# <u>Terms Of Use 1.1 Component Specification</u>

# 1. Design

All changes performed when synchronizing documentation with the version 1.0 of the source code of this component are marked with purple.

All changes made in the version 1.1 are marked with blue.

All new items in the version 1.1 are marked with red.

The component defines data model and functionality for managing Terms Of Use and their relations to users and contest roles. The existing Terms Of Use functionality is implemented in EJBs, which brings unnecessary complications to the applications using them. Additionally several enhancements are to be done to the existing functionality.

This component rewrites the existing Terms Of Use functionality with removal of EJBs and adding several new methods. The grouping of project/role to terms of use is done additionally.

### Changes in the version 1.1:

- Properties memberAgreeable and electronicallySignable are removed from TermsOfUse entity. Instead a new TermsOfUseAgreeabilityType lookup entity is created, and agreeabilityType property is added to TermsOfUse.
- ProjectTermsOfUseDao is updated to support filtering of terms of use groups by custom agreeability types instead of member agreeable flag.
- Methods for managing terms of use dependencies are added to TermsOfUseDao.

# 1.1 Design Patterns

# 1.1.1 Strategy

TermsOfUseDaoImpl, UserTermsOfUseDaoImpl, ProjectTermsOfUseDaoImpl are Strategies of TermsOfUseDao, UserTermsOfUseDao, ProjectTermsOfUseDao respectively in some external context.

### 1.1.2 DAO/DTO

TermsOfUseDao, UserTermsOfUseDao, ProjectTermsOfUseDao are DAOs for the DTOs TermsOfUse, TermsOfUseAgreeabilityType and TermsOfUseType.

#### 1.2 Industry Standards

SQL JDBC

#### 1.3 Required Algorithms

Please refer to TCUML method doc for details not listed below.

# 1.3.1 Logging

Logging will happen in all public methods, but not in setters/getters.

Method entrance and exit will be logged with DEBUG level.

Entrance format: [Entering method {className.methodName}]

Exit format: [Exiting method {className.methodName}]. Only do this if there are no exceptions.

Method request and response parameters will be logged with DEBUG level

```
Format for request parameters: [Input parameters[{request_parameter_name_1}: { request_parameter_value_1}, {request_parameter_name_2}: { request_parameter_value_2}, etc.)]]
```

Format for the response: [Output parameter {response\_value}]. Only do this if there are n o exceptions and the return value is not void.

All exceptions will be logged at ERROR level, and automatically log inner exceptions as well. Format: Simply log the text of exception: [Error in method {className.methodName}: Det ails {error details}]

Constructors TermsOfUse and TermsOfUseType classes do not require logging. The access to the logger for dao implementations should be done by calling protected getter #getLog().

New methods added in the version 1.1 must perform logging similarly to the existing methods.

# 1.3.2 Database schema update

The following changes must be made to the DDL in the version 1.1 (not modified parts are omitted):

```
create table 'informix'.terms of use (
   terms_of_use_id DECIMAL(10,0) NOT NULL,
    terms text TEXT,
   terms_of_use_type_id DECIMAL(5,0) NOT NULL,
    create date DATETIME YEAR TO FRACTION default CURRENT YEAR TO FRACTION,
   modify date DATETIME YEAR TO FRACTION default CURRENT YEAR TO FRACTION,
   title VARCHAR (50) NOT NULL,
   url VARCHAR (100),
                        cimal(1.0) DEFAITT 1 NOT MITT
   terms of use agreeability type id DECIMAL(5,0) NOT NULL
extent size 512 next size 512
lock mode row;
create table 'informix'.terms of use agreeability type lu (
   terms_of_use_agreeability_type_id DECIMAL(5,0) NOT NULL,
   name VARCHAR(64) NOT NULL,
   description VARCHAR (100) NOT NULL
extent size 16 next size 16
lock mode row;
create table 'informix'.terms of use dependency (
   dependency terms of use id DECIMAL (5,0) NOT NULL,
   dependent terms of use id DECIMAL (5,0) NOT NULL
extent size 500 next size 250
lock mode row;
alter table 'informix'.terms_of_use_agreeability_type_lu add constraint primary key
    (terms of use agreeability type id)
   constraint terms of use agreeability type lu pk;
alter table 'informix'.terms of use dependency add constraint primary key
    (dependency terms of use id, dependent terms of use id)
   constraint terms of use dependency pk;
alter table 'informix'.terms of use add constraint foreign key
    (terms_of_use_agreeability_type_id)
   references 'informix'.terms of use agreeability_type_lu
    (terms of use agreeability type id)
   constraint terms_of_use_terms_of_use_agreeability_type_fk;
alter table 'informix'.terms of use dependency add constraint foreign key
    (dependency_terms_of_use_id)
    references 'informix'.terms of use
    (terms of use id)
   constraint terms of use dependency fk;
alter table 'informix'.terms of use dependency add constraint foreign key
   (dependent terms of use id)
   references 'informix'.terms of use
    (terms of use id)
   constraint terms of use dependent fk;
```

The full updated DDL is can be found in 01\_common\_oltp\_main\_schema.sql and 03 common oltp constraints and indexes.sql files provided together with this specification.

# 1.4 Component Class Overview

#### TermsOfUse:

This class defines simple entity of terms of use. It is associated with the database table terms\_of\_use. It provides model fields and getters/setters for them.

Changes in 1.1:

- Removed properties memberAgreeable and electronicallySignable.
- Added agreeabilityType property.

## TermsOfUseAgreeabilityType:

This class defines simple entity of terms of use agreeability type. It provides model fields and getters/setters for them.

## TermsOfUseType:

This class defines simple entity of terms of use type. It provides model fields and getters/setters for them.

#### TermsOfUseDao:

This interface defines the dao for manipulating the TermsOfUse entities together with their dependencies, and TermsOfUseType entities. It simply provides CRUD operations on this entity and retrieval operation by the terms of use type. It also provides retrieval and update operation for terms of use type, and create/retrieve/delete operations for terms of use dependencies.

Changes in 1.1:

- Added methods for managing terms of use dependencies.
- Updated @throws doc of createTermsOfUse() and updateTermsOfUse() methods to support newly added TermsOfUse#agreeabilityType property.

### UserTermsOfUseDao:

This interface defines the dao for manipulating the TermsOfUse to User links. It simply provides CRUD operations on the links and several helper operations whether user has specific user terms or ban for them.

#### ProjectTermsOfUseDao:

This interface defines the dao for manipulating the TermsOfUse to Project links. It simply provides create/delete and search operations on the links.

Changes in 1.1:

- getTermsOfUse() method was updated to support filtering of terms of use groups by custom agreeability types instead of member agreeable flag.

# BaseTermsOfUseDao:

This class is the base class defined for the daos of this component. It simply provides common logger, database connection factory and id generator. The subclasses access these fields by protected getters.

#### TermsOfUseDaoImpl:

This class is the default implementation of TermsOfUseDao. It utilizes the DB Connection Factory to get access to the database. The configuration is done by the Configuration API.

Changes in 1.1:

- Added methods for managing terms of use dependencies.
- Updated queries to support removal of memberAgreeable and electronicallySignable properties of TermsOfUse.
- Updated queries to support adding of TermsOfUse#agreeabilityType property.

# **UserTermsOfUseDaoImpl:**

This class is the default implementation of UserTermsOfUseDao. It utilizes the DB Connection Factory to get access to the database. The configuration is done by the Configuration API.

Changes in 1.1:

- Updated queries to support removal of memberAgreeable and electronicallySignable properties of TermsOfUse.
- Updated queries to support adding of TermsOfUse#agreeabilityType property.

#### ProjectTermsOfUseDaoImpl:

This class is the default implementation of ProjectTermsOfUseDao. It utilizes the DB Connection Factory to get access to the database. The configuration is done by the Configuration API.

Changes in 1.1:

- getTermsOfUse() method was updated to support filtering of terms of use groups by custom agreeability types instead of member agreeable flag.

# Helper:

This is a helper class for the component. It provides useful common methods for all the classes in this component.

Changes in 1.1:

- Updated getTermsOfUse() to support removed and new TermsOfUse properties.

## 1.5 Component Exception Definitions

## TermsOfUseDaoException:

This exception is thrown, when any exception occurred while executing the dao operations.

### TermsOfUsePersistenceException:

This exception is thrown, when any generic exception occurred with persistence.

# EntityNotFoundException

This exception is thrown, when the entity in the database is not found.

# **UserBannedException:**

This exception is thrown, when user was banned to perform specific operation.

# TermsOfUseDaoConfigurationException:

This exception is thrown, when there is any problem with the configuration of the component. It is thrown in the constructors of the dao implementations.

# TermsOfUseCyclicDependencyException:

This exception is thrown, when the caller tries to create a terms of use dependency loop.

## TermsOfUseDependencyNotFoundException:

This exception is thrown, when dependency between two terms of use specified by the caller doesn't exist.

# 1.6 Thread Safety

The component is thread - safe. The configuration of DAO implementations is done in constructor in thread – safe manner. The initialized parameters are never changed. DAO implementations are immutable and thread – safe, the usage of database connection factory and id generator is thread – safe. The entities in this component are not thread – safe, but only the entity instances are shared only to one thread. Under these conditions the components is thread – safe.

Thread safety of this component was not changed in the version 1.1.

TermsOfUseDaoImpl#createDependencyRelationship() method is made synchronized to avoid creation of cyclic dependency by calling this method from multiple threads at a time.

# 2. Environment Requirements

## 2.1 Environment

Development language: Java 1.5

Compile target: Java 1.5

# 2.2 TopCoder Software Components

Base Exception 2.0 – used to define exceptions in the component

Configuration API 1.0 – used for configuration in the component

**DB Connection Factory 1.1** – used for obtaining connection to the database

**ID Generator 3.0** – is used for id generation.

Logging Wrapper 1.2 – used for logging

# 2.3 Third Party Components

None

# 3. Installation and Configuration

# 3.1 Package Name

com.cronos.termsofuse.model com.cronos.termsofuse.dao com.cronos.termsofuse.dao.impl

# 3.2 Configuration Parameters

Configuration for UserTermsOfUseDao, ProjectTermsOfUseDao:

Name	Description	Value
dbConnectionFactoryConfi g	The configuration for DBConnectionFactoryImpl, used to obtain connection to the database.	com.topcoder.configuration .ConfigurationObject. It cannot be null. Required.
loggerName	The logger name used to perform logging.	java.lang.String. It cannot be null. Required

# Configuration for TermsOfUseDao:

Name	Description	Value
dbConnectionFactoryConfi g	The configuration for DBConnectionFactoryImpl, used to obtain connection to the database.	com.topcoder.configuration .ConfigurationObject. It cannot be null. Required.
loggerName	The logger name used to perform logging.	java.lang.String. It cannot be null. Required
idGeneratorName	The id name to generate ids for the entities.	java.lang.String. It cannot be null. Required.

# 3.3 Dependencies Configuration

None

# 4. Usage Notes

# 4.1 Required steps to test the component

- Extract the component distribution.
- Follow Dependencies Configuration.
- Setup Informix database "common\_oltp":
  - a. Run test\_files/DBSetup.sql to create the tables.
  - b. Update test files/config.xml and

test\_files/com/topcoder/db/connectionfactory/DBConnectionFactoryImpl.xml if needed.

Execute 'ant test' within the directory that the distribution was extracted to.

# 4.2 Required steps to use the component

Please see the demo.

### 4.3 Demo

### 4.3.1 Sample Configuration

The sample configuration file for database connection and logging is provided below <CMConfig>

```
<Config name="termsOfUseDao">
 <Property name="dbConnectionFactoryConfig">
  <Property name="com.topcoder.db.connectionfactory.DBConnectionFactoryImpl">
   <Property name="connections">
     <Property name="default">
       <Value>InformixJDBCConnection</Value>
     </Property>
     <Property name="InformixJDBCConnection">
       <Property name="producer">
         <Value>com.topcoder.db.connectionfactory.producers.JDBCConnectionProducer</Value>
       </Property>
       <Property name="parameters">
         <Property name="jdbc_driver">
         <Value>com.informix.jdbc.lfxDriver</Value>
         </Property>
         <Property name="jdbc_url">
            <Value>
              jdbc:informix-sqli:// localhost:1526/common_oltp:informixserver=ol_topcoder
         </Property>
         <Property name="user">
            <Value>informix</Value>
         </Property>
         <Property name="password">
           <Value>123456</Value>
         </Property>
       </Property>
     </Property>
   </Property>
  </Property>
 </Property>
 <Property name="loggerName">
   <Value>loggerName</Value>
 <Property name="idGeneratorName">
   <Value>idGenerator</Value>
 </Property>
</Config>
<Config name="userTermsOfUseDao">
 <Property name="dbConnectionFactoryConfig">
  <Property name="com.topcoder.db.connectionfactory.DBConnectionFactoryImpl">
   <Property name="connections">
     <Property name="default">
       <Value>InformixJDBCConnection</Value>
     </Property>
     <Property name="InformixJDBCConnection">
       <Property name="producer">
         <Value>com.topcoder.db.connectionfactory.producers.JDBCConnectionProducer</Value>
       </Property>
       <Property name="parameters">
         <Property name="jdbc_driver">
         <Value>com.informix.jdbc.lfxDriver</Value>
         </Property>
         <Property name="idbc url">
            <Value>
              jdbc:informix-sqli:// localhost:1526/common_oltp:informixserver=ol_topcoder
           </value>
         </Property>
         <Property name="user">
            <Value>informix</Value>
         </Property>
         <Property name="password">
           <Value>123456</Value>
         </Property>
       </Property>
     </Property>
   </Property>
```

```
</Property>
  </Property>
  <Property name="loggerName">
    <Value>loggerName</Value>
  </Property>
 </Config>
 <Config name="projectTermsOfUseDao">
  <Property name="dbConnectionFactoryConfig">
   <Property name="com.topcoder.db.connectionfactory.DBConnectionFactoryImpl">
    <Property name="connections">
      <Property name="default">
        <Value>InformixJDBCConnection</Value>
      </Property>
      <Property name="InformixJDBCConnection">
        <Property name="producer">
          <Value>com.topcoder.db.connectionfactory.producers.JDBCConnectionProducer</Value>
        </Property>
         <Property name="parameters">
           <Property name="jdbc_driver">
           <Value>com.informix.jdbc.lfxDriver</Value>
           </Property>
           <Property name="jdbc_url">
               jdbc:informix-sqli:// localhost:1526/common_oltp:informixserver=ol_topcoder
             </Value>
           </Property>
           <Property name="user">
             <Value>informix</Value>
           </Property>
           <Property name="password">
            <Value>123456</Value>
          </Property>
        </Property>
      </Property>
    </Property>
   </Property>
  </Property>
  <Property name="loggerName">
    <Value>loggerName</Value>
  </Property>
 </Config>
</CMConfig>
```

Consider the following data is presented in the database (the create\_date and modify\_date are omitted for simplicity):

# terms of use agreeability type lu:

terms_of_use_agreeability_type_lu	name	description
1	Non-agreeable	Non-agreeable
2	Non-electronically-agreeable	Non-electronically-agreeable
3	Electronically-agreeable	Electronically-agreeable

#### terms of use:

terms _of_u	terms_tex t	terms_of _use_ty	title	url	terms_of_us e_agreeabilit
se_id		pe_id			y_type_id
1	text1	1	t1	url1	2
2	text2	1	t2	url2	1
3	text3	1	t3	url3	1
4	text4	2	t4	url4	3

#### user terms of use xref:

user_id	terms_of_use_id
1	1
1	2

2	1
3	3

# user\_terms\_of\_use\_ban\_xref:

user_id	terms_of_use_id
1	3
2	4
3	4

#### project role terms of use xref:

projec t_id	resource_ role_id	terms_of _use_id	sort_order	group _ind
1	1	1	1	0
1	1	2	2	0
1	1	3	3	0
1	2	1	1	1
2	1	2	1	2

# 4.3.2 Sample Component Usage

This demo shows the usage of daos and sample results.

// Create the configuration object

ConfigurationObject configurationObject = TestsHelper.getConfig(TestsHelper.CONFIG\_TERMS);

// Instantiate the dao implementation from configuration defined above

TermsOfUseDao termsOfUseDao = new TermsOfUseDaoImpl(configurationObject);

// Create simple TermsOfUse to persist

TermsOfUse terms = new TermsOfUse();

terms.setTermsOfUseTypeId(3);

terms.setTitle("t5");

terms.setUrl("url5");

TermsOfUseAgreeabilityType nonAgreeableType = new TermsOfUseAgreeabilityType();

nonAgreeableType.setTermsOfUseAgreeabilityTypeId(1);

terms.setAgreeabilityType(nonAgreeableType);

// Persist the TermsOfUse

terms = termsOfUseDao.createTermsOfUse(terms, "");

# The terms\_of\_use contents should be the following:

terms _of_u se_id	terms_tex t	terms_of _use_ty pe_id	title	url	terms_of_us e_agreeabilit y_type_id
1	text1	1	t1	url1	2
2	text2	1	t2	url2	1
3	text3	1	t3	url3	1
4	text4	2	t4	url4	3
5		3	t5	url5	1

// Set terms of use text

termsOfUseDao.setTermsOfUseText(terms.getTermsOfUseId(), "text5");

# The terms\_of\_use contents should be the following:

terms _of_u se_id	terms_tex t	terms_of _use_ty pe_id	title	url	terms_of_us e_agreeabilit y_type_id
1	text1	1	t1	url1	2
2	text2	1	t2	url2	1
3	text3	1	t3	url3	1

4	text4	2	t4	url4	3
5	text5	3	t5	url5	1

// Get terms of use text. This will return "text5".

String termsOfUseText = termsOfUseDao.getTermsOfUseText(terms.getTermsOfUseId());

// Update some information for TermsOfUse

TermsOfUseAgreeabilityType electronicallyAgreeableType = new TermsOfUseAgreeabilityType(); electronicallyAgreeableType.setTermsOfUseAgreeabilityTypeId(3); terms.setAgreeabilityType(electronicallyAgreeableType);

// And update the TermsOfUse terms = termsOfUseDao.updateTermsOfUse(terms);

# The terms of use contents should be the following:

terms _of_u se_id	terms_tex t	terms_of _use_ty pe_id	title	url	terms_of_us e_agreeabilit y_type_id
1	text1	1	t1	url1	2
2	text2	1	t2	url2	1
3	text3	1	t3	url3	1
4	text4	2	t4	url4	3
5	text5	3	t5	url5	3

// Retrieve some terms of use. The third row will be returned terms = termsOfUseDao.getTermsOfUse(3);

// terms.getAgreeabilityType().getTermsOfUseAgreeabilityTypeId() must be 1 // terms.getAgreeabilityType().getName() must be "Non-agreeable"

// Delete terms of use termsOfUseDao.deleteTermsOfUse(5);

# The terms\_of\_use contents should be the following:

terms	terms_tex	terms_of	title	electronicall	url	terms_of_us
_of_u se id	t	_use_typ		y_agreeabl		e_agreeabilit
se_id		e_id		е		y_type_id
1	text1	1	t1	0	url1	2
2	text2	1	t2	1	url2	1
3	text3	1	t3	1	url3	1
4	text4	2	t4	0	url4	3

// Retrieve all terms of use. All rows will be returned List<TermsOfUse> allTerms = termsOfUseDao.getAllTermsOfUse();

// Create the following dependency relationships between terms of use with the specified IDs:

// (1) depends on (2)

// (2) depends on (3,4)

// (3) depends on (4)

termsOfUseDao.createDependencyRelationship(1, 2);

termsOfUseDao.createDependencyRelationship(2, 3);

termsOfUseDao.createDependencyRelationship(2, 4);

termsOfUseDao.createDependencyRelationship(3, 4);

## The terms of use dependency contents should be the following:

dependent_terms_of_use_id	dependency_terms_of_use_id
1	2
2	3
2	4
3	4

// Try to make a loop; TermsOfUseCyclicDependencyException must be thrown termsOfUseDao.createDependencyRelationship(4, 1);

```
// Retrieve the dependencies of terms of use with ID=2
List<TermsOfUse> termsOfUseList = termsOfUseDao.getDependencyTermsOfUse(2);
// termsOfUseList.size() must be 2
// termsOfUseList.get(0).getTermsOfUseId() must be 3
// termsOfUseList.get(0).getTermsOfUseTypeId() must be 1
// termsOfUseList.get(0).getTitle() must be "t3"
// termsOfUseList.get(0).getUrl() must be "url3"
// termsOfUseList.get(0).getAgreeabilityType().getTermsOfUseAgreeabilityTypeId() must be 1
// termsOfUseList.get(0).getAgreeabilityType().getName() must be "Non-agreeable"
// termsOfUseList.get(0).getAgreeabilityType().getDescription() must be "Non-agreeable"
// termsOfUseList.get(1).getTermsOfUseId() must be 4
// termsOfUseList.get(1).getTermsOfUseTypeId() must be 2
// termsOfUseList.get(1).getTitle() must be "t4"
// termsOfUseList.get(1).getUrl() must be "url4"
// termsOfUseList.get(1).getAgreeabilityType().getTermsOfUseAgreeabilityTypeId() must be 3
// termsOfUseList.get(1).getAgreeabilityType().getName() must be "Electronically-agreeable"
// termsOfUseList.get(1).getAgreeabilityType().getDescription() must be "Electronically-agreeable"
// Note: the order of elements in termsOfUseList can vary
// Retrieve the dependents of terms of use with ID=2
termsOfUseList = termsOfUseDao.getDependentTermsOfUse(2);
// termsOfUseList.size() must be 1
// termsOfUseList.get(0).getTermsOfUseId() must be 1
// termsOfUseList.get(0).getTermsOfUseTypeId() must be 1
// termsOfUseList.get(0).getTitle() must be "t1"
// termsOfUseList.get(0).getUrl() must be "url1"
// termsOfUseList.get(0).getAgreeabilityType().getTermsOfUseAgreeabilityTypeId() must be 2
// termsOfUseList.get(0).getAgreeabilityType().getName() must be "Non-electronically-agreeable"
// termsOfUseList.get(0).getAgreeabilityType().getDescription() must be "Non-electronically-agreeable"
// Delete the dependency relationship between terms of use with IDs=2,4
termsOfUseDao.deleteDependencyRelationship(2, 4);
```

### The terms of use dependency contents should be the following:

dependent_terms_of_use_id	dependency_terms_of_use_id
1	2
2	3
3	4

// Delete all dependency relationships where terms of use with ID=2 is a dependent termsOfUseDao.deleteAllDependencyRelationshipsForDependent(2);

#### The terms of use dependency contents should be the following:

dependent_terms_of_use_id	dependency_terms_of_use_id
1	2
3	4

// Delete all dependency relationships where terms of use with ID=4 is a dependency termsOfUseDao.deleteAllDependencyRelationshipsForDependency(4);

## The terms of use dependency contents should be the following:

dependent_terms_of_use_id	dependency_terms_of_use_id
1	2

```
// Create the configuration object configurationObject = TestsHelper.getConfig(TestsHelper.CONFIG_USER_TERMS); // Instantiate the dao implementation from configuration defined above UserTermsOfUseDao userTermsOfUseDao = new UserTermsOfUseDaoImpl(configurationObject); // Create user terms of use to user link
```

userTermsOfUseDao.createUserTermsOfUse(3, 2);

### The user terms of use xref contents should be the following:

user_id	terms_of_use_id
1	1

1	2
2	1
3	3
3	2

// Remove user terms of use to user link
userTermsOfUseDao.removeUserTermsOfUse(3, 3);

The user\_terms\_of\_use\_xref contents should be the following:

user_id	terms_of_use_id
1	1
1	2
2	1
3	2

// Retrieve terms of use. This will return user terms with ids 1 and 2. List<TermsOfUse> termsList = userTermsOfUseDao.getTermsOfUseByUserId(1);

// Retrieve users by terms of use. This will return ids 1 and 3. List<Long> userIdsList = userTermsOfUseDao.getUsersByTermsOfUseId(2);

// Check whether user has terms of use. Will return false boolean hasTerms = userTermsOfUseDao.hasTermsOfUse(3, 3);

// Check whether user has terms of use ban. Will return true boolean hasTermsBan = userTermsOfUseDao.hasTermsOfUseBan(1, 3);

// Create the configuration object

configurationObject = TestsHelper.getConfig(TestsHelper.CONFIG\_PROJECT\_TERMS);

// Instantiate the dao implementation from configuration defined above

ProjectTermsOfUseDao projectTermsOfUseDao = new ProjectTermsOfUseDaoImpl(configurationObject);

// Create user terms of use to project link projectTermsOfUseDao.createProjectRoleTermsOfUse(2, 2, 3, 2, 0);

The project\_role\_terms\_of\_use\_xref contents should be the following:

projec t_id	resource_ role_id	terms_of _use_id	sort_order	group _ind
1	1	1	1	0
1	1	2	2	0
1	1	3	3	0
1	2	1	1	1
2	1	2	1	2
2	2	3	2	0

// Remove user terms of use to project link projectTermsOfUseDao.removeProjectRoleTermsOfUse(2, 2, 3, 0);

The project role terms of use xref contents should be the following:

projec t_id	resource_ role_id	terms_of _use_id	sort_order	group _ind
1	1	1	1	0
1	1	2	2	0
1	1	3	3	0
1	2	1	1	1
2	1	2	1	2

// Get terms of use with non-member-agreeable terms

// Will return two lists:

// 1st with ids: 1,2,3

```
// 2nd with ids: 1
Map<Integer, List<TermsOfUse>>> termsGroupMap = projectTermsOfUseDao.getTermsOfUse(1, new int[] {1, 2}, null);

// Get terms of use without non-agreeable terms
// Will return one list:
// 1st with ids: 1
termsGroupMap = projectTermsOfUseDao.getTermsOfUse(1, new int[] {1, 2}, new int[] {2, 3});
```

# 5. Future Enhancements

None at the moment