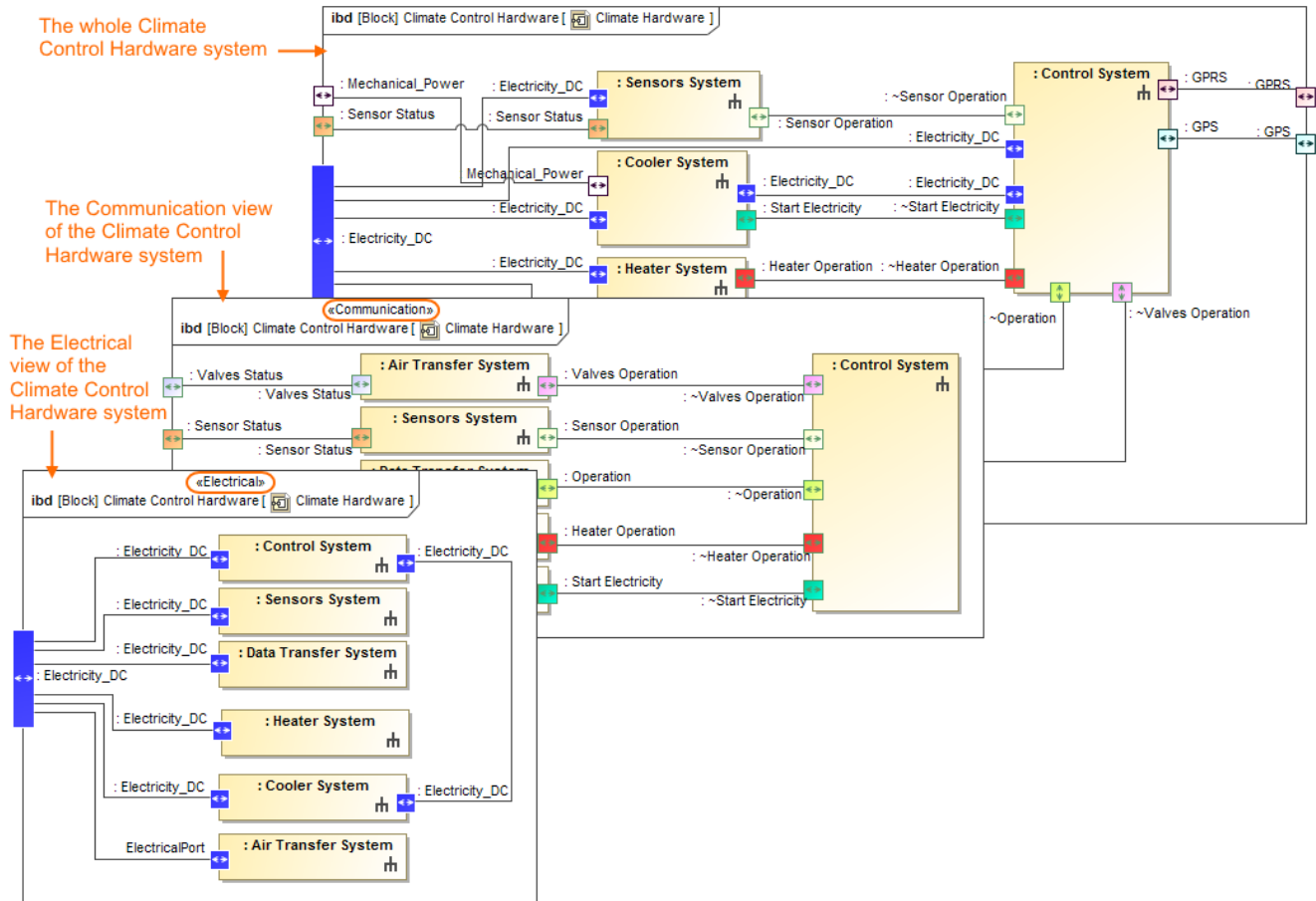


Diagram aspects

Diagram aspects allow you to create different views, e.g., electrical, mechanical, and optical, for the same system structure. The aspects functionality is driven by stereotypes, which allows you to use predefined aspects (only included in [SysML Plugin](#) or other customizations) or custom aspects for diagrams. This enables you to:

- Set any number of aspects for one diagram.
- Drill down navigation from the Part shape to its internal structure.
- Create an Aspect diagram directly from the Part shape.
- Display parts and ports according to aspects.
- Use aspects with multiple [layout templates](#).

The figure below demonstrates the usage of [predefined diagram aspects](#). Three SysML Internal Block Diagrams of the same *Climate Control Hardware* system are of different aspects: electrical and communication. The Internal Block Diagram with the electrical aspect shows only the electrical structure of the *Climate Control Hardware* system. Correspondingly, the IBD with the communication aspect shows only the communication structure.



The Climate Control Hardware views through different aspects. The illustration displays concepts from SysML Plugin.

The main workflow to start using the diagrams aspect functionality in your model is the following.

To use diagram aspects

1. [Create a new project](#) or [open an existing one](#).
2. Enable the diagrams aspect option. [Enabling or disabling diagram aspects option>>](#)
3. Make sure that predefined aspects are enough for you. [Finding predefined diagram aspects>>](#)
4. If predefined aspects are not what you expect, create your own aspect that you can apply to a diagram. [Creating custom aspects>>](#)
5. Create a new aspect diagram:
 - by creating a new diagram with already applied aspect: [Creating an aspect diagram>>](#)
 - by applying predefined (#3) or custom aspects (step #4) for an existing diagram. [Applying or removing aspect for preexisting diagrams>>](#)
6. After your model contains diagrams with defined aspects, you can [display parts and ports according to aspects](#) and [navigate among aspect diagrams](#).

Child pages

Related pages

Sample model

- [Diagramming](#)

- Enabling or disabling diagram aspects option
- Specifying or removing ignored aspects
- Finding predefined diagram aspects
- Creating custom aspects
- Creating an aspect diagram
- Applying or removing aspect for preexisting diagrams
- How aspects match with parts and ports
- Navigation among aspect diagrams
- Displaying parts and ports according to aspects

- Layout templates
- Using layout templates with diagram aspects
- Displaying rake icon
- Displaying parts and ports
- Stereotype
- Profile Diagram
- Creating diagrams
- Generalization

The model used in the figures of this page is the **Diagram aspects** sample models that comes with [SysML Plugin](#). To open this sample properly you need to install the SysML plugin in the MagicDraw and:

- Download [diagram aspects.mdzip](#).
- Find in the modeling tool: *<modeling tool installation directory>\samples\SysML\diagram aspects.mdzip*.