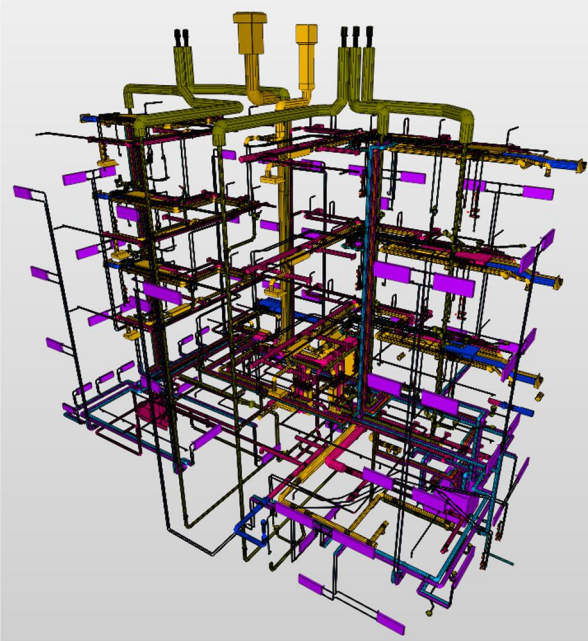


BIM Specification

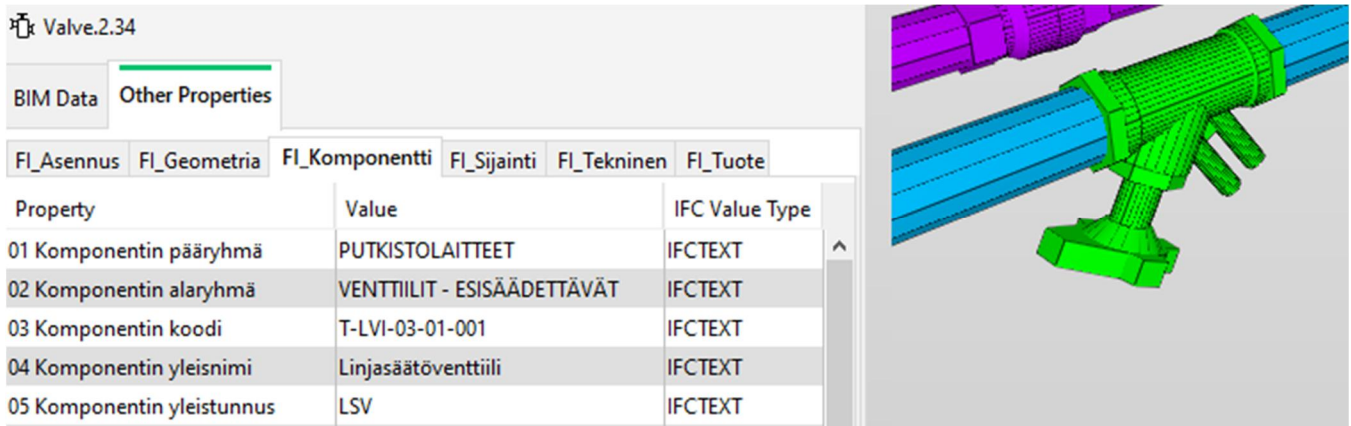
HVAC_NordicLCA_Housing_Timber_BuildingPermit.ifc

| DISCIPLINE | HVAC |
|---------------------------|---|
| View of the model |  |
| Project | BIM4LCA |
| Design phase | Detail Design |
| Initial date | 16.6.2024 |
| Revision date | |
| Revision version | |
| Company | Granlund Oy |
| BIM4LCA project leader | Rita Lavikka, VTT |
| Software | MagiCAD for Revit 2024 |
| Native model | HVAC_NordicLCA_Housing_Timber_BuildingPermit.rvt |
| More info on, comments... | MEP standardization guide, please see document: 0_MEP_standardization_2024.pdf |

| OVERVIEW OF MODELING PRINCIPLES | |
|---------------------------------|---|
| Nomenclatures to be used | - |
| Naming product components | http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA_Versio_1_0 |
| Naming of systems | http://uri.suomi.fi/codelist/rytj/LVI-JARJESTELMA_Versio_1_0 |
| Units | mm |
| Coordinate reference system | ETRS-GK 25 coordinate system N2000-height system |
| Origo (x,y,z) | Origo according to the architectural model |

| | |
|---------------------------------------|---|
| | The project does not rotate models in the project coordinate system, all models are modeled at a real-world angle. |
| Floor names and floor elevations | Merenpinta +0,00 Perustukset +47,30 Kellari +49,07 01_Kerros +52,00 02_Kerros +55,14 03_Kerros +58,46 04_Kerros +61,77 Vesikatto +64,68 |
| IFC-version | IFC4 |
| Model accuracy | Detail Design |
| Deviations from the level of accuracy | - |
| Information content | According to Rava3pro project (www.rava3pro.fi , https://search.bsdd.buildingsmart.org/uri/finnish-mep/FI-MEP/1.0) |
| Deviations from the data content | - |

Example how to recognize MEP component



Component common names can be found from in Finnish national common code platform:
http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA_Versio_1_0

| Identification of components | | |
|------------------------------|----------------------------|---|
| Property Set | Property | Values used |
| FI_Komponentti | 01 Komponentin pääryhmä | Level 1: "Koodin nimi" http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA_Versio_1_0 |
| FI_Komponentti | 01 Komponentin alaryhmä | Level 2: "Koodin nimi" http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA_Versio_1_0 |
| FI_Komponentti | 01 Komponentin koodi | Level 3: "Koodin arvo" http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA_Versio_1_0 |
| FI_Komponentti | 01 Komponentin yleisnimi | Level 3: "Koodin nimi" http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA_Versio_1_0 |
| FI_Komponentti | 01 Komponentin yleistunnus | Level 3: "Lyhyt nimi" http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA_Versio_1_0 |



BIM SPECIFICATION

3 (4)
16.6.2024

| Identification of systems | | |
|---------------------------|----------------------------------|---|
| Property Set | Property | Values used |
| FI_Järjestelmä | 01 Järjestelmälaaji | Level 1: http://uri.suomi.fi/codelist/rytj/LVI-JARJESTELMA_Versio_1_0/code/J-LVI |
| FI_Järjestelmä | 01 Järjestelmäluokka | Level 2: "Koodin nimi" http://uri.suomi.fi/codelist/rytj/LVI-JARJESTELMA_Versio_1_0/code/J-LVI |
| FI_Järjestelmä | 01 Järjestelmän koodi | Level 3: "Koodin arvo" http://uri.suomi.fi/codelist/rytj/LVI-JARJESTELMA_Versio_1_0/code/J-LVI |
| FI_Järjestelmä | 01 Järjestelmätyyppi | Level 3: "Koodin nimi" http://uri.suomi.fi/codelist/rytj/LVI-JARJESTELMA_Versio_1_0/code/J-LVI |
| FI_Järjestelmä | 01 Järjestelmätyypin yleistunnus | Level 3: "Lyhyt nimi" http://uri.suomi.fi/codelist/rytj/LVI-JARJESTELMA_Versio_1_0/code/J-LVI |

PROPERTY NAMES:

| CODE (level 1) | COMPONENT GROUP | |
|-------------------|--------------------------|---------------------------|
| CODE (level 2) | COMPONENT SUBGROUP | |
| CODE (level 3) | COMMON NAME | ABBREVIATION |
| <i>not in use</i> | 01 Component group | |
| <i>not in use</i> | 02 Component subgroup | |
| 03 Component code | 04 Component common name | 05 Component abbreviation |

EXAMPLE: Zone Valve [LSV]

| | | |
|-------------------|----------------------|-----|
| <i>not in use</i> | PIPE ACCESSORIES | |
| <i>not in use</i> | VALVES - PRESETTABLE | |
| T-LVI-03-01-001 | Zone Valve | LSV |

EXAMPLE IN TABULAR FORM

| PROPERTY SET |
|--------------|
| FI_Component |

| PROPERTY | VALUE |
|---------------------------|----------------------|
| 01 Component group | PIPE ACCESSORIES |
| 02 Component subgroup | VALVES - PRESETTABLE |
| 03 Component code | T-LVI-03-01-001 |
| 04 Component common name | Zone Valve |
| 05 Component abbreviation | LSV |

You only need to include the codes
CODE (level 3).

Other levels of the code can be deduced from the beginning of the code.