Method	Return values	Description
deleteVersion(String uuid, String versionName)	**void**	Delete a specific version.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.node.deleteVersion("5aab162d-df4f-4392-96c9-8fc1607e3903", "1.1");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

purgeVersionHistory

Description:

Method	Return values	Description
purgeVersionHistory(String uuid)	**void**	Purge version history of a document.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;
```

```
public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.node.purgeVersionHistory("3767deb4-21e7-4272-82be-fece5384fbab");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getChildrenNodesPaginated

Description:

Method	Return values	Description
getChildrenNodesPaginated(String uuid, int offset, int limit, String filter, String orderByField, boolean orderAsc, List<Integer> filteredTypes)	**SimpleNodeBaseList**	Get children nodes paginated.

Available filteredTypes values:

```
SimpleNodeBase.TYPE_FOLDER
SimpleNodeBase.TYPE_DOCUMENT
SimpleNodeBase.TYPE_MAIL
SimpleNodeBase.TYPE_RECORD
```

You should do:

```
List<Integer> filteredTypes = new ArrayList<>();
filteredTypes.add(SimpleNodeBase.TYPE_FOLDER);
filteredTypes.add(SimpleNodeBase.TYPE_DOCUMENT);
```

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example, if your query has 1000 results, but you only want to return the first 10, you should use these

values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.NodesPaginationInfo;
import com.openkm.sdk4j.bean.SimpleNodeBase;
import com.openkm.sdk4j.bean.SimpleNodeBaseList;
import com.openkm.sdk4j.impl.OKMWebservices;

import java.util.ArrayList;
import java.util.List;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<Integer> filteredTypes = new ArrayList<>();
            filteredTypes.add(SimpleNodeBase.TYPE_FOLDER);
            filteredTypes.add(SimpleNodeBase.TYPE_DOCUMENT);
            // Folder UUID or Record UUID
            String uuid = "39479efe-de5e-468e-91a7-24d2aa3f8837";
            SimpleNodeBaseList listNode = ws.node.getChildrenNodesPaginated(uuid, 0, 10, "", NodesPaginationInfo.C
                    filteredTypes);
            System.out.println("Filtered Elements: " + listNode.getFilteredElements());
            System.out.println("Total Elements: " + listNode.getTotalElements());
            for (SimpleNodeBase simpleNodeBase : listNode.getNodes()) {
                System.out.println(simpleNodeBase.getPath());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getChildrenNodesByCategoryPaginated

Description:

Method	Return values	Description

getChildrenNodesByCategoryPaginated(String uuid, int offset, int limit, String filter, String orderByField, boolean orderAsc, List<Integer> filteredTypes)	**SimpleNodeBaseList**	Get children nodes by category paginated.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example, if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.NodesPaginationInfo;
import com.openkm.sdk4j.bean.SimpleNodeBase;
import com.openkm.sdk4j.bean.SimpleNodeBaseList;
import com.openkm.sdk4j.impl.OKMWebservices;

import java.util.ArrayList;
import java.util.List;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<Integer> filteredTypes = new ArrayList<>();
            filteredTypes.add(1);
```

```
            // Folder UUID or Record UUID
            String uuid = "39479efe-de5e-468e-91a7-24d2aa3f8837";
            SimpleNodeBaseList listNode = ws.node.getChildrenNodesByCategoryPaginated(uuid, 0, 10, "", NodesPagi
                  filteredTypes);
            System.out.println("Filtered Elements: " + listNode.getFilteredElements());
            System.out.println("Total Elements: " + listNode.getTotalElements());
            for (SimpleNodeBase simpleNodeBase : listNode.getNodes()) {
               System.out.println(simpleNodeBase.getPath());
            }
         } catch (Exception e) {
            e.printStackTrace();
         }
      }
   }
```

getBreadcrumb

Description:

Method	Return values	Description
getBreadcrumb(String uuid)	**List<BreadCrumbItem>**	Get breadcrumb.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.BreadCrumbItem;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

   public static void main(String[] args) {
      String host = "http://localhost:8080/openkm";
      String user = "okmAdmin";
      String password = "admin";
      OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

      try {
         ws.login(user, password);
         List<BreadCrumbItem> list = ws.node.getBreadcrumb("39479efe-de5e-468e-91a7-24d2aa3f8837");
         for (BreadCrumbItem item : list) {
            System.out.println(item.getPath());
         }
      } catch (Exception e) {
         e.printStackTrace();
      }
   }
}
```

subscribe

Description:

Method	Return values	Description

subscribe(String uuid)	**void**	Adds a subscription to a node.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.node.subscribe("39479efe-de5e-468e-91a7-24d2aa3f8837");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

unsubscribe

Description:

Method	Return values	Description
unsubscribe(String uuid)	**void**	Delete a subscription to a node.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.node.unsubscribe("39479efe-de5e-468e-91a7-24d2aa3f8837");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

importZip

Description:

Method	Return values	Description
importZip(String uuid, InputStream is)	**void**	Import a zip file.

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/gnujavasergio/okm/import.zip");
            ws.node.importZip("212e7c1f-443d-4aac-a12c-0b818ca03419", is);
            IOUtils.closeQuietly(is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

unZip

Description:

Method	Return values	Description
unZip(String uuid, String dstId)	**void**	Unzip file.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
```

```
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            String uuid = "82555dd1-bcc2-4e64-81cb-5f7c2b0d7801"; // zip File
            String dstId = "70ec54af-76ad-4d02-b9c8-8c94c3b6ffc7"; // destination uuid
            ws.node.unZip(uuid, dstId);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

exportZip

Description:

Method	Return values	Description
exportZip(List<String> uuids, boolean withPath, boolean background)	**InputStream**	Export as a zip file.

Example:

```
package com.openkm;

import java.io.FileOutputStream;
import java.io.InputStream;
import java.io.OutputStream;
import java.util.ArrayList;
import java.util.List;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<String> uuids = new ArrayList<>();
            uuids.add("0f6463f3-4d36-4091-b518-4fe7c353ee70");
            uuids.add("d386cff8-1d4d-472f-9c6d-f21955ec499a");

            OutputStream fos = new FileOutputStream("/home/openkm/export.zip");
```

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```
            InputStream is = ws.node.exportZip(uuids, true, true);
            IOUtils.copy(is, fos);
            IOUtils.closeQuietly(is);
            IOUtils.closeQuietly(fos);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getNodesFiltered

Description:

Method	Return values	Description
getNodesFiltered(List<String> uuids)	**List<Node>**	Return a list of nodes.

Example:

```
package com.openkm;

import java.util.ArrayList;
import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Node;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<String> uuids = new ArrayList<>();
            uuids.add("0f6463f3-4d36-4091-b518-4fe7c353ee70");
            uuids.add("d386cff8-1d4d-472f-9c6d-f21955ec499a");

            List<Node> nodes = ws.node.getNodesFiltered(uuids);
            for (Node node : nodes) {
                System.out.println(node);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

evaluateDownloadZip

Description:

Method	Return values	Description
evaluateDownloadZip(List<String> uuids)	**ZipDownloadEvaluationResult**	Return a ZipDownloadEvaluationResult object.

Example:

```
package com.openkm;

import java.util.ArrayList;
import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.ZipDownloadEvaluationResult;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<String> uuids = new ArrayList<>();
            uuids.add("0f6463f3-4d36-4091-b518-4fe7c353ee70");
            uuids.add("d386cff8-1d4d-472f-9c6d-f21955ec499a");

            ZipDownloadEvaluationResult result = ws.node.evaluateDownloadZip(uuids);
            System.out.println(result);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

restore

Description:

Method	Return values	Description
restore(String uuid)	**Node**	Restore a node

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Node;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {
```

```
    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Node node = ws.node.restore("0f6463f3-4d36-4091-b518-4fe7c353ee70");
            System.out.println(node);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

hasNodesLockedByOtherUser

Description:

Method	Return values	Description
hasNodesLockedByOtherUser(String uuid)	**booelan**	If the node is blocked by other users

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            if(ws.node.hasNodesLockedByOtherUser("0f6463f3-4d36-4091-b518-4fe7c353ee70")) {
             System.out.println("Is blocked");
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

lock

Description:

Method	Return values	Description

lock(String uuid)	**LockInfo**	Locks a node and returns an object with the Lock information.

Only the user who locked the node is allowed to unlock.

A locked node cannot be modified by other users.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.node.lock("1ec49da9-1746-4875-ae32-9281d7303a62");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

forceLock

Description:

Method	Return values	Description
forceLock(String uuid)	**LockInfo**	Locks a node and returns an object with the Lock information.

This method allows to lock any node.

This action can only be done by a super user (user with ROLE_ADMIN).

In case exist a previous lock it will be replaced by a new one. When parent is locked you must apply the lock from parent.

Example:

```
package com.openkm;
```

```
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.LockInfo;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            LockInfo lockInfo = ws.node.forceLock("1ec49da9-1746-4875-ae32-9281d7303a62");
            System.out.println("Author:" + lockInfo.getOwner());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

unlock

Description:

Method	Return values	Description
unlock(String uuid)	**void**	Unlocks a locked node.

Only the user who locked the node is allowed to unlock.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.node.unlock("1ec49da9-1746-4875-ae32-9281d7303a62");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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forceUnlock

Description:

Method	Return values	Description
forceUnlock(String uuid)	**void**	Unlocks a locked node.

This method allows to unlock any locked node.

It is not mandatory execute this action by the same user who previously executed the checkout lock action.

This action can only be done by a super user (user with ROLE_ADMIN).

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.node.forceUnlock("1ec49da9-1746-4875-ae32-9281d7303a62");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

isLocked

Description:

Method	Return values	Description
isLocked(String uuid)	**Boolean**	Returns a boolean that indicates if the node is locked or not.

Example:

```
package com.openkm;
```

```
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println("Is node locked:" + ws.node.isLocked("1ec49da9-1746-4875-ae32-9281d7303a62"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getLockInfo

Description:

Method	Return values	Description
getLockInfo(String uuid)	**LockInfo**	Returns an object with the Lock information

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.node.getLockInfo("1ec49da9-1746-4875-ae32-9281d7303a62"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setComment

Description:

Method	Return values	Description
setComment(String uuid, String versionName, String comment)	**void**	Sets the comment for a specific node version.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.node.setComment("1ec49da9-1746-4875-ae32-9281d7303a62", "1.14", "Update comment");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Note samples

Basics

Example of uuid:

- Using UUID -> "**373bcdd0-c082-4e7b-addd-e10ef813946e**";

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Note methods from " **note**" class as is shown below:

```
ws.note.addNote("373bcdd0-c082-4e7b-addd-e10ef813946e", "the note text");
```

Methods

addNote

Description:

Method	Return values	Description
addNote(String uuid, String text)	**Note**	Adds a note to a node and returns an object Note.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservices;
import com.openkm.sdk4j.OKMWebservicesFactory;
```

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```
public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.note.addNote("373bcdd0-c082-4e7b-addd-e10ef813946e", "the note text");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getNote

Description:

Method	Return values	Description
getNote(String noteId)	**Note**	Retrieves the note.

> The noteId is an UUID.
>
> The object Node has a variable named path, in that case the path contains an UUID.

Example:

```
package com.openkm;

import java.util.List;

import com.openkm.sdk4j.OKMWebservices;
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Note;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<Note> notes = ws.note.listNotes("373bcdd0-c082-4e7b-addd-e10ef813946e");
            if (notes.size() > 0) {
                System.out.println(ws.getNote(notes.get(0).getPath()));
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
```

```
}
```

deleteNote

Description:

Method	Return values	Description
deleteNote(String noteId)	**Note**	Delete a note.

> The noteId is an UUID.
>
> The object Node has a variable named path, in that case the path contains an UUID.

Example:

```
package com.openkm;

import java.util.List;

import com.openkm.sdk4j.OKMWebservices;
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Note;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<Note> notes = ws.note.listNotes("373bcdd0-c082-4e7b-addd-e10ef813946e");
            if (notes.size() > 0) {
                ws.note.deleteNote(notes.get(0).getPath());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setNote

Description:

Method	Return values	Description
setNote(String noteId, String text)	**void**	Changes the note text.

The noteId is an UUID.

The object Node has a variable named path, in that case the path contains an UUID.

Example:

```
package com.openkm;

import java.util.List;

import com.openkm.sdk4j.OKMWebservices;
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Note;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<Note> notes = ws.note.listNotes("373bcdd0-c082-4e7b-addd-e10ef813946e");
            if (notes.size() > 0) {
                ws.note.setNote(notes.get(0).getPath(), "text modified");
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

listNotes

Description:

Method	Return values	Description
listNotes(String uuid)	**List<Note>**	Retrieves a list of all the notes of a node.

Example:

```
package com.openkm;

import java.util.List;

import com.openkm.sdk4j.OKMWebservices;
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Note;

public class Test {

    public static void main(String[] args) {
```

```
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<Note> notes = ws.note.listNotes("373bcdd0-c082-4e7b-addd-e10ef813946e");
            for (Note note : notes) {
                System.out.println(note);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getNotesHistory

Description:

Method	Return values	Description
getNotesHistory(String uuid)	**List<NoteHistory>**	Return the historical notes of a node.

Example:

```
package com.openkm;

import java.util.List;

import com.openkm.sdk4j.OKMWebservices;
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.NoteHistory;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<NoteHistory> list = ws.note.getNotesHistory("3c68b3a1-c65c-4b1e-84b5-9ce2712ca573");
            for (NoteHistory noteHistory : list) {
                System.out.println(noteHistory);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Notification samples

Basics

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Notification methods from " **notification**" class as is shown below:

```
ws.notification.notify(uuids, users, roles, mails, message, false);
```

Methods

notify

Description:

Method	Return values	Description
notify(List<String> uuids, List<String> users, List<String> roles, List<String> mails, String message, boolean attachment)	**void**	Send a mail notification.

The parameter uuids are the UUID of the node (document, folder, mail or record).

The parameter users are a set of OpenKM users to be notified.

The parameter roles are a set of OpenKM roles to be notified.

The parameter mails are a set of email addresses - usually external mails - to be notified.

The parameter message is the content body of the mail.

When attachment value is true the node is attached into the mail.

Example:

```
package com.openkm;

import java.util.ArrayList;
import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<String> uuids = new ArrayList<>();
            uuids.add("b153c4b7-3d1c-4589-bd42-0ed0f34fd338");

            List<String> users = new ArrayList<>();
            users.add("test");
            users.add("sochoa");

            List<String> roles = new ArrayList<>();
            roles.add("ROLE_TEST");

            List<String> mails = new ArrayList<>();
            String message = "Body of the message";
            ws.notification.notify(uuids, users, roles, mails, message, false);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Property samples

Basics

The value of this parameter can be a valid document, folder, mail or record **UUID**.

Example of nodeId:

- Using UUID -> "**f123a950-0329-4d62-8328-0ff500fd42db**";

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Repository methods from " **repository**" class as is shown below:

```
ws.property.addCategory("eee9d70f-6af9-4783-82a7-b8ac94c234b6", "58c9b25f-d83e-4006-bd78-e26d7c6fb648");
```

Methods

addCategory

Description:

Method	Return values	Description
addCategory(String uuid, String catId)	**void**	Set a relation between a category and a node.
The value of the catId parameter should be a category folder UUID.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.property.addCategory("eee9d70f-6af9-4783-82a7-b8ac94c234b6", "58c9b25f-d83e-4006-bd78-e26d7c6f
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

removeCategory

Description:

Method	Return values	Description
removeCategory(String uuid, String catId)	**void**	Removes a relation between a category and a node.
The value of the catId parameter should be a category folder UUID.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.property.removeCategory("eee9d70f-6af9-4783-82a7-b8ac94c234b6", "58c9b25f-d83e-4006-bd78-e26d7
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

addKeyword

Description:

Method	Return values	Description
addKeyword(String uuid, String keyword)	**void**	Add a keyword in a node.

The keyword should be a single word without spaces, formats allowed:

- "test"
- "two_words" (the character "_" is used for the junction).

We also we suggest you to add keyword in lowercase format, because OpenKM is case sensitive.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.property.addKeyword("eee9d70f-6af9-4783-82a7-b8ac94c234b6", "test");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

removeKeyword

Description:

Method	Return values	Description
removeKeyword(String uuid, String keyword)	**void**	Removes a keyword from a node.

Example:

```
package com.openkm;
```

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```
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.property.removeKeyword("eee9d70f-6af9-4783-82a7-b8ac94c234b6", "test");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setSigned

Description:

Method	Return values	Description
setSigned(String uuid, boolean signed)	**void**	Marks a document as signed or unsigned binary data into the repository.

The parameter **uuid** should be a document node.

This method does not perform any kind of digital signature process, simply mark into the database that a document is signed.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.property.setSigned("eee9d70f-6af9-4783-82a7-b8ac94c234b6", true);
        } catch (Exception e) {
```

```
            e.printStackTrace();
        }
    }
}
```

isSigned

Description:

Method	Return values	Description
isSigned(String uuid)	**boolean**	Returns a boolean that indicates if the document is signed or not.
The parameter **uuid** should be a document node.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);

            System.out.println("Is the document signed: " + ws.property.isSigned("6330d2a0-529f-4c14-baa1-ce6a9200
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

PropertyGroup samples

Basics

From the older OpenKM version we named "**Metadata Groups**" as "**Property Groups**".

Although we understand this name does not help a lot to identify these methods with metadata ones, for historical reason, we continue maintaining the nomenclature.

For more information about Metadata.

The class com.openkm.sdk4j.util.ISO8601 should be used to set and parse metadata date fields. The metadata field of type date values is stored in the application in ISO-8601 basic format.

To convert the retrieved metadata field of type date to a valid date use:

```
Calendar cal = ISO8601.parseBasic(metadataFieldValue);
```

To save the date value in the metadata field of type date use:

```
Calendar cal = Calendar.getInstance(); // Present date
String metadataFieldValue = ISO8601.formatBasic(cal);
// metadataFieldValue can be saved into repository metadata field of type date
```

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API methods.

At this point you can use all the Property Group methods from "**propertyGroup**" class as is shown below:

```
ws.propertyGroup.addPropertyGroup("8cd1e072-8595-4dd3-b121-41d622c43f08", "okg:consulting", propertiesMap)
```

Methods

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addPropertyGroup

Description:

Method	Return values	Description
addPropertyGroup(String uuid, String grpName, Map<String, String> propertiesMap)	**void**	Adds an empty metadata group to a node.

The grpName should be a valid Metadata group name.

It is not mandatory to set in the propertiesMap parameter all fields values, is enough with the fields you wish to change its values.

The sample below is based on this Metadata group definition:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE property-groups PUBLIC "-//OpenKM//DTD Property Groups 2.0//EN"
                                 "http://www.openkm.com/dtd/property-groups-2.0.dtd">
<property-groups>
  <property-group label="Technology" name="okg:technology">
    <select label="Type" name="okp:technology.type" type="multiple">
      <option label="Alfa" value="t1"/>
      <option label="Beta" value="t2" />
      <option label="Omega" value="t3" />
    </select>
    <select label="Language" name="okp:technology.language" type="simple">
      <option label="Java" value="java"/>
      <option label="Python" value="python"/>
      <option label="PHP" value="php" />
    </select>
    <input label="Date" name="okp:technology.date" type="date" />
    <input label="Comment" name="okp:technology.comment"/>
    <textarea label="Description" name="okp:technology.description"/>
    <checkbox label="Important" name="okp:technology.important"/>
    <input label="Link" type="link" name="okp:technology.link"/>
  </property-group>
</property-groups>
```

To add several values on a metadata field of type multiple like this:

```
<select label="Type" name="okp:technology.type" type="multiple">
  <option label="Alfa" value="t1"/>
  <option label="Beto" value="t2"/>
  <option label="Omega" value="t3" />
</select>
```

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You should do:

```
properties.put("okp:technology.type", "[\"t1\", \"t2\"]");
```

Where \"**t1**\" and \"**t2**\" are valid values and character "**,**" is used as separator.

Another option:

```
Gson gson = new Gson();
List<String> values = new ArrayList<>();
values.add("t1");
values.add("t2");
properties.put("okp:technology.type", gson.toJson(values));
```

Example:

```
package com.openkm;

import java.util.Calendar;
import java.util.HashMap;
import java.util.Map;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;
import com.openkm.sdk4j.util.ISO8601;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Map<String, String> properties = new HashMap<>();
            properties.put("okp:technology.type", "[ \"t1\", \"t2\" ]");
            Calendar cal = Calendar.getInstance();
            // Value must be converted to String ISO 8601 compliant
            properties.put("okp:technology.date", ISO8601.formatBasic(cal));
            properties.put("okp:technology.comment", "comment sample");
            properties.put("okp:technology.description", "description sample");
            properties.put("okp:technology.language", "[ \"java\" ]");
            properties.put("okp:technology.important", String.valueOf(true));
            ws.propertyGroup.addPropertyGroup("4a3b1c1b-c880-45a3-a6ff-2c8b7c5adfa5", "okg:technology", propertie
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

removePropertyGroup

Description:

Method	Return values	Description
removePropertyGroup(String uuid, String grpName)	**void**	Removes a metadata group of a node.
The grpName should be a valid Metadata group name.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.propertyGroup.removePropertyGroup("8cd1e072-8595-4dd3-b121-41d622c43f08", "okg:consulting");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getPropertyGroups

Description:

Method	Return values	Description
getPropertyGroups(String uuid)	**List<PropertyGroup>**	Retrieves a list of metadata groups assigned to a node.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.PropertyGroup;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

```
        try {
            ws.login(user, password);
            for (PropertyGroup pGroup : ws.propertyGroup.getPropertyGroups("8cd1e072-8595-4dd3-b121-41d622c43f
                System.out.println(pGroup);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getAllPropertyGroups

Description:

Method	Return values	Description
getAllPropertyGroups()	**List<PropertyGroup>**	Retrieves a list of all metadata groups set into the application.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.PropertyGroup;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (PropertyGroup pGroup : ws.propertyGroup.getAllPropertyGroups()) {
                System.out.println(pGroup);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getPropertyGroupFormDefinition

Description:

Method	Return values	Description
getPropertyGroupFormDefinition(String grpName)	**List<FormElement>**	Retrieves a list of all metadata group elements definition.

The grpName should be a valid Metadata group name.

The method is usually used to display empty form elements for creating new metadata values.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.form.FormElement;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (FormElement fElement : ws.propertyGroup.getPropertyGroupFormDefinition("okg:consulting")) {
                System.out.println(fElement);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getPropertyGroupFormDefinition

Description:

Method	Return values	Description
getPropertyGroupFormDefinition(String grpName, String uuid)	**List<FormElement>**	Retrieves a list of all metadata group elements definition.

The grpName should be a valid Metadata group name.

The method is usually used to display empty form elements for creating new metadata values.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.form.FormElement;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (FormElement fElement : ws.propertyGroup.getPropertyGroupFormDefinition("okg:consulting", "8cd1e07
                System.out.println(fElement);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getPropertyGroupForm

Description:

Method	Return values	Description
getPropertyGroupForm(String uuid, String grpName)	**List<FormElement>**	Retrieves a list of metadata values of a node.
The grpName should be a valid Metadata group name.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.form.FormElement;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (FormElement fElement : ws.propertyGroup.getPropertyGroupForm("8cd1e072-8595-4dd3-b121-41d622
                System.out.println(fElement);
```

```
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setPropertyGroupProperties

Description:

Method	Return values	Description
setPropertyGroupProperties(String uuid, String grpName, Map<String, String> properties)	**void**	Changes the metadata group values of a node.

The grpName should be a valid Metadata group name.

Before changing metadata, you **should have the group added in the node** (see addGroup method) otherwise will be raised and error.

It is not mandatory to set in the properties parameterMap all fields values, is enough with the fields you wish to change its values.

The sample below is based on this Metadata group definition:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE property-groups PUBLIC "-//OpenKM//DTD Property Groups 2.0//EN"
                                 "http://www.openkm.com/dtd/property-groups-2.0.dtd">
<property-groups>
  <property-group label="Technology" name="okg:technology">
    <select label="Type" name="okp:technology.type" type="multiple">
      <option label="Alfa" value="t1"/>
      <option label="Beta" value="t2" />
      <option label="Omega" value="t3" />
    </select>
    <select label="Language" name="okp:technology.language" type="simple">
      <option label="Java" value="java"/>
      <option label="Python" value="python"/>
      <option label="PHP" value="php" />
    </select>
    <input label="Date" name="okp:technology.date" type="date" />
    <input label="Comment" name="okp:technology.comment"/>
    <textarea label="Description" name="okp:technology.description"/>
    <checkbox label="Important" name="okp:technology.important"/>
    <input label="Link" type="link" name="okp:technology.link"/>
  </property-group>
</property-groups>
```

To add several values on a metadata field of type multiple like this:

```
<select label="Type" name="okp:technology.type" type="multiple">
  <option label="Alfa" value="t1"/>
  <option label="Beto" value="t2"/>
  <option label="Omega" value="t3" />
</select>
```

You should do:

```
properties.put("okp:technology.type", "[\"t1\", \"t2\"]");
```

Where \"**one**\" and \"**two**\" are valid values and character "**,**" is used as separator.

Another option:

```
Gson gson = new Gson();
List<String> values = new ArrayList<>();
values.add("t1");
values.add("t2");
properties.put("okp:technology.type", gson.toJson(values));
```

Example:

```
package com.openkm;

import java.util.Calendar;
import java.util.HashMap;
import java.util.Map;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;
import com.openkm.sdk4j.util.ISO8601;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Map<String, String> properties = new HashMap<>();
            properties.put("okp:technology.type", "[ \"t1\", \"t2\" ]");
            Calendar cal = Calendar.getInstance();
            // Value must be converted to String ISO 8601 compliant
            properties.put("okp:technology.date", ISO8601.formatBasic(cal));
            properties.put("okp:technology.comment", "comment sample");
            properties.put("okp:technology.description", "description sample");
            properties.put("okp:technology.language", "[ \"java\" ]");
            properties.put("okp:technology.important", String.valueOf(true));
            ws.propertyGroup.setPropertyGroupProperties("8cd1e072-8595-4dd3-b121-41d622c43f08", "okg:consulting
        } catch (Exception e) {
            e.printStackTrace();
```

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```
        }
    }
}
```

hasPropertyGroup

Description:

Method	Return values	Description
hasPropertyGroup(String uuid, String grpName)	**Boolean**	Returns a boolean that indicate if the node has or not a metadata group.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println("Have metadata group:" + ws.propertyGroup.hasPropertyGroup("8cd1e072-8595-4dd3-b
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getRegisteredPropertyGroupDefinition

Description:

Method	Return values	Description
getRegisteredPropertyGroupDefinition()	**String**	Returns the XML Metada groups definition.

The method only can be executed by super user granted (ROLE_ADMIN member user).

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.propertyGroup.getRegisteredPropertyGroupDefinition());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

registerPropertyGroupDefinition

Description:

Method	Return values	Description
registerPropertyGroupDefinition(InputStream is, String name)	**void**	Set the XML Metada groups definition into the repository.

The method only can be executed by super user granted (ROLE_ADMIN member user).

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
```

```
            InputStream is = new FileInputStream("/home/openkm/PropertyGroups.xml");
            ws.propertyGroup.registerPropertyGroupDefinition(is, "test");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getPropertyGroupSuggestions

Description:

Method	Return values	Description
getPropertyGroupSuggestions(String uuid, String grpName, String propName)	**List<String>**	Retrieves a list of a suggested metadata field values.

The propName parameter should be a Metadata Select field type.

More information at Creating your own Suggestion Analyzer and Metadata Select field.

The sample below is based on this Metadata group definition:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE property-groups PUBLIC "-//OpenKM//DTD Property Groups 2.0//EN"
                                 "http://www.openkm.com/dtd/property-groups-2.0.dtd">
<property-groups>
  <property-group label="Technology" name="okg:technology">
    <select label="Type" name="okp:technology.type" type="multiple">
      <option label="Alfa" value="t1"/>
      <option label="Beta" value="t2" />
      <option label="Omega" value="t3" />
    </select>
    <select label="Language" name="okp:technology.language" type="simple">
      <option label="Java" value="java"/>
      <option label="Python" value="python"/>
      <option label="PHP" value="php" />
    </select>
    <input label="Comment" name="okp:technology.comment"/>
    <textarea label="Description" name="okp:technology.description"/>
    <input label="Link" type="link" name="okp:technology.link"/>
  </property-group>
</property-groups>
```

Example:

```
package com.openkm;
```

```
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (String value : ws.propertyGroup.getPropertyGroupSuggestions("8cd1e072-8595-4dd3-b121-41d622c43f
                System.out.println(value);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getPropertyGroupProperties

Description:

Method	Return values	Description
getPropertyGroupProperties(String uuid, String grpName)	**Map<String, String>**	Retrieves a map - (key,value) pairs - with Metada group values of a node.

Example:

```
package com.openkm;

import java.util.HashMap;
import java.util.Map;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Map<String, String> properties = new HashMap<>();
            properties = ws.propertyGroup.getPropertyGroupProperties("8cd1e072-8595-4dd3-b121-41d622c43f08", "ok

            for (String key : properties.keySet()) {
                System.out.println(key + " > " + properties.get(key));
            }
        } catch (Exception e) {
            e.printStackTrace();
```

```
        }
    }
}
```

getPropertyGroupsByVersion

Description:

Method	Return values	Description
getPropertyGroupsByVersion(String uuid, String versionName)	**List<PropertyGroup>**	Retrieves a list of metadata groups assigned to a specific version of a node.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.PropertyGroup;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (PropertyGroup pGroup : ws.propertyGroup.getPropertyGroupsByVersion("118cb06b-9df7-4d59-bed9-ba
                System.out.println(pGroup);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getPropertyGroupPropertiesByVersion

Description:

Method	Return values	Description
getPropertyGroupPropertiesByVersion(String uuid, String grpName, String versionName)	**Map<String, String>**	Retrieves a map - (key,value) pairs - with Metadata group values assigned to a specific version of a node.

Example:

```
package com.openkm;

import java.util.HashMap;
import java.util.Map;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Map<String, String> properties = new HashMap<>();
            properties = ws.propertyGroup.getPropertyGroupPropertiesByVersion("118cb06b-9df7-4d59-bed9-ba986a4f

            for (String key : properties.keySet()) {
                System.out.println(key + " > " + properties.get(key));
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getPropertyGroupByVersionForm

Description:

Method	Return values	Description
getPropertyGroupByVersionForm(String uuid, String grpName, String versionName)	**List<FormElement>**	Retrieves a list of all metadata group elements definition for a specific version of a node.

The grpName should be a valid Metadata group name.

The method is usually used to display empty form elements for updating new metadata values.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.form.FormElement;
import com.openkm.sdk4j.impl.OKMWebservices;
```

```
public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (FormElement fElement : ws.propertyGroup.getPropertyGroupByVersionForm("118cb06b-9df7-4d59-bed
                System.out.println(fElement);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getPropertyGroup

Description:

Method	Return values	Description
getPropertyGroup(String grpName)	**PropertyGroup**	Retrieve the metadata group

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.propertyGroup.getPropertyGroup("okg:consulting"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getSuggestBoxKeyValue

Description:

	Return

Method	values	Description
getSuggestBoxKeyValue(String grpName, String propertyName, String key)	**String**	Returns the suggestBox value for key.

The propertyName parameter should be a Metadata Suggestbox field type.

More information at Metadata Suggestbox field

The sample below is based on this Metadata group definition:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE property-groups PUBLIC "-//OpenKM//DTD Property Groups 3.7//EN"
                                 "http://www.openkm.com/dtd/property-groups-3.7.dtd">
<property-groups>
  <property-group label="Consulting" name="okg:consulting">
     <suggestbox label="country" name="okp:consulting.suggestbox"
     width="200px" dialogTitle="Choose country" filterMinLen="3"
       filterQuery="select ct_id, ct_name from country where ct_name like '%{0}%' order by ct_name"
       valueQuery="select ct_id, ct_name from country where ct_id='{0}'" />
  </property-group>
</property-groups>
```

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.propertyGroup.getPropertyGroup("okg:consulting"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getSuggestBoxKeyValuesFiltered

Description:

Method	Return values	Description
getSuggestBoxKeyValuesFiltered(String grpName, String propertyName, String filter)	**Map<String, String>**	Retrieves a map - (key, value) pairs - wit suggestBox values

The propertyName parameter should be a Metadata Suggestbox field type.

More information at Metadata Suggestbox field

The sample below is based on this Metadata group definition:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE property-groups PUBLIC "-//OpenKM//DTD Property Groups 3.7//EN"
                                 "http://www.openkm.com/dtd/property-groups-3.7.dtd">
<property-groups>
  <property-group label="Consulting" name="okg:consulting">
    <suggestbox label="country" name="okp:consulting.suggestbox"
    width="200px" dialogTitle="Choose country" filterMinLen="3"
      filterQuery="select ct_id, ct_name from country where ct_name like '%{0}%' order by ct_name"
      valueQuery="select ct_id, ct_name from country where ct_id='{0}'" />
  </property-group>
</property-groups>
```

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

import java.util.Map;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Map<String, String> values = ws.propertyGroup.getSuggestBoxKeyValuesFiltered(Config.GROUP_CONSUL
            for (String key : values.keySet()) {
                String value = values.get(key);
                System.out.println(key + ":" + value);
            }
```

```
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

validateField

Method	Return values	
validateField(String value, String className, List<String> uuids)	**String**	Ret

- The "className" value must be the canonical class name of a class which implements FieldValidator interf

Example of the Form validator implementation

More information at Creating your own Form Validator plugin.

In this example it will not be allowed two equal comments in the metadata field named okp:tecnology.comment

```
package com.openkm.plugin.form.validator;

import java.util.ArrayList;
import java.util.List;

import com.openkm.module.db.stuff.DbSessionManager;
import com.openkm.plugin.form.FieldValidator;
import org.springframework.beans.factory.annotation.Autowired;

import com.openkm.api.OKMRelation;
import com.openkm.bean.Relation;
import com.openkm.db.service.LegacySrv;
import com.openkm.plugin.BasePlugin;

import net.xeoh.plugins.base.annotations.PluginImplementation;

@PluginImplementation
public class DuplicateDocumentNumberValidator extends BasePlugin implements FieldValidator {

    @Autowired
    private LegacySrv legacySrv;

    @Autowired
    private OKMRelation okmRelation;

    @Override
    public String getName() {
        return "Duplicated document number";
    }

    @Override
    public String validate(String value, List<String> uuids) {
        String validate = "";

        String token = DbSessionManager.getInstance().getSystemToken();
        String sql = "SELECT RGT_UUID FROM OKM_PGRP_CUR_TECHNOLOGY WHERE RGT_PR
        try {
```

```
                List<List<String>> result = legacySrv.executeSQL(sql);
                if (result.size() > 0) {
                    if (uuids.isEmpty()) {
                        validate = "Duplicated document number";
                    } else {
                        List<String> allowedUuids = new ArrayList<>();
                        for (String uuid : uuids) {
                            allowedUuids.add(uuid);
                            List<Relation> relations = okmRelation.getRelations(token, uuid);
                            for (Relation relation : relations) {
                                allowedUuids.add(relation.getNode());
                            }
                        }

                        for (List<String> resultList : result) {
                            if (!allowedUuids.contains(resultList.get(0))) {
                                validate = "Duplicated document number";
                            }
                        }
                    }
                }
            } catch (Exception e) {
                validate = e.getMessage();
            }

            return validate;
        }
    }
```

Example

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

import java.util.ArrayList;
import java.util.List;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<String> uuids = new ArrayList<>();
            uuids.add("26ece92f-9708-4d3f-8033-18dc98b9e7f5");
            uuids.add("7984b622-7c5f-425a-9451-7611c0caf227");

            String value = "test";
            String className = "com.openkm.plugin.form.validator.DuplicateDocumentNumberValidator";
            String message = ws.propertyGroup.validateField(value, className, uuids);
            System.out.println("Validate: " + message);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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Record samples

Basics

Example of uuid:

- Using UUID -> "**a66664a3-0e1d-4b03-9049-a2f4732a0802**";

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Record methods from " **record**" class as is shown below:

```
ws.record.createRecord("ada67d44-b081-4b23-bdc1-74181cafbc5d", "PKI-100200", "new title", 0)
```

Methods

createRecord

Description:

Method	Return values	Description
createRecord(String uuid, String name, String title, long nodeClass)	**Record**	Creates a new record and return as a result an object Record.
The parameters **uuid** should be any valid folder or record **UUID**.		

Example:

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```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Record;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Record record = ws.record.createRecord("ada67d44-b081-4b23-bdc1-74181cafbc5d", "PKI-100200", "new ti
            System.out.println(record);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getRecordProperties

Description:

Method	Return values	Description
getRecordProperties(String uuid)	**Record**	Returns the record properties.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.record.getRecordProperties("fbe2933e-b141-4557-ab7a-736820ecdb2e"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteRecord

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Description:

Method	Return values	Description
deleteRecord(String uuid)	**void**	Deletes a record.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.record.deleteRecord("fbe2933e-b141-4557-ab7a-736820ecdb2e");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

purgeRecord

Description:

Method	Return values	Description
purgeRecord(String uuid)	**void**	The record is definetivelly removed from repository.

Usually you will purge records to /okm:trash/userId - the personal trash user locations - but is possible to directly purge any record from the whole repository.

When a record is purged it will only be able to be restored from a previously repository backup. The purge action remove the record definitely from the repository.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
```

```
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.record.purgeRecord("fbe2933e-b141-4557-ab7a-736820ecdb2e");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

renameRecord

Description:

Method	Return values	Description
renameRecord(String uuid, String newName)	**Record**	Renames a record.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.record.renameRecord("5489fc37-3eb7-43de-998c-319725ae0ca0", "new_name");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

moveRecord

Description:

Method	Return values	Description

moveRecord(String uuid, String dstId)	**void**	Moves a record to a folder or record.
The values of the dstId parameter should be a folder or record UUID.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.record.moveRecord("5489fc37-3eb7-43de-998c-319725ae0ca0", "8599eab7-ae61-4628-8010-1103d695
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

copyRecord

Description:

Method	Return values	Description
copyRecord(String uuid, String dstId, String newName)	**void**	Copies a record to a folder or record.

The values of the dstId parameter should be a folder or record UUID.

When the parameter newName value is null, the record will preserve the same name.

Only the security grants are copied to the destination, the metadata, keywords, etc. of the record are not copied.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {
```

```
    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.record.copyRecord("5489fc37-3eb7-43de-998c-319725ae0ca0", "8599eab7-ae61-4628-8010-1103d6950
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

isValidRecord

Description:

Method	Return values	Description
isValidRecord(String uuid)	**Boolean**	Returns a boolean that indicate if the node is a record or not.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println("Is a record:" + ws.record.isValidRecord("5489fc37-3eb7-43de-998c-319725ae0ca0"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getRecordChildren

Description:

Method	Return values	Description
getRecordChildren(String uuid)	**List<Record>**	Returns a list of all records which their parent is fldId

The parameter uuid can be a folder or a record node.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Record;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (Record rec : ws.record.getRecordChildren("8599eab7-ae61-4628-8010-1103d6950c63")) {
                System.out.println(rec);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setRecordTitle

Description:

Method	Return values	Description
setRecordTitle(String uuid, String title)	**void**	Sets a record title.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.record.setRecordTitle("5489fc37-3eb7-43de-998c-319725ae0ca0", "some title");
        } catch (Exception e) {
            e.printStackTrace();
```

```
        }
    }
}
```

getRecordPath

Description:

Method	Return values	Description
getRecordPath(String uuid)	**String**	Converts a record UUID to a record path.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.record.getRecordPath("5489fc37-3eb7-43de-998c-319725ae0ca0"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setRecordDescription

Description:

Method	Return values	Description
setRecordDescription(String uuid, String description)	**void**	Set a description.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {
```

```
    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.record.setRecordDescription("7ce1b4a8-4ade-4dce-8d7d-4e99a6cd368b", "some description");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

extendedRecordCopy

Description:

Method	Return values	Description
extendedRecordCopy(String uuid, String dstId, String newName, boolean categories, boolean keywords, boolean propertyGroups, boolean notes, boolean security)	**Record**	Copies a record with the associated data into some folder or record.

The values of the dstId parameter should be a folder or record UUID.

When parameter newName value is null, the record will preservate the same name.

By default only the binary data and the security grants, the metadata, keywords, etc. of the folder are not copyed.

Additional:

- When the category parameter is true the original values of the categories will be copied.
- When the keywords parameter is true the original values of the keywords will be copied.
- When the propertyGroups parameter is true the original values of the metadata groups will be copied.
- When the notes parameter is true the original values of the notes will be copied.
- When the security parameter is true the original value of the security will be copied.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
```

```
import com.openkm.sdk4j.bean.Record;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Record record = ws.record.extendedRecordCopy("ada67d44-b081-4b23-bdc1-74181cafbc5d", "8599eab7-a
                    "new name record", true, true, true, true, true);
            System.out.println(record);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createWizardRecord

Description:

Method	Return values	Description
createWizardRecord(String uuid, String name, String title, long nodeClass)	**WizardNode**	Create a new record with wizard.

The parameters **uuid** should be any valid folder or record **UUID**.

> The WizardNode contains a list of pending actions what should be done to complete the process of record creation. These might be:
>
> - Add keyword
> - Add Categories
> - Add Metadata

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.WizardNode;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
```

```
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            WizardNode wn = ws.record.createWizardRecord("1f323e88-64ee-4f57-91e2-9276f8c603f9", "PKI-100200",
            System.out.print(wn);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createRecordFromTemplate

Description:

Method	Return values	Description
createRecordFromTemplate(String uuid, String dstPath, boolean categories, boolean keywords, boolean notes, Map<String, String> properties)	**Record**	Creates a new record from the template and returns an object Record.

The **uuid** parameter is the UUID value of the template file.

The **dstPath** value is the record destination path.

When the template uses metadata groups to fill in fields, then these values are mandatory and must be set into properties parameter.

Additional:

- When category parameter is true the original values of the categories will be copied.
- When keywords parameter is true the original values of the keywords will be copied.
- When notes parameter is true the original values of the notes will be copied.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Record;
import com.openkm.sdk4j.impl.OKMWebservices;
import com.openkm.sdk4j.util.ISO8601;
```

```
import java.util.Calendar;
import java.util.HashMap;
import java.util.Map;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);

            Map<String, String> properties = new HashMap<>();
            // okg:tpl
            properties.put("okp:tpl.name", "Some name");
            Calendar cal = Calendar.getInstance();
            // Value must be converted to String ISO 8601 compliant
            properties.put("okp:tpl.bird_date", ISO8601.formatBasic(cal));
            properties.put("okp:tpl.language", "[ \"java\" ]");

            // Property okg:technology
            properties.put("okp:technology.comment", "sdk name");
            Record record = ws.record.createRecordFromTemplate("9a114b17-7e51-41e7-9d3a-dc7b77e37656", "/okm
            System.out.println(record);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

createMissingRecords

Description:

Method	Return values	Description
createMissingRecords(String recPath)	**String**	Create missing records.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.record.createMissingRecords("/okm:root/missingrec1/missingrec2/missingrec3");
```

```
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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Relation samples

Basics

Example of uuid:

- Using UUID -> "**f123a950-0329-4d62-8328-0ff500fd42db**";

Suggested code sample

First, you must create the web service object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should log in using the method "**login**." You can access the "**login**" method from the web service object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once logged in with the web services, the session is kept in the web service Object. Then you can use the other API method.

At this point, you can use all the Relation methods from the " **relation**" class as shown below:

```
ws.relation.getRelationTypes(RelationType.BIDIRECTIONAL);
```

Methods

getRelationTypes

Description:

Method	Return values	Description
getRelationTypes(String type)	**List<RelationType>**	Retrieves a list of all relations defined of a type.

Available types values:

- RelationType.BIDIRECTIONAL
- RelationType.PARENT_CHILD
- RelationType.MANY_TO_MANY

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More information on Relation types.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.RelationType;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (RelationType type : ws.relation.getRelationTypes(RelationType.BIDIRECTIONAL)) {
                System.out.println(type);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

addRelation

Description:

Method	Return values	Description
addRelation(String nodeAId, String nodeBId, long relTypeId)	**void**	Sets a relation between two nodes.
The parameters **nodeAId** and **nodeBId** should be any valid document, folder, mail, or record **UUID**.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.RelationType;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {
```

```
    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (RelationType type : ws.getRelationTypes(RelationType.BIDIRECTIONAL)) {
                // looking for a relation named invoice
                if (type.getTitle().equals("invoice")) {
                    // Relation invoice with budget
                    ws.relation.addRelation("46762f90-82c6-4886-8d21-ad3017dd78a7", "8cd1e072-8595-4dd3-b121-41d6
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteRelation

Description:

Method	Return values	Description
deleteRelation(long relationId)	**void**	Deletes a relationship.

Only when a node will not use the relationship it can be deleted. Otherwise, you'll get an error.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Relation;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (Relation relation : ws.getRelations("46762f90-82c6-4886-8d21-ad3017dd78a7")) {
                // looking for a relation named invoice
                if (relation.getRelationTitle().equals("invoice")) {
                    ws.relation.deleteRelation(relation.getId());
                }
            }
        } catch (Exception e) {
```

```
            e.printStackTrace();
        }
    }
}
```

getRelations

Description:

Method	Return values	Description
getRelations(String uuid)	**List<Relation>**	Retrieves a list of all relations of a node.
The parameter **uuid** should be any valid document, folder, mail, or record **UUID**.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Relation;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (Relation relation : ws.relation.getRelations("46762f90-82c6-4886-8d21-ad3017dd78a7")) {
                System.out.println(relation);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getRelationGroups

Description:

Method	Return values	Description
getRelationGroups(String uuid)	**List<RelationGroup>**	Retrieves a list of all related groups of a node.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.RelationGroup;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (RelationGroup rg : ws.relation.getRelationGroups("46762f90-82c6-4886-8d21-ad3017dd78a7")) {
                System.out.println(rg);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

addRelationGroup

Description:

Method	Return values	Description
addRelationGroup(String uuid, String groupName, long type)	**void**	Adds a relation group at a node.

A relation group only has the sense to apply a relation type of RelationType.MANY_TO_MANY.

More information on Relation types.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.RelationType;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
```

```
            for (RelationType type : ws.relation.getRelationTypes(RelationType.MANY_TO_MANY)) {
                if (type.getTitle().equals("staple")) {
                    ws.addRelationGroup("46762f90-82c6-4886-8d21-ad3017dd78a7", "staple group", type.getId());
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

addNodeToGroup

Description:

Method	Return values	Description
addNodeToGroup(String uuid, long groupId)	**void**	Adds a node to an existing relation group.

On a relation group, it only has the sense to apply the type RelationType.MANY_TO_MANY.

More information on Relation types.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.RelationGroup;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (RelationGroup rg : ws.relation.getRelationGroups("46762f90-82c6-4886-8d21-ad3017dd78a7")) {
                if (rg.getName().equals("staple group")) {
                    ws.relation.addNodeToGroup("8f101a85-88e7-4abe-8175-c5fea3e17d8b", rg.getId());
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteRelationGroup

Description:

Method	Return values	Description
deleteRelationGroup(long groupId)	**void**	Remove the relation group from a node

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.RelationGroup;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (RelationGroup rg : ws.relation.getRelationGroups("8f101a85-88e7-4abe-8175-c5fea3e17d8b")) {
                if (rg.getName().equals("staple group")) {
                    ws.relation.deleteRelationGroup(rg.getId());
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findRelationGroup

Description:

Method	Return values	Description
findRelationGroup(long groupId)	**RelationGroup**	Finds a relation group by id.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
```

```
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            long groupId = 1;
            System.out.println(ws.relation.findRelationGroup(groupId));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setRelationGroupName

Description:

Method	Return values	Description
setRelationGroupName(long groupId, String groupName)	**void**	Changes the relation group name.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            long groupId = 1;
            ws.relation.setRelationGroupName(groupId, "new name");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getAllRelationGroups

Description:

Method	Return values	Description
getAllRelationGroups(int relationTypeId, String filter, int offset, int limit)	**RelationGroupResultSet**	Retrieves a list of all related groups.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" limits the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example, if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20; you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.RelationGroup;
import com.openkm.sdk4j.bean.RelationGroupResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);

            int relationTypeId = 2;
            String filter = "";
            RelationGroupResultSet resultSet = ws.relation.getAllRelationGroups(relationTypeId, filter, 0, 10);
            System.out.println("Total: " + resultSet.getTotal());
            for (RelationGroup relationGroup : resultSet.getResults()) {
                System.out.println(relationGroup);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteRelationGroupItem

Description:

Method	Return values	Description
deleteRelationGroupItem(String uuid, long groupId)	**void**	Remove a node from a related group.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.RelationGroup;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (RelationGroup rg : ws.relation.getRelationGroups("930baee0-8712-41b0-85c0-81d21e55742f")) {
                if (rg.getName().equals("staple")) {
                    ws.relation.deleteRelationGroupItem("930baee0-8712-41b0-85c0-81d21e55742f", rg.getId());
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Report samples

Basics

The table below shows how should be passed variables based on field type:

Field type	Type	Description
Date	**String**	Use the pattern yyyy-MM-dd (year - month - day) 2018-10-04
Select multiple	**String**	Use "," to split each value "value1,value2,value3"

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Report methods from "**report**" class as is shown below:

```
ws.report.getReports(true)
```

Methods

getReports

Description:

Method	Return values	Description
getReports(boolean active)	**List<Report>**	Returns a list of reports.

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Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Report;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (Report rep : ws.report.getReports(true)) {
                System.out.println(rep);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getReport

Description:

Method	Return values	Description
getReport(long rpId)	**Report**	Returns a reports.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Report;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Report rep = ws.report.getReport(1);
            System.out.println(rep);
        } catch (Exception e) {
```

```
            e.printStackTrace();
        }
    }
}
```

generateDownloadReportToken

Description:

Method	Return values	Description
generateDownloadReportToken(long rpId)	**String**	Return the token for downloading the report.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            String token = ws.report.generateDownloadReportToken(1);
            System.out.println(token);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

executeReport

Description:

Method	Return values	Description
executeReport(long rpId, Map<String, String> params, String format, String uuid)	**InputStream**	Return a document result of executing a report.

Available formats:

- Report.FORMAT_CSV

- Report.FORMAT_DOCX
- Report.FORMAT_HTML
- Report.FORMAT_ODT
- Report.FORMAT_PDF
- Report.FORMAT_RTF
- Report.FORMAT_TEXT

The parameter **uuid** is the UUID of a node (this parameter is optional, usually has sense with reports executed from user interface where the results of the reports depend on the node selected).

Example:

```
package com.openkm;

import java.io.FileOutputStream;
import java.io.InputStream;
import java.io.OutputStream;
import java.util.HashMap;
import java.util.Map;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Report;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Map<String, String> params = new HashMap<>();
            params.put("from_date", "2021-01-01");
            params.put("to_date", "2021-05-01");

            long rpId = 1;
            String format = Report.FORMAT_PDF;
            String dstId = "c5c87bd3-0c03-4bba-ab2f-7184c23a26d8";
            String uuid = "";
            InputStream is = ws.report.executeReport(rpId, params, format, dstId, uuid);
            OutputStream fos = new FileOutputStream("/home/openkm/report/document Create.pdf");
            IOUtils.copy(is, fos);
            IOUtils.closeQuietly(is);
            IOUtils.closeQuietly(fos);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Repository samples

Basics

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Repository methods from " **repository**" class as is shown below:

```
ws.repository.getAppVersion();
```

Methods

getRootFolder

Description:

Method	Return values	Description
getRootFolder()	**Folder**	Returns the object Folder of node "/okm:root"

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

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```
        try {
            ws.login(user, password);
            System.out.println(ws.repository.getRootFolder());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getTrashFolder

Description:

Method	Return values	Description
getTrashFolder()	**Folder**	Returns the object Folder of node "/okm:trash/{userId}"

The returned folder will be the user trash folder.

For example if the method is executed by the user "okmAdmin" then the folder returned will be "/okm:trash/okmAdmin".

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getTrashFolder());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getTrashFolderBase

Description:

Method	Return values	Description

getTrashFolderBase()	**Folder**	Returns the object Folder of node "/okm:trash"

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getTrashFolderBase());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getTemplatesFolder

Description:

Method	Return values	Description
getTemplatesFolder()	**Folder**	Returns the object Folder of node "/okm:templates"

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getTemplatesFolder());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
```

```
}
```

getPersonalFolder

Description:

Method	Return values	Description
getPersonalFolder()	**Folder**	Returns the object Folder of node "/okm:personal/{userId}"

The returned folder will be the user personal folder.

For example if the method is executed by the user "okmAdmin" then the folder returned will be "/okm:personal/okmAdmin".

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getPersonalFolder());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getPersonalFolderBase

Description:

Method	Return values	Description
getPersonalFolderBase()	**Folder**	Returns the object Folder of node "/okm:personal"

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getPersonalFolderBase());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getMailFolder

Description:

Method	Return values	Description
getMailFolder()	**Folder**	Returns the object Folder of node "/okm:mail/{userId}"

The returned folder will be the user mail folder.

For example if the method is executed by the user "okmAdmin" then the folder returned will be "/okm:mail/okmAdmin".

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getMailFolder());
        } catch (Exception e) {
            e.printStackTrace();
```

```
        }
    }
}
```

getMailFolderBase

Description:

Method	Return values	Description
getMailFolderBase()	**Folder**	Returns the object Folder of node "/okm:mail"

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getMailFolderBase());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getCategoriesFolder

Description:

Method	Return values	Description
getCategoriesFolder()	**Folder**	Returns the object Folder of node "/okm:categories"

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {
```

```
    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getCategoriesFolder());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

purgeTrash

Description:

Method	Return values	Description
purgeTrash()	**void**	Definitively removes from repository all nodes to "/okm:trash/{userId}"

For example if the method is executed by the user "okmAdmin" then the purged trash will be "/okm:trash/okmAdmin".

When a node is purged it will only be able to be restored from a previously repository backup. The purge action removes the node definitely from the repository.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.repository.purgeTrash();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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getUpdateMessage

Description:

Method	Return values	Description
getUpdateMessage()	**String**	Retrieves a message when there is a new OpenKM release.

There's an official OpenKM update message service available which is based on your local OpenKM version.

The most common message is that a new OpenKM version has been released.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getUpdateMessage());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getRepositoryUuid

Description:

Method	Return values	Description
getRepositoryUuid()	**String**	Retrieves the installation unique identifier.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
```

```
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getRepositoryUuid());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

hasNode

Description:

Method	Return values	Description
hasNode(String nodeId)	**Boolean**	Returns a node that indicate if a node exists or not.
The value of the parameter nodeId can be a valid **UUID** or **path**.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println("Exists node:" + ws.repository.hasNode("373bcdd0-c082-4e7b-addd-e10ef813946e"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getNodePath

Description:

Method	Return values	Description
getNodePath(String uuid)	String	Converts a node UUID to path.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getNodePath("373bcdd0-c082-4e7b-addd-e10ef813946e"));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getNodeUuid

Description:

Method	Return values	Description
getNodeUuid(String nodePath)	**String**	Converts a node path to UUID.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getNodeUuid("/okm:root/test"));
        } catch (Exception e) {
            e.printStackTrace();
```

```
        }
    }
}
```

getAppVersion

Description:

Method	Return values	Description
getAppVersion()	**AppVersion**	Returns information about OpenKM version.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getAppVersion());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

copyAttributes

Description:

Method	Return values	Description
copyAttributes(String uuid, String dstId, boolean categories, boolean keywords, boolean propertyGroups, boolean notes)	**void**	Copy attributes from a node to other.

The values of the dstId parameter should be a node UUID.

- When the category parameter is true the original values of the categories will be copied.
- When the keywords parameter is true the original values of the keywords will be copied.

- When the property Groups parameter is true the original values of the metadata groups will be copied.
- When the notes parameter is true the original values of the notes will be copied.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.repository.copyAttributes("46762f90-82c6-4886-8d21-ad3017dd78a7", "ac9fe744-8e45-4bf4-a293-85daf
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

executeScript

Description:

Method	Return values	Description
executeScript(InputStream is)	**ScriptExecutionResult**	Executes an script.

The local script - test.bsh - used in the sample below:

```
import com.openkm.api.OKMFolder;
import com.openkm.bean.Folder;
import com.openkm.util.ContextWrapper;

try {
    OKMFolder okmFolder = ContextWrapper.getContext().getBean(OKMFolder.class);
    for (Folder fld : okmFolder.getChildren(null, "/okm:root")) {
        print(fld.getPath() + "\n");
    }
} catch (Exception e) {
    e.printStackTrace();
}

// Some value can also be returned as string
return "test result";
```

This action can only be done by a super user (user with ROLE_ADMIN).

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.ScriptExecutionResult;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/openkm/test.bsh");
            ScriptExecutionResult result = ws.repository.executeScript(is);
            System.out.println(result.getResult());
            System.out.println(result.getStdout());

            if (!result.getStderr().isEmpty()) {
                System.out.println("Error happened");
                System.out.println(result.getStderr());
            }

            IOUtils.closeQuietly(is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

executeScript

Description:

Method	Return values	Description
executeScript(String script)	**ScriptExecutionResult**	Executes an script.

This action can only be done by a super user (user with ROLE_ADMIN).

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.ScriptExecutionResult;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            String script = "import com.openkm.util.ContextWrapper;"
                    + " import org.springframework.web.context.WebApplicationContext;"
                    + " import com.openkm.api.OKMFolder;"
                    + " import com.openkm.bean.Folder;"
                    + " WebApplicationContext cc = (WebApplicationContext) ContextWrapper.getContext();"
                    + " OKMFolder okmFolder = cc.getBean(OKMFolder.class);"
                    + " for (Folder fld : okmFolder.getChildren(null,\"/okm:root\")) {"
                    + " print(fld.getPath());"
                    + "}";
            ScriptExecutionResult result = ws.repository.executeScript(script);
            System.out.println(result.getResult());
            System.out.println(result.getStdout());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

executeSqlQuery

Description:

Method	Return values	Description
executeSqlQuery(InputStream is)	**SqlQueryResults**	Executes SQL sentences.

The test.sql script used in the sample below:

```
SELECT NBS_UUID, NBS_NAME FROM OKM_NODE_BASE LIMIT 10;
```

The SQL script can only contains a single SQL sentence.

This action can only be done by a super user (user with ROLE_ADMIN).

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.SqlQueryResultColumns;
import com.openkm.sdk4j.bean.SqlQueryResults;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/gnujavasergio/okm/test.sql");
            SqlQueryResults result = ws.repository.executeSqlQuery(is);
            for (SqlQueryResultColumns columns : result.getResults()) {
                System.out.println("UUID:" + columns.getColumns().get(0));
                System.out.println("Context:" + columns.getColumns().get(1));
                System.out.println("Name:" + columns.getColumns().get(2));
            }
            IOUtils.closeQuietly(is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Also the InputStream can be set as:

```
String sql = "SELECT NBS_UUID, NBS_CONTEXT, NBS_NAME FROM OKM_NODE_BASE LIMIT 10;";
InputStream is = new ByteArrayInputStream(sql.getBytes("UTF-8"));
```

executeSqlQuery

Description:

Method	Return values	Description
executeSqlQuery(String sql)	**SqlQueryResults**	Executes SQL sentences.

The SQL script can only contains a single SQL sentence.

This action can only be done by a super user (user with ROLE_ADMIN).

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.SqlQueryResultColumns;
import com.openkm.sdk4j.bean.SqlQueryResults;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            SqlQueryResults result = ws.repository.executeSqlQuery("SESELECT NBS_UUID, NBS_CONTEXT, NBS_N
            for (SqlQueryResultColumns columns : result.getResults()) {
                System.out.println("UUID:" + columns.getColumns().get(0));
                System.out.println("Context:" + columns.getColumns().get(1));
                System.out.println("Name:" + columns.getColumns().get(2));
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

executeHqlQuery

Description:

Method	Return values	Description
executeHqlQuery(InputStream is)	**HqlQueryResults**	Executes HQL sentences.

The test.sql script used in the sample below:

```
SELECT uuid, author from NodeBase where name = 'okm:root';
```

The HQL script can only contains a single HQL sentence.

This action can only be done by a super user (user with ROLE_ADMIN).

Example:

```
package com.openkm;

import java.io.FileInputStream;
import java.io.InputStream;

import org.apache.commons.io.IOUtils;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.HqlQueryResultColumns;
import com.openkm.sdk4j.bean.HqlQueryResults;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            InputStream is = new FileInputStream("/home/gnujavasergio/okm/test.sql");
            HqlQueryResults result = ws.repository.executeHqlQuery(is);

            for (HqlQueryResultColumns row : result.getResults()) {
                System.out.println("uuid: " + row.getColumns().get(0) + ", name: " + row.getColumns().get(1));
            }

            IOUtils.closeQuietly(is);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Also the InputStream can be set as:

```
String sql = "SELECT uuid, name from NodeBase where name = 'okm:root';";
InputStream is = new ByteArrayInputStream(sql.getBytes("UTF-8"));
```

executeHqlQuery

Description:

Method	Return values	Description
executeHqlQuery(String hql)	**HqlQueryResults**	Executes HQL sentences.

The HQL script can only contains a single HQL sentence.

This action can only be done by a super user (user with ROLE_ADMIN).

Example:

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```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.HqlQueryResultColumns;
import com.openkm.sdk4j.bean.HqlQueryResults;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            HqlQueryResults result = ws.repository.executeHqlQuery("SELECT uuid, author from NodeBase where nam
            for (HqlQueryResultColumns row : result.getResults()) {
                System.out.println("uuid: " + row.getColumns().get(0) + ", name: " + row.getColumns().get(1));
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getTranslations

Description:

Method	Return values	
getTranslations(String lang, String module)	**Map<String, String>**	Retrieve the

The OpenKM translations tables can be used to retrieve actually OpenKM translations or create your own translatio

By default modules values are :

- frontend (used by default OpenKM UI).
- extension (used by OpenKM extension UI).
- mobile (used by OpenKM mobile UI).

Example to add a new Translation module :

SQL values to be executed from Database query view:

```
DELETE FROM OKM_TRANSLATION WHERE TR_LANGUAGE='en-GB' and TR_MODULE='doc';
INSERT INTO OKM_TRANSLATION (TR_MODULE, TR_KEY, TR_TEXT, TR_LANGUAGE) VALUES
INSERT INTO OKM_TRANSLATION (TR_MODULE, TR_KEY, TR_TEXT, TR_LANGUAGE) VALUES
```

The code then should be:

```
Map<String, String> translations = ws.getTranslations("en-GB", "doc");
```

Example:

```
package com.openkm;

import java.util.Map;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Map<String, String> translations = ws.repository.getTranslations("en-GB", "frontend");
            for (String key : translations.keySet()) {
                System.out.println("key:'" + key + "', with translation:'" + translations.get(key) + "'");
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getConfiguration

Description:

Method	Return values	Description
getConfiguration(String key)	**Configuration**	Retrieve the value of a configuration parameter.

If your OpenKM version have the configuration parameter named "**webservices.visible.properties**", will be restricted for non Administrator users what parameters are accessible. That means any non Administrator use who will try accessing across the webservices to configuration parameters not set into the list of values of "**webservices.visible.properties**" will get an access denied exception.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Configuration;
```

```
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Configuration configuration = ws.repository.getConfiguration("system.ocr");
            System.out.println(configuration);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getChangeLog

Description:

Method	Return values	Description
getChangeLog(String nodePath, Calendar modificationsFrom)	**List<ChangeLogged>**	Return the list of changes in some path and subfolders.

- The method is used by desktop synchronization application for retrieving the changes.

Example:

```
package com.openkm;

import java.util.Calendar;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.ChangeLogged;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Calendar now = Calendar.getInstance();
            for (ChangeLogged cl : ws.repository.getChangeLog("/okm:root/synchronized", now)) {
                System.out.println(cl);
            }
```

```
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getServerTime()

Description:

Method	Return values	Description
getServerTime()	**String**	Return the current server time.

The server time returned format is ISO8601

- The method is used by desktop synchronization application for retrieving the changes

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println(ws.repository.getServerTime());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getAvailableLocales

Description:

Method	Return values	Description
getAvailableLocales(String locale)	**Map<String, String>**	Return the available languages

Example:

```
package com.openkm;

import java.util.Map;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            Map<String, String> locales = ws.repository.getAvailableLocales("en-GB");
            for (String key : locales.keySet()) {
                System.out.println("Language:" + key + "," + locales.get(key));
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Search samples

Basics

Almosts all methods use QueryParams. Here there're some tips about how using it.

Variables	Type	Allow wildcards	Restrictions
domain	**long**	No.	Available values: • QueryParams.DOCUMENT • QueryParams.FOLDER • QueryParams.MAIL • QueryParams.RECORD By default the value is set to QueryParams.DOCUMENT. For searching documents and folders use value: `(QueryParams.DOCUMENT | QueryParams.FOLDER)`
author	**String**	No.	Value must be a valid userId.
name	**String**	Yes.	
title	**String**	Yes.	
keywords	**Set<String>**	Yes.	
categories	**Set<String>**	No.	Values should be a category UUID, not use path value.

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content		Yes.	
mimeType		No.	Value should be a valid and registered MIME type. Only can be applied to documents node.
language		No.	Value should be a valid language. Only can be applied to documents node.
folder		No.	When empty is used by default "/okm:root" node. Value should be a valid UUID, not use a path value.
folderRecursive	**Boolean**	No.	Only has sense to set this variable to true when the variable folder is not
lastModifiedFrom	**Calendar**	No.	
lastModifiedTo	**Calendar**	No.	
mailSubject	**String**	Yes.	Only apply to mail nodes.

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mailFrom	**String**	Yes.	Only apply to mail nodes.
mailTo		Yes.	Only apply to mail nodes.
notes		Yes.	

properties	**Map<String, String>**	Yes on almost.	On metadata field values like "date" can not be applied wilcards.
			
			The map of the properties is composed of pairs:
			
			('metadata_field_name','metada_field_value")
			
			For example:
			
			`Map<String, String> properties = new HashMap();`
			`properties.put("okp:consulting.name", "name value");`
			
			Filtering by range of dates:
			
			`Calendar to = Calendar.getInstance(); // today`
			`to.set(0, Calendar.HOUR);`
			`to.set(0, Calendar.MINUTE);`
			`to.set(0, Calendar.SECOND);`
			`to.set(0, Calendar.MILLISECOND);`
			`Calendar from = (Calendar) to.clone();`
			`from.add(-3, Calendar.DATE); // three days before`
			`Map<String,String> properties = new HashMap<>();`
			`properties.put("okp:consulting.date", ISO8601.formatBasic(fron`
			
			When filtering by range of dates you must set both values (will be ignored from the OpenKM side.
			
			To filtering by a metadata field of type multiple like this:
			
			`<select label="Multiple" name="okp:consulting.multiple" type="`
			`<option label="One" value="one"/>`
			`<option label="Two" value="two"/>`
			`<option label="Three" value="three" />`

```
</select>
```

You should do:

```
properties.put("okp:consulting.multiple", "one;two");
```

Where "**one**" and "**two**" are valid values and character "**;**" is used as sep

The search operation is done only by AND logic.

Wildcard examples:

Variable	Example	Description
name	**test*.html**	Any document that starts with characters "test" and ends with characters ".html"
name	**test?.html**	Any document that starts with characters "test" followed by a single character and ends with characters ".html"
name	**?test***	Any of the documents where the first character doesn't matter, but is followed by the characters, "test".

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Search methods from "**search**" class as is shown below:

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```
ws.search.find(qParams, null)
```

Methods

find

Description:

Method	Return values	Description
find(QueryParams queryParams, String propertiesPlugin)	**List<QueryResult>**	Returns a list of results filtered by the values of the queryParams parameter.

The parameter "propertiesPlugin" must be a canonical class name of the class which implements the NodeProperties interface.

Retrieving entire Objects (Document, Folder, Record, Mail) from REST can take a lot of time - marshalling and unmarshalling process - while you are only interesting on using only few Objects variables. If its your case you can use NodeProperties classes for retrieving the Object variables what you really need.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.bean.QueryResult;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            QueryParams params = new QueryParams();
            params.setDomain(QueryParams.DOCUMENT + QueryParams.FOLDER);
            params.setName("test*");

            for (QueryResult qr : ws.search.find(params, null)) {
                System.out.println(qr);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

find

Description:

Method	Return values	Description
find(QueryParams queryParams, String sortField, boolean sortReverse, String propertiesPlugin)	**List<QueryResult>**	Returns a list of results filtered by the values of the queryParams parameter.

The parameter "propertiesPlugin" must be a canonical class name of the class which implements the NodeProperties interface.

Available **sortField** values:

```
SearchSortField.NAME
SearchSortField.AUTHOR
SearchSortField.LAST_MODIFIED
```

Retrieving entire Objects (Document, Folder, Record, Mail) from REST can take a lot of time - marshalling and unmarshalling process - while you are only interesting on using only few Objects variables. If its your case you can use NodeProperties classes for retrieving the Object variables what you really need.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.bean.QueryResult;
import com.openkm.sdk4j.bean.ResultSet;
import com.openkm.sdk4j.bean.SearchSortField;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            QueryParams params = new QueryParams();
            params.setDomain(QueryParams.DOCUMENT + QueryParams.FOLDER);
            params.setName("test*");

            for (QueryResult qr : ws.search.find(params, SearchSortField.LAST_MODIFIED, true, null)) {
                System.out.println(qr);
```

```
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findPaginated

Description:

Method	Return values	Description
findPaginated(QueryParams queryParams, int offset, int limit, String propertiesPlugin)	**ResultSet**	Returns a list of paginated results filtered by the values of the queryParams parameter.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

The parameter "propertiesPlugin" must be the canonical class name of the class which implements the NodeProperties interface.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Retrieving entire Objects (Document, Folder, Record, Mail) from REST can take a lot of time - marshalling and unmarshalling process - while you are only interesting on using only few Objects variables. If its your case you can use NodeProperties classes for retrieving the Object variables what you really need.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.bean.QueryResult;
```

```
import com.openkm.sdk4j.bean.ResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            QueryParams params = new QueryParams();
            params.setDomain(QueryParams.DOCUMENT + QueryParams.FOLDER);
            params.setName("test*");
            ResultSet rs = ws.search.findPaginated(params, 20, 10, null);
            System.out.println("Total results: " + rs.getTotal());

            for (QueryResult qr : rs.getResults()) {
                System.out.println(qr);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findPaginated

Description:

Method	Return values	Description
findPaginated(QueryParams queryParams, String sortField, boolean sortReverse, int offset, int limit, String propertiesPlugin)	**ResultSet**	Returns a list of paginated results filtered by the values of the queryParams parameter.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

The parameter "propertiesPlugin" must be the canonical class name of the class which implements the NodeProperties interface.

Available **sortField** values:

```
SearchSortField.NAME
SearchSortField.AUTHOR
SearchSortField.LAST_MODIFIED
```

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Retrieving entire Objects (Document, Folder, Record, Mail) from REST can take a lot of time - marshalling and unmarshalling process - while you are only interesting on using only few Objects variables. If its your case you can use NodeProperties classes for retrieving the Object variables what you really need.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.bean.QueryResult;
import com.openkm.sdk4j.bean.ResultSet;
import com.openkm.sdk4j.bean.SearchSortField;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            QueryParams params = new QueryParams();
            params.setDomain(QueryParams.DOCUMENT + QueryParams.FOLDER);
            params.setName("test*");

            ResultSet rs = ws.search.findPaginated(params, SearchSortField.LAST_MODIFIED, true, 20, 10, null);
            System.out.println("Total results: " + rs.getTotal());
            for (QueryResult qr : rs.getResults()) {
                System.out.println(qr);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findSimpleNodeBasePaginated

Description:

Method	Return values	Description
findSimpleNodeBasePaginated(QueryParams queryParams, int offset, int limit)	**SimpleNodeBaseResultSet**	Returns a list of SimpleNodeBase paginated results filtered by the values of the queryParams parameter.

Because the results of the findSimpleNodeBasePaginated method are objects of type SimpleNodeBase, this method is about 60-70% faster than the other search methods (these metrics should be taken as orientative values because depends on hardware and the specific scenario where application is running). The other search methods returns objects of type Node what comes with a full node data, the SimpleNodeBase object provide less data but in almost cases should be enought. Specially when the limit is a higher value you will appreciate the difference in the perfomance.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.*;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
```

```
            ws.login(user, password);
            QueryParams params = new QueryParams();
            params.setDomain(QueryParams.DOCUMENT + QueryParams.FOLDER);
            params.setName("test*");
            SimpleNodeBaseResultSet rs = ws.search.findSimpleNodeBasePaginated(params, 20, 10);
            System.out.println("Total results: " + rs.getTotal());

            for (SimpleNodeBase sn : rs.getResults()) {
               System.out.println(sn);
            }
         } catch (Exception e) {
            e.printStackTrace();
         }
      }
   }
```

findSimpleNodeBasePaginated

Description:

Method	Return values	Description
findSimpleNodeBasePaginated(QueryParams queryParams, String sortField, boolean sortReverse, int offset, int limit)	**SimpleNodeBaseResultSet**	Returns a list of SimpleNodeBase paginated results filtered by the values of the queryParams parameter.

Because the results of the findSimpleNodeBasePaginated method are objects of type SimpleNodeBase, this method is about 60-70% faster than the other search methods (these metrics should be taken as orientative values because depends on hardware and the specific scenario where application is running). The other search methods returns objects of type Node what comes with a full node data, the SimpleNodeBase object provide less data but in almost cases should be enought. Specially when the limit is a higher value you will appreciate the difference in the perfomance.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

Available **sortField** values:

```
SearchSortField.NAME
SearchSortField.AUTHOR
SearchSortField.LAST_MODIFIED
```

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.*;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            QueryParams params = new QueryParams();
            params.setDomain(QueryParams.DOCUMENT + QueryParams.FOLDER);
            params.setName("test*");

            SimpleNodeBaseResultSet result = ws.search.findSimpleNodeBasePaginated(params, SearchSortField.AU
            System.out.println("Total: " + result.getTotal());
            for (SimpleNodeBase nodeBase : result.getResults()) {
                if (nodeBase != null) {
                    System.out.println(nodeBase.toString());
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getKeywordMap

Description:

Method	Return values	Description
getKeywordMap(List<String>	**Map<String,**	Returns a map of keywords with its count value filtered by

filter)	**Integer**>	other keywords.

Example:

- Doc1.txt has keywords "test", "one", "two".
- Doc2.txt has keywords "test", "one"
- Doc3.txt has keywords "test", "three".

The results filtering by "test" -> "one", "two", "three".

The results filtering by "one" -> "test", "two".

The results filtering by "two" -> "test", "one".

The results filtering by "three" -> "test".

The results filtering by "one" and "two" -> "test".

Example:

```
package com.openkm;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Map;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            // All keywords without filtering
            System.out.println("Without filtering");
            Map<String, Integer> keywords = ws.getKeywordMap(new ArrayList<String>());

            for (String key : keywords.keySet()) {
                System.out.println(key + " is used :" + keywords.get(key));
            }

            // Keywords filtered
            System.out.println("Filtering");
            keywords = ws.search.getKeywordMap(Arrays.asList("test"));

            for (String key : keywords.keySet()) {
                System.out.println(key + " is used :" + keywords.get(key));
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
```

```
    }
}
```

getCategorizedDocuments

Description:

Method	Return values	Description
getCategorizedDocuments(String categoryId)	**List<Document>**	Retrieves a list of all documents related with a category.
The values of the categoryId parameter should be a category folder UUID.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Document;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (Document doc : ws.search.getCategorizedDocuments("58c9b25f-d83e-4006-bd78-e26d7c6fb648")) {
                System.out.println(doc);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

saveSearch

Description:

Method	Return values	Description
saveSearch(QueryParams params)	**Long**	Saves a search parameters.
The variable queryName of the parameter params, should have to be initialized.		

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.bean.QueryResult;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            QueryParams qParams = new QueryParams();
            qParams.setDomain(QueryParams.DOCUMENT + QueryParams.FOLDER);
            qParams.setName("test*");
            for (QueryResult qr : ws.find(qParams, null)) {
                System.out.println(qr);
            }
            // Save the search to be used later
            qParams.setQueryName("sample search");
            ws.search.saveSearch(qParams);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

updateSearch

Description:

Method	Return values	Description
updateSearch(QueryParams params)	**void**	Updates a previously saved search parameters.

Only can be updated as a saved search created by the same user user who's executing the method.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
```

```
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (QueryParams qParams : ws.getAllSearchs()) {
                if (qParams.getQueryName().equals("sample search")) {
                    // Change some value.
                    qParams.setName("admin*.html");
                    ws.search.updateSearch(qParams);
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getSearch

Description:

Method	Return values	Description
getSearch(int qpId)	**QueryParams**	Gets saved search parameters.

Only can be retrieved as a saved search created by the same user who's executing the method.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            int qpId = 1; // Some valid search id
            QueryParams qParams = ws.search.getSearch(qpId);
            System.out.println(qParams);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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getAllSearchs

Description:

Method	Return values	Description
getAllSearchs()	**List<QueryParams>**	Retrieves a list of all saved search parameters.

Only will be retrieved the list of the saved searches created by the same user who's executing the method.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (QueryParams qParams : ws.search.getAllSearchs()) {
                System.out.println(qParams);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteSearch

Description:

Method	Return values	Description
deleteSearch(int qpId)	**void**	Deletes a saved search parameters.

Only can be deleted as a saved search created by the same user user who's executing the method.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            int qpId = 1; // Some valid search id
            ws.search.deleteSearch(qpId);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findByQuery

Description:

Method	Return values	Description
findByQuery(String query, String propertiesPlugin)	**List<QueryResult>**	Returns a list of results filtered by the query parameter.

The **syntax** to use in the statement parameter is the pair **'field:value'**. For example:

- "name:grial" is filtering field name by word grial.

More information about lucene sintaxis at Lucene query syntax.

The parameter "propertiesPlugin" must be the canonical class name of the class which implements the NodeProperties interface.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.*;
import com.openkm.sdk4j.impl.OKMWebservices;
```

```
import java.util.List;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<QueryResult> results = ws.search.findByQuery("keyword:test AND name:t*.pdf", null);
            for (QueryResult qr : results) {
                System.out.println(qr);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findByQuery

Description:

Method	Return values	Description
findByQuery(String query, String sortField, boolean sortReverse, String propertiesPlugin)	**List<QueryResult>**	Returns a list of results filtered by the query parameter.

The **syntax** to use in the statement parameter is the pair **'field:value'**. For example:

- "name:grial" is filtering field name by word grial.

More information about lucene sintaxis at Lucene query syntax.

Available **sortField** values:

```
SearchSortField.NAME
SearchSortField.AUTHOR
SearchSortField.LAST_MODIFIED
```

The parameter "propertiesPlugin" must be the canonical class name of the class which implements the NodeProperties interface.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.*;
import com.openkm.sdk4j.impl.OKMWebservices;

import java.util.List;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<QueryResult> results = ws.search.findByQuery("keyword:test AND name:t*.pdf", SearchSortField.NAMI
            for (QueryResult qr : results) {
                System.out.println(qr);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findByQueryPaginated

Description:

Method	Return values	Description
findByQueryPaginated(String query, int offset, int limit, String propertiesPlugin)	**ResultSet**	Returns a list of paginated results filtered by the values of the query parameter.

The **syntax** to use in the statement parameter is the pair **'field:value'**. For example:

- "name:grial" is filtering field name by word grial.

More information about lucene sintaxis at Lucene query syntax.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

The parameter "propertiesPlugin" must be the canonical class name of the class which implements the NodeProperties interface.

For example if your query has 1000 results, but you only want to return the first 10, you should use these

values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryResult;
import com.openkm.sdk4j.bean.ResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ResultSet rs = ws.search.findByQueryPaginated("text:grial AND name:t*.pdf", 0, 10, null);
            System.out.println("Total results:" + rs.getTotal());

            for (QueryResult qr : rs.getResults()) {
                System.out.println(qr);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findByQueryPaginated

Description:

Method	Return values	Description
findByQueryPaginated(String query, String sortField, boolean sortReverse, int offset, int limit, String propertiesPlugin)	**ResultSet**	Returns a list of paginated results filtered by the values of the query parameter.

The **syntax** to use in the statement parameter is the pair **'field:value'**. For example:

- "name:grial" is filtering field name by word grial.

More information about lucene sintaxis at Lucene query syntax.

Available sortField values:

```
SearchSortField.NAME
SearchSortField.AUTHOR
SearchSortField.LAST_MODIFIED
```

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

The parameter "propertiesPlugin" must be the canonical class name of the class which implements the NodeProperties interface.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryResult;
import com.openkm.sdk4j.bean.ResultSet;
import com.openkm.sdk4j.bean.SearchSortField;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

```
        try {
            ws.login(user, password);
            ResultSet rs = ws.search.findByQueryPaginated("text:grial AND name:t*.pdf", SearchSortField.NAME, true,
            System.out.println("Total results:" + rs.getTotal());
            for (QueryResult qr : rs.getResults()) {
                System.out.println(qr);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findSimpleNodeBaseByQueryPaginated

Description:

Method	Return values	Description
findSimpleNodeBaseByQueryPaginated(String query, int offset, int limit)	**SimpleNodeBaseResultSet**	Returns a list of paginated results filtered by the values of the query parameter.

The **syntax** to use in the statement parameter is the pair **'field:value'**. For example:

- "name:grial" is filtering field name by word grial.

More information about lucene sintaxis at Lucene query syntax.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.SimpleNodeBase;
import com.openkm.sdk4j.bean.SimpleNodeBaseResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            SimpleNodeBaseResultSet result = ws.search.findSimpleNodeBaseByQueryPaginated("text:grial AND name
            for (SimpleNodeBase nodeBase : result.getResults()) {
                if (nodeBase != null) {
                    System.out.println(nodeBase.toString());
                }
            }
            System.out.println("Total: " + result.getTotal());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findSimpleNodeBaseByQueryPaginated

Description:

Method	Return values	Description
findSimpleNodeBaseByQueryPaginated(String query, String sortField, boolean sortReverse, int offset, int limit)	**SimpleNodeBaseResultSet**	Returns a list of paginated results filtered by the values of the query parameter.

The **syntax** to use in the statement parameter is the pair **'field:value'**. For example:

- "name:grial" is filtering field name by word grial.

More information about lucene sintaxis at Lucene query syntax.

Available sortField values:

```
SearchSortField.NAME
SearchSortField.AUTHOR
```

SearchSortField.LAST_MODIFIED

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.*;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            SimpleNodeBaseResultSet result = ws.search.findSimpleNodeBaseByQueryPaginated("text:grial AND name
            System.out.println("Total: " + result.getTotal());
            for (SimpleNodeBase nodeBase : result.getResults()) {
                if (nodeBase != null) {
                    System.out.println(nodeBase.toString());
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findWithMetadata

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Description:

Method	Return values	Description
findWithMetadata(QueryParams queryParams, String propertiesPlugin, List<String> groups)	**List<QueryResult>**	Returns a list of results with metadata values filtered by the queryParams parameter.

- The parameter "propertiesPlugin" must be a canonical class name of the class which implements the NodeProperties interface.
- The parameter "groups" must be valid metadata group names.

Retrieving entire Objects (Document, Folder, Record, Mail) from REST can take a lot of time - marshalling and unmarshalling process - while you are only interesting on using only few Objects variables. If its your case you can use NodeProperties classes for retrieving the Object variables what you really need.

Example:

```
package com.openkm;

import java.util.ArrayList;
import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.bean.QueryResult;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            QueryParams qParams = new QueryParams();
            qParams.setDomain(QueryParams.DOCUMENT + QueryParams.FOLDER);
            qParams.setName("test*");

            List<String> groups = new ArrayList<>();
            groups.add("okg:consulting");

            for (QueryResult qr : ws.search.findWithMetadata(qParams, null, groups)) {
                System.out.println(qr);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
```

```
    }
}
```

findWithMetadata

Description:

Method	Return values	Description
findWithMetadata(QueryParams queryParams, String sortField, boolean sortReverse, String propertiesPlugin, List<String> groups)	**List<QueryResult>**	Returns a list of results with metadata values filtered by the queryParams parameter.

- The parameter "propertiesPlugin" must be a canonical class name of the class which implements the NodeProperties interface.
- The parameter "groups" must be valid metadata group names.

Available sortField values:

```
SearchSortField.NAME
SearchSortField.AUTHOR
SearchSortField.LAST_MODIFIED
```

Retrieving entire Objects (Document, Folder, Record, Mail) from REST can take a lot of time - marshalling and unmarshalling process - while you are only interesting on using only few Objects variables. If its your case you can use NodeProperties classes for retrieving the Object variables what you really need.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.bean.QueryResult;
import com.openkm.sdk4j.bean.SearchSortField;
import com.openkm.sdk4j.impl.OKMWebservices;

import java.util.ArrayList;
import java.util.List;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
```

```
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            QueryParams params = new QueryParams();
            params.setDomain(QueryParams.DOCUMENT + QueryParams.FOLDER);
            params.setName("test*");

            List<String> groups = new ArrayList<>();
            groups.add("okg:consulting");
            for (QueryResult qr : ws.search.findWithMetadata(params, SearchSortField.NAME, true, null, groups)) {
                System.out.println(qr);
            }

        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findWithMedataPaginated

Description:

Method	Return values	Description
findWithMetadataPaginated(QueryParams queryParams, int offset, int limit, String propertiesPlugin, List<String> groups)	**ResultSet**	Returns a list of paginated results with metadata values filtered by the queryParams parameter.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

The parameter "propertiesPlugin" must be the canonical class name of the class which implements the NodeProperties interface.

The parameter "groups" must be valid metadata group names.

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10

- offset=10

Retrieving entire Objects (Document, Folder, Record, Mail) from REST can take a lot of time - marshalling and unmarshalling process - while you are only interesting on using only few Objects variables. If its your case you can use NodeProperties classes for retrieving the Object variables what you really need.

Example:

```
package com.openkm;

import java.util.ArrayList;
import java.util.List;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.bean.QueryResult;
import com.openkm.sdk4j.bean.ResultSet;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            QueryParams qParams = new QueryParams();
            qParams.setDomain(QueryParams.DOCUMENT + QueryParams.FOLDER);
            qParams.setName("test*");

            List<String> groups = new ArrayList<>();
            groups.add("okg:consulting");

            ResultSet rs = ws.search.findWithMetadataPaginated(qParams, 0, 10, null, groups);
            System.out.println("Total results: " + rs.getTotal());

            for (QueryResult qr : rs.getResults()) {
                System.out.println(qr);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findWithMedataPaginated

Description:

Method	Return values	Description
findWithMetadataPaginated(QueryParams queryParams,		Returns a list of paginated results with

int offset, int limit, String propertiesPlugin, List<String> groups)	**ResultSet**	metadata values filtered by the queryParams parameter.

The parameter "limit" and "offset" allows you to retrieve just a portion of the results of a query.

- The parameter "limit" is used to limit the number of results returned.
- The parameter "offset" says to skip that many results before the beginning to return results.

The parameter "propertiesPlugin" must be the canonical class name of the class which implements the NodeProperties interface.

The parameter "groups" must be valid metadata group names.

Available **sortField** values:

```
SearchSortField.NAME
SearchSortField.AUTHOR
SearchSortField.LAST_MODIFIED
```

For example if your query has 1000 results, but you only want to return the first 10, you should use these values:

- limit=10
- offset=0

Now suppose you want to show the results from 11-20, you should use these values:

- limit=10
- offset=10

Retrieving entire Objects (Document, Folder, Record, Mail) from REST can take a lot of time - marshalling and unmarshalling process - while you are only interesting on using only few Objects variables. If its your case you can use NodeProperties classes for retrieving the Object variables what you really need.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.bean.QueryResult;
import com.openkm.sdk4j.bean.ResultSet;
import com.openkm.sdk4j.bean.SearchSortField;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {
```

```
    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            QueryParams params = new QueryParams();
            params.setDomain(QueryParams.DOCUMENT + QueryParams.FOLDER);
            params.setName("test*");

            ResultSet rs = ws.search.findWithMetadataPaginated(params, SearchSortField.AUTHOR, true, 0, 10, null, g
            System.out.println("Total results: " + rs.getTotal());
            for (QueryResult qr : rs.getResults()) {
                System.out.println(qr);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

getMimeTypes

Description:

Method	Return values	Description
getMimeTypes()	**List<MimeType>**	Retrieves a list of mimetypes.

Only will be retrieved the list of the mimeTypes what may be used in the search.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.MimeType;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            for (MimeType mimeType : ws.search.getMimeTypes()) {
                System.out.println(mimeType);
            }
        } catch (Exception e) {
            e.printStackTrace();
```

```
        }
    }
}
```

csvExport

Description:

Method	Return values	Description
csvExport(String lang, QueryParams queryParams, boolean compact)	**InputStream**	Export as a csv a list of results filtered by the values of the queryParams parameter.

The parameter **lang** must be ISO 691-1 compliant.

More information at: https://en.wikipedia.org/wiki/List_of_ISO_639-1_codes.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.QueryParams;
import com.openkm.sdk4j.impl.OKMWebservices;
import org.apache.commons.io.IOUtils;

import java.io.FileOutputStream;
import java.io.InputStream;
import java.io.OutputStream;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            QueryParams params = new QueryParams();
            params.setDomain(QueryParams.DOCUMENT + QueryParams.FOLDER);
            params.setName("test*");

            InputStream is = ws.search.csvExport("es-ES", params, false);
            OutputStream fos = new FileOutputStream("/home/openkm/okm/export.csv");
            IOUtils.copy(is, fos);
            IOUtils.closeQuietly(is);
            IOUtils.closeQuietly(fos);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
```

```
}
```

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UserConfig samples

Basics

Example of uuid:

- Using UUID -> "**373bcdd0-c082-4e7b-addd-e10ef813946e**";

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the UserConfig methods from "**userConfig**" class as is shown below:

```
ws.userConfig.getConfig();
```

Methods

getConfig

Description:

Method	Return values	Description
getConfig()	**UserConfig**	Returns the user settings.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Node;
import com.openkm.sdk4j.bean.UserConfig;
```

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```
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            UserConfig userConfig = ws.userConfig.getConfig();
            Node node = ws.node.getNodeByUuid(userConfig.getHomeNode());
            System.out.println("User: " + userConfig.getUser());
            System.out.println("Home: " + node.getPath());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
```

setHome

Description:

Method	Return values	Description
setHome(String uuid)	**void**	Set the user home node.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.Node;
import com.openkm.sdk4j.bean.UserConfig;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.userConfig.setHome("53751cb7-c462-4320-ba46-4cc33e4667ae");

            UserConfig userConfig = ws.userConfig.getConfig();
            Node node = ws.node.getNodeByUuid(userConfig.getHomeNode());
            System.out.println("Home: " + node.getPath());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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Wizard Samples

Basics

Example of uuid:

- Using UUID -> "**373bcdd0-c082-4e7b-addd-e10ef813946e**";

Suggested code sample

First, you must create the webservice object:

```
OKMWebservices ws = OKMWebservicesFactory.getInstance(host);
```

Then should login using the method "**login**". You can access the "**login**" method from webservice object "**ws**" as is shown below:

```
ws.login(user, password);
```

Once you are logged with the webservices the session is keep in the webservice Object. Then you can use the other API method

At this point you can use all the Wizard methods from " **wizard**" class as is shown below:

```
ws.wizard.findByUser();
```

Methods

findByUser

Description:

Method	Return values	Description
findByUser()	**List<WizardNode>**	Returns a list of nodes with a wizard.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.WizardNode;
import com.openkm.sdk4j.impl.OKMWebservices;
```

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```
import java.util.List;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            List<WizardNode> list = ws.wizard.findByUser();
            for (WizardNode wizardNode : list) {
                System.out.println(wizardNode);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

findByUserAndUuid

Description:

Method	Return values	Description
findByUserAndUuid(String uuid)	**WizardNode**	Get the wizard of a node

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.bean.WizardNode;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            WizardNode wizardNode = ws.wizard.findByUserAndUuid("11225723-883f-4c12-8816-650b2c82c89b");
            System.out.println(wizardNode);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

hasWizardByUserAndNode

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Description:

Method	Return values	Description
hasWizardByUserAndNode(String uuid)	**boolean**	Know if a node has a wizard

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            System.out.println("The node has a wizard: " + ws.wizard.hasWizardByUserAndNode("11225723-883f-4c12-
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

deleteAll

Description:

Method	Return values	Description
deleteAll()	**void**	Remove all wizards of the user.

Only wizards assigned to the user session will be removed.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
```

```
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.wizard.deleteAll();
            System.out.println("Delete all");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

addShowWizardCategories

Description:

Method	Return values	Description
addShowWizardCategories(String uuid, int order)	**void**	Add show wizard categories in the wizard of a node.

The parameter **order** is the position of the action in the wizard.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.wizard.removeDigitalSignature("02add6bf-e5ac-4f4a-8f3f-922958f5b6ae", 0);
            System.out.println("removeDigitalSignature");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

removeShowWizardCategories

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Description:

Method	Return values	Description
removeShowWizardCategories(String uuid)	**void**	Remove show wizard categories in the wizard of a node.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.wizard.removeShowWizardCategories("02add6bf-e5ac-4f4a-8f3f-922958f5b6ae");
            System.out.println("removeShowWizardCategories");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

addShowWizardKeywords

Description:

Method	Return values	Description
addShowWizardKeywords(String uuid, int order)	**void**	Add show wizard keywords in the wizard of a node.

The parameter **order** is the position of the action in the wizard.

Example:

```
package com.openkm;
```

```
import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.wizard.addShowWizardKeywords("02add6bf-e5ac-4f4a-8f3f-922958f5b6ae", 0);
            System.out.println("addShowWizardKeywords");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

removeShowWizardKeywords

Description:

Method	Return values	Description
removeShowWizardKeywords(String uuid)	**void**	Remove show wizard keywords in the wizard of a node.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.wizard.removeShowWizardKeywords("02add6bf-e5ac-4f4a-8f3f-922958f5b6ae");
            System.out.println("removeShowWizardKeywords");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

addGroup

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Description:

Method	Return values	Description
addGroup(String uuid, String group, int order)	**void**	Add metadata group in the wizard.

The parameter **uuid** is the unique node identifier.

The parameter **group** is the group name.

The parameter **order** is the position of the action in the wizard.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.wizard.addGroup("02add6bf-e5ac-4f4a-8f3f-922958f5b6ae", "okg:tpl", 0);
            System.out.println("addGroup");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

removeGroup

Description:

Method	Return values	Description
removeGroup(String uuid, String group)	**void**	Remove metadata group in the wizard.

The parameter **uuid** is the unique node identifier.

The parameter **group** is the group name.

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Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.wizard.removeGroup("02add6bf-e5ac-4f4a-8f3f-922958f5b6ae", "okg:tpl");
            System.out.println("removeGroup");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

setAutostart

Description:

Method	Return values	Description
setAutostart	**void**	Set auto start to the wizard.

Autostart should be always **set as the last wizard options**.

Example:

```
package com.openkm;

import com.openkm.sdk4j.OKMWebservicesFactory;
import com.openkm.sdk4j.impl.OKMWebservices;

public class Test {

    public static void main(String[] args) {
        String host = "http://localhost:8080/openkm";
        String user = "okmAdmin";
        String password = "admin";
        OKMWebservices ws = OKMWebservicesFactory.getInstance(host);

        try {
            ws.login(user, password);
            ws.wizard.setAutostart("02add6bf-e5ac-4f4a-8f3f-922958f5b6ae");
            System.out.println("setAutostart");
```

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```
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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