



Aalto University
School of Engineering

RAK-C3003 - Tietoyhdennetty rakentaminen
(Vishal Singh, Sunil Suwal)

Aalto BIM exercise

Trimble connect



Aalto University
School of Engineering

BIM coordination and quality assurance

Good to know



Yleiset tietomallivaatimukset YTV2012

Osa 1 Yleinen osuus

Osa 2 Lähtötilanteen mallinnus

Osa 3 Arkkitehtisuunnittelu

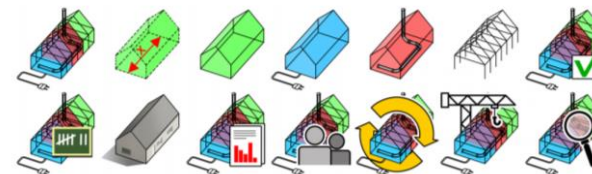
Osa 4 Talotekninen suunnitte

Osa 5 Rakennesuunnittelu

Osa 6 Laadunvarmistus

Osa 7 Määrälaskenta

Osa 8 Havainnollistaminen



COBIM Common BIM Requirements
2012

Osa 9 Mallien käyttö talotekniikan analyyseissä

Osa 10 Energia-analyysit

Osa 11 Tietomallipohjaisen projektin johtaminen

Osa 12 Tietomallien hyödyntäminen rakennuksen käytön ja ylläpidon aikana

Osa 13 Tietomallien hyödyntäminen rakentamisessa

Osa 14 Tietomallien hyödyntäminen rakennusvalvonnassa

Tools – coordination and quality checking



simplebim.[®]



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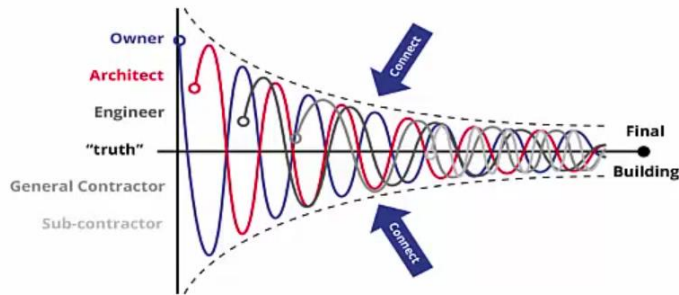
Trimble connect demo

Collaboration and clash detection

What Trimble Connect Brings

Ecosystem of Collaboration

Agnostic, Secure, Simple, Robust, Global, Cloud
Platform & Technology Services
Single Source of Truth



Folder and file structure

website:

<http://connect.trimble.com/>

Create an account for trimble and upload files (solibri IFC files – available on mycourses)

- ARK (folder)
 - SMC rakennus
 - SMC rakennus-muutettu
- MEP (folder)
 - IV-pohjakerros; IV-1krs; IV-2krs
- RAK (folder)
 - SMC rakennus rekenne

You can use trimble connect desktop app or internet browser

Solibri files normally available at -
C:\Users\Public\Solibri\SMCv9.9\Samples\ifc

Password must contain
-8 Characters
-A digit [0-9]
-A combination of lower & uppercase letters [aA-zZ]
-A special character [!@#\$%^*_+]

The screenshot displays the Trimble Connect web application interface. At the top, a browser window shows the URL <https://app.connect.trimble.com/tc/app#/project/CoxW0Kz/vg/y/data/folder/n315uAlngm4>. The main interface has a navigation bar with 'DATA', 'ACTIVITY', 'TODO', 'TEAM', and 'SETTINGS'. A modal window titled 'Upload files to 'ARK'' is open, showing a progress bar at 100% and a file named 'SMC Rakennus - muutettu.ifc' (16.1 MB). Below the modal, the 'PROJECTS' tab is active, showing a project named 'Aalto Demo' with a large 'A!' logo. The 'Explorer' panel on the right shows a folder structure: ARK (containing SMC Rakennus - muutettu.ifc and SMC Rakennus.ifc), MEP (containing IV-1krs.ifc, IV-2krs.ifc, and IV-pohjakerros.ifc), and RAK (containing SMC Rakennus Rakenne.ifc). Metadata for the 'Aalto Demo' project is shown at the bottom: Created on tiistai 28. maaliskuuta 2017 20:19, Created by sunyls@gmail.com, Last modified tiistai 28. maaliskuuta 2017 20:31.

Trimble connect views

Navigate to the folders and select ARK and MEP files (4 files) and click to view them

The screenshot shows the Trimble Connect web interface. On the left, the 'Resurssienhallinta' (Resource Management) sidebar is open, showing a folder structure with 'ARK' and 'MEP' folders. The 'MEP' folder is selected, and a table lists four files: 'First_Floor_Vent.ifc', 'Ground_Floor_Vent.ifc', and 'Second_Floor_Vent.ifc'. A 'View' button is visible in the top right of the file list. On the right, a 3D model of a building is shown. A context menu is open over the model, listing various elements like 'Virtaussegmentit', 'Virtausliittimet', etc. A 'Tilat' (Spaces) option is highlighted in the menu. A 'ToDo-tehtävä' (ToDo task) list is visible at the bottom of the interface.

Nimi	Koko	Viimeisin muokkaaja	Muokattu viimeksi
First_Floor_Vent.ifc	198 KB	Sunil Suwal	Jan 29 2018 06:06 ...
Ground_Floor_Vent.ifc	235 KB	Sunil Suwal	Jan 29 2018 06:06 ...
Second_Floor_Vent.ifc	226 KB	Sunil Suwal	Jan 29 2018 06:06 ...

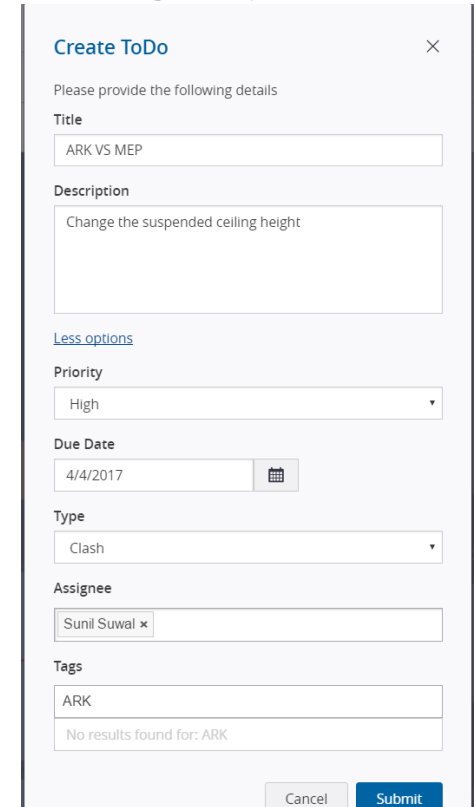
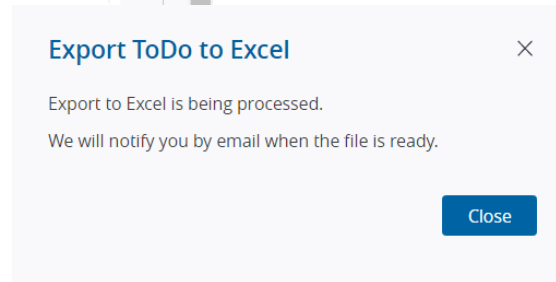
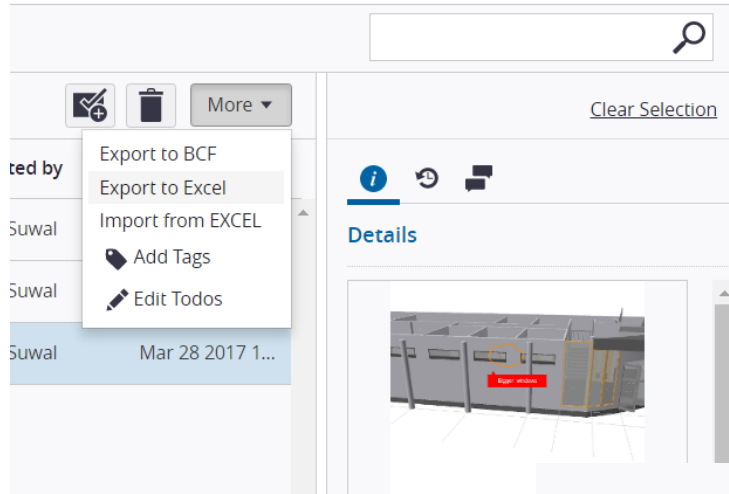
- ToDo-tehtävä
- Näkymät
- Mallin liitteet
- Törmäystarkastelut
- Raportit

- Virtaussegmentit
- Virtausliittimet
- Virtauksen päätepiست
- Virtausenohjaajat
- Rakennuselementin paikkamerkk
- Ovet
- Portaat
- Standardiseinalohkot
- Ikkunat
- Päällykset
- Laatat
- Pystypaalut
- Tilat
- Hilat
- Kaiteet
- Merkintä

Turn on and off the spaces/tilat

Clashes

Create at least 5 To-Do list and submit the resulting excel file through mycourse



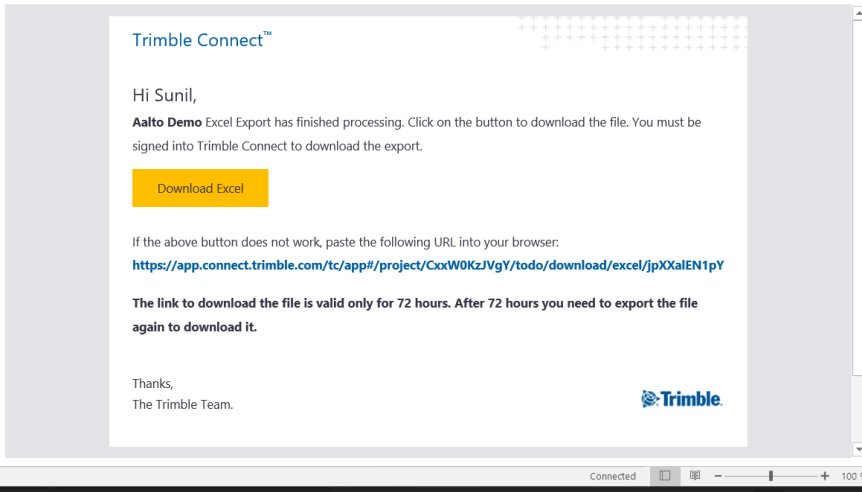


Trimble Connect <mailsender@gteam.com>

Aalto Demo Excel export has finished processing

To: sunyls@gmail.com

If there are problems with how this message is displayed, click here to view it in a web browser.



You will receive the link to download the file in your email.

Download the excel and submit it in mycourses.

If you do not get the email, make screenshots of your To-Do tasks and put in in word or excel and submit.

Thank you