

ROBOLIVE® IT INFORMATION

RoboLive® is a solution that is adapted to customer-specific requirements. This includes existing IT structures, standards, information security guidelines and network segmentation rules. The best practice approach is outlined below.

COMMUNICATION BETWEEN SERVER AND ROBOTS

RoboLive® collects robot data by transferring the relevant robot files to the RoboLive® server via the network at a freely selectable frequency. The SMB (port 445) and FTP (port 20/21) protocols are currently supported, but other protocols can also be configured. Synchronization with Fanuc, KUKA and Yaskawa has been tested, and other robot brands will follow.

RoboLive® only synchronizes changed files. The total transfer size and duration during a robot synchronization depends heavily on the number of connected robots, the hardware, and various configurations. Experience has shown that it takes around half an hour to synchronize around a thousand robots with a size of approx. 5 GB. So far, there have been no challenges with any latencies.

ONE-TIME SERVER SETUP

To set up and operate the RoboLive® server, a reserved IP address in the production network and a virtual machine on the customer's production server with sufficient performance are required. (For example, at least 500 GB hard disk space and 4 GB RAM are required for a thousand robots.) The Linux version can be chosen freely, or Dressler Automation can provide a prepared Debian version. Our staff can guide the installation or carry it out autonomously with the appropriate rights. For further configurations, staff will require VPN access to the VM. At no time is a production stop necessary.

ONE-TIME PRODUCT CONFIGURATION

For each product, Dressler Automation prepares the CAD data (e.g. STEP, JT) and the target data (e.g. Excel, XML) in advance, embeds them on the RoboLive® server and configures it. The license fees depend on the number of connected robots and are unlimited in time. They include three adaptations of the CAD data. The customer can make changes to the plan data themselves via access to the VM and a corresponding tool. There are no ongoing costs.

COMMUNICATION BETWEEN SERVER AND CLIENTS

The RoboLive® client can be installed on the desired PCs or HMIs. These must be connected to the production network, run Windows 64bit and be able to render 3D graphics. There are no restrictions regarding the number of installations, simultaneous use, or use during a running synchronization. The server hosts Windows shares (SMB protocol) for communication and customer configuration.