

# OpenMBEE Maintenance Manual

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# 1 OpenMBEE Organization Structure

## 2 Public Server Structure

The structure of the public server consists of model elements from the NoMagic Teamwork Cloud and Alfresco.

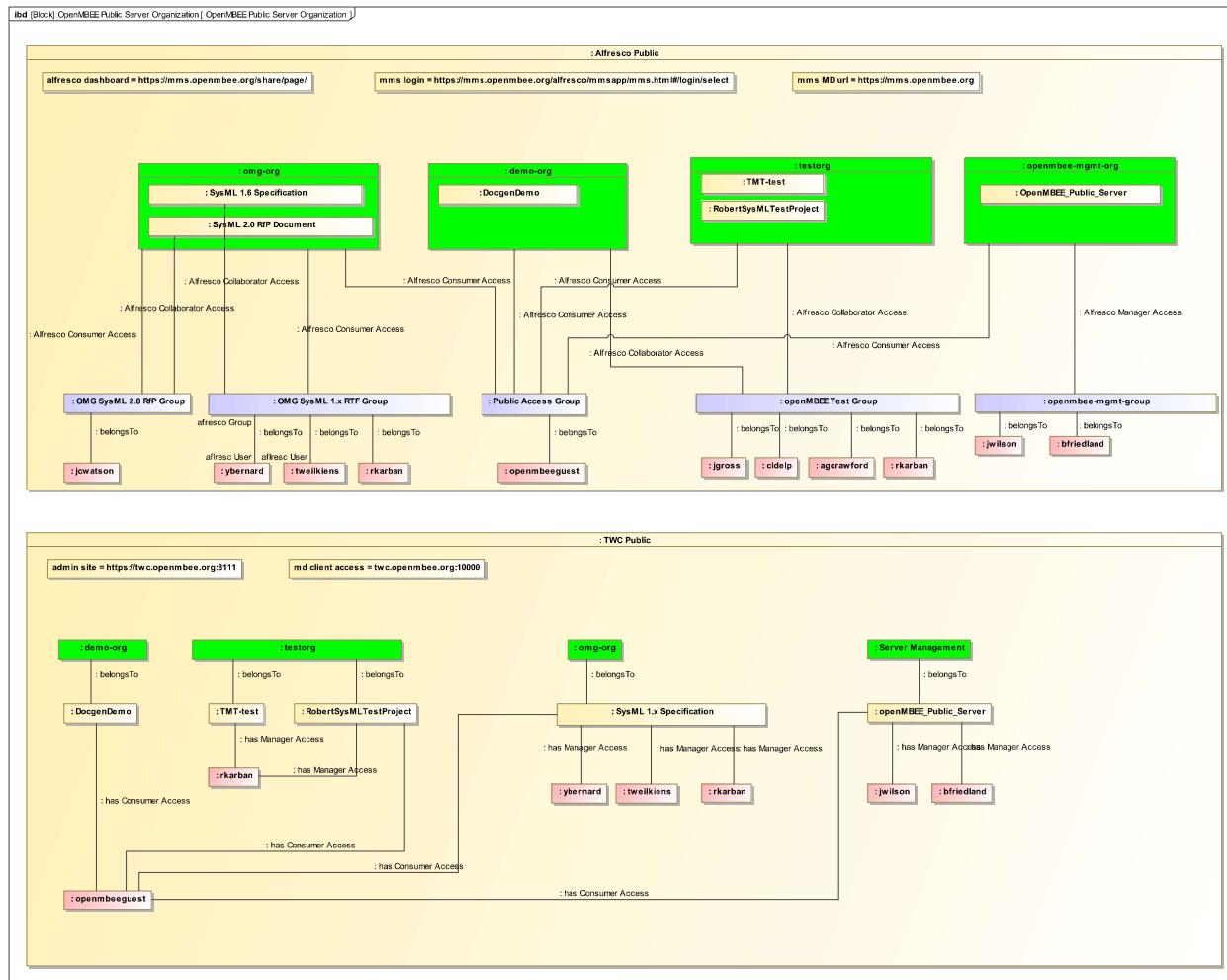


Figure 1. OpenMBEE Public Server Organization

The OpenMBEE Public Server Organization displays the sites, organizations, projects, groups, and users of OpenMBEE for each of the primary components, TWC Public and Alfresco Public. In the Alfresco Public, the Alfresco site, MMS login, and MMS MagicDraw logins are listed. The organizations omg-org, demo-org, and testorg contain SysML projects. The access type can be specified from a group to an organization or projects. For example, the user jcwatson belongs to the OMG SysML 2.0 RfP Group which has Alfresco Consumer Access to the omg-org and Alfresco Collaborator Access to the SysML 2.0 RfP Document. In the TWC Public, the Teamwork Cloud administration site and MagicDraw client server are listed. The contained SysML project DocgenDemo, SysML 1.x Specification, TMT-test, and RobertSysMLTestProject belong to organizations. The users have an association to the SysML projects and are typed by a Teamwork Cloud Access type. For example, the user ybernard and zweikens have Consumer Access to the SysML 1.x Specification project which belongs to the omg-org.

### 2.1 Resources

Access to the NoMagic Teamwork Cloud site:

<https://twc.openmbee.org:8111>

Login to the Public Server in MagicDraw:

1. Select Teamwork Cloud.
2. Enter the server address : [twc.openmbee.org:8080](https://twc.openmbee.org:8080)
3. Don't select SSL
4. Enter account information

## Access to the Alfresco Dashboard:

<https://mms.openmbee.org/share>

## 2.2 Structure

To manage the Public Server the user will navigate between Alfresco and NoMagic's Teamwork Cloud.

### 2.2.1 Alfresco

In Alfresco an administrator can view and manage groups, users, and organizations of the Public Server.

#### 2.2.1.1 Groups

An Alfresco Group specializes the Alfresco Accessor. An Alfresco User can belong to a group, which is denoted by the reference property.

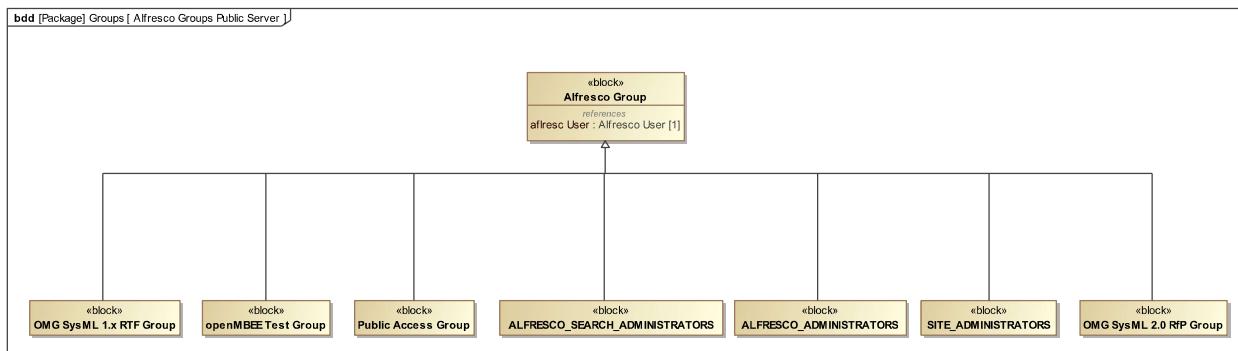


Figure 2. Alfresco Groups Public Server

Currently, the existing groups in Alfresco are the OMG SysML 1.x RTF Group, openMBEE Test Group Public Access Group , ALFRESCO\_SEARCH\_ADMINISTRATORS, SITE\_ADMINISTRATORS, and OMG SysML 2.0 RfP Group.

#### 2.2.1.2 Users

An Alfresco User can belong to a group, and would be modeled as an association between the Alfresco User and Alfresco Group. An association block belongsTo specifies the relation between the two.

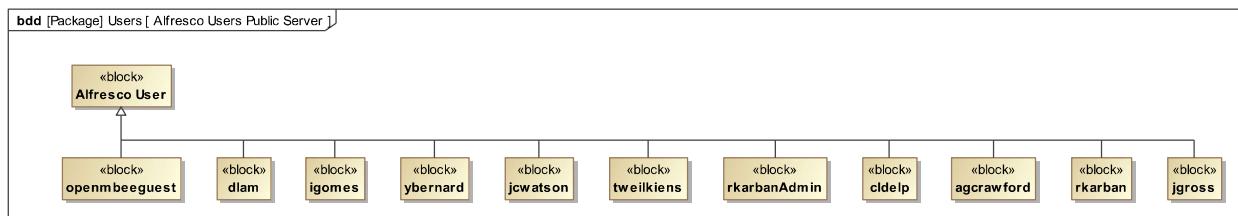


Figure 3. Alfresco Users Public Server

Currently, the existing users in Alfresco for public server are openmbeeguest, dlam, igomes, jcwatson, tweilkiens, and so on. To create/delete/edit users in Alfresco see [Manage Users](#).

#### 2.2.1.3 Organizations

OpenMBEE organizations specialize the Alfresco Site, and are composed of SysML projects. The visibility of sites, organizations, and projects can be controlled by an Accessor depending on the type of access. The organization structure allows for the encapsulation of site, organization, and project visibility. These model elements redefine the value property visibility.

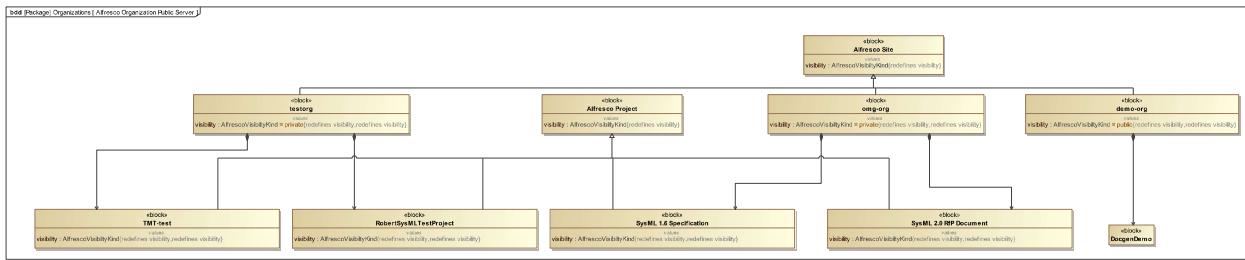


Figure 4. Alfresco Organization Public Server

Currently, the existing organizations in the Alfresco site for the public server are testorg, omg-org, and demo-org. To create a new organization see [Manage Organizations](#). The projects that are contained in these Organizations are TMT-test, RobertSysMLTestProject, SysML 1.6 Specification, SysML 2.0 RfP Document, and DocgenDemo.

## 2.2.2 Teamwork Cloud

The structure of the Teamwork Cloud for the Public Server consists of a TWC User, a TWC Project, a TWC Category, and an association block that specifies the type of Teamwork Cloud access.

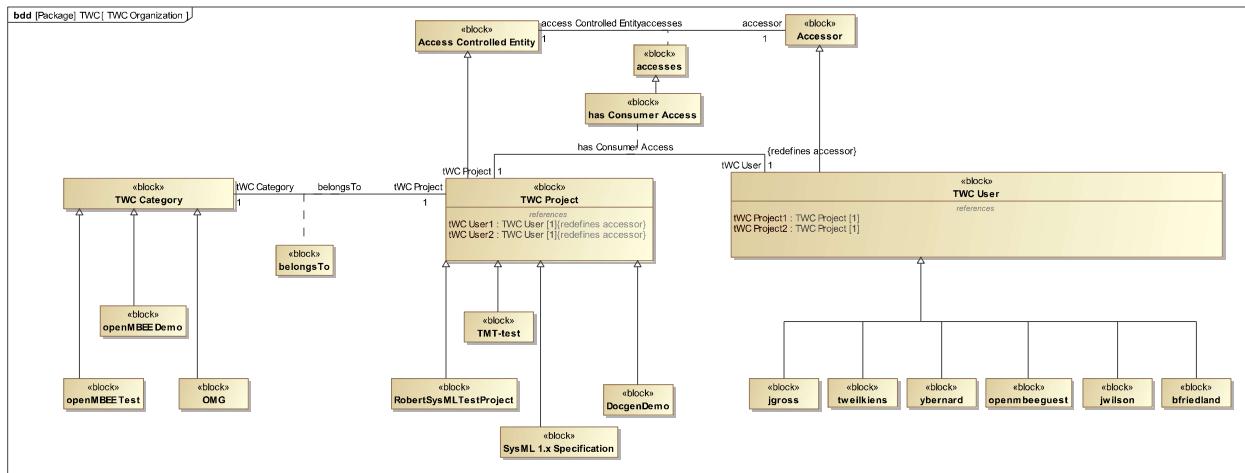


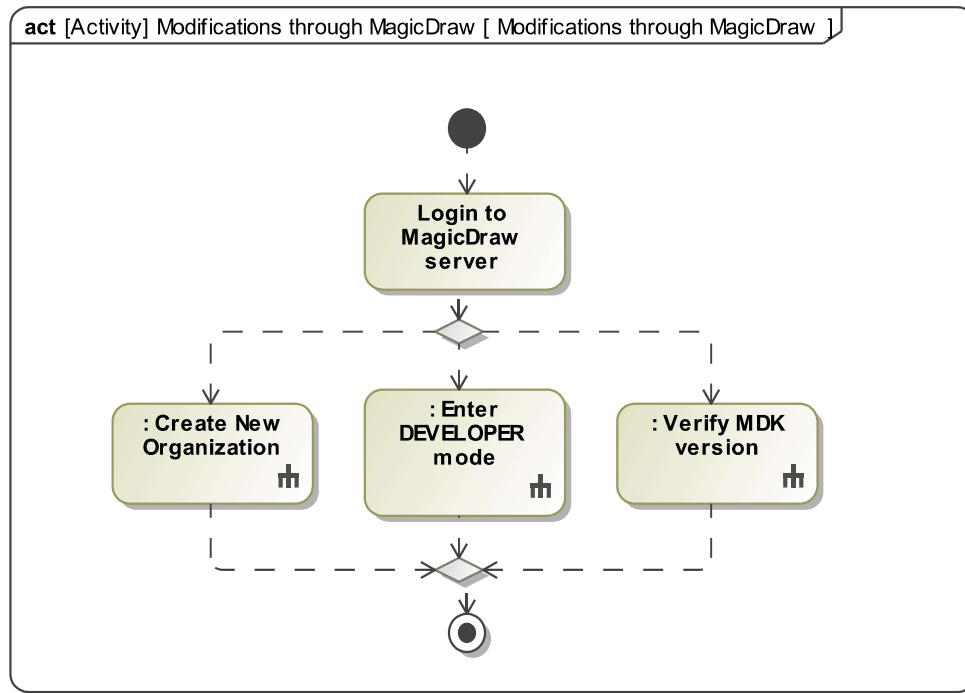
Figure 5. TWC Organization

The TWC Organization diagram displays the relationships between Teamwork Cloud Categories, SysML projects, a Teamwork Cloud user, and project permissions. An example of these relationships can be seen for the Teamwork Cloud user *jgross*. The TWC User has Consumer Access to the TWC Projects TMT-test, RobertSysMLTestProject, DocgenDemo, and SysML 1.x Specification. The projects that *jgross* has consumer access of belong to the TWC Categories openMBEE Demo, OMG, and openMBEE Test.

# 3 OpenMBEE Applications

## 3.1 MagicDraw

NoMagic's MagicDraw is a visual SysML and UML modeling tool with support for collaborative modeling that facilitates model-based systems and software engineering. In the MagicDraw client, users can log into the Teamwork Cloud.



**Figure 6. Modifications through MagicDraw**

From MagicDraw, the user may need to enter developer mode, verify the MDK version being used, or create a new organization.

### 3.1.1 Create Organization(s)

The user can create a new Organization in MagicDraw by following these actions:

**Table 1. <>**

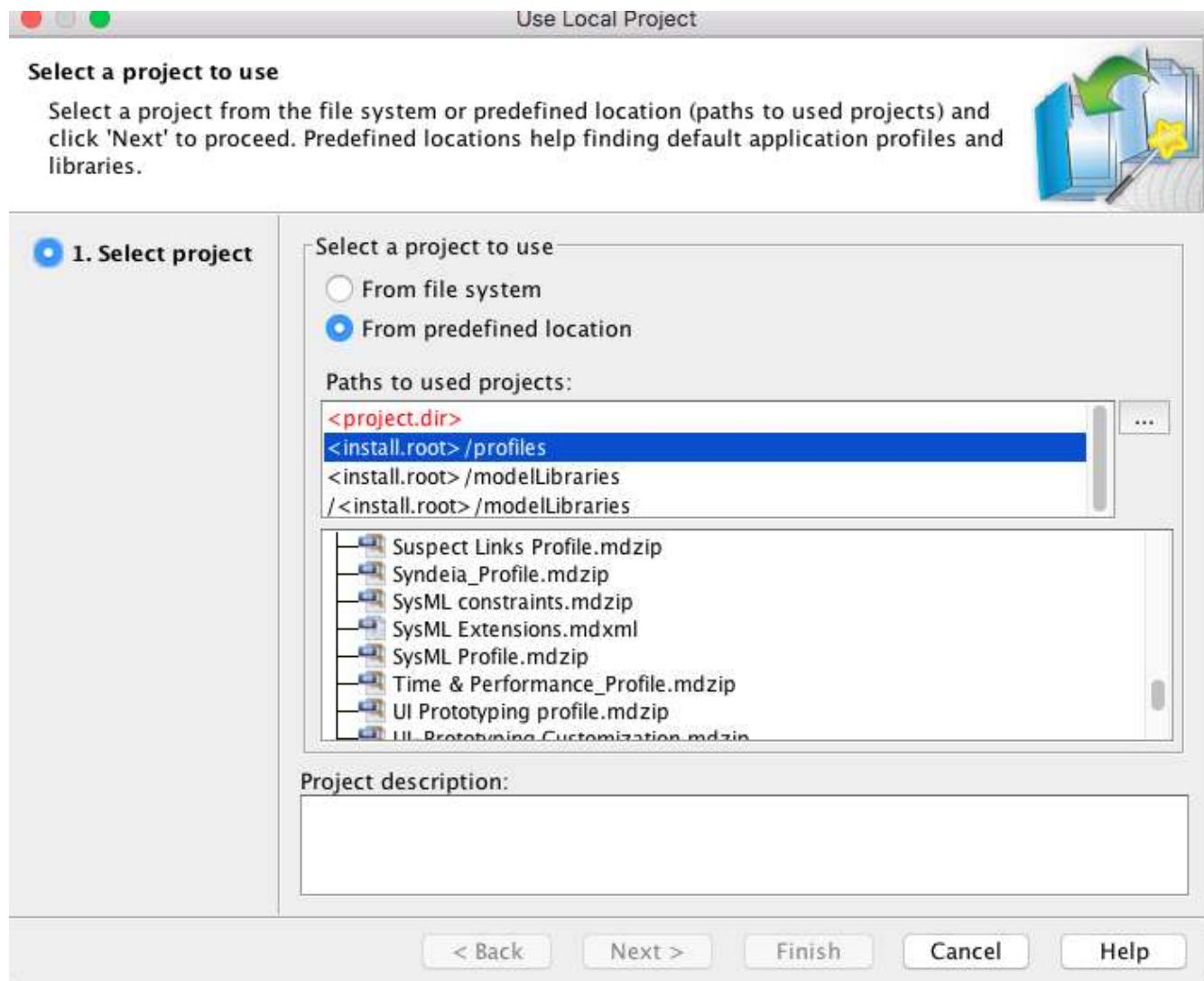
Create New Organization	The complete workflow to create a new Organization consists of opening a MagicDraw project, adding profiles to the project, applying the MMS Stereotype to the root Model element, entering the MMS URL in the Model Specification, logging into MMS, selecting commit project and model, verifying model initialization, updating the root Model element, committing the model to a Teamwork Server, and verifying the organization was created.
Update root Model Element	The user needs to update the root Model element after performing the "Commit Project and Model" action. The organization exists in Alfresco/VE, but the project will not exist. The user must validate and update the Model. To validate the Model, select the root Model Element and select "Validate Models". In the element Validation window, the Model element will show the message MISSING IN CLIENT. Right click on this message and select "Update Element from MMS". After performing this action, the user can verify in the Notification Window that there zero missing elements in the client and MMS.
Commit Project and Model	A key step to creating an organization after specifying the MMS URL is to perform the Commit Project and Model operation. A new window will appear allowing the user to either select an existing organization to store the project or to create a new organization. Select "Create a new org..." and in the following window type the name of the organization.

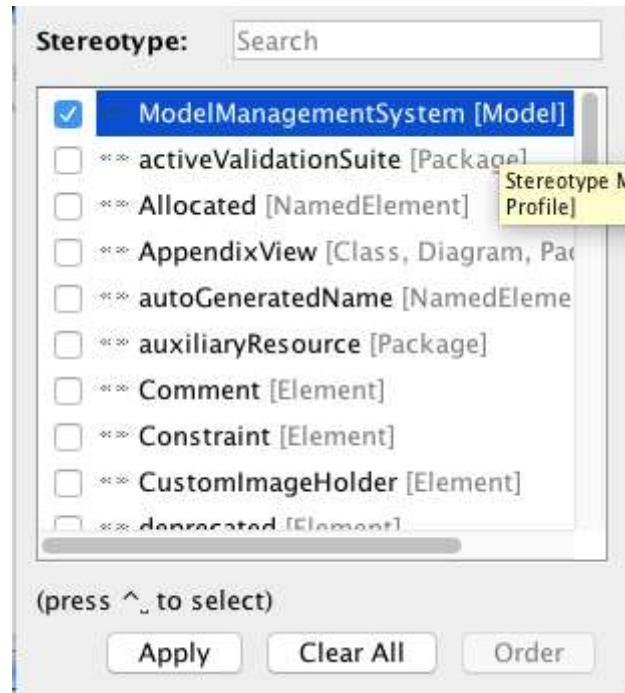
Apply MMS Stereotype to root Model element	The MMS stereotype must be applied to the root Model element in order to create an organization. To apply the MMS Stereotype to the root Model element, the user should right click on the Model and select "Stereotype". In the next window the user should search for and select the stereotype <<Model Management System>>.
Add Profiles to Project	A user may begin the process of trying to create an organization and find that they are unable to apply the stereotype <<ModelManagementSystem>>. The reason for this is that the project doesn't use the SysML Extensions Profile. The user can verify that it is not used in the project by opening Project Usages and searching for the Profile. To add the SysML Extensions Profile, the user should select "File", "Use Project", and "Use Local Project". In this next window the user should have the path <install.root>/profiles selected and search for SysML Extensions.mdzip below. The user should select "Finish" afterwards. After adding the Profile the user can continue the process for creating an Organization.
Commit Org	
Commit Project	

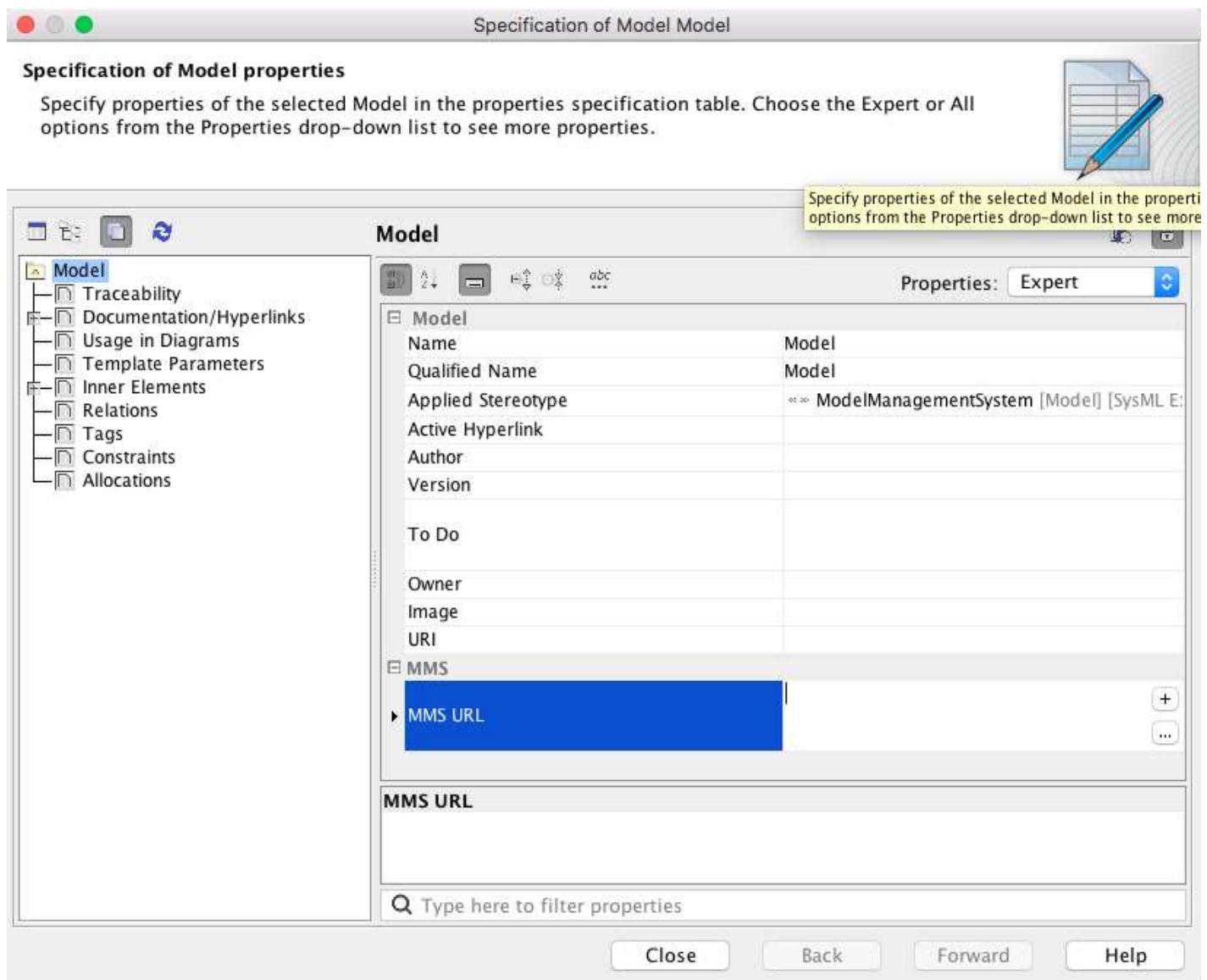
### 3.1.1.1 Workflow Process

To create a new Organization, the following steps (in order) should be performed:

1. Open a new MagicDraw project or a previously existing one.
2. Lock the Model element
3. Add the SysMLExtensions profile to the project



**4. Apply the MMS stereotype to the root Model element****5. Enter MMS URL in the Model element specification**



## 6. Login to MMS



## 7. Verify logged into MMS.

## 8. Commit Changes to Server

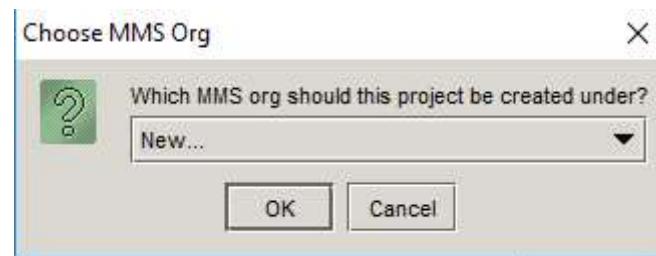
## 9. Confirm in the Coordinate Sync Pre-Condition Validation window for the message "PROJECT MISSING ON MMS".

Coordinated Sync Pre-Condition Validation				
Element	Severity	Abbre...	Message	Is Ignored
ValidationSuiteSubstitute └ Model	error		[PROJECT MISSING ON MMS] The project does not exist in the MMS.	Not Ignored

10. Commit Project and Model. Right click the "PROJECT MISSING ON MMS" message and select Commit Project and Model.

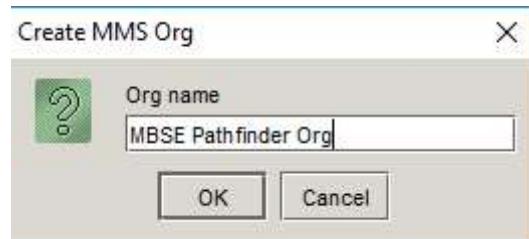
11. Choose MMS Org. Create a new Org or select an existing Org to add the project to.

- a) Create a new Org. Select the drop down and select "New...".



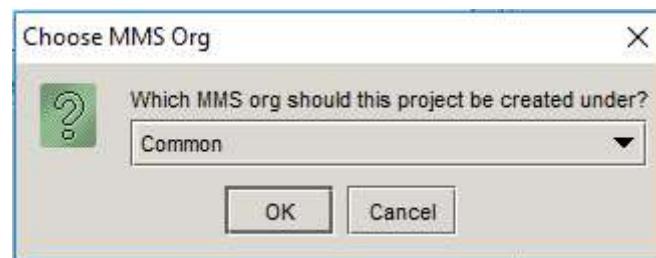
Select OK.

Enter the Org name



Select OK.

- b) Add to existing Org. Select the drop down and locate the org to add the project to. Select OK.



12. Update Model element from MMS. Right click the Model element and select "Validate Models". Right click the "MISSING IN CLIENT" message and select "Update element from MMS"

Element Validation				
Element	Severity	Abbre...	Message	Is Ignored
ValidationSuiteSubstitute └ Model	error		[MISSING IN CLIENT] Package Holding Bin	Not Ignored

```
[2018.03.08::09:51:12] [INFO] 1 element is missing in client.
[2018.03.08::09:51:12] [INFO] 0 elements are missing on MMS.
[2018.03.08::09:51:12] [INFO] 0 elements are not equivalent between client and MMS.
[2018.03.08::09:51:12] [INFO]--- End Element Validation Summary ---
```

- 13. Commit Model element to MMS.** Right click the Model element and select "Validate Models". Right click the "NOT EQUIVALENT" message and select "Commit element to MMS".



Element	Severity	Abb...	Message	Is Ignored
ValidationSuiteSubstitute				
Holding Bin	error		[NOT EQUIVALENT] Package Holding Bin	Not Ignored

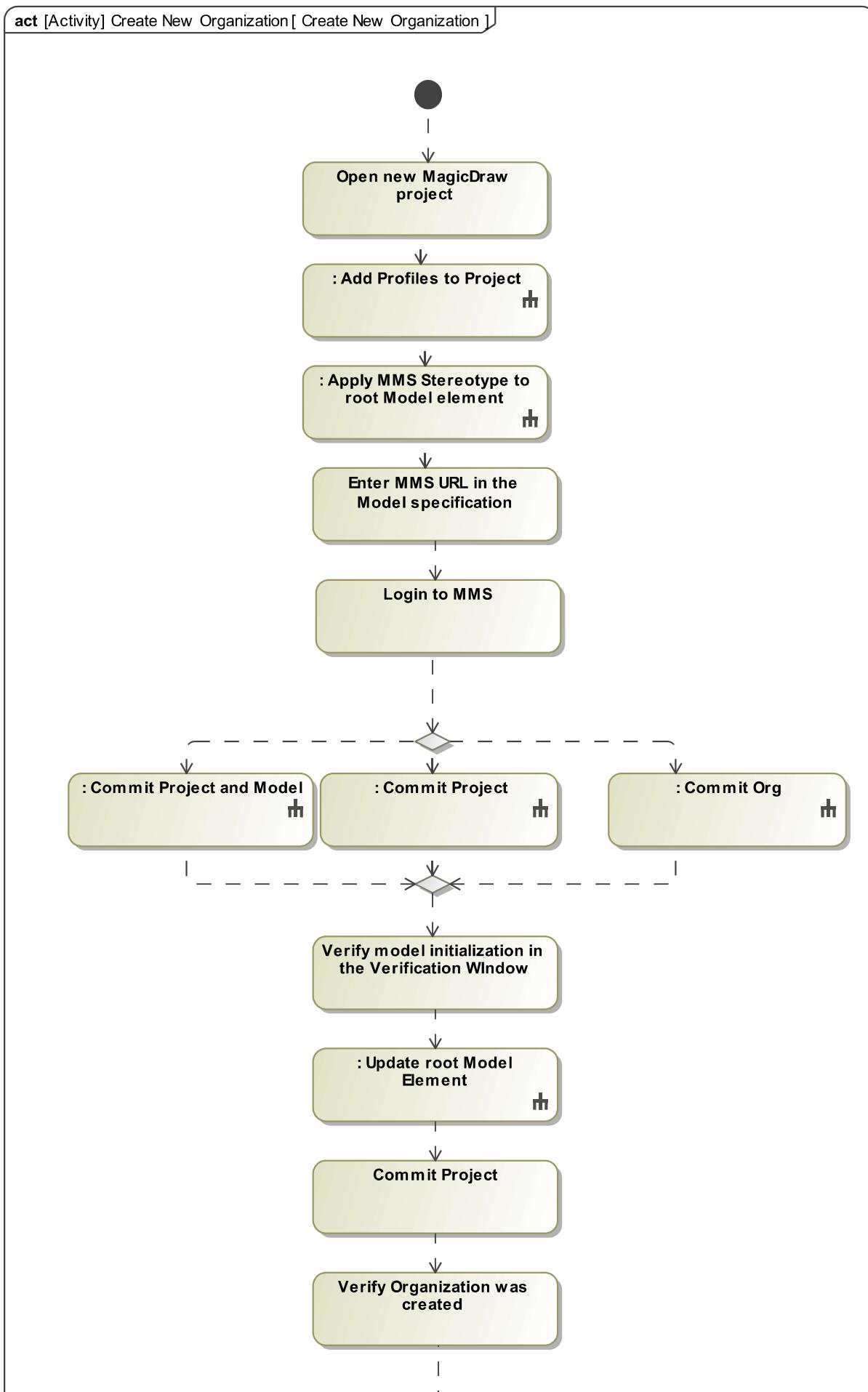
```
[2018.03.08::09:57:23] [INFO] --- Start Element Validation Summary ---
[2018.03.08::09:57:23] [INFO] 0 elements are missing in client.
[2018.03.08::09:57:23] [INFO] 0 elements are missing on MMS.
[2018.03.08::09:57:23] [INFO] 1 element is not equivalent between client and MMS.
[2018.03.08::09:57:23] [INFO] --- End Element Validation Summary ---
```

#### 14. Commit Changes to Server

- 15. Open new project in ViewEditor.** Navigate to <https://mms.openmbee.org>. Select the new project that had been created. This project will either be located under a new org that had been created or under an existing org. Select "Continue". The user will be directed to the cover page of the project.

- 16 Commit Changes to Server.** Navigate to the project in MagicDraw and select "Update Project". After selecting Update Project, the cover page generation that was completed in step 15 will be pulled in to the model. Select "Commit Project to Server".

#### 17. Unlock all elements.



### Figure 7. Create New Organization

The complete workflow to create a new Organization consists of opening a MagicDraw project, adding profiles to the project, applying the MMS Stereotype to the root Model element, entering the MMS URL in the Model Specification, logging into MMS, selecting commit project and model, verifying model initialization, updating the root Model element, committing the model to a Teamwork Server, and verifying the organization was created.

## 3.1.2 MDK Plug-in

The MDK Plug-in for MagicDraw is required to sync a MagicDraw model with MMS. In order to create an Organization in MagicDraw the following pre-conditions must be met:

To download the MDK plug-in visit [JFrog](#).

**Table 2. <>**

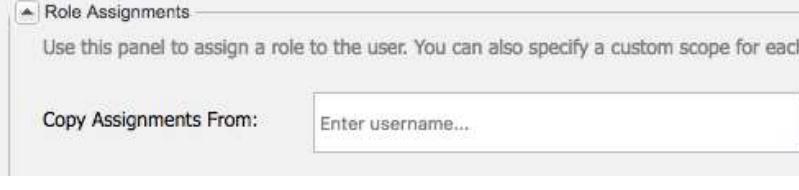
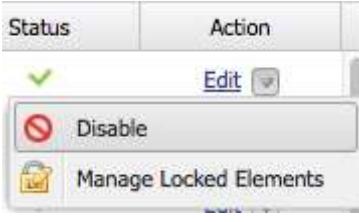
Enter DEVELOPER mode	To configure the user's MagicDraw for DEVELOPER mode, the user should open the magicdraw.properties folder from their MagicDraw installation folder. This can be done by navigating to their installation folder, selecting the bin folder, and opening the magicdraw.properties folder in their preferred text editor. The user should find the line of the text that says APP_ARGS=. The user should add DEVELOPER. It should then read APP_ARGS= DEVELOPER.
Verify MDK version	In order to create a new Organization the user must be using MDK 3.0.0. To verify which version the user is currently using they should navigate to the "Help" window of MagicDraw. Select "Resource/Plugin Manager". In the "Plugins (no cost)" section the user should search for the Model Development Kit version. If it isn't MDK 3.0.0 the user should install the correct version.

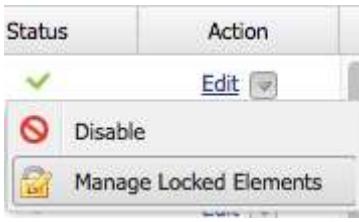
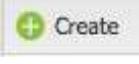
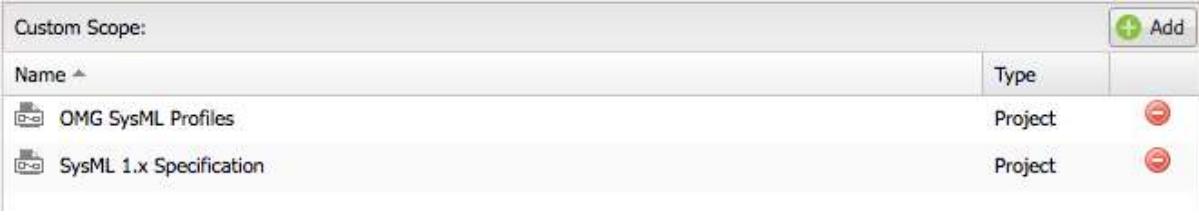
## 3.2 Teamwork Cloud

A key component of OpenMBEE is NoMagic's Teamwork Cloud where the user can manage project users, roles, repositories, and projects. The user must have a Teamwork account to log into the server prior to opening MagicDraw.

### 3.2.1 Manage Users

**Table 3. <>**

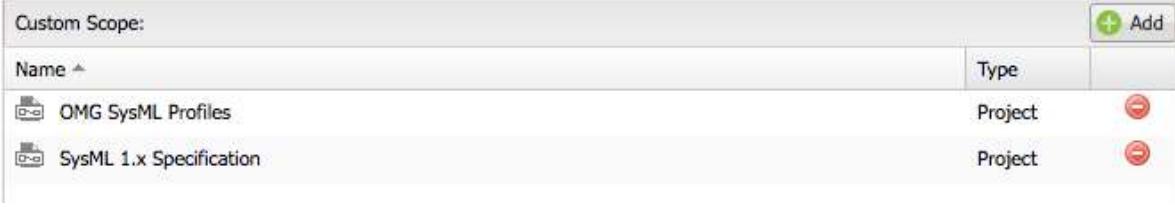
Copy Role Assignments	Instead of specifying a new role assignment, the user has the option to copy a previously existing role assignment. This can be done by entering the user's username whose roles are to be copied. The user can then verify that the roles have been assigned. 
Import New User	In the User tab, the administrator choose to import a new user. This can be done by selecting the "Import" button. In the following window the administrator can search by username for the user to be imported. The administrator can choose to copy assignments of an existing user or select an existing role. If an existing role is created, a custom scope can be created. To complete the import the administrator must select "Import/Resync".
Disable User	The administrator is unable to delete an existing user. Instead they can choose to disable the user account. To disable a user, they should navigate to the Users window and search for the user to be disabled. In the "Action" column, the user should select the drop down arrow and select "Disable User". Select "Yes" for confirmation. 

Edit Existing User	If the administrator wants to edit the account of an existing user they can navigate to the User tab of Teamwork Cloud. After navigating to the user whose account is to be edited, the user should select the "Edit" action. In the following window the user can choose to either change the existing Role Assignments or manage locked elements. If the user wants to change Role Assignments they should select the new roles to assign to the user. Additionally, they can create a custom scope for the new roles they assigned. Another option is for the administrator to copy existing role assignments. To save any changes that have been made the administrator must select "Save".  
Manage Locked Elements	If the administrator wants to manage the locked elements of a user, they should navigate to the User tab, search for the user, and select "Manage Locked Elements" from the drop down. The administrator can choose to either release all locked elements/projects or individual projects. The administrator must select "Finish".  
Create New User	In the User tab of Teamwork Cloud, users can create new user accounts. To create a new account, select the "Create" button. In the following window, the administrator can enter the user's account information (i.e. account name, password, email) and assign roles. The user can assign roles by either copying assignments of another user or by selecting an existing role. If the user chooses to select an existing role they have the option to a a custom scope. To add a custom scope, select "Add". This will add a resource as a scope for the role. The user can search for a resource and select "Add". To finalize the changes made and to commit the account the user must select "Create".  
Create Custom Scope for the User	After a role has been assigned to a user, a custom scope can be created. This can be done by selecting the assigned role of a user, and selecting the "Add" symbol. All projects the User has access to will be viewable, and the administrator can select "Add" to add the project to the scope. The administrator must select "Add" to confirm the changes.  
Manage Users	The following operations can be performed to manage users in Teamwork Cloud- edit existing user, import new user, and create a new user.

### 3.2.2 Manage Roles

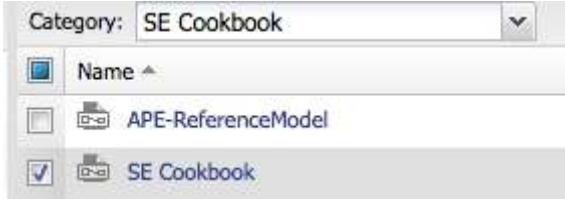
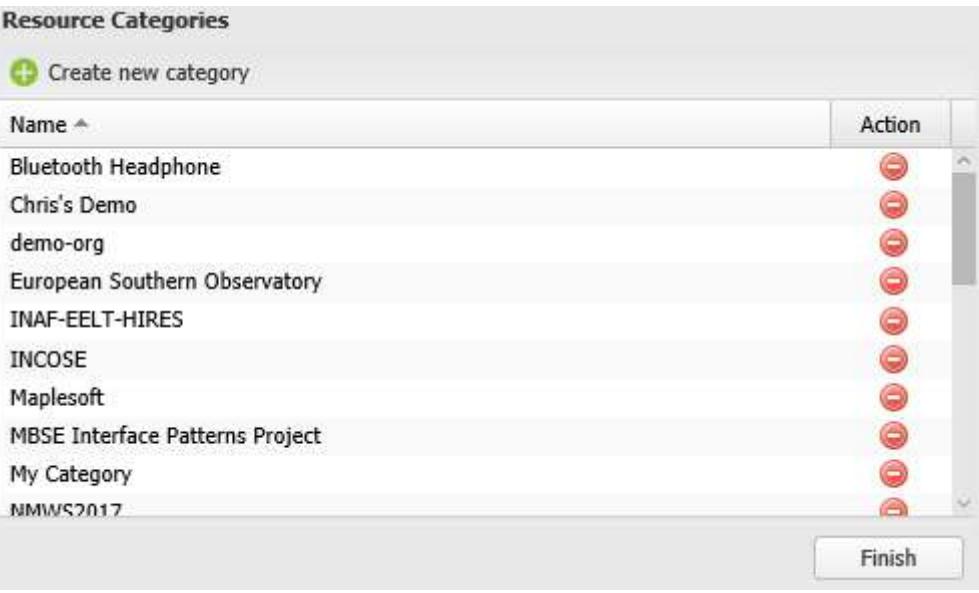
Table 4. <>

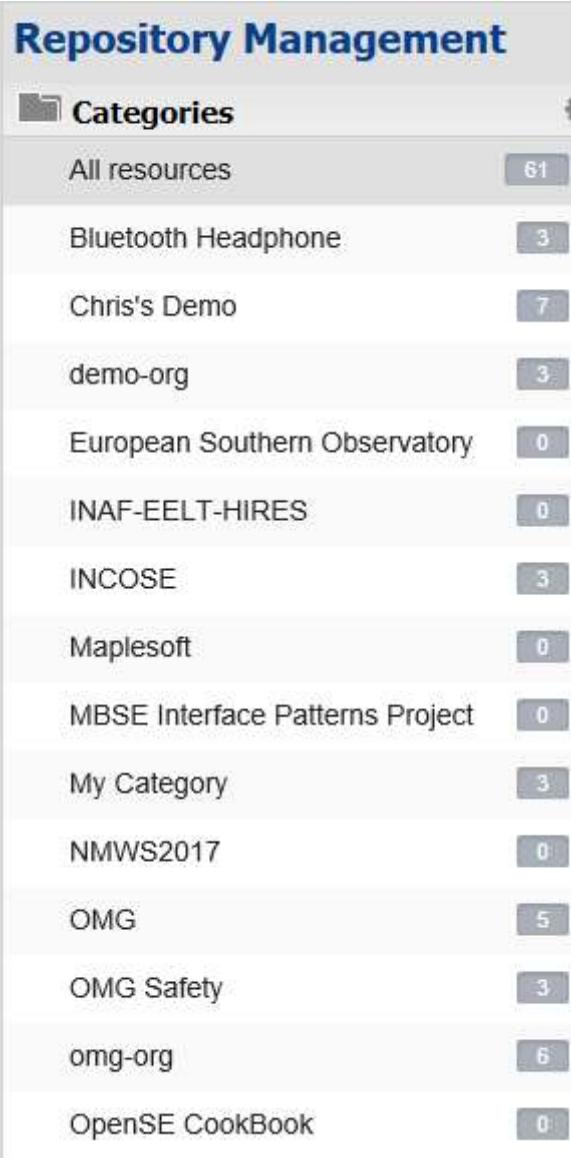
Edit Existing Role	In the Roles tab, the administrator can edit an existing role by changing assigned permissions, changing the role description, or changing the role name. To confirm changes, the administrator must select Save.
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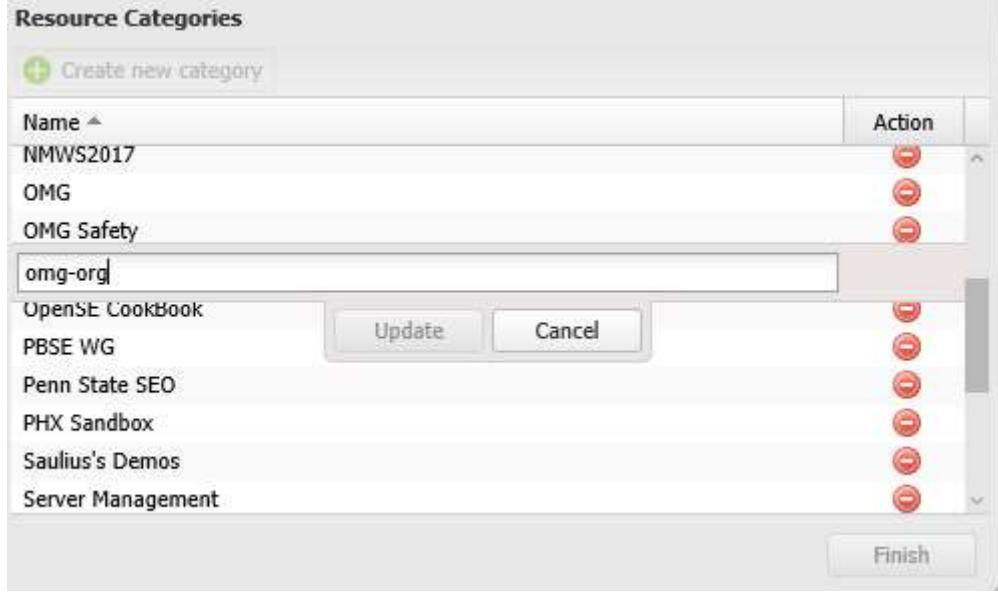
Create New Role	<p>In the Role tab, the administrator can create a new role or copy a role assignment. To create a new role, they should select "Create new role". In this window, the administrator will be required to enter a role name, the option to enter a role description, assign permissions, and add new Role Assignments. To confirm the new role, they should select "Save".</p> 
Change Assigned Permissions	<p>To change a user's assigned permissions, two options are possible. The admin can add a new role assignment or edit existing role assignments. To add a new role assignment the user only needs to select "Add", search for the user from Directories, and confirm this change by selecting "Add". To edit existing role assignments, the user can opt to delete the current role assignments or to create a custom scope for the user.</p>
Add New Role Assignments	<p>The admin can add new role assignments to existing projects by selecting "Add" and selecting the user from Directories.</p> 
Create Custom Scope for the User	<p>After a role has been assigned to a user, a custom scope can be created. This can be done by selecting the assigned role of a user, and selecting the "Add" symbol. All projects the User has access to will be viewable, and the administrator can select "Add" to add the project to the scope. The administrator must select "Add" to confirm the changes.</p> 
Select Copy Role Assignment	<p>If the administrator chooses to copy an existing role assignment they should select "Copy Role Assignment" and choose the source and target users. To confirm the change, they should select "Copy".</p> 
Manage Roles	<p>From the Roles tab of Teamwork Cloud, the administrator can choose to either edit an existing role or to create a new role. These roles will be used for Role Assignment of users.</p>

### 3.2.3 Repositories

Table 5. ◊

Move Projects	<p>To move projects on Teamwork Cloud the user should open the Repository tab, and navigate to the project they wish to move. After they have navigated to the project, the user should select the project and open the "Category" dropdown. Select the new category the project should be moved to. Select "Yes" to confirm the changes, and navigate to the new location for confirmation.</p> 																						
Create/Delete Resource Category	<p>In Repository tab of Teamwork Cloud, the user can create or delete a new category. In the left hand "Categories" section, the user should select the gear symbol. In the following "Resource Categories" window, the user can select the "Create New Category" button. The user can then specify a category name and select "Create". To delete an existing category the user should select the "Delete" symbol in the "Resource Categories" window. However, the user can perform these functions through the MagicDraw client.</p>  <table border="1" data-bbox="398 798 1377 1220"> <thead> <tr> <th>Name</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>Bluetooth Headphone</td> <td>-</td> </tr> <tr> <td>Chris's Demo</td> <td>-</td> </tr> <tr> <td>demo-org</td> <td>-</td> </tr> <tr> <td>European Southern Observatory</td> <td>-</td> </tr> <tr> <td>INAF-EELT-HIRES</td> <td>-</td> </tr> <tr> <td>INCOSE</td> <td>-</td> </tr> <tr> <td>Maplesoft</td> <td>-</td> </tr> <tr> <td>MBSE Interface Patterns Project</td> <td>-</td> </tr> <tr> <td>My Category</td> <td>-</td> </tr> <tr> <td>NMWS2017</td> <td>-</td> </tr> </tbody> </table>	Name	Action	Bluetooth Headphone	-	Chris's Demo	-	demo-org	-	European Southern Observatory	-	INAF-EELT-HIRES	-	INCOSE	-	Maplesoft	-	MBSE Interface Patterns Project	-	My Category	-	NMWS2017	-
Name	Action																						
Bluetooth Headphone	-																						
Chris's Demo	-																						
demo-org	-																						
European Southern Observatory	-																						
INAF-EELT-HIRES	-																						
INCOSE	-																						
Maplesoft	-																						
MBSE Interface Patterns Project	-																						
My Category	-																						
NMWS2017	-																						

Manage Repositories/Projects	<p>In the Repository tab, the user can create/delete resource categories, rename existing categories, or move projects.</p>  <p>The screenshot shows a 'Repository Management' interface with a 'Categories' section. The categories listed are:</p> <table border="1"><thead><tr><th>Category</th><th>Count</th></tr></thead><tbody><tr><td>All resources</td><td>61</td></tr><tr><td>Bluetooth Headphone</td><td>3</td></tr><tr><td>Chris's Demo</td><td>7</td></tr><tr><td>demo-org</td><td>3</td></tr><tr><td>European Southern Observatory</td><td>0</td></tr><tr><td>INAF-EELT-HIRES</td><td>0</td></tr><tr><td>INCOSE</td><td>3</td></tr><tr><td>Maplesoft</td><td>0</td></tr><tr><td>MBSE Interface Patterns Project</td><td>0</td></tr><tr><td>My Category</td><td>3</td></tr><tr><td>NMWS2017</td><td>0</td></tr><tr><td>OMG</td><td>5</td></tr><tr><td>OMG Safety</td><td>3</td></tr><tr><td>omg-org</td><td>6</td></tr><tr><td>OpenSE CookBook</td><td>0</td></tr></tbody></table>	Category	Count	All resources	61	Bluetooth Headphone	3	Chris's Demo	7	demo-org	3	European Southern Observatory	0	INAF-EELT-HIRES	0	INCOSE	3	Maplesoft	0	MBSE Interface Patterns Project	0	My Category	3	NMWS2017	0	OMG	5	OMG Safety	3	omg-org	6	OpenSE CookBook	0
Category	Count																																
All resources	61																																
Bluetooth Headphone	3																																
Chris's Demo	7																																
demo-org	3																																
European Southern Observatory	0																																
INAF-EELT-HIRES	0																																
INCOSE	3																																
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MBSE Interface Patterns Project	0																																
My Category	3																																
NMWS2017	0																																
OMG	5																																
OMG Safety	3																																
omg-org	6																																
OpenSE CookBook	0																																

Rename Existing Category	<p>To rename a previously existing category the user should select the Repository tab. In the left hand "Categories" section, the user should select the gear symbol. In the following "Resource Categories" window, the user can select an existing category and change change the name. To confirm the change, the user must select "Update" and "Finish".</p> 
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### 3.3 Alfresco

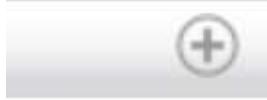
#### 3.3.1 Manage Users

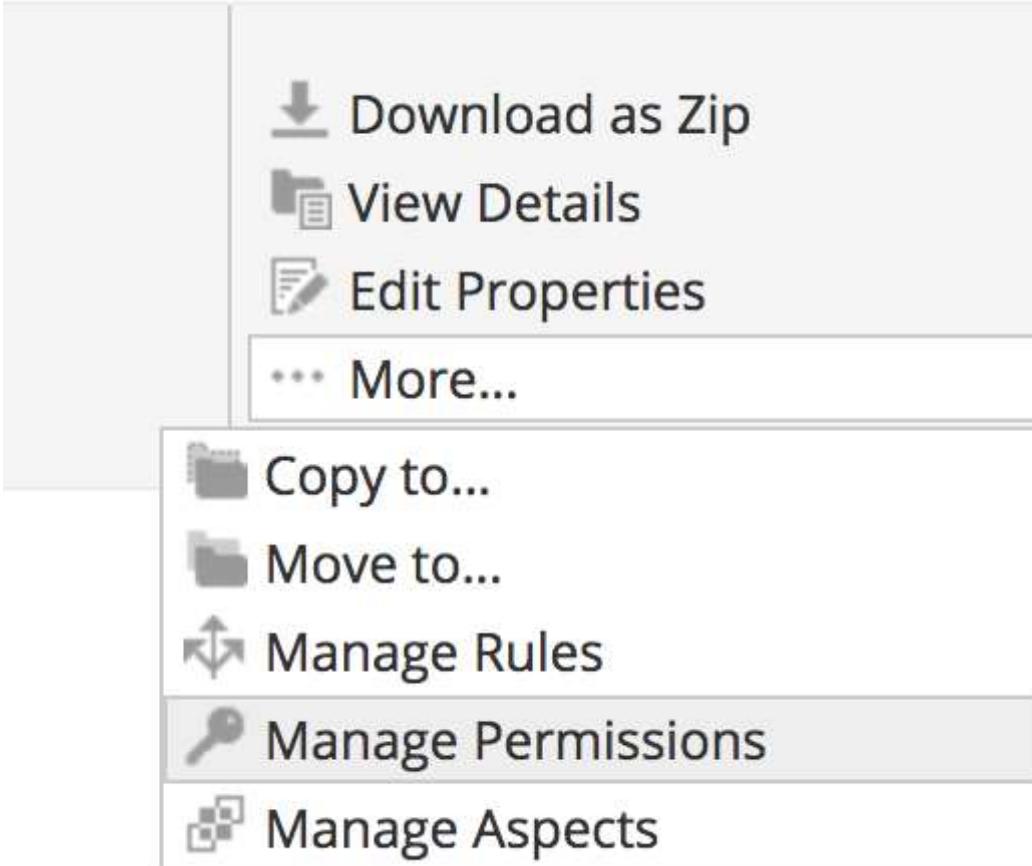
Table 6. <>

Manage Users	<p>In the Alfresco Dashboard, the administrator can manage users through the Users tab of the Admin Tools window. From this window, the administrator can edit an existing User or create a new User. After creating Users, the administrator can manage user permissions to projects.</p> <p style="text-align: center;"><b>▼ Tools</b></p> <ul style="list-style-type: none"> <li>Application</li> <li>Category Manager</li> <li>Node Browser</li> <li>Tag Manager</li> <li>Sites Manager</li> <li>Repository</li> <li>Replication Jobs</li> <li>Users and Groups</li> <li>Groups</li> <li><b>Users</b></li> </ul>
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#### 3.3.2 Manage Groups

Table 7. <>

Add New Subgroup	To add a new Subgroup to a project, the administrator should navigate to the Groups tab of the Admin tools window. The administrator must select the "Browse" button without entering any content in the search window. Otherwise the administrator will not be able to edit a group. The administrator can then select a "Path". The "Path" is an existing group. Another window to the right should then list the users that are assigned to the group. A subgroup can be created by selecting the + symbol.  
Manage Groups	In the Groups tab of the Admin tools section, the administrator can manage existing Groups. The administrator has the option to either edit existing Groups, create a new Group, or to delete a Group. <p style="margin-left: 40px;"><b>▼ Tools</b></p> <ul style="list-style-type: none"> <li>Application</li> <li>Category Manager</li> <li>Node Browser</li> <li>Tag Manager</li> <li>Sites Manager</li> </ul> <p style="margin-left: 40px;">Repository</p> <p style="margin-left: 40px;">Replication Jobs</p> <p style="margin-left: 40px;">Users and Groups</p> <div style="background-color: #e0e0e0; display: inline-block; padding: 2px 10px; margin-left: 40px;">Groups</div> <p style="margin-left: 40px;">Users</p>

Edit Existing Group	<p>An administrator can edit an existing group of a repository by either adding a new group or adding a new subgroup. To edit an existing group of a project, the user should open the Repository tab, and navigate to a project in the "Sites" package. The administrator can hover over the project, select "More...", and select "Manage Permissions".</p> 
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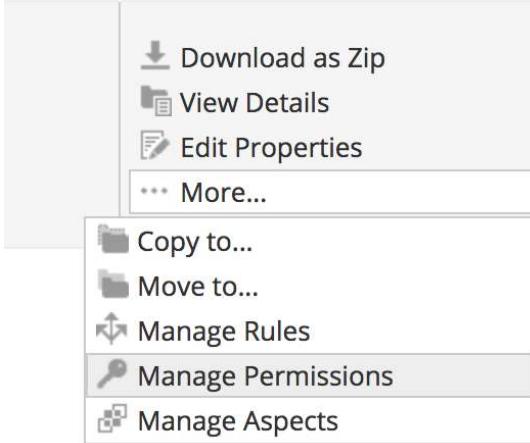
### 3.3.3 Manage Organizations

Table 8. <>

Manage Organizations	The administrator can manage the projects of an Organization through Alfresco in the "Repository" tab. After creating a new organization through terminal, the administrator can verify the organization was created in Alfresco.
Create New Organization	To create a new organization that will later be verified in Alfresco is through the terminal command: Note this is a sample command, and should be modified for application. <pre>curl -w "\n%{http_code}\n" -H "Content-Type: application/json" -u admin:admin --data '{"orgs": [{"id": "vetest", "name": "vetest"}]}' -X POST "http://localhost:8080/alfresco/service/orgs"</pre> admin:admin should be changed to reflect the username:password of the user. localhost:8080 should be changed to reflect the alfresco site. "vetest" should be replaced with the name of the user's organization.

### 3.3.4 Manage Permissions

Table 9. <>

Manage Repository Permissions	<p>The user can modify the local set of permissions of a top level hierarchy package by hovering over the package and selecting Manage Permission. The user can select to add a new user or group. To add a new user/group, the person must use the search engine to locate the user or group that is to be added. Additionally, the user can delete existing local permission of a user or group, or change the role of a user or group.</p> 
Manage Nested Permissions	<p>To view and manage nested local permissions, the user should open the package from the Repository Browser. After selecting Manage Permission, a locally set permission can be deleted or changed below.</p> 
Manage Permissions	<p>The user has the option to manage permissions that will be inherited by nested packages, or to modify locally set permissions. To modify the permissions of a project the administrator should navigate to the "Repository" tab, and select a project. After hovering over a project, select "More..." and "Manage Permissions". The administrator has the option to control the permissions of certain projects of an organization, and in nested packages of a project.</p>

### 3.3.5 Manage Projects

Table 10. <>

Manage Projects	<p>To create a new project that will later be verified in Alfresco is through the terminal command:</p> <p>Note this is a sample command, and should be modified for application.</p> <pre>curl -w "\n%{http_code}\n" -H "Content-Type: application/json" -u admin:admin --data '{"projects": [{"id": "123456", "name": "vetest", "type": "Project"}]}'-X POST "http://localhost:8080/alfresco/service/orgs/myorg/projects"</pre> <p>admin:admin should be changed to reflect the username:password of the user. localhost:8080 should be changed to reflect the alfresco site. "vetest" should be replaced with the name of the user's project. "myorg" should be replaced with the ID of the org to create the project in.</p>
Create New Project	<p>The administrator can manage projects in the "Sites" section of the "Repository" tab of Alfresco. After creating a new project through terminal, the administrator can verify the project was created in Alfresco.</p>

# 4 Policies

## 4.1 Teamwork Cloud Policies

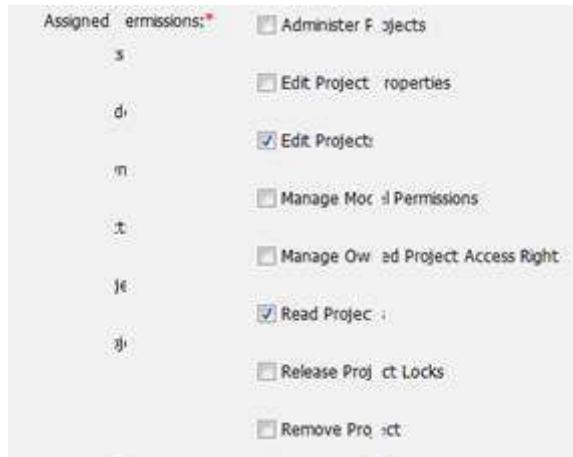
There are a defined set of roles that should be created for each specific project. These consist of <project> Consumer, <project> Collaborator, <project> Contributor, <project> Manager. The purpose of these default roles is to specify project specific roles for project specific users. After the roles have been created, project specific disabled users should be created. These users should be <project>Consumer, <project>Collaborator, <project>Contributor, and <project>Manager. The following steps describe the process of configuring new users and roles in Teamwork Cloud after a project has been uploaded.

- 1) Select/Create a category, <category>-org if it corresponds to an MMS organization
- 2) Create/Upload project to TWC
- 3) Create the following roles and select the above project for the predefined user (if it already exists), e.g.

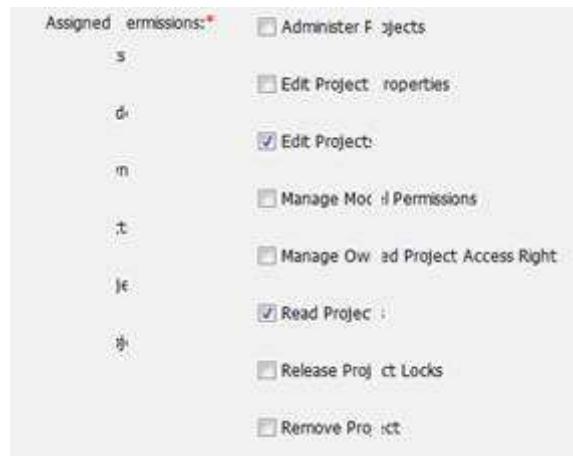
Username	Scope	
omg-org	Internal	OMG SysML Prof...

- a. <project> Consumer

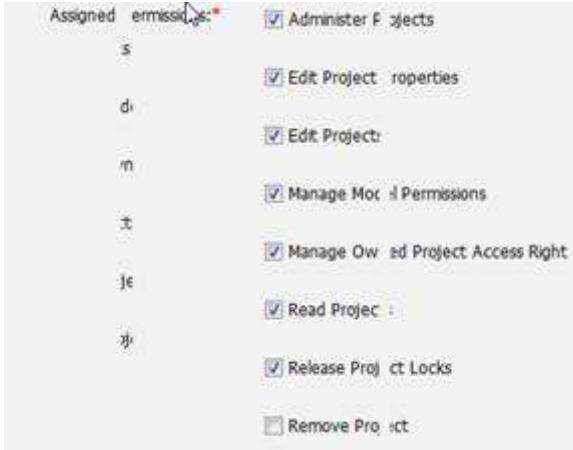
- b. <project>Collaborator



c. <project>Contributor

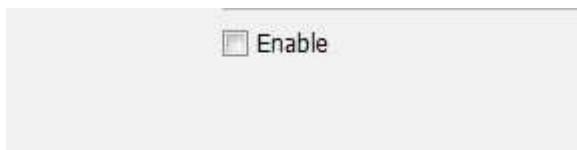


d. <project>Manager



**4) Create disabled users with the corresponding role from above. The password of the disabled user should replicate the user name.**

- a. <project>Consumer
- b. <project>Collaborator
- c. <project>Contributor
- d. <project>Manager



**5) Set the scope to custom and add the project to the scope.**

Assign	Role	Scope
<input type="checkbox"/>	ESG Collaborator	Global
<input type="checkbox"/>	ESG Manager	Global
<input type="checkbox"/>	INAP-EELT-HRES Collaborator	Global
<input type="checkbox"/>	INAP-EELT-HRES Manager	Global
<input type="checkbox"/>	OMG SysML 1.x Collaborator	Global
<input checked="" type="checkbox"/>	OMG SysML 1.x Consumer	Global
<input type="checkbox"/>	OMG SysML 1.x Manager	Global
<input type="checkbox"/>	OMG SysML 2.0 Rfp Collaborator	Global

**Custom Scope:**  
 Name:   
 OMG SysML Profiles  
 SysML 1.x Specification

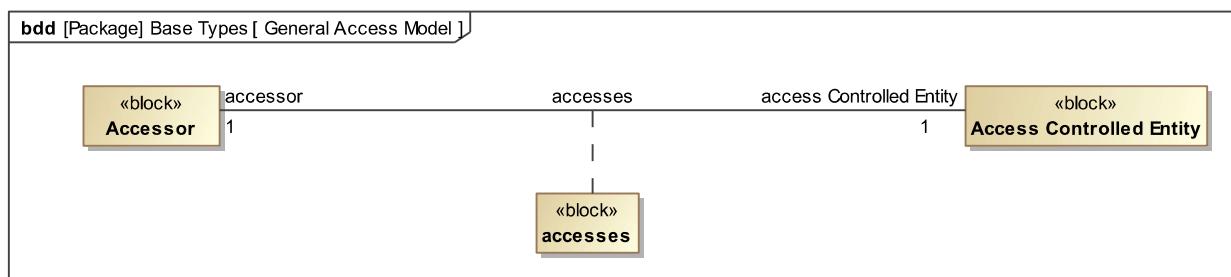
**6) When creating a new user or when imported from LDAP, copy the assignments from one of the above disabled users based on the set role.**

Role Assignments

Use this panel to assign a role to the user. You can also specify a custom scope for each of the assigned resource-specific role.

Copy Assignments From:

## 4.2 General Access Model



**Figure 8. General Access Model**

In Alfresco, the administrator or user is considered an Accessor, and the groups and organizations are considered an Access Controlled Entity. An association relationship exists between the two and is specified by an association block named **accesses**.

## 4.3 Teamwork Cloud

The Teamwork Cloud model elements that interact with one another are the following- TWC User and TWC Project.

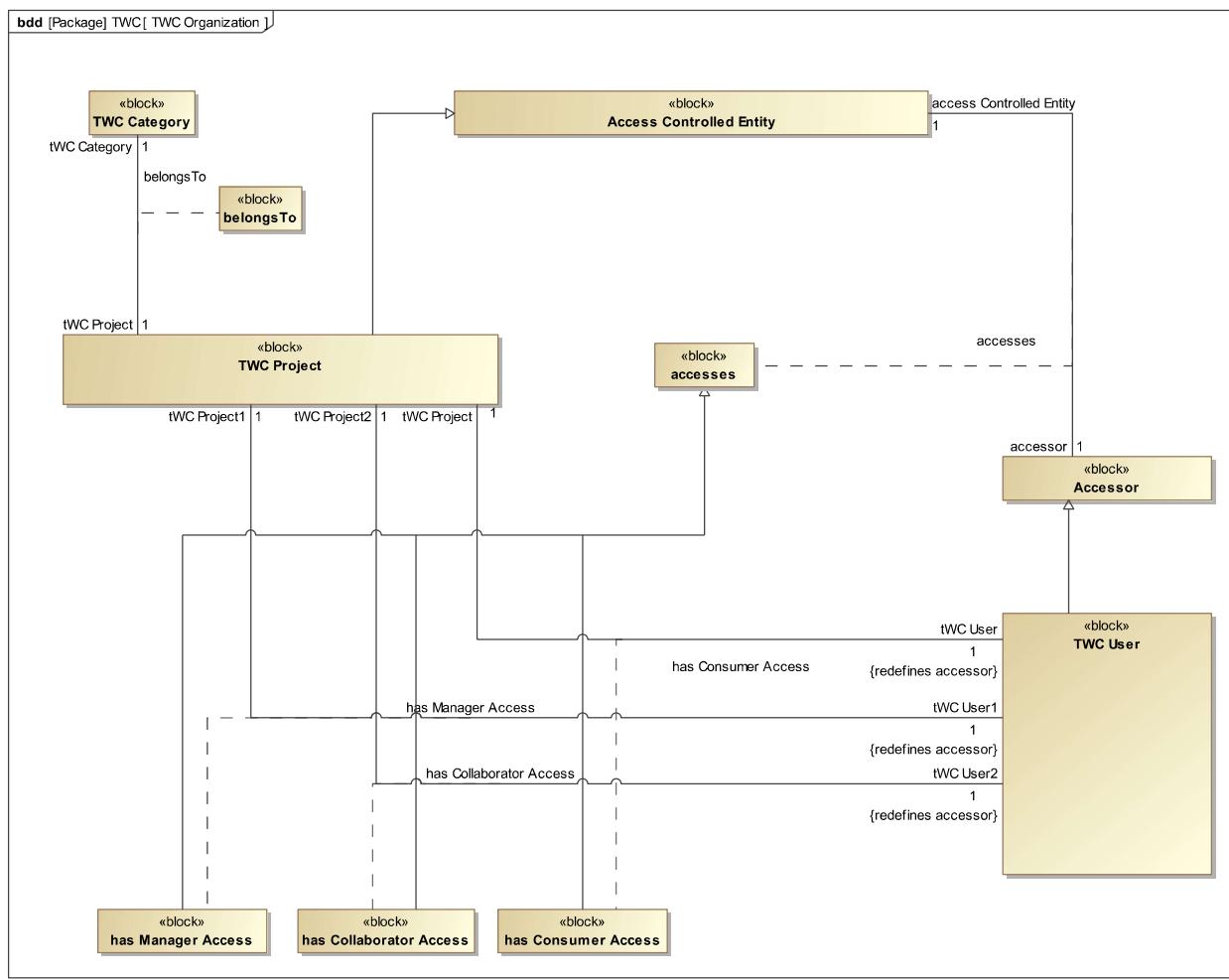
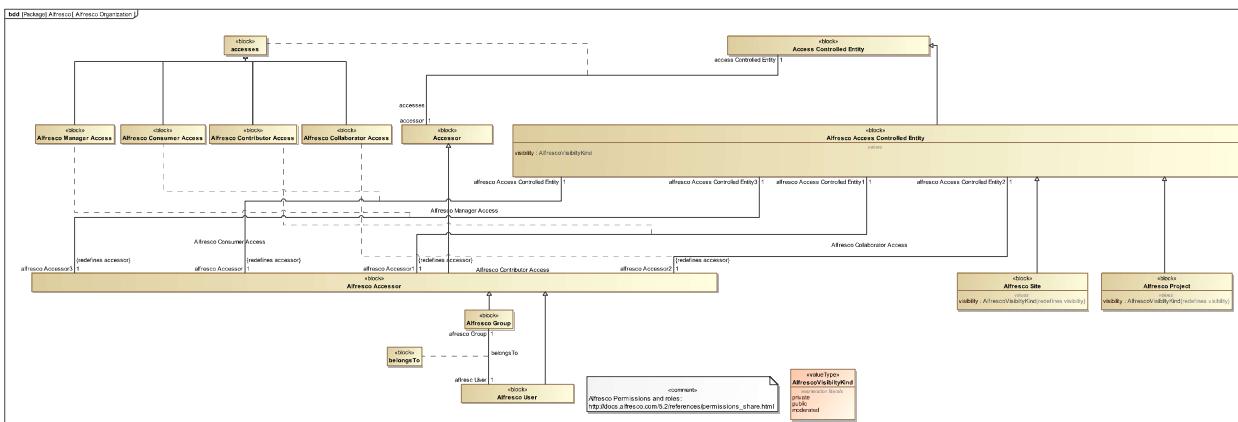


Figure 9. TWC Organization

The organization structure of a NoMagic Teamwork Cloud is dependent on the association between the Access Controlled Entity and Accessor blocks, and the association block accesses. A TWC User specializes the Accessor block, and inherits the properties and behavior of the the block. In the Teamwork Cloud users can create projects, and is represented in the TWC Organization as the block TWC Project. Teamwork projects can belong to Categories. This relationship is modeled as an association between the TWC Category and the TWC Project. Each Teamwork User is associated to a Teamwork project based on what type of access they have. The four standard Teamwork project user accesses are Manager, Contributor, Collaborator, and Consumer. These access levels are modeled as association blocks between the TWC User and TWC Project. Additionally, each of the accesses specialize the association block accesses.

## 4.4 Alfresco

The Alfresco model elements that interact with one another are the following- Alfresco Access Controlled Entity and an Alfresco Accessor.



**Figure 10. Alfresco Organization**

The organization structure of Alfresco is dependent on the association between Access Controlled Entity and Accessor, and the association block accesses. The Alfresco Access Controlled Entity specializes the Access Controlled Entity, and is generalized by Alfresco Accessor, Alfresco Site, and Alfresco Project. The Alfresco Accessor specializes the Accessor, and is generalized by Alfresco Group and Alfresco User. An Alfresco User can be assigned to belong to an Alfresco Group. Each Alfresco User is associated to an Alfresco Access Controlled Entity based on what type of access they have. The four standard Alfresco user/project accesses are Manager, Contributor, Collaborator, and Consumer. These access levels are modeled as association blocks between the Alfresco Accessor and the Alfresco Access Controlled Entity.