

# Getting started

## Product Line Engineering 19.0 LTR SP4

To work with Product Line Engineering (PLE) tools, you must install two plugins in modeling tools developed by No Magic Inc.:

- The main plugin Product Line Engineering, implementing generic PLE functionality, such as a Variant Realization transformation.
- The additional plugin, implementing integration with specific a PLE tool. For now they are:
  - For the BigLever Software Gears™ tool you need the **MagicDraw/Gears Bridge** plugin, provided by [BigLever Software, Inc.™](#)
  - For the pure-systems GmbH **pure::variants** tool you need the **Pure Variants Integration** plugin, provided by No Magic, Inc.™
  - If you are a PLE tool vendor, you can also develop your own integration plugin using Open API, provided by the main PLE plugin.

To manipulate with model variants, the following software should be installed on your machine:

- MagicDraw or other modeling tool developed by No Magic Inc.
- [Product Line Engineering plugin](#) for the modeling tool.
- For **pure::variants** users:
  - [Pure Variants Integration plugin](#) for the modeling tool.
  - Pure::variants (4.0.0 beta or later).
- For **Gears** users:
  - MagicDraw/Gears Bridge plugin for the modeling tool.
  - Gears (7.7 or later).

### Related pages

- [Installation and licensing](#)