

SINUMERIK

SINUMERIK Integrate 5, Manage MyResources, Optimize MyProgramming /NX-Cam Editor

Readme

Valid for control system:
SINUMERIK 840D, 840D sl/ 840DE sl,
SINUMERIK 828D

Software
SINUMERIK Integrate, version 5.0.3.0

Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

 DANGER

indicates that death or severe personal injury will result if proper precautions are not taken.
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 WARNING
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indicates that death or severe personal injury may result if proper precautions are not taken.

 CAUTION
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indicates that minor personal injury can result if proper precautions are not taken.
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NOTICE

indicates that property damage can result if proper precautions are not taken.
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If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Siemens products

Note the following:

 WARNING
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Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.
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We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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Introduction

Overview

This readme file contains general conditions and restrictions as well as information relating to configuration and operation.

This information takes priority over the information provided in the product documentation, and possibly replaces the corresponding data in the operating and installation manuals.

Scope of validity

The conditions and restrictions as well as the notes refer to the following product releases:

- SINUMERIK Integrate, version 5.0.3.0
- Manage MyResources /Tools, version 1.0.3.0
- Manage MyResources /Programs, version 1.0.3.0
- Optimize MyProgramming /NX-Cam Editor, version 1.0.3.0

Product information /technical update /restrictions

2.1 General conditions

The following general conditions and functional restrictions apply to the following applications:

- SINUMERIK Integrate 5
- Manage MyResources /Tools
- Manage MyResources /Programs
- Optimize MyProgramming / NX-Cam Editor

SINUMERIK Operate - Button texts are missing

Error description

On a SINUMERIK Operate, where no applications, nor the Installer or the Base was installed, after a SINUMERIK Integrate 5 version 5.0.3.0 Application is installed, all texts are missing, or malformed.

Remedy

Manually create a folder with the name "lng" in the following path:

- on PCU/IPC: C:\Program Files (x86)\Siemens\MotionControl\addon\sinumerik\hmi
- on NCU: /addon/sinumerik/hmi

HMI-Advanced – Offline machine during server update

Error description

When an HMI-Advanced machine, which was onboarded to the previous SINUEMERIK Integrate 5 server, goes offline during and after the server update, on the Application Assignment page no installable Application(s) will appear.

Remedy

The machine must be online again for this feature to work properly.

HMI-Advanced – Connection lost after reboot

Restrictions

If the HMI-Advanced is connected to another server with not an Administrator user being logged in, then after a reboot, the HMI-Advanced will not be able to reconnect to the SINUMERIK Integrate 5 Server.

2.1 General conditions

Remedy

When an HMI-Advanced machine is connected to another SINUMERIK Integrate 5 Server, then an Administrator user must be logged in on the HMI-Advanced.

HMI-Advanced – Starting an installer needs admin rights

Restrictions

When an Application is assigned, or unassigned on an HMI-Advanced machine then the installation cannot be completed, if not an Administrator user is logged into the HMI-Advanced.

Remedy

When the HMI-Advanced machine is rebooted, so that an installation, or uninstallation could be completed, then an Administrator user must log into the HMI-Advanced. After that the Administrator must press OK when he is asked if the "launcher.exe" can be executed.

HMI-Advanced - Some of the OEM data are not correct

Restrictions

After loading of a tool to HMI-Advanced, only some OEM-data are available.

Remedy

Do not install Manage MyResources on HMI-Advanced machines that require OEM data.

Tool statistics with predefined SQL users on separated databank

Restrictions

If you want to use the tool statistics with a separated databank together with Predefined SQL User feature, you must have SQLCMD on the server where you are running the SINUMERIK Integrate 5.0.3.0 setup.

Remedy

To have SQLCMD you can install the sqlcmd Utility (<https://docs.microsoft.com/en-us/sql/tools/sqlcmd-utility?view=sql-server-ver15>).

2.2 General conditions, Manage MyResources /Tools

The following general conditions and functional restrictions apply to the following application:

- Manage MyResources /Tools

Negative PLC acknowledgment

Error description

The negative PLC acknowledgment is not supported.

Remedy

Use the positive PLC acknowledgment for loading and unloading tools, as is the case in the standard SINUMERIK tool management.

The column width cannot be changed with TOP 2200/1900/1500

Error description

If you are using touch panel TOP 2200/1900/1500, you cannot change the column width via the operator interface.

Remedy

Use the mouse to change the column width.

The machine must be in the tool change position if a tool is to be loaded

Error description

Manage MyResources /Tools cannot be used to load a tool. An "Unknown error" is signaled. However, in the application, the tool is only displayed with storage location "Load magazine", and can neither be relocated, deleted nor set again.

Remedy

Delete the tool on the control system using TC_MPP6 [9999, 1] = 0. Using the tool stock, the tool can be relocated back to Assembly.

Shifted entries or missing information in the detail view of the tool master datasets

Error description

Window "Tool master datasets" is open for more than 4 minutes or remains open until the token expires. If you click on one of the entries to open the corresponding tool detail page, then the information is shifted - or is not displayed at all. This error predominantly occurs for entries with several cutting edges.

Remedy

Refresh the display in the browser or press key <F5>.

The login page opens.

Log in again.

Finish the provision of tools before scrolling

Error description

Scrollbars are displayed if more than 12 tools are created in window "Provide tools". The tools are no longer displayed after scrolling up and scrolling down.

Remedy

Completely finish provision of tools that are directly displayed before you scroll in the view and provide the next tools.

Default tool management on control systems with HMI-Advanced

Error description

The results can be inconsistent if you use the default tool management on SINUMERIK control systems with HMI-Advanced, although Manage MyResources /Tools is installed.

Remedy

Do not use the default tool management on HMI-Advanced if Manage MyResources /Tools is installed. Manage MyResources /Tools must be used to create/load/unload tools on HMI-Advanced.

Presently, Manage MyResources /Tools does not support any offline mode. As a consequence, always ensure that you have a connection if you create/load/unload tools on HMI-Advanced.

Remaining value change when monitoring tool lifetimes

Error description

It is not possible to change the remaining lifetime of tools with HMI-Advanced using Manage MyResources /Tools.

Remedy

In general NC machine data MD17530 \$MN_TOOL_DATA_CHANGE_COUNTER, set bit 1 to "true". This value is not available for every internal NC version, and was tested in version 6.5.49 and a good result achieved.

For tools in Assembly, the remaining lifetime cannot be changed

Error description

It is not possible to change the remaining lifetime using SI5_MMR_TDI_API if the tool is located in Assembly.

Remedy

Load the tool in the cabinet/container

Change the remaining lifetime using TDI-API.

- OR -

Change the remaining tool lifetime at the SINUMERIK control system after it has been loaded.

Cannot delete cutting edge before saving the tool master data

Error description

When adding a new cutting edge in tool master data and then trying to delete the cutting edge that was just added: Although clicking on the trash icon the new cutting edge is not deleted.

Remedy

Save the tool master data with the undesired cutting edge.

Edit the tool master dataset.

Delete the previously created cutting edge.

HMI-Advanced - Tool loading to a wrong place

Error description

When loading a tool and specifying a non-empty place, then the tool is loaded to a random empty place (not the selected place) without a message.

Remedy

Make sure that places are empty before you load tools. In case tools have been loaded to wrong places, already, then unload this tool (tool A) and also the tool that is on the desired place (tool B). Then load the tool A to the desired place and load the tool B to any appropriate place.

Importing OEM data from file - tool selection

Error description

When importing OEM data via an *.ini-file and selecting all toolnames in the upcoming dialog, then the selection is also done for tools without tool master data and hence the "Apply" button is grayed out.

Remedy

Select manually / step by step only these tools which have available tool master data.

Importing OEM data from - extra data

Error description

Importing of OEM data from *.ini-file does not finish, if the file contains not usable data, e.g. extra data which are not OEM data.

Remedy

Before importing the OEM data from a file, edit the file and erase all extra data such that the ini-file contains only OEM data.

First tool loading on a PCU after installation

Error description

After installation, when the first tool is loaded, then there is a waiting message in the message bar that does not end.

Remedy

Cancel the first loading of a tool after installation. Then load the tool again by pressing the vertical softkey "Load".

Misrepresentation of information regarding lifetime/pieces

Error description

For old tools (brownfield tools) the "Monitoring tools" application shows e.g. 100/100 for remaining/set lifetime. At the SINUMERIK control on the internal view -/- is shown but on "Edge Details" the remaining lifetime is shown (100).

Reconfiguring the monitoring method to workpieces (default tool management)

Error description

After installation the presentation of the residual lifetime and residual workpiece can be different when monitoring data are switched on the SINUMERIK control system.

Remedy

After installation the administrator can configure the behavior of the system and set residual lifetime or residual workpiece. After this, the "monitoring type" of all new created tools and tool master data should not be changed manually.

HMI-Advanced - Loading tools with different regional and language options

Error description

Manage MyResources /Tools on HMI-Advanced is not loading tools, if decimal symbol not the dot. The regional and language options need to be set to English (United States) so that the decimal floating point is set to ".".

Remedy

Please make sure that the decimal floating point is set to "." or the regional and language options are set to English (United States).

Shut down during tool load process

Error description

If the SINUMERIK control system is shut down during tool load process, after restarting the machine, the tool load function does not work anymore.

Remedy

While loading or unloading do not shut down the SINUMERIK control system.

Importing tool plan cause uninformative error message

Error description

If the *.json-file contains wrong entries, importing the tool plan causes an uninformative error message: MISSING (L:de K:Toolplan, InvalidData)

Remedy

Created and import Toolplan.json-file with valid content.

Loading point does not appear in "Unload Tool" window

Error description

In Manage MyResources /Tools on SINUMERIK control system, user wants to unload a new tool (greenfield tool), but in "Unload Tool" popup window the "Loading Point" list is empty, although there is a loading point.

Remedy

Restart HMI.

Copying file attachments in window "Overview of tool master datasets"

Error description

If you copy newly created tool master datasets with file attachments in window "Overview of tool master datasets", then the attached files are not copied.

Remedy

Download the file attachments from the original tool master datasets, and attach these files to the copy.

Shifted entries or missing information in the detail view of the tool master datasets

Error description

Window "Tool master datasets" is open for more than 4 minutes or remains open until the token expires. If you click on one of the entries to open the corresponding tool detail page, then the information is shifted - or is not displayed at all. This error predominantly occurs for entries with several cutting edges.

Remedy

Refresh the display in the browser or press key <F5>.

The login page opens.

Log in again.

Finish the provision of tools before scrolling

Error description

Scrollbars are displayed if more than 12 tools are created in window "Provide tools". The tools are no longer displayed after scrolling up and scrolling down.

Remedy

Completely finish provision of tools that are directly displayed before you scroll in the view and provide the next tools.

The column width cannot be changed with TOP 2200/1900/1500

Error description

If you are using touch panel TOP 2200/1900/1500, you cannot change the column width via the operator interface.

Remedy

Use the mouse to change the column width.

Using the Touch Panel

Error description

If you use the touch panel connected directly to NCU, then SINUMERIK Operate crashes if you attempt to "Copy/Paste" in the "Remaining lifetime" input field. The virtual input field is displayed; however, SINUMERIK Operate is exited if you use 2 fingers to copy or paste.

Remedy

Do not use the "Copy/Paste" function. Place the cursor in the input field and enter the text using the keyboard.

Change residual tool lifetime via API

Error description

The residual tool lifetime cannot be overwritten on the control system using MMR-TDI API.

Remedy

Use SINUMERIK Operate to change the residual tool lifetime of tools on the control system.

Installation on GROB 550 Nes

Fact

The "TDI" application is installed in parallel on the SINUMERIK control system – and is used.

Error description

After installing Manage MyResources on a GROB 550 Nes, it is not possible to load external tools.

Remedy

Completely reboot the machine so that external tools can be loaded.

Error message on save tool master data

Error description

"2.0" is entered in the tool lifetime or warning limit input field on "Tool master data details" window, instead of "2" only. When trying to save tool master data, a red error message appears and tool master data were not saved.

Remedy

Input integer values only.

Tool-specific OEM data are not displayed

Error description

A new tool (greenfield tool) has been loaded to a SINUMERIK control system including OEM data. The OEM data appear correctly in standard tool management. But in the "Tool Details - TPC" window of Manage MyResources /Tools, the tool-specific OEM data (TPC, DPC, MOPC) do not appear.

Remedy

The OEM data can be seen via SINUMERIK standard tool management.

Tool statistics events with double spindle machines

Restrictions

The ToolCutEnd event may not be generated with machines that are having multiple spindles. Machines with only 1 spindle work correctly as intended.

Remedy

Do not use for machines with more than one spindle.

2.3 General conditions Manage MyResources /Programs

The following general conditions and functional restrictions apply to the following application:

- Manage MyResources /Programs

Size restriction of NC programs

Error description

The maximum size of NC programs that Manage MyResources /Programs can process is 30 MB. If the program is larger, then the download or upload of this file remains unsuccessful.

Remedy

Split-up the NC programs into several subprograms.

Restrictions when loading NC programs

Error description

Restrictions apply as to how many NC program downloads or uploads can be simultaneously executed in Manage MyResources /Programs.

At the present time, these functions can be simultaneously executed on a maximum of 10 Manage MyResources Operate clients.

If more clients are used, then it is possible that download and/or upload operations are incorrectly executed.

This does not affect the total number of Manage MyResources clients that can be connected with the SINUMERIK Integrate 5 server.

Remedy

Check the maximum number of clients, and try again at the machine. No data will be lost.

2.4 General conditions, Optimize MyProgramming /NX-Cam Editor

The following general conditions and functional restrictions apply to the following application:

- Optimize MyProgramming / NX-Cam Editor

Changing parameters in parallel with "Optimize MyProgramming /NX-Cam Editor" and "NX CAM"

Error description

If an NX project file (extension .prt) is opened both in "Optimize MyProgramming /NX-Cam Editor" as well as in "NX CAM" then when the file is saved, this can result in an OMP error.

At the present time, from the OMP application, it is not possible to identify if the several applications open the files. If the NC program is synchronized, then you receive an error message.

Remedy

Close the project in "NX CAM" and reload the NC program in the OEM application using softkey "Reload NC program".

Zooming-in/zooming-out using gestures on multitouch panels

Error description

At the present time, OMP does not support zooming-in/zooming-out using gestures on multitouch panels such as the TOP 2200/1900/1500.

Remedy

To zoom-in or zoom-out of the 3D model, use vertical softkeys "Zoom +" or "Zoom -" on the OMP user interface of the SINUMERIK Operate client.

