MCIS RPC 2.6 for SINUMERIK Operate

Application Examples
MCIS RPC for SINUMERIK Operate
Overview

Target group: OEMs, end customers (prod. & maintenance), Software Houses & Integrators

Benefit for OEMs resp. end customers:

- Independency: Integration of the SINUMERIK system in control system tasks through free programming of host computer applications
- Investment security: Extend the existing control system solution by SINUMERIK controllers

Function:
- Definition and software packages provide an interface to the manufacturing host computer
- Comprehensive function libraries with the possibility to use PLC, NC and HMI functions throughout the network
- Coordinate handling tasks with the controller

Runtime software for controllers & host computers

Interface description, function calls, etc.
MCIS RPC for SINUMERIK Operate
Hardware configuration and software environment

Standard solution: Max. 4 machines
The RPC client software is installed on the server additionally to RPC.OCX. Max. four SINUMERIK Operate machines (with TCU or PCU 50) can be connected in this version.

Project solution: > 4 machines
The RPC.OCX is installed on the server and the RPC client software on IPCs (installed in the control cabinet). Max. four SIN 840D controllers (with TCU or PCU 50) can be connected per IPC. Customer-specific project solution: Releases are issued at the APC Cologne.
MCIS RPC for SINUMERIK Operate
Version with up to four embedded machines

Properties
- Up to 4 machines can be connected with SINUMERIK Operate. Can be extended by HMI Advanced machines

Supplementary conditions
- Additionally to RPC.ocx, you have to install the RPC client software that is usually installed on the controller.
- Not available: "Dialog programs of the HMI Advanced solution"
  - Transfer of NC programs
  - Controller status report to the host
MCIS RPC for SINUMERIK Operate
Version for many embedded machine (IPC)

Properties
An arbitrary number of machines can be connected

Supplementary conditions
- One IPC is required for 1-4 machines each
- Not available: "Dialog programs of the HMI Advanced solution"
  - Transfer of NC programs
  - Controller status report to the host
MCIS RPC for SINUMERIK Operate
Overview of versions

![Diagram showing MCIS RPC for SINUMERIK Operate versions]

**MCIS RPCsl TCU 50**
- **Host computer**
- **Customer applications**
  - RPC.OCX 1st instance
  - RPC.OCX n. instance
- **IPC**
  - MCIS_RPCsl CFG
  - MCIS_RPCsl.EXE
  - SCMsl.DLL
- **Ethernet**
- **NCU sl with TCU**

**MCIS RPCsl PCU**
- **Host computer**
- **Customer applications**
  - RPC.OCX 1st instance
  - RPC.OCX n. instance
- **IPC**
  - MCIS_RPCsl CFG
  - MCIS_RPCsl.EXE
  - SCMsl.DLL
- **Ethernet**
- **NCU sl with PCU**

**MCIS RPCsl**
- **Host computer**
- **Customer applications**
  - RPC.OCX 1st instance
  - RPC.OCX 2nd instance
- **IPC**
  - MCIS_RPCsl CFG
  - MCIS_RPCsl.EXE
  - SCMsl.DLL
- **Ethernet**
- **NCU sl with TCU/PCU**

**Project solution (>4 machines)**

**Standard solution (4 m.)**
MCIS RPC – Mixed operation within the project
SINUMERIK Operate TCU/PCU and HMI Advanced

Project-specific release via APC Cologne through tests in Cologne or commissioning offer / execution.
Thank you for your kind attention!

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