



User manual

August 2015



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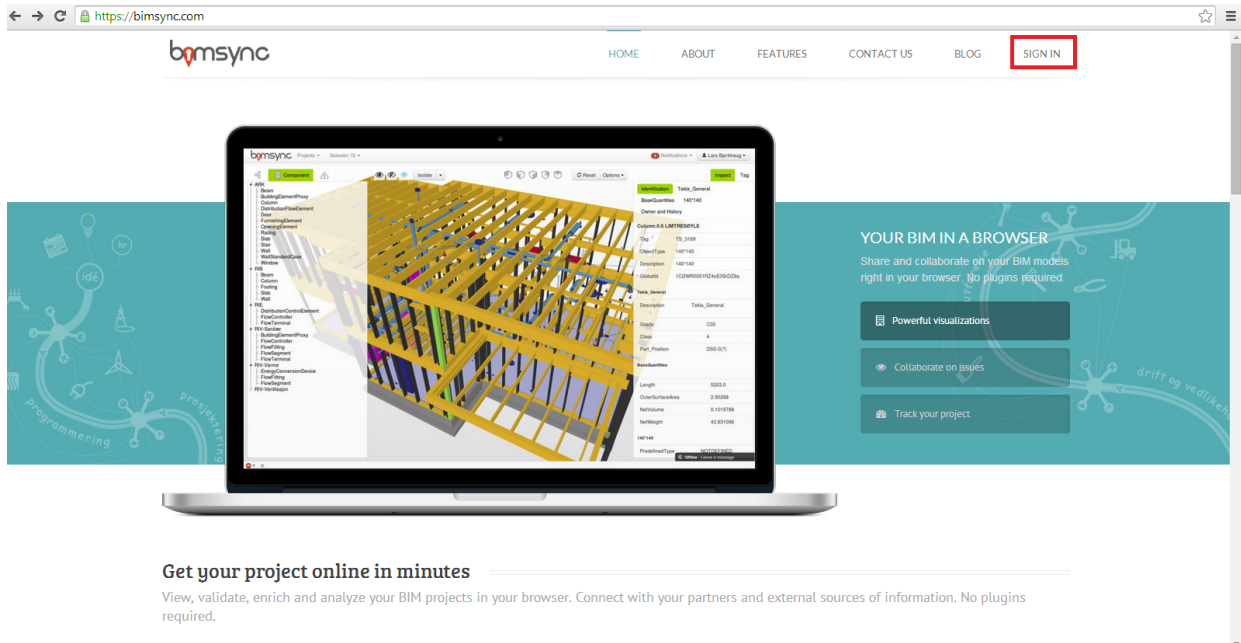


1. Log in

Open a webbrowser and go to www.bimsync.com to get to the homepage for bimsync. Click the link in the upper right corner that says "Sign in".

Enter your username and password. If you have lost or do not have a username and password and can use the "I forgot my password" link. After this step you change the language of the user interface from the user settings..

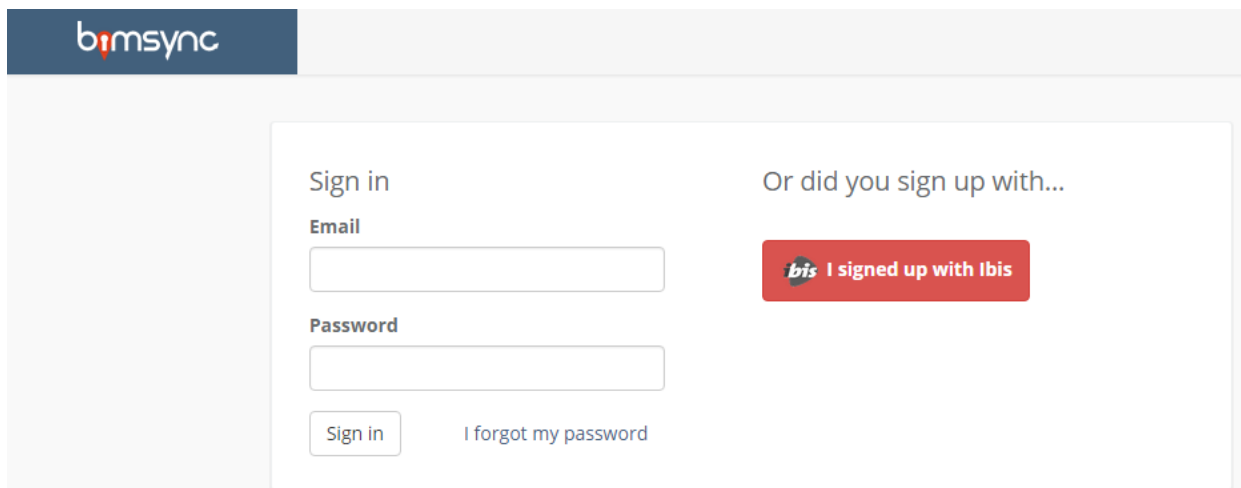
For users in large organizations, there may be other ways to log on (for example, "single sign-on") if agreed between your organization and Catenda.



The screenshot shows the bimsync.com homepage. The browser address bar displays <https://bimsync.com>. The navigation bar includes links for HOME, ABOUT, FEATURES, CONTACT US, BLOG, and a highlighted SIGN IN button. The main content area features a laptop displaying a 3D BIM model of a building structure. To the right of the laptop, a section titled "YOUR BIM IN A BROWSER" encourages sharing and collaborating on BIM models. Below this, three buttons are visible: "Powerful visualizations", "Collaborate on issues", and "Track your project". At the bottom, a section titled "Get your project online in minutes" provides a brief description of the service.

Get your project online in minutes

View, validate, enrich and analyze your BIM projects in your browser. Connect with your partners and external sources of information. No plugins required.



The screenshot shows the sign-in form on the bimsync.com website. The form is titled "Sign in" and includes fields for "Email" and "Password". A "Sign in" button is located below the password field. To the right of the form, there is a link that says "Or did you sign up with..." followed by a red button labeled "bis I signed up with Ibis". Below the "Sign in" button, there is a link that says "I forgot my password".

Sign in

Email

Password

Sign in [I forgot my password](#)

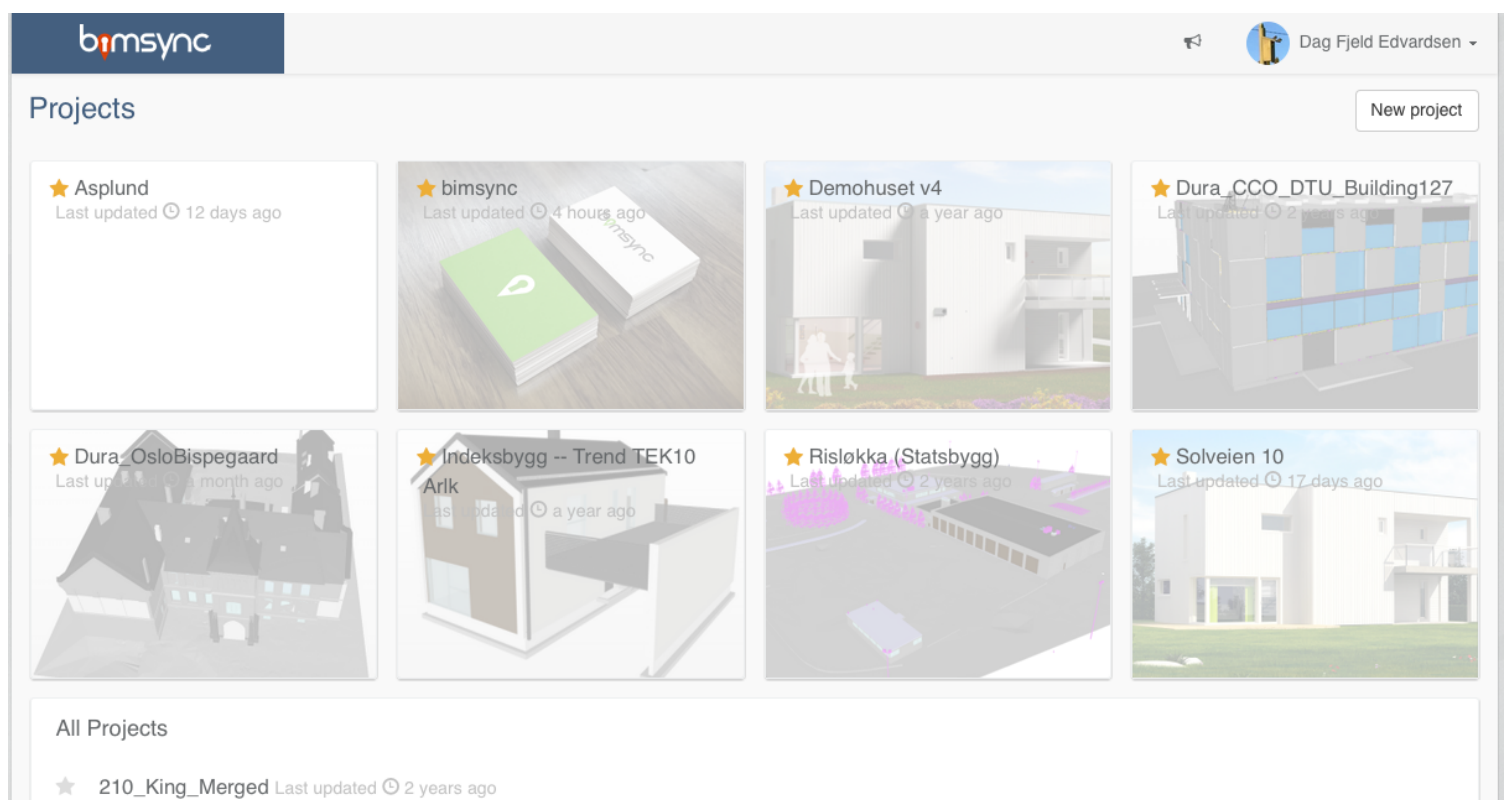
Or did you sign up with...

bis I signed up with Ibis

2. Projects

The projects screen is the first screen you encounter after logging in to bimsync. It gives you a complete list of all projects you have access to, with thumbnails of the list of those that you have selected as favorites. You can mark a project as a favorite by clicking the star icon next to the project. Click a project to open it.

For users in large organizations the projects screen may be based on more than a flat listing of projects if this has been agreed between your organization and Catenda.



3. Account settings


On the "Account settings" page you can change your password, change your avatar picture and change the language. All of these are self-explanatory. At the moment bimsync is available in 6 languages: Norwegian, English, French, Japanese, Dutch, and Brazilian Portuguese.

The "Account settings" page might look different if you are a member of a large organization that has agreed with Catenda to use a different solution.

bimsyncDag Fjeld Edvardsen ▾

Account

Avatar



Change avatar

Remove avatar

Profile

Name

Save profile

Language

Your language has been updated. ×

English

Save language

Select theme

☒

☐

Change password

Old password

New password

Confirm new password

Update password

Linked apps

[Click to see linked applications](#)

4. Project dashboard

The project dashboard presents an overview of the latest revisions, graphs showing progress of issues, the latest notifications, and the list of project members.

The project dashboard gives you direct access to the pages behind the various reports. Click on a project member, model, revision or issue to go directly to the subpage for those objects. You can also open a selection of domain models in the viewer directly from dashboard.

By clicking on "Settings" in the menu on the top left (where the name of the current project is shown) you come to the project's details/settings (4.1).

The screenshot shows the bimsync project dashboard for 'Solveien 10'. The interface includes a sidebar menu with options: Dashboard, Models, Issues, Milestones, Libraries, Members, Notifications, and Settings. The main content area is titled 'Dashboard' and features several sections:


- Issues:** A horizontal bar chart showing issue status. Below it, a summary shows '5 issues assigned to me' and '32 open issues'. A donut chart for 'BCF 1.0' shows 51% completion with 30 Open, 31 Closed, and 14 Unassigned issues. A smaller donut chart for 'Ny issue liste' shows 0% completion with 2 Open, 0 Closed, and 0 Unassigned issues. A list of 'Recently updated issues' includes: 'Is this chimney placed correctly? #57' (Open, 3 months ago, assigned to Håvard Bell), 'Ny sak #59' (Open, 3 months ago, assigned to Håvard Bell), 'Feil stol? #61' (Open, 3 months ago, assigned to Håvard Bell), 'Kollisjon #56' (Open, 4 months ago, not assigned), and 'Vegg mangler #63' (Open, 4 days ago, assigned to Anniken Strand).
- Models:** A list of models with checkboxes and 3D viewer links. Models include: ARK #7 Fixed ARK (created 1 year ago by Lars Bjørkhaug), HEIS #1 Ny heis (created 4 days ago by Håvard Bell), RIB #3 wrong guid (created 3 years ago by Håvard Bell), RIE #2 Endret IP kode (created 3 years ago by Håvard Bell), RIV-Sanitær #2 Småfiksing. (created 3 years ago by Håvard Bell), RIV-Varme #1 Varme første import (created 3 years ago by Håvard Bell), and RIV-Ventilasjon #1 Første import av ventilasjon (created 3 years ago by Håvard Bell).
- Members:** A grid of member avatars and initials, including BF, BK, CG, HN, KHS, LF, LA, OJK, Rk, RG, SS, TO, and TFB.

The top right of the dashboard shows the user profile for 'Lars Bjørkhaug'.

4.1 Project settings

The project settings screen allows you to change the project name, description or the geolocation (via an interactive map). You can also upload a picture (.gif, .jpg or .png) by clicking on the image next to the project name and clicking "Add image". This image will also appear on the Project menu for your favourite projects and on the top left menu for some screen sizes.

bimsync



Dashboard

Models

Issues

Milestones

Libraries

Members

Notifications


Settings

Demohuset

Lars Bjørkhaug

Settings

Project details



Change imageRemove image

Project name

Demohuset

Description

The winner of the Norwegian open BIM project for Boligprodusentene

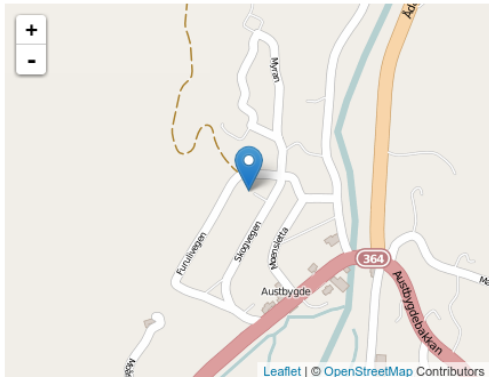
Update

Delete project

A deleted project cannot be restored

Delete this project

Geolocation



Latitude59.996754379031124Longitude8.823437690734863North directionTrue north direction by rotating the model around the Z-axisDecimal angleUpdate

bimsyncAbout

DocumentationDeveloper API

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5. Members

The member page contains a list of participants who are associated with the project. The project owner can invite new participants by entering their email address. You have the option to remove your own connection to the project. If you click the little envelope close username will email addresses they appear.

NB: If you leave a project, the project owner has to invite you for you to rejoin.

Users in large organizations that have made an agreement with Catenda may find a more advanced user management system.

The screenshot shows the BIMsync web interface. On the left is a sidebar with navigation links: Dashboard, Models, Issues, Milestones, Libraries, Members (highlighted), Notifications, and Settings. The main content area is titled 'Members' and shows a list of project participants. At the top right of the main area, it says 'Asplund' with a dropdown arrow and a user profile for 'Dag Fjeld Edvardsen'. The members list includes: Anniken Strand (anniken.strand@catenda.no), Dag Fjeld Edvardsen (dag.fjeld.edvardsen@catenda.no) with an 'admin' role, Håvard Bell (havard.bell@catenda.no), Jon Anders Sollien (jon.anders.sollien@catenda.no), Lars Bjørkhaug (lars.bjorkhaug@catenda.no) with 'Owner' and 'admin' roles, and Ole Jørgen Karud (ole.jorgen.karud@catenda.no). On the right side of the main area, there is a 'Teams' section showing an 'admin' role with '2 members'.

Members	
	Anniken Strand anniken.strand@catenda.no
	Dag Fjeld Edvardsen dag.fjeld.edvardsen@catenda.no admin
	Håvard Bell havard.bell@catenda.no
	Jon Anders Sollien jon.anders.sollien@catenda.no
	Lars Bjørkhaug lars.bjorkhaug@catenda.no Owner admin
	Ole Jørgen Karud ole.jorgen.karud@catenda.no

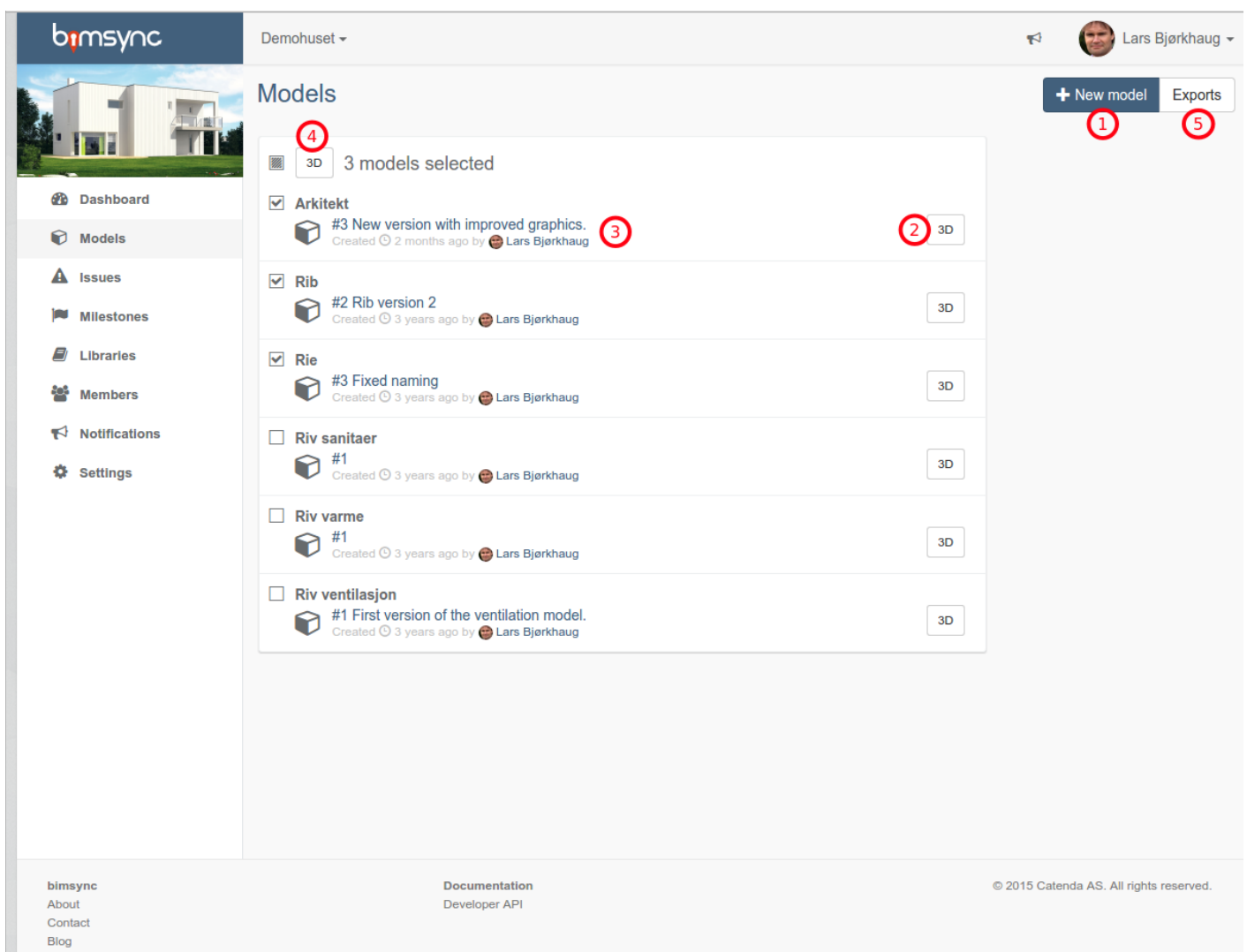
Teams	
	admin 2 members

6. Models

You access the models screen by clicking on "models" from the menu on the left. bimsync lets you configure the project as you like. The most common way is to create one model per domain like Architect, Structure, HVAC etc but feel free to use any structure you find useful.

The screenshot below has several important aspects:

1. Adds another model (container for ifc files) to the project
2. Opens the given model in 3D view
3. Opens the given model in details view to show all revisions.
4. Let you open more than one model in one go. Select from the list (by dragging a selections) and click the 3D icon
5. Shows a list of existing exports and lets you create new exports.

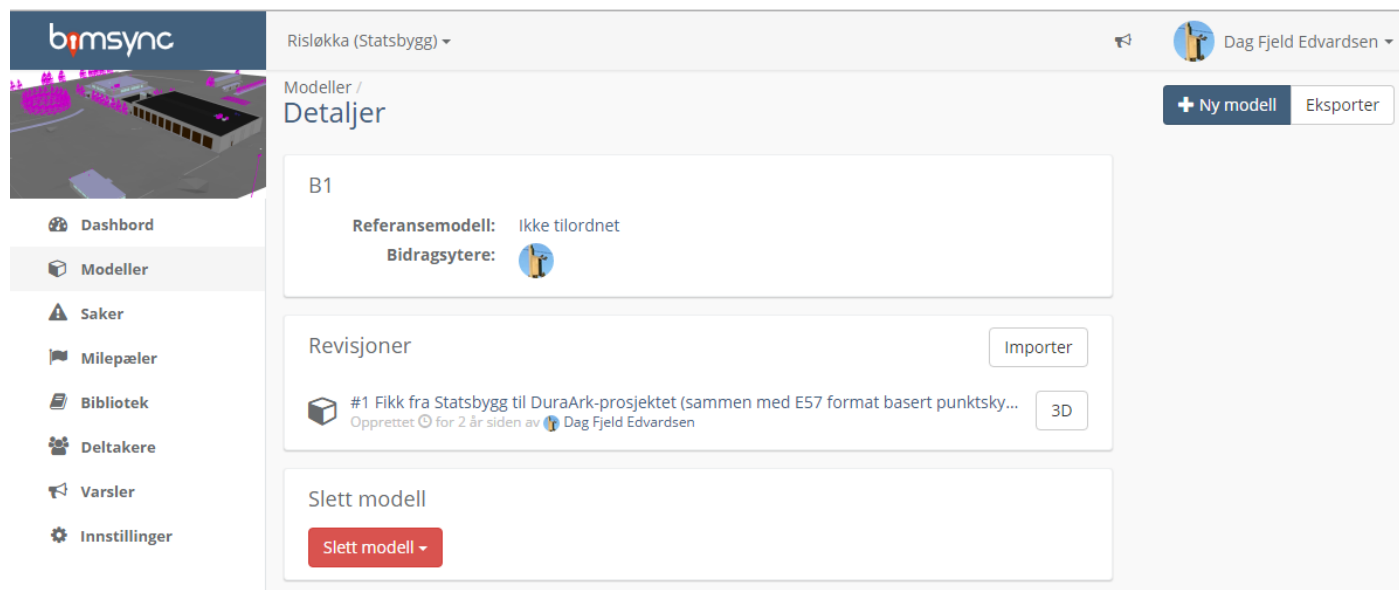


6.1 Import

The model page shows us the domain models present in the project. By clicking on a domain model one can then click on "Import" and upload a new revision (Section 6.3). This is done by choosing an IFC file from your hard drive or Dropbox. When uploading you will be asked to enter a comment that describes this upload (brief explanation to the project participants about what is new in the revision being uploaded). Click "send" to start the upload process.

When the process is complete bimsync analyzes the IFC file and generates the geometry in the background. For large models it can take some time before the file is ready to be worked on in the viewer. If you wish you can exit bimsync, geometry generation happens uninterrupted anyway. When importing is complete a notification will pop up in the menu bar in bimsync and additionally an email will be sent to you stating that a new version is uploaded to a model for which you have access.

For users in large organizations, there may exist tools for uploading many models simultaneously without user interaction.



6.2 Export

The export screen gives you the option to download your model to your local hard drive. You can either download a single model, a merged IFC file consisting of the models you have selected, or a zip-file consisting of separate (not merged) models. You can also choose to bake into the exported IFC file (s) tags and properties (library contents, bsDD or user defined) that you have added using the viewer.

bimsync

Dashboard

Models

Issues

Milestones

Libraries

Members

Notifications

Settings

Asplund -

Dag Fjeld Edvardsen -

Models / Exports /
New export

1 Select models and revisions

☒ ARK

#2 Fikset navngivning på etasje og prosjekt.
Created 13 days ago by Lars Bjerkhaug

☒ RIB

#2 Improved colors
Created 13 days ago by Lars Bjerkhaug

☒ RIE

#3 Corrected import.
Created 12 days ago by Håvard Bell

☒ RIV - sanitær

#1 Første versjon
Created 13 days ago by Lars Bjerkhaug

☒ RIV ventilasjon

#1 Første versjon
Created 13 days ago by Lars Bjerkhaug

☒ Riv varme

#1 Riv ventilasjon
Created 13 days ago by Lars Bjerkhaug

2 Add name and comment

Name

Asplund 2015-09-28 2104

Comment

Enter an optional comment

3 Set options and export

Format options

☒ zip (zip individually files for selected models)

☐ ifc (merge selected models in an ifc 2x3 file)

Merge options

☒ Merge tags from bimsync (include all information from active libraries)

☒ Merge properties from bimsync (include properties from csv library)

Shared export

☒ Shared export

☐ Private export

Export

6.3 Validation

On this page one can enable validation that will be carried out when a model revision is uploaded. This function checks whether the imported IFC-file satisfies certain criteria. The rules are written in java and can for instance be that “lengths shall be in meters or millimeters, areas in m2 and volumes in m3”.

After importing in a project with validation enabled a report is provided that contains which rules are not satisfied and why that is the case.

You can contact bimsync user support about getting our developers to make validation rules for you.

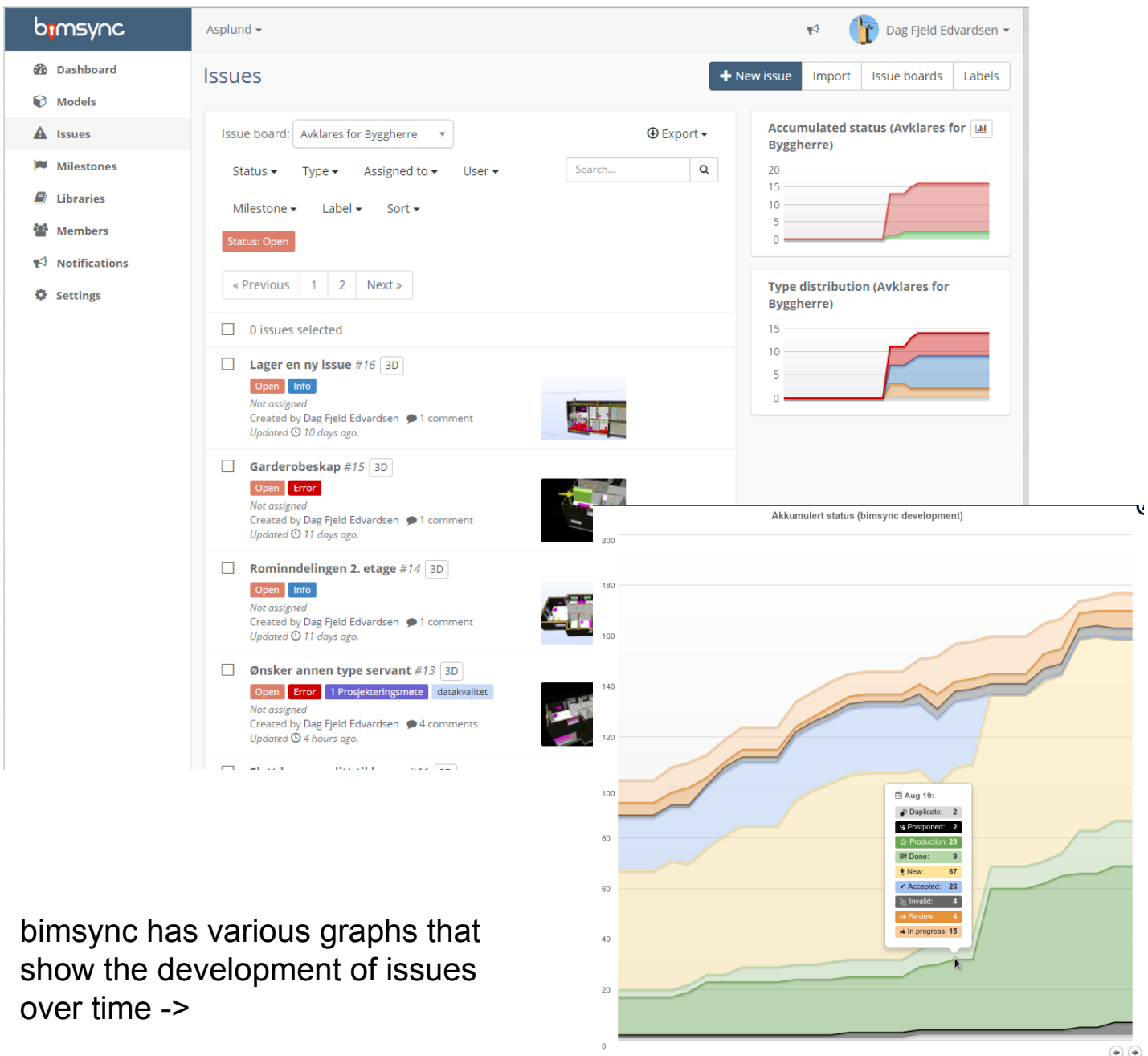
The screenshot displays the bimsync web interface. At the top, the header includes the bimsync logo, a 'Projects' dropdown menu showing 'Solveien 10', and a 'Notifications' dropdown menu showing 'Glenn Markussen'. The main content area is titled 'Solveien 10' and features a 'Viewer' button. A sidebar on the left contains navigation links: Dashboard, Issues, Import, Export, and Settings (which is highlighted). The main panel has tabs for Options, Users, Model Settings, Validation (which is active), Libraries, and Geolocation. Under the 'Validation' tab, there are sub-tabs for 'Plugins' and 'Properties'. Two validation rules are listed, both checked: 'Statsbygg BIM Manual 1.2' and 'Valideringsregler for arkitektkonkurranser'. Each rule has a description and a 'Customize rules...' link. The footer contains links for bimsync (About, Blog, Catenda AS, Contact), Documentation (Developer API), and a copyright notice: '© 2014 Catenda AS. All rights reserved.'

7. Issues

The issues screen provides an overview of all issues connected to the project, to your user, issues you have created yourself, and issues that are not assigned to anyone. It also shows a graph of the accumulated status (“burndown”) as an visual aid for the project participants, indicating how many solved and unsolved issues there are in the project.

Clicking on an issue allows commenting, assigning to a specific user or changing the type of the issue. The available types are Error, Warning, Info and Unknown, in addition to the user defined types.

It is possible to create several issue lists so that related issues are collected, and one can also connect issues to milestones.



bimsync has various graphs that show the development of issues over time ->

7.1 Creating a new issue

A new issue can be created from the issues-screen, or from the viewer (chapter 8.2).

To create a new issue click the “New issue” button on the top right of the issues screen. Enter the subject and use the textbox for comments to provide further details. Choose the correct type for the issue and assign it to a specific user if you know who will be responsible for it. You can also add a picture from your harddrive.

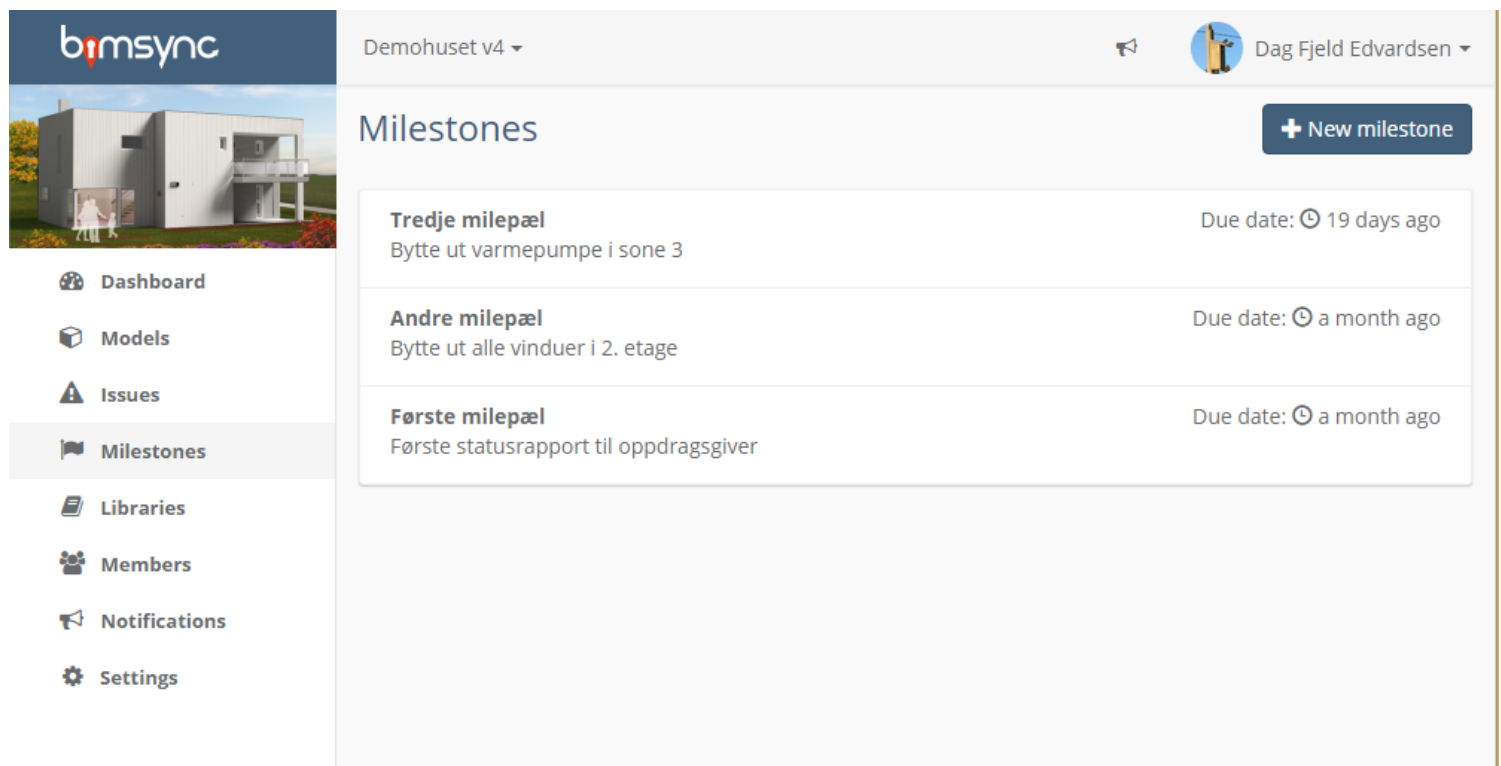
If you are on a mobile unit you can either use a stored picture or take a new one with the built-in camera.

All screens are dynamic (“responsive”) and adapt to the screen size of the unit you are using.

7.2 Milestones

A milestone consists of a set of issues and a deadline for when they have to be completed.

You can connect issues to milestones, for instance to organise a list of things that has to be done before the next meeting in a construction project or actions that has to be taken in a FM-process.



The screenshot shows the bimsync web application interface. On the left is a sidebar with navigation links: Dashboard, Models, Issues, Milestones (highlighted), Libraries, Members, Notifications, and Settings. The main content area is titled 'Milestones' and shows a list of three milestones for a project named 'Demohuset v4'. Each milestone entry includes a title, a description, and a due date. A '+ New milestone' button is located in the top right corner of the main area. The user profile 'Dag Fjeld Edvardsen' is visible in the top right header.

Milestone Title	Description	Due date
Tredje milepæl	Bytte ut varmepumpe i sone 3	Due date: ⌚ 19 days ago
Andre milepæl	Bytte ut alle vinduer i 2. etage	Due date: ⌚ a month ago
Første milepæl	Første statusrapport til oppdragsgiver	Due date: ⌚ a month ago

7.3 BCF import / export

bimsync is 100% committed to open standards, and we have based on that implemented export and import for BCF (BIM collaboration format).

This means that the user can import and export issues from/to other software that supports this format (for instance Solibri, Navisworks and many others).

Click the button captioned “Import” and select a BCF-file from the hard drive. You can for instance import a file with collision control data for the same model created in another software application. This way you can continue your workflow inside bimsync.

In the same way you can click “Export” to export the issues in BCF format from bimsync. Both BCF format 1.0 and 2.0 are supported.

The screenshot displays the bimsync web application interface. The top header shows the bimsync logo, the project name 'Demohuset v4', and the user 'Dag Fjeld Edvardsen'. The main section is titled 'Issues' and features a sidebar with navigation links: Dashboard, Models, Issues (selected), Milestones, Libraries, Members, Notifications, and Settings. The main content area includes a filter bar with 'Issue board: BCF 1.0', 'Export' button, and various filters (Status, Type, Assigned to, User, Milestone, Label, Sort). Below the filters, there is a list of issues:

- ☐ 0 Issues selected
- ☐ **Ikke kjøkkeninnredning #4** [3D]
Status: Open, Info
Not assigned
Created by Dag Fjeld Edvardsen | 1 comment
Updated 15 days ago.
- ☐ **This is not a pipe #3** [3D]
Status: Open, Warning
Not assigned
Created by Dag Fjeld Edvardsen | 1 comment
Updated 5 months ago.
- ☐ **There are too few issues #2** [3D]
Status: Open, Info
Not assigned
Created by Dag Fjeld Edvardsen | 1 comment
Updated 7 months ago.
- ☐ **problem #1** [3D]
Status: Open, Error
Not assigned
Created by Dag Fjeld Edvardsen | 1 comment
Updated 8 months ago.

On the right side, there are two charts:

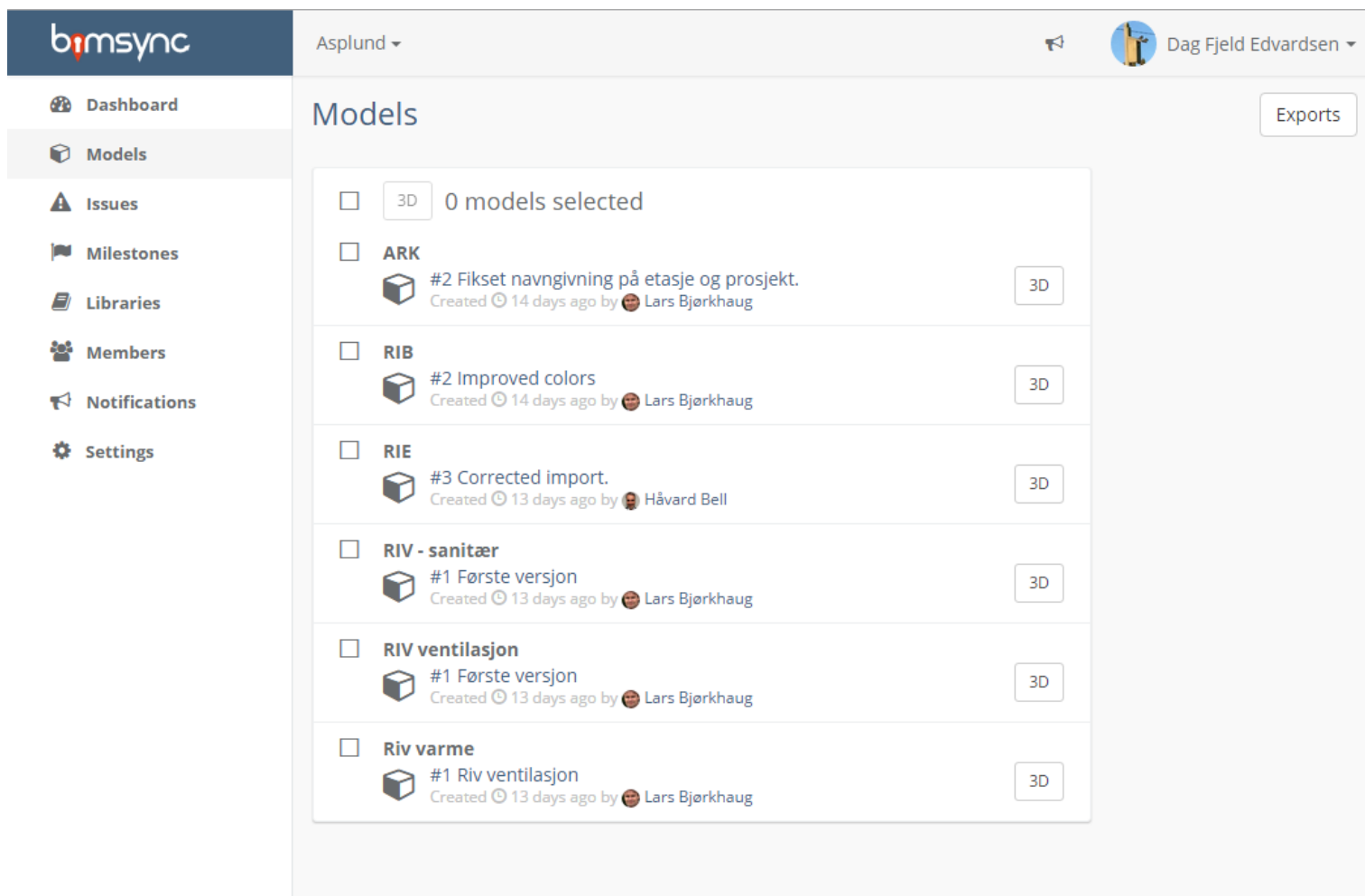
- Accumulated status (BCF 1.0)**: A line chart showing the status of issues over time, with a red line indicating the current status.
- Type distribution (BCF 1.0)**: A stacked bar chart showing the distribution of issue types (Open, Warning, Error, Info) over time.

8. Viewer

The viewer is like a workbench for bimsync. In the viewer you can visualize and enrich the models in the project as one (or separately if you prefer). You can add properties or link external information to the objects, and you can inspect them to get the important details.

Click one of the buttons with the “3D” caption in the Models screen to get to the viewer with the model on the corresponding row visible. Using the checkboxes on the left of the rows you can choose that all the selected models are visible initially in the viewer.

In the following subchapters the powerful possibilities of the Viewer are explained.



The screenshot shows the bimsync web application interface. On the left is a sidebar with navigation links: Dashboard, Models (selected), Issues, Milestones, Libraries, Members, Notifications, and Settings. The main area is titled 'Models' and shows a list of model entries. Each entry has a checkbox on the left, a 3D button, and a description. The entries are:

- ☐ 3D 0 models selected
- ☐ ARK #2 Fikset navngivning på etasje og prosjekt. Created 14 days ago by Lars Bjørkhaug
- ☐ RIB #2 Improved colors Created 14 days ago by Lars Bjørkhaug
- ☐ RIE #3 Corrected import. Created 13 days ago by Håvard Bell
- ☐ RIV - sanitær #1 Første versjon Created 13 days ago by Lars Bjørkhaug
- ☐ RIV ventilasjon #1 Første versjon Created 13 days ago by Lars Bjørkhaug
- ☐ Riv varme #1 Riv ventilasjon Created 13 days ago by Lars Bjørkhaug

Each entry has a 3D button to the right. In the top right corner of the main area, there is an 'Exports' button. The top header bar shows the project name 'Asplund' and the user 'Dag Fjeld Edvardsen'.

8.1 Navigating in the viewer

The built in viewer of bimsync has a large range of functionality. The screenshot on the next page is divided into 8 parts to better explain the different functions.

The basic controls for navigating in the viewer are:

Right mouse button: Pan the camera vertically or horizontally.

Left mouse button: Rotate the camera around the coordinate you point at.

Mouse wheel: Zoom in or out.

W,A,S,D or directional keys: walk forwards, slide left, slide right, walk backwards.

E & W: Rotate the camera left or right.

PgUp & PgDown, R & F: Pan up or down.

Delete & End, X & C: Move the camera up or down.

Regarding the elements on the next page:

1. This is the revision selector, from here you can turn on or off a domain model in the viewer or choose which revision you want to look at. Click the black eye to turn on/off a model, or use the revision button to get a drop down where you can select the revision you want to work with.
2. These buttons will show or make partially invisible, or hide the selected objects. Objects you select in the viewer will be colored green as seen in the screenshot on the next page.
3. These buttons activate predefined viewing points, the alternatives are: in front, behind, left, right and above.
4. This is the IFC tree (chapter 8.2).
5. This button shows or hides the side panels.
6. This button opens a panel for the navigation settings. You can adjust the speed of camera movements, show or hide spaces in the model, or adjust the field-of-view of the camera. The last part can be useful for navigating narrow hallways or ventilation shafts.
7. This is the inspect page (chapter 8.6)
8. This is the viewer's issue panel (chapter 8.3)
9. This is the libraries panel (chapter 8.5)

bmsync Projects Solveien 10 Notifications Glenn Markussen

1. 9. 8.

Models

ARK

RIB

RiE

RIV-Sanitaer

RIV-Varme

RIV-Ventilasjon

Revision 7

Revision 3

Revision 2

Revision 2

Revision 1

Revision 1

4.

2.

3.

5.

6.

7.

Identification

Window.0.3 V-01

OverallHeight 2000.0

Tag 2D9B10ED-499F-40FE-BE-EB-2AD41A6D666F

Globalid 0jcn3jPz0ShuhAIGQRMPi

OverallWidth 2253.0

Issues

Open Vinduer Created by Håvard Bell a year ago

Vindu 01

Sizeable FALSE

OperationType DOUBLE_PANEL_HORIZONTAL

Globalid 03epL6PYBhV7T2Kegh8M

ParameterTakesPrecedence FALSE

Tag (725F42CB-D64D-4F9F-9981-72F01934F48F)-(FBF5D184-BBED-4BC6-85EB-0CD5958A6742)

ConstructionType NOTDEFINED

IfcWindowLiningProperties

Globalid 0T8GwE7Rz3Mv4DS_NaXRD

FirstTransomOffset 0.0

LiningDepth 92.0

MullionThickness 0.0

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8.

Open 16 Closed 18

All

Open only door Created by Jon Anders Sollien a month ago Assigned to: None 0 comments

Open A new issue Created by Håvard Bell a month ago Assigned to: None 1 comment

Open Window or door? Created by Glenn Markussen 2 months ago Assigned to: Glenn Markussen 4 comments

Open test Created by Jon Anders Sollien 2 months ago Assigned to: Glenn Markussen 7 comments

Open wall old building Created by Jon Anders Sollien 4 months ago Assigned to: Lars Bjørkhaug 1 comment

Open Photo test Created by Lars Bjørkhaug 4 months ago Assigned to: Lars Bjørkhaug 4 comments

2.

3.

5.

6.

7.

Identification

Window.0.3 V-01

OverallHeight 2000.0

Tag 2D9B10ED-499F-40FE-BE-EB-2AD41A6D666F

Globalid 0jcn3jPz0ShuhAIGQRMPi

OverallWidth 2253.0

Issues

Open Vinduer Created by Håvard Bell a year ago

Vindu 01

Sizeable FALSE

OperationType DOUBLE_PANEL_HORIZONTAL

Globalid 03epL6PYBhV7T2Kegh8M

ParameterTakesPrecedence FALSE

Tag (725F42CB-D64D-4F9F-9981-72F01934F48F)-(FBF5D184-BBED-4BC6-85EB-0CD5958A6742)

ConstructionType NOTDEFINED

IfcWindowLiningProperties

Globalid 0T8GwE7Rz3Mv4DS_NaXRD

FirstTransomOffset 0.0

LiningDepth 92.0

MullionThickness 0.0

bmsync Projects Solveien 10 Notifications Glenn Markussen

9.

Libraries

Status

Ferdig utført 4 associated objects

Godkjent 4 associated objects

Under bygging 3 associated objects

Under programmering no assignments

Under prosjektering 2 associated objects

Under utbedring no assignments

2.

3.

5.

6.

7.

Identification

Window.0.3 V-01

OverallHeight 2000.0

Tag 2D9B10ED-499F-40FE-BE-EB-2AD41A6D666F

Globalid 0jcn3jPz0ShuhAIGQRMPi

OverallWidth 2253.0

Issues

Open Vinduer Created by Håvard Bell a year ago

Vindu 01

Sizeable FALSE

OperationType DOUBLE_PANEL_HORIZONTAL

Globalid 03epL6PYBhV7T2Kegh8M

ParameterTakesPrecedence FALSE

Tag (725F42CB-D64D-4F9F-9981-72F01934F48F)-(FBF5D184-BBED-4BC6-85EB-0CD5958A6742)

ConstructionType NOTDEFINED

IfcWindowLiningProperties

Globalid 0T8GwE7Rz3Mv4DS_NaXRD

FirstTransomOffset 0.0

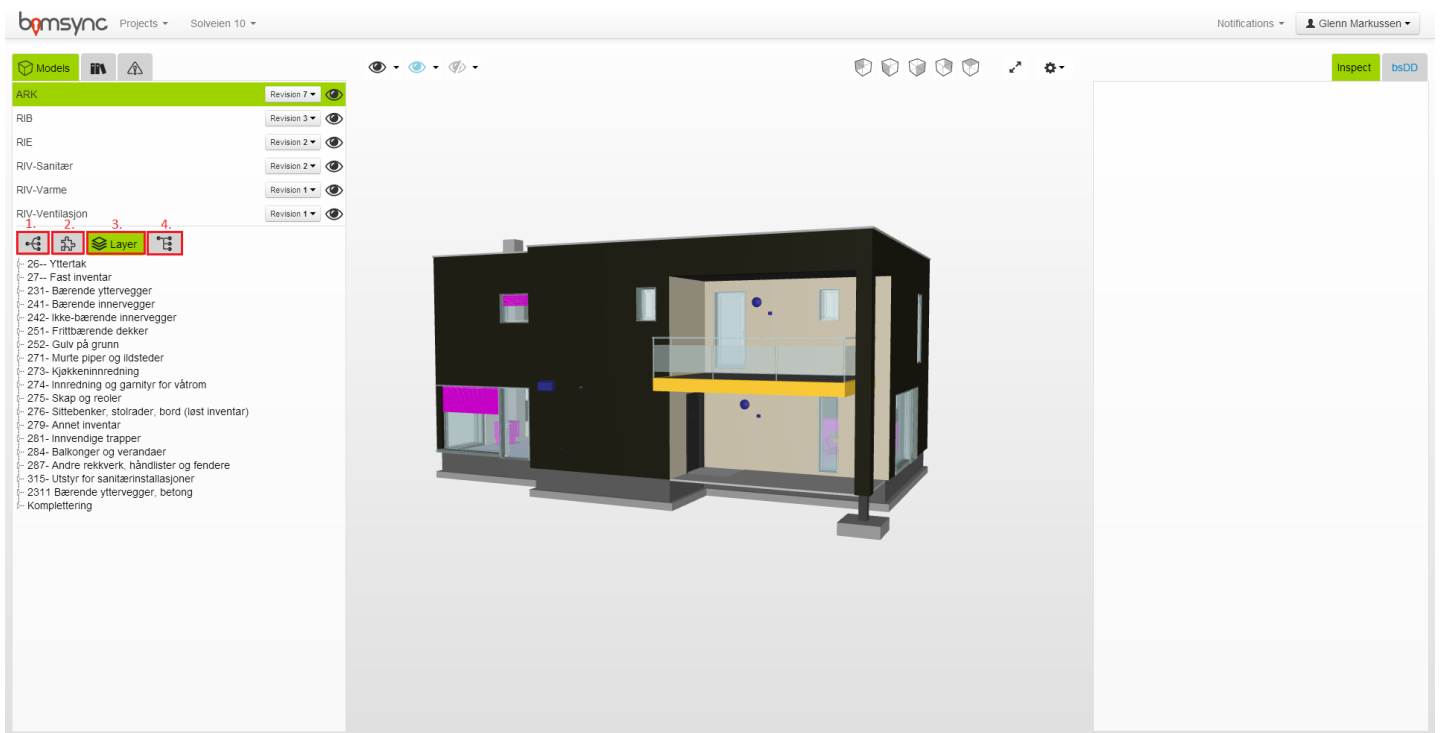
LiningDepth 92.0

MullionThickness 0.0

8.2 The tree structures in the IFC models

In the left part of the viewer screen there is a panel for the tree structures (“trees”) that shows us where a selected object belongs in the model. There are 4 different trees: Containment, Component, Layer and Type.

1. The containment tree provides a hierarchical perspective on how the different IFC objects relate to each other.
2. The component tree provides a hierarchical perspective on the components that make up an object.
3. The layer tree provides a hierarchical view of the layers in the model.
4. The type tree shows all the objects sorted by their type.



8.3 Inspect

The inspect panel shows all the data for the selected object in the BIM. The top part has a dropdown that lets you navigate quickly to the desired part of the information.

In addition to the information from the IFC models(s) it also shows issues related to the selected object. Clicking on a related issue brings you directly to the issue-view (chapter 8.4) with this issue selected.

Selecting a bsDD/products/coBuilder tag presents a dropdown box that lets you either select all other objects with the same tag, or go directly to a web page with for instance information about the product that is tagged.

Selecting two or more objects shows common properties, issues or tags.

3 associated objects

Under programming

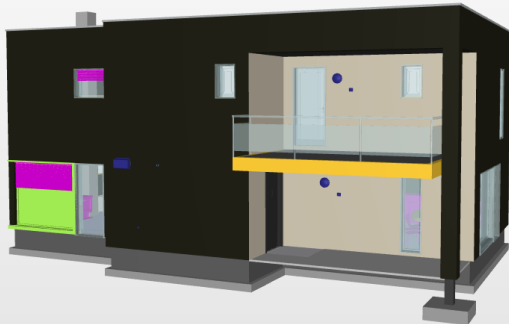
no assignments

Under prosjektering

2 associated objects

Under utbedring

no assignments



GlobalId0jcn3JPz0\$hxhAGQRMPi

OverallWidth2253.0

Issues

Open

Vinduer

Created byHåvard Bell

a year ago

Vindu 01

SizeableFALSE

OperationTypeDOUBLE_PANEL_HORIZONTAL

GlobalId03epL6PYjBHv7T2Keqh8M

ParameterTakesPrecedenceFALSE

Tag{725F42CB-D64D-4F9F-9961-72F01934F49F}. (FBF5D184-BBED-4BC6-85EB-0CD5958A6742)

ConstructionTypeNOTDEFINED

IfcWindowLiningProperties

GlobalId0T8GwE7Rz3Mv4DS_NaXRD

FirstTransomOffset0.0

LiningDepth92.0

MullionThickness0.0

8.4 Issues in the viewer

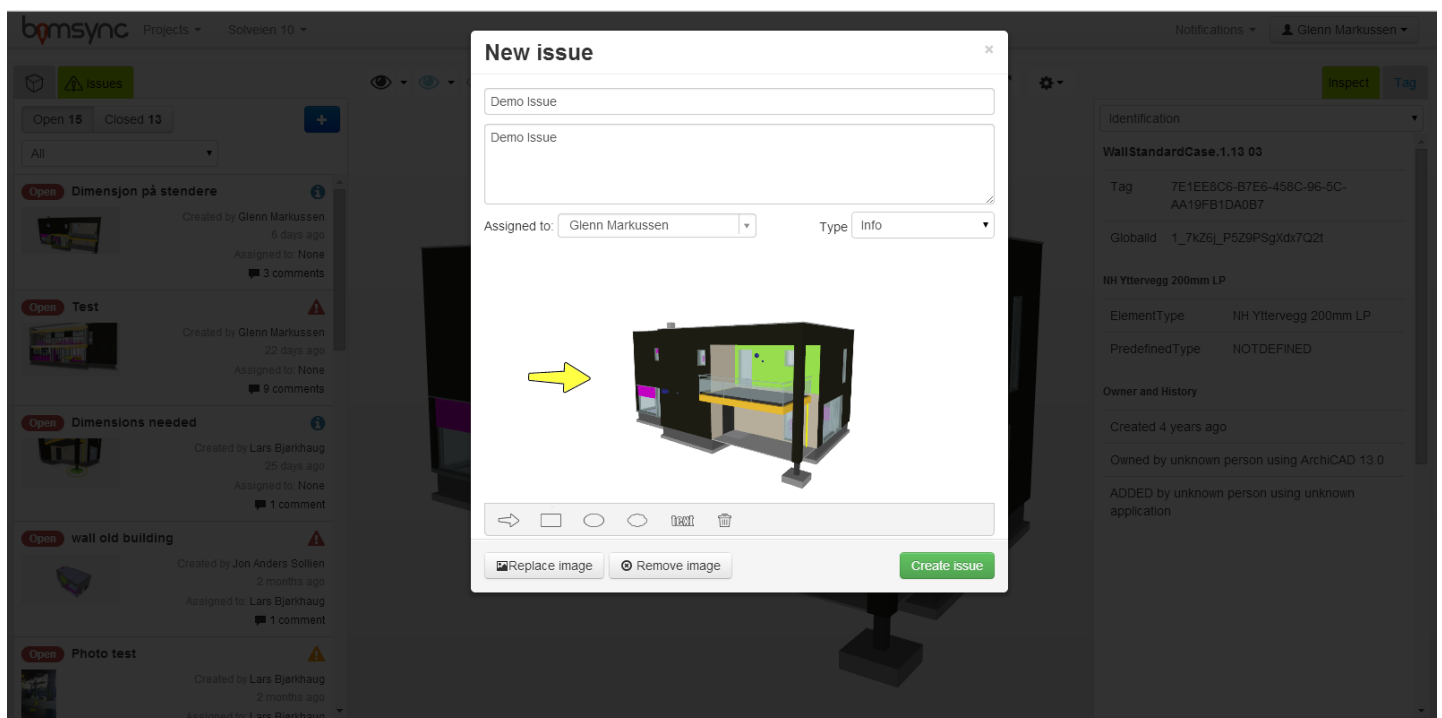
Issues were explained in chapter 4, but when these are used in the viewer there are further opportunities. The viewer has a list of all issues that are open in the project. If you select an issue it will automatically move the camera in the 3D-model to the place where the issue is located. From there you can freely navigate in the model the same way as usual (chapter 7.4).

To create a new issue in the viewer proceed like this: Navigate to the place in the model where you see the objects that you want to create an issue about. Click the “triangle with an exclamation mark inside” (upper left), then click the plus-button. You will then enter a menu like the one in the screenshot on this page.

Automatically an image will be added based on what you see in the 3D-viewer. You can add simple drawings on top of the image or replace it with one from your hard drive. You have to add a subject for the issue and you can optionally add a further description about the issue.

You can also assign the issue to a person if you know who will be responsible for its further progress.

Click “Create issue” when you are done.




8.5 Libraries in the viewer

The libraries function in the viewer, located on one of the tabs on the left part of the screen, can be used in several ways. Objects can be assigned a status code, product data, a link or something similar.

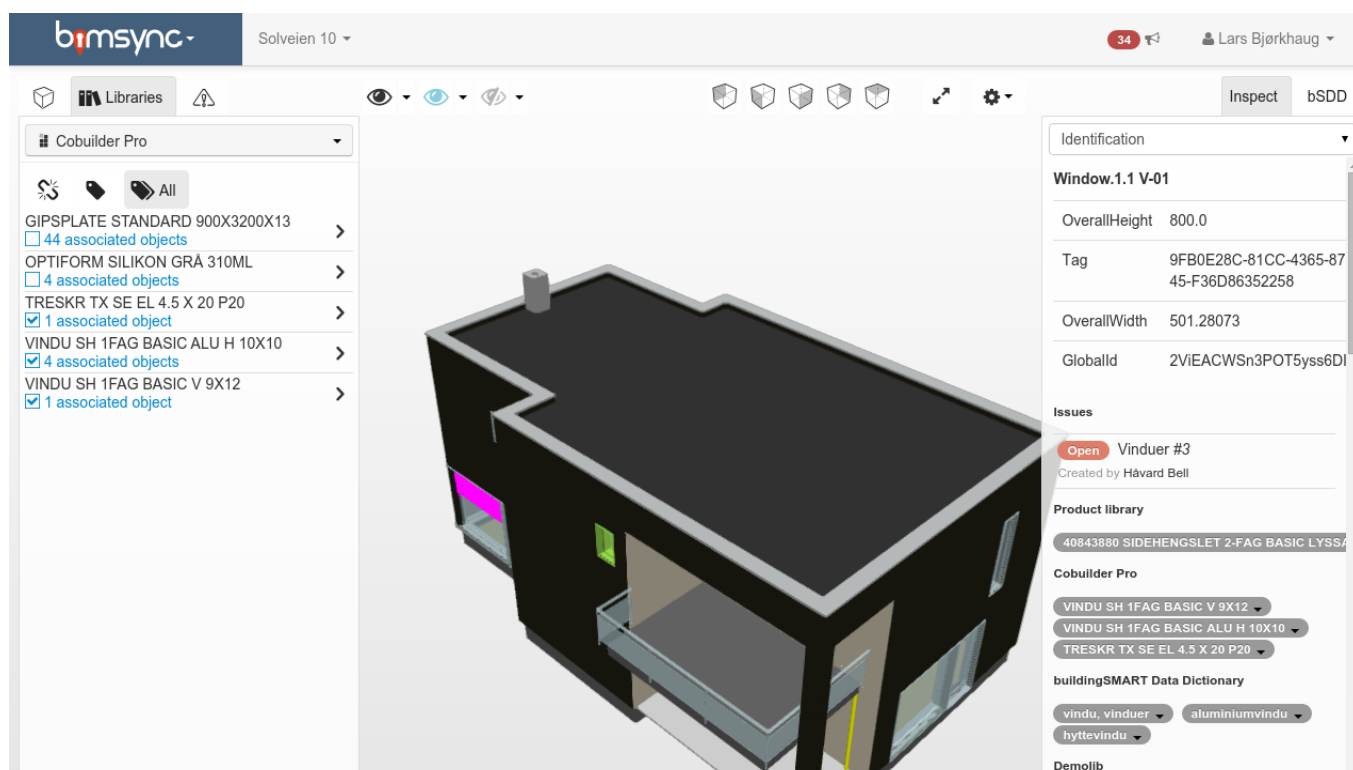
The libraries are object libraries that are imported by the user using the libraries screen. In addition you can assign properties from the buildingSMART Data Dictionary. If the library has attributes they will be assigned to the correct IFC property set.

To assign from a library to one or more objects you first select the object(s) from the 3D-model or the IFC tree. In the screenshot below a window is selected. After selecting a library you now have 3 options: select all content, select all content that is assigned, or select all content that is unassigned. The last two options filter the content of the library so that you get a better picture of what content has been assigned in the model.

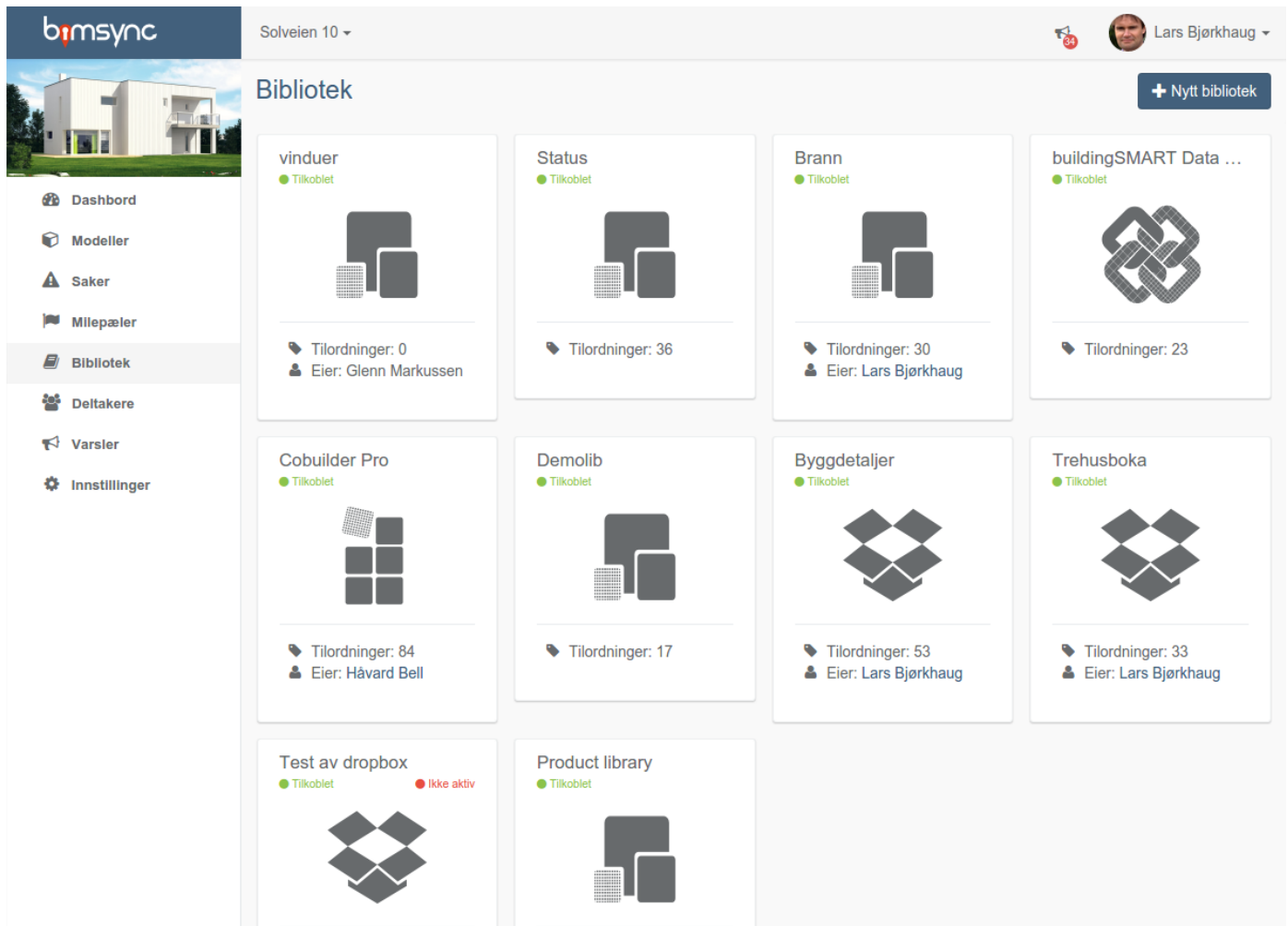
In the example below a library containing several statuses has been used to mark tag an object with how far in the production process the window currently is.

To assign content to the object click the small  below the selected content to directly assign this content to all the selected objects. The content that has been assigned to an object is shown on the inspect tab (chapter 7.7).

All library content and attributes added in bimsync can be merged into the IFC-files if you choose to export the project (chapter 5).



User defined libraries are a simple and practical way of getting existing data into the BIM. They can be used to tag objects with information. User defined libraries can be uploaded as simple spreadsheets (csv).



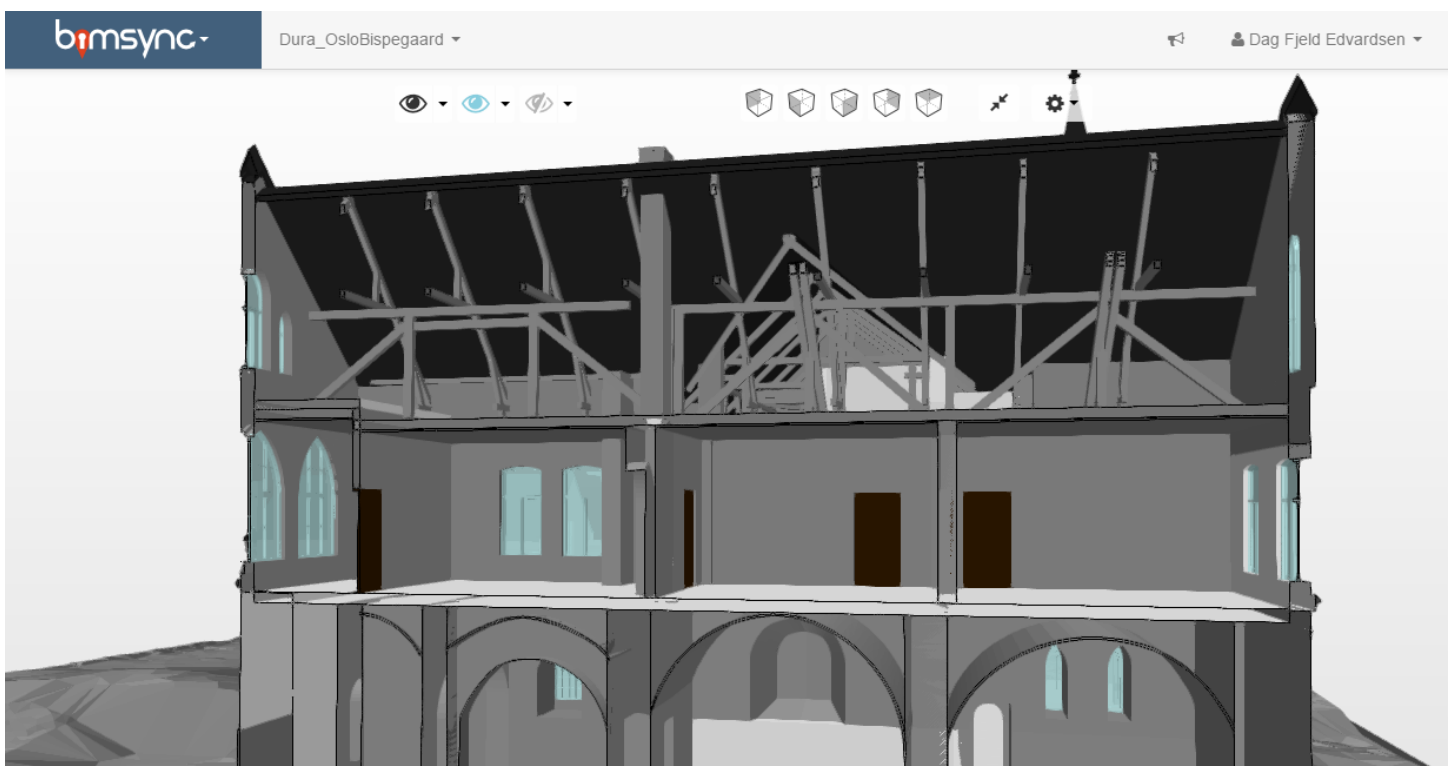
Noen standard bibliotekstyper i bimsync. Listen kan enkelt utvides ved behov. BuildingSMART data dictionary er aktivt for alle prosjekter og vises ikke i listen.

8.6 Clipping / sectioning

bimsync has powerful support for clipping. The purpose is to create one or more planes and then only show what is on one side. That way we can look at the parts of the building you are interested in without having the view obscured. A clipping plane to either horizontally and vertically and thus create a sort of interactive top view or side view of the model. If you wish, you can also cut at a freely chosen angle. You can create up to 6 simultaneous cutting planes.

You can create a cutting plane by first selecting a surface, for instance a wall. Then right-click and select "Add clipping plane". The model will then be clipped by a cutting plane that we can only see the outline of (screenshot below) and parallel to the surface we have chosen when we added the clipping plane. To move the clipping plane, hold the Shift button (the cutting plane then becomes directly visible, not just its outline) and you can select a cutting plane by left-clicking on it. You can move the clipping plane back and forth by holding the left mouse button down and drag it inward or outward. To remove the plane, right-click and select "Remove clipping planes".

Another and often useful way to use clipping planes is to for instance choose a wall that is attached to a storey and then right click and select "Section top and bottom". This creates makes the creation of one cut plan on top of the selected object (the wall) and one beneath, which is often useful to see eg. one storey isolated. The planes created in this way moved and removed in the same way as conventional cutting plane



9. Mobile units

The user interface in bimsync will automatically adapt to the screen size of the device you are using (responsive design). In addition to PCs bimsync is also available on tablets and mobile phones. On mobile units you can work with issues and upload photos. Only relatively modern units with WebGL (Android, iOS, Windows Phone) supports the 3D viewer, but on older devices the other pages work without problems.



10. Notifications

The notification system is useful for keeping track of what happens in the buildings and sites you want to keep track of. There is a megaphone icon that is visible in the menu bar on all screens. It tells you if there has been something new that is relevant for you - for example, if a new revision of a building is uploaded or if someone has assigned an issue to you.

There is also a separate screen that lists the notifications. In addition, one can subscribe to email alerts so you get this information even when you are not actively involved in bimsync.

The screenshot displays the bimsync web application interface. On the left is a vertical sidebar with navigation icons and labels: Dashbord, Modeller, Saker, Milepæler, Bibliotek, Deltakere, Varsler, and Innstillinger. The main content area is titled 'Prosjektvarsler' and shows a list of notifications under the heading 'Siste varsler'. A dropdown menu is open, showing a detailed list of notifications. The notifications include success messages for imports on 'Structure', 'Main', and 'Prefab', an export completion for 'Værste brygge trinn 1', and information messages about user participation. A blue button at the bottom of the dropdown reads 'Vis alle varsler'.

bimsync Dura_OsloBispegaard ▾

Prosjektvarsler

Siste varsler

- Suksess** Importering er ferdig på **Ma**
Sjekket inn ⌚ for en dag siden av
- Suksess** Importering er ferdig på **Ma**
Sjekket inn ⌚ for 13 dager siden
- Info** **Lars Bjørkhaug** ble med i p
⌚ for 13 dager siden
- Info** **Kristian Vedvik Holm** ble m
⌚ for ett år siden
- Info** **Jan Erik Askjellrud** ble med i prosjektet
⌚ for ett år siden
- Suksess** Importering er ferdig på **Main**
Sjekket inn ⌚ for ett år siden
- Suksess** Importering er ferdig på **Main**
Sjekket inn ⌚ for ett år siden
- Suksess** Importering er ferdig på **Main**
Sjekket inn ⌚ for ett år siden
- Suksess** Importering er ferdig på **Main**
Sjekket inn ⌚ for ett år siden
- Suksess** Importering er ferdig på **Main**
Sjekket inn ⌚ for ett år siden

Suksess Importering er ferdig på **Structure**
Sjekket inn ⌚ for en dag siden av Kristian Vedvik Holm i bimsync

Suksess Importering er ferdig på **Main**
Sjekket inn ⌚ for en dag siden av Dag Fjeld Edvardsen i Dura_OsloBispegaard

Suksess Importering er ferdig på **Prefab**
Sjekket inn ⌚ for 2 dager siden av Asim Palic i Værste brygge trinn 1

Suksess Export **Værste brygge trinn 1 2015-08-24 0621** er ferdig
Eksportert ⌚ for 2 dager siden i Værste brygge trinn 1


Suksess Importering er ferdig på **personas2-mr1**
Sjekket inn ⌚ for 5 dager siden av Lars Bjørkhaug i Personas1

Vis alle varsler


11. Geo location

The geolocation feature allows you to place the building in the world.


There is also support in bimsync for "the campus guide," which allows for in-place (on-site) navigation and indoor navigation. Contact us if the project would like to take this into use.











Solveien 10 ▾




Lars Bjørkhaug ▾



Innstillinger



Prosjektdetaljer

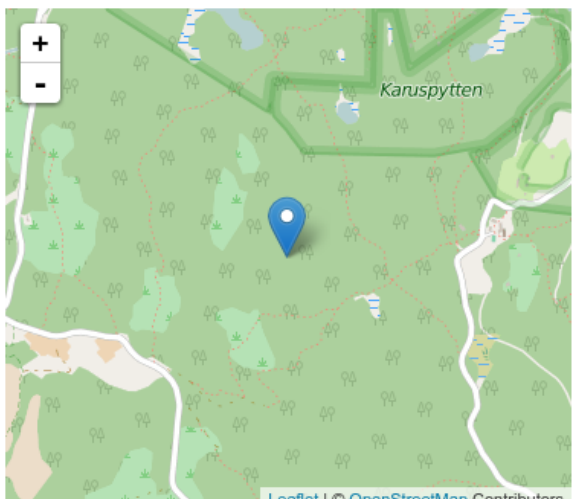


Prosjektnavn
Solveien 10

Beskrivelse

???

Geolokasjon



Breddegrad
60.01683463398483

Lengdegrad
10.651245117187498

Nord retning
Rett nord retning ved å dreie på modellen rundt Z-aksen
0.0

12. API

bimsync has powerful APIs that allow external applications to use its functionality or exchange data. We have several APIs:

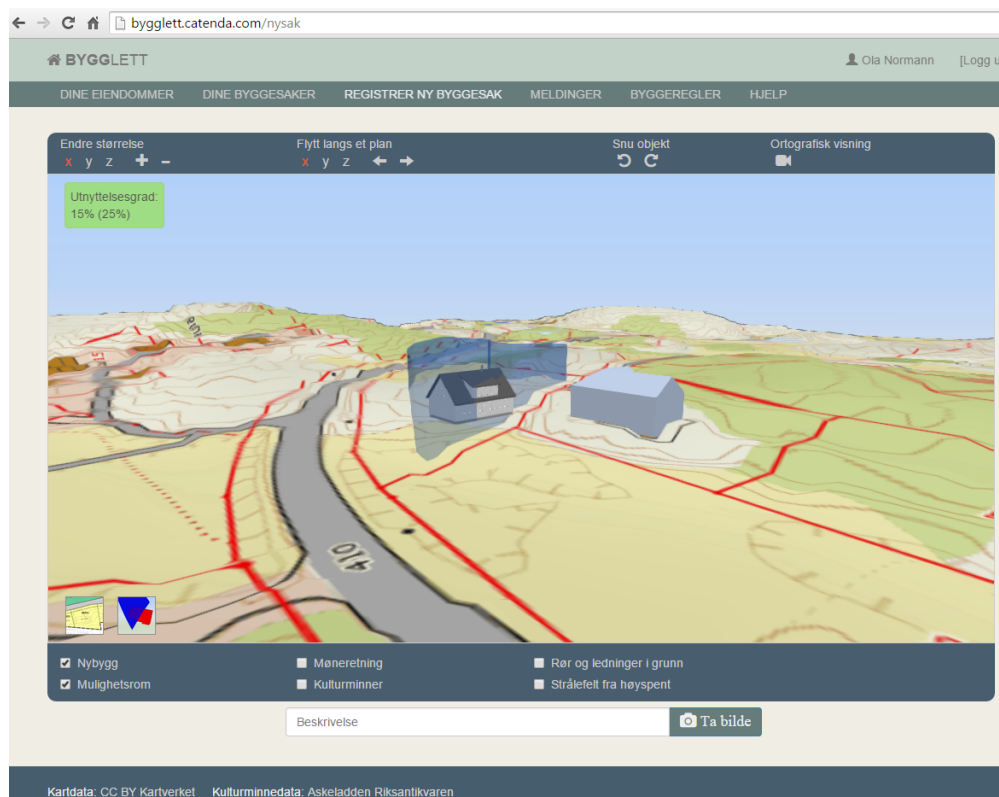
- data API version 1 and 2
- 3D viewer API
- 2D viewer API (coming soon)
- BCF API (coming soon)

Several companies relies on bimsync to provide BIM functionality for their applications.

Catenda, the creators of bimsync, use the viewer and data APIs ourselves in several projects since it allows us to quickly create applications with BIM functionality. One example is the “bygglett” demo app where we showcase how building application permits can be made much more understandable by visualizing regulations and government rules: <http://bygglett.catenda.com/>

Contact us to learn more about what we can offer and how you can become an API client.

See here for specific information about our API: <https://bimsync.com/developers/reference/api/1.0>



<- the bygglett demo showing bimsync 3D viewer, government data and streamed 3D map data combined