

# PLC - Path-Element Interaction

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In order to better describe the interaction between paths and conveyors/machines, it was decided to represent them with the following diagrams and blocks, instead of doing an exhaustive description of all possible paths, conveyors and machines in an UML Sequence Diagram.

A conveyor/machine has the following variables accessible from outside of the block:

- FreeI\_x and FreeO - directly connected to the blocks next to it;
- Sendx() and PushO\_x - connected to multiple paths that can use the block.

A path has the connections to the conveyors/machines, an activation variable (activatePath()), an EndOfPath variable and a confirmation that the MES have received the EndOfPath.

