SINAMICS Startdrive V15.1 – General conditions S120

General conditions and function restrictions as well as notes on configuration and operation.

These notes take precedence over statements in other documents.

ID	Title	Description of the restriction	Solutions for the restriction
3148657	Basic positioner calibration	The absolute encoder calibration of encoder 2 and encoder 3 cannot be performed via the mask.	For encoders 2 and 3, calibration must be initiated using the parameter list (parameter p2507).
1646146	STARTER project upload canceled	If an 1FK6 motor is configured with STARTER and loaded to the drive device – then the upload with Startdrive is rejected.	Configure the 1FK6 motor using Startdrive, and load this to the drive device.
1867374	STARTER project upload rejected	If an encoder with DQ interface (10000) is parameterized and loaded to the drive using STARTER, then an upload with Startdrive is only possible if the parameterized encoder is also part of the actual topology.	Connect the parameterized encoder – or remove the encoder from the target topology in the STARTER project and download again
2675714	1FP1 reluctance motors cannot be used in a project for SINAMICS V4.8	1FP1 reluctance motors cannot be commissioned in a project for SINAMICS V4.8.	Upgrading to SINAMICS V5.1.
2201921	Standard/SIEMENS telegram interconnection not protected against changes	When selecting a standard/SIEMENS telegram for a SINAMICS drive, certain BICO interconnections are established. Users can subsequently change these interconnections and therefore the telegram. If such a changed configuration is loaded to the drive, then only the original interconnections of the standard/SIEMENS telegram are active.	Do not change the interconnections in p2051, p2061, p2080 to p2084 if a standard/SIEMENS telegram is configured for the drive object.
2587654	Correct diagnosis of power units connected in parallel not possible	In the online state, in the device view, diagnostic symbols can be displayed for all drive objects and components. In the case of a parallel connection, the diagnostics status for components connected in parallel is not correct, the status is always "OK".	The status of power units connected in parallel must be identified in another way – for example, using the message display.

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2617380	PROFINET topology comparison S120	The online interconnections of the S120 are not detected in the PN topology comparison of the online/offline port interconnections. For G120, the connected devices are automatically detected.	In the PN topology comparison list, for S120, the PROFINET device name must be set and then the connected devices are detected.
3138276	Upload of S120 configured with STARTER fails	An S120 with double Motor Module was configured with STARTER. If an axis of the double Motor Module is deleted and loaded to the device and an attempt is made to upload this project with Startdrive, the result is an "Upload of device aborted" error.	Please deactivate the axis you do not need STARTER rather than deleting it.
2755473	First download fails sporadically	If, in the offline mode, a download is started then sporadically this is unsuccessful. An error message is output stating that the device configuration online and offline would be incompatible; however, this statement is not true.	The second download attempt functions. Alternatively, you can go online before initiating a download.
2841342	Deactivation of not present device via Openness	When you try to change the driveObjectActivation.ActivationState of a component that does not exist in the online mode, no error message is returned when you call the Openness function "OnlineDriveFunctionInterface.DriveObjectFunctions.DriveObjectActivation.ChangeActivationState" even though the driveObjectActivation.ActivationState remains the same.	The corresponding component should be disabled in the offline mode rather than in online mode (with "DriveFunctionInterface.DriveObjectFunctions.DriveObjectActivation.ChangeActivationState").
3002973	Brake configuration for 1PH8 motors does not work automatically	For the 1PH8 series of motors, the brake configuration is not automatically made via the motor configuration.	The user must set the brake data manually in the online mode via the parameter list (P550 to P554).

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3015586	Motors configured manually with STARTER are not supported in the Startdrive	If a motor that was configured manually with STARTER is uploaded using Startdrive, the following error may occur during upload: "The component with article number XMxxx is not supported in the current version".	Go online with Startdrive and change the parameter p300 to 0. Then upload and configure the correct motor in the motor properties and then upload it to the drive device.
3728329	"Trace signal" cannot be deleted in online trace	In the following scenario, a signal cannot be deleted in the signal list: - Loading a trace to the trace editor that only exists online in the CU - Changing the configuration in the trace editor - Going offline (online connection disconnected) -> A signal cannot be deleted in the signal list	Close and reopen the trace editor window
3738768	Upload of a 1LE1 motor canceled	If the 1LE1 motor is configured manually and then uploaded, the upload is canceled with a note that the motor is not supported in Startdrive. This affects MLFBs 1LE1001-1AD42-2xxx or 1LE1x01-1AD42-2xxx.	Although the 1LE1001-1AD42-2xxx motor exists in the selection list for 1LE1 motors, but an upload is not possible because the selection list is not unique for this motor. In this case, please configure a motor by manually entering data.
3756031	Control panel: Selection in TIA Portal retained	When you use the control panel, the control panel editor and the TIA Portal have stripes in the header. The stripes in the TIA Portal header do not disappear when the control panel is simply closed without handing over master control.	1) For security reasons, the control panel should always be deactivated explicitly. 2) The stripes are of no significance in this case; they can be ignored. 3) The stripes disappear when the control panel is activated and deactivated again.
3757142	Line voltage detection with VSM (p3400.5) not automatically active	When a Smart Line Module in the Chassis format is configured at the S120, a VSM is automatically created but the "Line voltage detection with VSM" is not automatically activated.	Prior to the download, bit P3400.5=1 must be set manually in the parameter list of the Smart Line Module.

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3769865	TM15: IOs 8 ... 23 cannot be interconnected via screen forms for S120	When you try to interconnect IOs 8..23 using screen forms, the interconnection always ends up in IOs 0..7 (modulo 8).	Change the parameters from IO 8 and higher directly in the parameter list.
3771950	Supplementary telegrams not displayed in "Communication" diagnostics overview for uploaded projects	When supplementary telegrams (telegram 700, telegram 701) are used in a project that has been upgraded from V15, then these are not displayed in the "Communication" diagnostic view.	However, the telegrams still exist; this is merely a display issue. Follow the link in the telegram configuration and go back to the "Communication" diagnostic view.
1946403	Documentation for Drive Library blocks not up-to-date	The documentation for the blocks in the Drive Library, contained in Startdrive in the information system (Help) is not up-to-date.	To obtain current documentation, please go to SIOS (SIEMENS Industry Online Support) and review entry ID 109475044.
3077860	Startdrive remains online after connection to S210 interrupted	After a physical interruption of the connection between Startdrive and S210, the Startdrive still shows the device as being online.	Activate the Startdrive function "Go offline".
3130455	Since FW 4.7.9, ZSW1, bit 13 has been assigned a new parameter, which is not in Startdrive.	The offline value for ZSW1 bit 13 in telegram 111 is incorrectly displayed in G120 FW 4.7.9. With FW G120 V4.7 SP9, the content (description) of bit 13 has been changed.	Use FW 4.7.6.
3133891	Hardware detection	After uploading the drive via the hardware identification of the PLC, the Power Module is missing in the drive object.	After uploading via hardware identification, manually connect the Power Module.
3133969	Hardware detection	When adding drives via the hardware identification with firmware < or = 4.7.6, GSDMLs are generated instead of a drive object.	Use the function to upload the complete station.
3133973	Hardware detection	When adding drives via the hardware identification with firmware 4.7.9, a drive object with firmware 4.7.10 is created.	Use the function to upload the complete station.

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3180503	After changing to another screen form, the LED continues to flash.	If the user has selected the Flash LED checkbox in the screen form online access in the Online & Diagnostics Editor, and then navigates to another screen form in the Online & Diagnostics Editor and then again returns to the online access screen form, the Flash LED checkbox is deactivated; however, the LED continues flashing on the device and does not stop.	1. The user can navigate back to the online access screen form and then activate the Flash LED checkbox and then deactivate it again so that the LED on the device stops flashing. OR 2. The user can manually set p124 to 0 from the parameter list to stop the LED flashing.
3180567	After changing to another TIA Portal language, the LED continues to flash.	The Flash LED checkbox in the screen form online access in the Online & Diagnostics Editor is selected. - The user interface language is changed. - The user navigates back to the online access screen form. - The Flash LED checkbox is deactivated; however, the LED of the device continues flashing and does not stop.	1. The user can navigate back to the online access screen form and then activate the Flash LED checkbox and then deactivate it again so that the LED on the device stops flashing. OR 2. The user can manually set p124 to 0 from the parameter list to stop the LED flashing.
3181227	After closing the TIA Portal, the LED continues to flash.	- The Flash LED checkbox is activated in the online access screen form in the Online & Diagnostics Editor. - The TIA Portal closes without deactivating the checkbox. - The LED at the device continues flashing and does not stop.	1. The user can navigate back to the online access screen form and then activate the Flash LED checkbox and then deactivate it again so that the LED on the device stops flashing. OR 2. The user can manually set p124 to 0 from the parameter list to stop the LED flashing.

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3241686	Profisafe F-DB without prefix results in a PLC compilation error.	If, after establishing the connection to the PLC, option "Create driver instance data blocks without prefix" is activated, then the data block names are not unique. This results in a PLC compilation error.	1. Keep option "Create driver instance data blocks without prefix" activated before you establish the connection. Unique names are then generated. 2. Keep option "Create driver instance data blocks without prefix" deactivated after the connection. As a consequence, the name with address/length of the safety telegram is attached.
3719139	Startdrive does not support marking and checking in changes at the server project that were made via local sessions in a multi-user configuration in the SINAMICS drives.	In a multi-user environment, the user may mark objects of automation peripheral devices (e.g. program blocks, variable tables, traces etc. of the SIMATIC PLC) added to the TIA Portal in order to update changes to the server project made by several engineers via individual local sessions. Observation: In Startdrive the changes made (e.g. values of a few parameters) at SINAMICS objects should not be marked, so that it is not possible to check-in the changes. This restricts the use of Startdrive with a multi-user setup via local sessions.	Workaround: A detailed description of the workaround for the scenario listed above is described at the following link. https://support.industry.siemens.com/cs/document/109755940/startdrive-in-tia-portal-v15-with-option-multiuser-engineering?dti=0&lc=en-WW Comments: However, it is possible to commission drives in a multi-user environment by accessing the drives via the server project view from local sessions, which are only available for one user in a certain instance.
3728293	The online configuration of the G120 CU250S-2 encoder interface results in an error.	The first configuration of the encoder G120 CU250S-2 (including the encoder interface) in the online mode via Openness functions perfectly; however, changing a preconfigured encoder interface type results in an error.	The encoder interface should be newly configured via Openness in the offline state (instead of online) and downloaded to the drive in order to start the new configuration.

ID	Title	Description of the restriction	Solutions for the restriction
3316252	Technology packages are not supported.	When uploading to a device with active technology packages (OA), which are not supported by Startdrive, then the OA specific parameters are not uploaded. This can cause the configuration of the technology package involved to be lost when subsequently downloaded.	In addition to the free function blocks, Startdrive does not support technology packages – there is no workaround/remedy.
3722001	Detection of the device configuration of Double Motor Modules.	In the "Detect device configuration" it is possible to configure a Double Motor Module with one axis where one drive object is set to type "Universal (vector)" and one drive object is set to type "High dynamic (servo)". This configuration is rejected if you create the device configuration.	Ensure that both axes of a Double Motor Module have the same drive object type.
3750087	Error "Too many online connections".	At the same time, the user may have a limited number of connections to the devices. Once this number has been reached, at the next connection request, the user receives an error message that this is not possible: "Too many online connections. Terminate some of the connections and try again". Connections cannot be disconnected by closing the Online & Diagnostics Editor.	a) Go offline from the project with the device. b) Restart Startdrive.
3767869	Openness provides incorrect online parameter values after restoring the factory settings.	If the user is already online via Openness with an S120/S210 drive, and restores the factory settings, then Openness again specifies the parameter values before restoring them.	After restoring the factory settings, the user should go offline and then go online again.
3770985	Pausing via space bar does not work with S120/S210 control panel/OBT/motor measurement if a progress dialog is displayed.	If a motor connected to S120 or S210 is started from the control panel (including OBT, motor measurement), then the motor should stop when pressing the space bar – or lose the focus on Startdrive. If this is not the case, then a progress bar is presently being displayed; for example, as a result of an active upload or station upload of another drive.	Do not start any time-consuming task via the TIA Portal while a motor is being operated via Startdrive functions (control panel, One Button Tuning, motor measurement). For the EMERGENCY STOP circuit, ensure that one hardware device is always available.

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3735562	When refreshing the download preview dialog box, a DCB extended library that is not available online is not downloaded.	If a DCB extension library is to be downloaded, information is displayed in the download preview dialog box. If the user presses F5 in the dialog: Update, the information disappears, the library is not downloaded and DCC is then not executed. Message F51009 is active in SINAMICS. The message disappears after POWER ON; however, DCC is still not executed.	Do not press the "Update" button in the download preview. Repeat the download without pressing the "Update" button.
3727680	Uploading and downloading S210 is canceled as a result of an unknown device order number.	Firmware V5.1 uses another order number (6SL3210-5HB10-4xxx) than firmware V5.2 (6SL3210-5HB10-4xFx). Updating from V5.1 to V5.2 does not change the order number in the drive.	Restoring the factory settings changes the order number to "6SL3210-5HB10-4xFx", as in V5.2. Upload and download with Startdrive is then possible.
3728868	The firmware version is incorrectly displayed in Online & Diagnostics.	In some instances, the firmware version field in the Editor Online & Diagnostics does not display the correct value.	Execute a new scan via "Update accessible devices".
3804043	Crash in the operator panel with alarms > 32768	A crash can occur in the operator panel if an alarm with a number greater than 32768 is active at the Line Module.	-