

MotoSim Plug-in WinMOD MS200

Virtual Commissioning of Systems with MotoSIM EG-VRC and WinMOD

The WinMOD MS200 plug-in is a software add-on that connects the powerful offline simulation software YASKAWA MotoSim EG-VRC with the real-time simulation software WinMOD. It enables the exchange of signal data between robot controllers (offline programming) and the WinMOD communication element.

The WinMOD system can be used to create virtual simulations of real systems. The entire control-relevant behaviour of the physical system is reproduced in detail and simulated in real time.

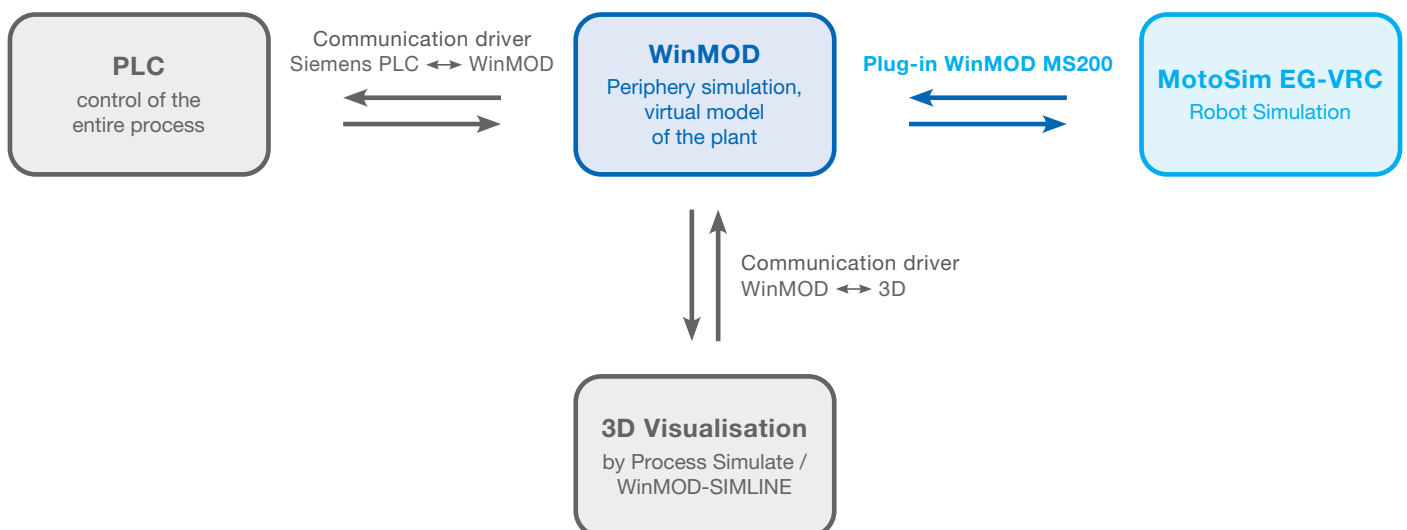
The WinMOD MS200 plugin makes it possible to integrate virtual robots programmed with MotoSim EG-VRC into

your existing WinMOD system. This allows the robots to be connected to various automation systems and tested in combination with real or virtual controllers.

Depending on the application, the robot peripherals (e.g. grippers or tracks), the material flow and the component messages of the overall system can also be simulated and visualised as a 3D model.

The functional behaviour of components and processes is realised through real-time simulations within the WinMOD environment or by linking selected subsystems with external simulations (e.g. with Process Simulate).

Simulation of a virtual plant



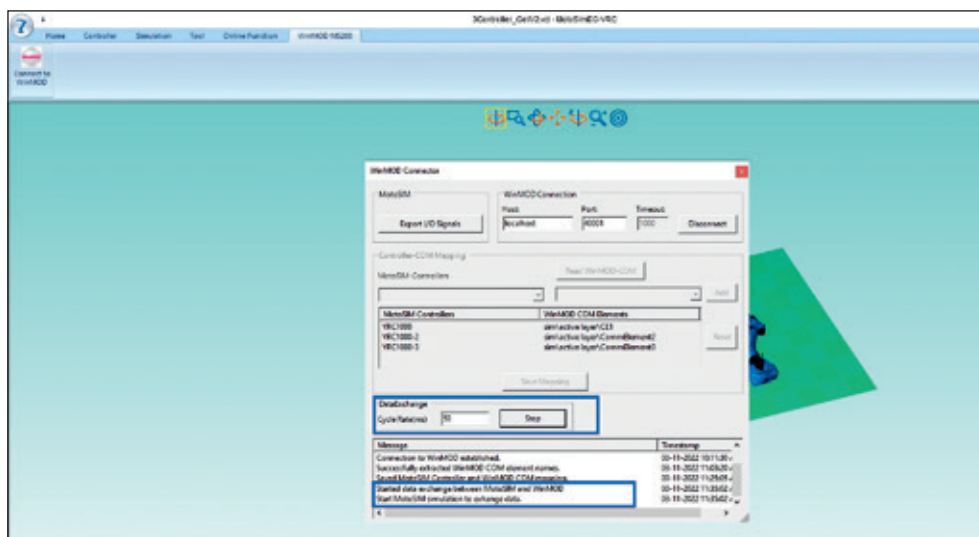
KEY BENEFITS

- Performance and security of WinMOD-NET:
The connection is network-compatible and encrypted – this means that coupling is possible both locally and via network connections (e.g. Internet)
- Bidirectional communication of I/Os between PLC and robot
- Bidirectional communication of I/Os between the robot and its internal and external peripherals (e.g. gripper)
- Unidirectional communication of axis values (WinMOD reads data)
- Simple workflow for exporting robot signal lists from Yaskawa MotoSim EG-VRC and importing them into the WinMOD communication element

System Requirements

1. The system where WinMOD MS200 is installed should have the following software:
Yaskawa MotoSIM EG-VRC version 2022 and higher.
2. The machine where WinMOD software is installed should have the following software:
WinMOD system software V7.2 Build 56 and higher.
3. Both the systems using WinMOD and MotoSIM should be available on the same LAN.

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Screenshot showing an example of creating, configuring and starting a communication connection between WinMOD and MotoSim EG-VRC.



Illustration of the transmission of the axis values of a robot from MotoSIM EG-VRC (marked in red on the left) and the values transmitted via the WinMOD MS200 plug-in (marked in red on the right). The axis values on the WinMOD page correspond to the axis values of robots programmed offline.

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