

## General conditions and function limitations, notes for configuration and operation

These notes take precedence over statements contained in other documents.

Because these notes contain important information for the installation and use of the software, please read them carefully.

## SINAMICS software V4.4 incl. SSP for STARTER

ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO	Drive familiy Since version
					802D-4 802D-2 80
SINAMICS_SW	V				
AP01074373	If a component is unplugged and plugged in again on a DRIVE-CLiQ hub, then sporadically this component does not return to the Ready for operation state.	DRIVE-CLiQ components, that are unplugged and plugged in again in rapid succession on a DRIVE-CLiQ hub (DMC20), e.g. for a cable defect (loose contact), sporadically do not return to the Ready for operation state.	Switch the CU off and on again.		-   X   -   X   -   -   -   -   -   -
AP01114212	With STO deselection and immediate ON command, it can take up to 1 s until the pulses are enabled. The error is only visible for power modules with PS ASIC 2.	With STO deselection and immediate ON command, it can take up to 1 s until the pulses are enabled. The error is only visible for power modules with PS ASIC 2.	Use power modules with ASIC 3.		-   -   -   -   -   -   -   -   -   -
SINAMICS_SW	V - General				
AP00330263	The information for the power unit duty cycles in indices 1 to 4 of parameters r0206, r0207 und r0209 in the expert list are not displayed correctly in some cases. The value in index 0 is applicable.	The information for the power unit duty cycles in indices 1 to 4 of parameters r0206, r0207 und r0209 in the expert list are not displayed correctly in some cases. The value in index 0 is applicable.	none	Servo/Vector	-   -   -   -   -   -   -   -   -   -
AP00866399	There is no warning if p4099 "TMxx inputs/outputs, sampling time" is not an integer multiple of the DRIVE-CLiQ communication cycle clock.	If a TM31 or TM15 DI/DO terminal module is operated in a DRIVE-CLiQ line with motor modules or a TM41 terminal module in which the current controller cycle clock p0115(0) or the sampling times p4099 are not integer multiples of the the sampling times p4099 of the specified modules, then the evaluations of the modules and the DRIVE-CLiQ communication are offset and a corresponding warning is not output.	Set P4099 "TMxx inputs/outputs, sampling time" to an integer multiple of the fastest current controller cycle clock p0115(0) or the fastest sampling time p4099 of the TM41	TM41	-   x   -   x   -   -   -   -   -   -
AP00970305	After factory settings, alarms, whose causes have been corrected, may still be present in the alarm buffer. There may even be duplicate entries.	After factory settings, alarms, whose causes have been corrected, may still be present in the alarm buffer (r2110 "Alarm number", r2123 "Alarm time received in milliseconds" and r 2125 "Alarm time corrected in milliseconds"). There may even be duplicate entries.	Clearing of the alarm buffer via p2111 "Alarm counter" = 0.		
AP01007029	Automatic commissioning with DMC20 and DME20 not possible.	When using a DMC20 or DME20, the DQ components connected to the hub cannot be assigned after an automatic commissioning.	Configure project offline with STARTER.	Servo/Vector	-   X   -   -   -   -   -   -   -   -
AP01055114	F3x885 after connection and unparking of SMI and SME modules.	Error F3x885 can occur when parked SMI or SME modules are connected on the DRIVE-CLiQ line and immediately unparked.	Wait at least 20 s between the connection and unparking of the modules.	Servo/Vector	-   X   -   -   -   -   -   -   -   -



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO								I	Drive	e fan	niliy									Since version
					802D-sl	828D-2	CX32	D410-2	D410-2	D425-2 D435	D435-2	D445-2	D455-2	D4xx DC Master	G120_C	GL20_Sinamics_Poo	G150 GL150	GM150	NCU7xx S110	S120 S120-ACDrive	S150	SMI20	SMI S0	
SINAMICS_SW	/ - General																							
AP01063302	emulation, maximum speed" may not be exceeded permanently. Otherwise, the following error between the	On the TM41 terminal module, the speed displayed in parameter r1082 "Encoder emulation, maximum speed" may not be exceeded permanently. Otherwise, the following error between the position of the encoder to be emulated and the TM41 can become so large that the position emulation no longer functions correctly.   For a sampling time for the incremental encoder emulation p4099[3] "TM41 incremental encoder emulation input/outputs sampling time" $<250~\mu s$ , the fault F35220 "TM: Limit frequency for signal output reached" is output first.	- For a sampling time p4099[3] < 250 $\mu s$ , do not reconfigure fault F35220 as an alarm - For a sampling time p4099[3] >= 250 $\mu s$ , note the maximum speeds in r1082.			_	- X	-   -	-   -	-   -		-   -	- :	X -	-   -	-   -		- 2	X -	XX	Х -		- 4.4	
AP01063597	maximum 8192 for the TM41.	In parameter p4426 "TM41 encoder emulation pulses for the zero mark", no values greater than 8192 can be set. This restriction has an effect when the gearbox of the TM41 has been switched on and an output pulse number per revolution p4408 ""TM41 encoder emulation pulse number signal source" greater than 8192 is to be emulated. The zero mark can then only be specified within the first 8192 pulses of a revolution.	None	TM41	- -	X	- X		-   -	-   -		-   -	- :	X -	-   -	-   -		- 3	X -	XX	X -		4.4	
AP01063931	No change of the "RDY LED" on the TM31 Terminal Module when the fault F03505 "TM: Analog input wire breakage" is present.	If a wire breakage of the analog input occurs on the TM31 Terminal Module, the fault F03505 "TM: Analog input wire breakage" is output. This fault is also signaled correctly in STARTER. Despite the pending fault, the "RDY LED" on the Terminal Module still remains "green".	None			X							- 3	XX	1	- X	XX	X	X -	хх	XX	XX	X 4.4	ŀ
AP01079966	Undervoltage and communication errors can occur when the converter is switched off.	Undervoltage and communication errors can occur when the converter is switched off, because the monitoring the modules is still active when their power supply is no longer active.	p6623 "CI: Wire DC link precharging actual value via input source" on r70 "CO: Total module voltage actual value" (in the DO AFEM2C) or acknowledge the errors.			-	-   -		-   -	-   -		-   -	-	-   -	-	-   -		-   .	-   -		-   -	X	- 4.4	+
AP01083625		Removing an SD memory card without using parameter $p9400$ "Remove memory card safely" can result in that the card is reported as being still inserted ( $p9400=1$ , $r9401=3$ ) and that after re-inserting the card, it can no longer be accessed.	Before removing, set p9400 = 2 "Request safe removal of the memory card" and wait until p9400 assumes the value 3 "Safe removal possible".			-	-   -		-   -			-   -	-		ХУ	X -				-		-	- 4.4	
AP01087219	Return jumps in the encoder emulation of the TM41 with very low frequencies.	With the TM41 terminal module, return jumps in the emulated encoder signals can occur in the operating mode p4400 "TM41 encoder emulation operating mode" = 1 "SINAMICS" with very low pulse frequencies below 30 pulses/s.	None.	TM41		X	- X		-   -	-  -	-	-   -	- ]	X -	-   -			- 2	X -	XX	Χ -		- 4.4	I
AP01089511	The sampling time for the incremental encoder emulation of the TM41 is not checked, if there was already an interconnection to another encoder.	Checking of the sampling time p4099[3] "TM41 inputs/outputs, sampling time - incremental encoder emulation" only takes place if p4420 "CI: TM41 encoder emulation actual position value" is interconnected from zero to the actual position value r0479 "CO: Diagnostics encoder position actual value" of another encoder. If p4420 from the actual position value r0479 of one encoder is changed to r0479 of another encoder, the sampling time is not re-checked. The alarm A35228 "TM: Sampling time p4099[3] invalid" is then not output or not deleted.	First set p4420 "TM41 incremental encoder emulation actual position value" to zero and then to the r0479 of the desired encoder.			X	- X		-				- '	X -				- 2	X -	XX	X -	-	- 4.4	



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO									Driv	ve fa	miliy	7									Since version
					802D-s1	828D 828D-2	CX32	D410	D410-2 D425	D425-2	D435 D435-2	D445	D445-2 D455-2	D4xx	GI 20_C	G120_Sinamics_Poo	G130 G150	GL150 GM150	NCU7xx	S110 S120	S120-ACDrive	SL50	SM120 SM150		
SINAMICS_SW	/ - General																								
AP01091615	Self-ignitions of the TAS module cannot be detected.	Self-ignitions of the TAS module cannot be detected.	The self-ignition monitoring can be deactivated via parameter p6070 "LT thyristor monitoring mode".	Vector_GL	-	-   -	-   -	-	-   -	-	-   -		-   -		-   -	-   -	-   -	X -	-	-   -	-   -	-   -	-   -	4.4	
AP01093600	Parameter p0799 "CU inputs/outputs, sampling time" index 1: "Sampling time for analog input" only controls the further processing of the values read in for the CU310-2. The reading in of the analog input is performed independently always in a cycle clock of 1 ms.	Parameter p0799 "CU inputs/outputs, sampling time" index 1: "Sampling time for analog input" only controls the further processing of the values read in for the CU310-2. The reading in of the analog input is performed independently always in a cycle clock of 1 ms.	If cycle clocks are required that are less than 1 ms or not a multiple of 1 ms, then a TM31 must be used.		-	-   -		_	-   -				-   -		-   -	-   -	-   -	-   -	-	-   -	X	-   -		4.4	
AP01112352	12 "Load monitoring signals fault" is read out faster than the technology controller	Load monitoring with p3232 "BI: Load monitoring, failure detection": If r2198 "CO/BO: Status word monitoring 2" bit 12 "Load monitoring signals fault" is read out faster than the technology controller cycle clock (for the G120 fixed 4 ms, for other devices p0115[6] "Sampling times for internal control loops") or recorded by means of the trace, the displayed signal may jump between 0 and 1, although the load fault is present permanently.	Record the trace in another time resolution. Do not process r2198 bit 12 faster than in the technology controller cycle clock.		1			-				-		X	X	X	ХX		-	- X	X	Х -		4.4	
AP01113948	Temperatures that are too high are measured at temperature input X520 pins 5 and 6 of the VSM10 with order number 6SL3053-0AA00-3AA0.	Temperatures that are too high are measured at temperature input X520 pins 5 and 6 of the VSM10 with order number 6SL3053-0AA00-3AA0. The measuring error with a KTY temperature sensor at 20° C ambient temperature is between 15° C and 20° C.	Use a VSM10 with order number 6SL3053-0AA00-3AA1 or a TM31 for the temperature measurement.		-	- X	( - )	ζ -	-   -	-   .	-   -		-   -	X -	-   -	- X	XX	XX	X	- X	- 2	x x	XX	4.4	
AP01120851	input for the speed	During the selection and deselection of the measuring input for the speed measurement in p0580 "Measuring input input terminal", fault F01044 "CU: Description data faulty" with fault value 2 "RUNTIME.acx faulty" occurs.	Save the parameters and Power OFF/ON.		-			-		-		-	-			X -	-   -		-					4.4	
AP01128329	The measuring gearbox does not function for the resolver.	With a resolver and selected measuring gearbox (p0411 "Measuring gearbox configuration" = 1), the fault F07555 "Drive encoder: Position tracking configuration" is issued.	The fault can be acknowledged after the encoder parameterization is performed again (p0010 "Drive ,commissioning parameter filter" = 4, p0010 "Drive ,commissioning parameter filter" = 0).	Servo/Vector	-	- X	Σ - Σ	ζ -	-   -	-	-   -	-	-   -	X -	-   -	-   -	-   -		X	xx	X	X -		4.4	



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					802D-s1 828D	828D-2 CX32	CX32-2 D410	D410-2 D425	D425-2	D435 D435-2	D445 D445-2	D455-2	DC Master	GI 20_Sinamics_Poo	G130 G150	GL150	NCU7xx	\$120	S120-ACDrive S150	SM120	OCHAC	, crosson
SINAMICS_SW	- General																					
AP01130636	The zero mark selection via p0493 "Zero mark selection, input terminal" does not function in conjunction with theTM41 terminal module when using an encoder with several zero marks.	The zero mark selection via p0493 "Zero mark selection, input terminal" does not function in conjunction with theTM41 terminal module when using an encoder with several zero marks.	None.	TM41			X -	-   -		-   -	-   -	- 3	X -	-   -	-   -	-   -	X	- X 2	X	-   -   -	4.4	
SINAMICS_SW	- Drive wizard																					
AP00325763	The information for rated current and rated power of the PM340 power module in the drive wizard can deviate from the catalog data in some cases.	The information for rated current and rated power of the PM340 power module in the drive wizard can deviate from the catalog data in some cases.	Select the power module by MLFB when using the drive wizard for commissioning	Servo/Vector						-   -	-   -	- 3	X -	-   -	-   -	-   -	X	XX	- X	-   -   -	4.4	
AP01091827	Infeed commissioning wizard: The setting of a reduced device supply voltage is not possible after an automatic commissioning.	The setting of a reduced device supply voltage (e.g. 200 V 3-phase AC) is not possible in the commissioning wizard for the infeed if previously an automatic online commissioning of the infeed has been performed.	Two options: - The first commissioning of the infeed is performed offline with subsequent parameter download When running through the infeed wizard, a device supply voltage is first set in the regular rated operating range of the device (see text in the wizard). Then parameter p0210 "Device supply voltage" is then set to the required value for the lower supply voltage in the expert list.				X -			-   -	1	- 2	X -		-   -			- X	- X		4.4	
SINAMICS_SW	- Drive integration																					
AP01079757	CX32-2, interconnections of	In the I/O screen forms for the CX32-2, interconnections of the digital inputs that have not been documented further appear in the default state with parameter p8501 "BI: Data transfer 1 bit-by-bit".	Ignore the interconnections. The digital inputs can be used elsewhere (for example, by parameter macro p0700 = 1 "SIMOTION(PM000001.XML)".				X -			-   -				-   -		-   -					4.4	
SINAMICS_SW	' - AOP30																					
AP01124623	No texts only "???" is displayed on the AOP30 for the free function block parameters as of 20000.	No texts only "???" is displayed on the AOP30 for the free function block parameters as of 20000.	None.					-   -	-	-   -	-   -	-	- X	-   -	ХХ	-   -	-   -	- X	- X	-   -   -	4.4	
SINAMICS_SW	- Data set changeover																					
AP01094868	When deselecting p1402 "Current control and motor model configuration" bit 04 "Torque-speed precontrol with encoder" = 0 in an inactive data set, the function is also deselected in the active data set. The error disappears at the next data set switchover.	When deselecting p1402 "Current control and motor model configuration" bit $04$ "Torque-speed precontrol with encoder" = $0$ in an inactive data set, the function is also deselected in the active data set. The error disappears at the next data set switchover.	None.	Servo		X   -	X   -		-	-   -		- 3	X -		-   -		X	X X X	X -   -	.   -   -	4.4	



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO								Drive	e fami	iliy								nce sion
					802D-si	828D-2	CX32	D410 D410-2	D425 D425-2	D435 D435-2	D445	D455-2	DC Master	G120_C G120_Sinamics_Poo	G130 G150	GL150 GM150	NCU7xx S110	S120 S120-ACDrive	S150 SL150	SM120 SM150		
SINAMICS_SW	V - DCC																					
AP01078703	chart sources from the target device is not possible.	As of DCC 2.1 and SINAMICS 4.4, the storage of DCC chart sources in the target device and the the read back of DCC chart sources from the target device are supported. In this way, it is also possible with an empty STARTER project to read the project from the target device and then edit it. The loading of additional data option is activated via Options -> Settings -> Download -> Store DCC chart sources and additional data on the target device or CPU-specifically in the Download dialog box. If a card image is generated through "Load to file system", the DCC chart sources are not read back with the upload to PG although a message appears in the detail view during the download that additional data has been stored on the device.	Alternative 1: Download the project from the PG to the target device Alternative 2: Keep the source project, archive it on the card Alternative 3: Export the DCC chart sources in xml format and import these into the new project				- X		-   -		-   -	- 2	x x		XX	X X		X X	XX	XX	4.4	
AP01101463	During a technology package download with a large topology, fault F1105 "CU: Insufficient memory" can occur.	During a technology package download with a large topology, fault F1105 "CU: Insufficient memory" can occur. The technology package is downloaded completely to the drive.	Power Off/On		- -		-   -	-   -	-   -	-   -		-	- X	-   -		-   -	-   -	-   -	-   -	-   -	4.4	
SINAMICS_SW	V - Download																					
AP01051334	In the case of a download with invalid values in p2100- p2101, p2118, p2119, p2126, p2127, these values are replaced by their default	In the case of a download with invalid values in p2100 "Set fault number for fault response", p2101 "Fault response setting", p2118 "Set message number for message type", p2119 "Message type setting", p2126 "Set fault number for acknowledgement mode" and p2127 "Acknowledgement mode setting", these values are replaced by their default values and no error message is issued.	After the download, check the settings of parameters p2100-p2101, p2118, p2119, p2126 and p2127.			· X	- X	-   -	-   -			- 2	XX	x x	x x	xx	X X	X X	X X	хх	4.4	
AP01055373	STARTER/SCOUT a topology comparison error	If during the download of a project to the drive unit via STARTER/SCOUT a topology comparison error occurs (r0002 "Status display" = 33 "Correct/acknowledge topology error"), fault F3x802 "Encoder x: Time slice overflow" can occur after correction of this error.	Option a) Perform project download again with corrected topology. Option b) Copy RAM to ROM and then Power Off/On.	Servo/Vector	X -	X	- X		-			- 3	X -	-	XX		X -	X -	X -	-	4.4	
AP01090890	After the project download with set Siemens message frame 220, alarm F1042 is triggered for vector mode V/f control.	The offline follow-on parameterization for Siemens message frame 220 (p0922/p2079) interconnects parameter r1482 (speed controller I-torque output) to parameter 2050[7] (IF1 PROFIdrive PZD received word). Parameter r1482 is not available in mode VECTOR + V/f. This triggers alarm F1042 "Parameter error during project download" after the project download.	The interconnection p2050[7] = r1482 made by the offline follow-on parameterization must be set to 0 before the project download (p2050[7] = 0).			-   -	-   -	-   -	-   -			-	-   -     	-   -	XX	-   -	-   -	X -	X -		4.4	
AP01091500	The description of fault value 100 is missing in the documentation for F01043 "Fatal error while downloading a project".	Fault value 100 means: The download has been aborted because no write jobs have been received from the commissioning client for at least 30 s (e.g. communication failure)	None.			-		-   -				-	-   -   :	хх		-   -	-   -	-   -			4.4	



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO						I	Drive	fami	iliy									nce sion
					802D-sil 828D 828D-2	CX32 CX32-2	D410 D410-2	D425-2	D435-2	D445 D445-2	D455-2	DC Master	GI20_C GI20_Sinamics_Poo	G130 G150	GL150	NCU7xx	S110 S120	S120-ACDrive S150	SL150	SM120 SM150		
SINAMICS_SW	- DRIVE-CLiQ																					
AP01082078	If an SMC20 or an SMI20 on a CU305 with EPOS and connected BOP is unplugged and plugged in again, the component sometimes does not return to the Ready for operation state.	If an SMC20 or an SMI20 on a CU305 with EPOS and connected BOP is unplugged and plugged in again, the component sometimes does not return to the Ready for operation state. An error is not displayed, the states of the LEDs on the CU remain RED.	Switch the CU off and on again. Or remove the BOP.		-   -   -		-   -   -		-   -		-   -	- -			-   -	-   ]	X -			-	4.4	
AP01095204	us, DRIVE-CLiQ components	If for a current controller cycle clock p0115[0] of 31.25 $\mu s,$ DRIVE-CLiQ components are unplugged and plugged in again, alarm F01205 "CU: Time slice overflow" can occur. The error must be acknowledged via Power Off/On.	No remedy.			- X	-   -   -	X -	- X	- X	X -		-   -	-   -		X	- X		-   -		4.4	
SINAMICS_SW	- EPOS																					
AP01104092	For MDI mode via p2654, two starting edges are required when the target position is exactly 0 LU and a motion command was rejected previously.	For MDI mode via p2654 "EPOS direct setpoint specification / MDI mode adaptation" (standard message frame 110, PZD 12), two starting edges are required when the target position is exactly 0 LU (relative/absolute) and a motion command was rejected previously (p2641 "EPOS reject motion command").	Specify a second starting edge via p2650 "EPOS direct setpoint specification / MDI setpoint acceptance edge" or specify the MDI mode via p2648 "EPOS direct setpoint specification / MDI positioning type", p2651 "EPOS direct setpoint specification / MDI positive direction selection" and p2652 "EPOS direct setpoint specification / MDI negative direction specification / MDI negative direction specification / MDI negative direction specification" (standard message frame 111).	Servo/Vector		-   -   -										- ]	x x	XX			4.4	
AP01106006	If the velocity is limited via p2594, alarm A7456 for limitation to 0 LU/min is not issued if the velocity has not been limited previously.	With limitation of the velocity to 0 LU/min via p2594 "EPOS maximum velocity limited externally", alarm A07456 "EPOS: Velocity setpoint limited" is not issued.	Use the intermediate stop function to stop the drive (p2640 "BI: EPOS intermediate stop").	Servo/Vector		.   .   .	-   -   -	-   -	-   -	-   -		-   -	-   -	-   -			X X	XX	-		4.4	
SINAMICS_SW	/ - Upgrade																					
AP00940187		At each update of an infeed of Version 2.5 in STARTER to a version greater than or equal to V2.6, a message appears that parameter r3508 "Infeed maximum step-up factor" could not be set.	Ignore the message, the value of the parameter is set correctly.			- X			-   -		- X	ζ	-			-	- X	- X		-	4.4	
SINAMICS_SW	- General communication																					
AP01033982	Terminal designation X140 instead of X22 for USS/RS232 with CU310-2 DP.	The text for P2030 "Fieldbus serial interface protocol selection", value 6 "USS(RS232) on X140" does not match the hardware. The RS232 connector on the CU310-2 has the designation "X22".	None.			-   -   -	-   -   -	-   -	-   -			-   -	-  -			-	-   -	X -	-	-	4.4	
AP01066354	The connection setup of an isochronous controller interferes with the existing connection of a PROFIsafe controller.	When synchronizing to an isochronous controller (PROFIBUS/PROFINET/SINAMICS link), the safety messages C01711/C30711 "SI motion: Defect in a monitoring channel" are output for the existing PROFIsafe connection. Connection to two controllers is possible with: PROFINET shared device, or use of both PZD interfaces (IF1/F2). The safety messages always occur for extended safety, but only sporadically for basic safety.	Make sure that the isochronous controller has ramped up before the PROFIsafe controller.		- - -	-   -   .	-   -   -		-	-   -						-	- X	XX		-	4.4	



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					8.02D-4 8.28D-2 8.28D-2 CX22 CX22 CX22-2 D410.2 D410.2 D418.5 D418.6 C1130 C1130 C1130 C1130 C1130 C1130 C1130 S1120 S1120 S1120 S1130
SINAMICS_SW	/ - General communication				
AP01109115	The identification of the device as a bulk storage device takes approx. 15 s after connecting the USB cable.	approx. 15 s after connecting the USB cable.	None		-   -   -   -   -   -   -   -   -   -
SINAMICS_SW	/ - CAN communication				
AP00875674	If a CAN partial storage (Store Com. or Store Appl. parameter) is triggered without having previously performed a total storage at least once, then the relevant ACX files (CCxxxxxx.ACX and CAxxxxxx.ACX) are present at //USER/SINAMICS/DATA/*, but are not read in at a restart and therefore have no effect. The files are also not stored on an inserted memory card.	If a CAN partial storage (Store Com. or Store Appl. parameter) is triggered without having previously performed a total storage at least once, then the relevant ACX files (CCxxxxxx.ACX and CAxxxxx.ACX) are present at /USER/SINAMICS/DATA/*, but are not read in at a restart and therefore have no effect. The files are also not stored on an inserted memory card.	Execute p0977 "Save all parameters" = 1.		
AP01068349	Display of the fault F8701(1) "NMT state change" in r8611 "CAN: Pre-defined error field" after CANopen NMT command "Reset node" on the G120.	After CANopen NMT command "Reset node" on the G120, in which the drive is in the "Operation" state, fault F8701(1) "NMT state change" is displayed after the restart in r8611 "CAN: Pre-defined error field".	If the CANopen command NMT command "Reset Node" on the G120, in which the drive is in the "Operation" state, is issued, the error F8701(1) "NMT state change" must be acknowledged after the restart so that it is no longer displayed in r8611CAN: Pre-defined error field".		XX
SINAMICS_SW	- PROFIBUS communication				
AP01123648		Alarm A1900 with alarm value 462 can be present when several PROFIBUS data exchange broadcast relationships have been configured and bus faults occur. The alarm also remains present when the communication functions correctly again. The alarm only disappears after POWER ON. The additional value 462 is not documented as this deals with an internal problem.	Ignore the alarm or perform POWER ON.		-   -   -   -   -   -   -   -   -   -
SINAMICS_SW	/ - PROFIdrive communication				
AP00957853	download.	A PROFIdrive message frame is set via p2079 and then the message frame is extended with user-specific interconnections. If a longer message frame is then set offline, the user-specific interconnections in the setpoint direction (source r2050/r2060) are not deleted. This can result in inconsistent interconnections at r2050/r2060. These inconsistent interconnections cause errors during the download.	Delete the user-specific interconnections when extending message frames. In the STARTER screen form: Communication - Receive Direction.	Servo/Vector	
SINAMICS_SW	/ - PROFINET communication				
AP00687479	SINAMICS CBE20 does not support PROFIsafe diagnostics.	SINAMICS CBE20 does not support PROFIsafe diagnostics.	None		X X X X X X 2.6 SP2



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO					Driv	e fan	niliy							Since version
					802D-s1 828D 828D-2 CX32 CX32	D410-2 D425	D425-2 D435	D435-2 D445	D445-2 D455-2	D4xx DC Master	G120_C G120_Sinamics_Poo	G130 G150	GL150 GM150	NCU7xx S110	S120	S120-ACDIVE	SM120	Actua
SINAMICS_SW	V - PROFINET communication																	
AP01061301	The PN LED does not flash green as described in the documentation, but red when two controllers have been configured (shared device, p8929 "PN remote controller number" = 2), but only one controller is connected.	The PN LED does not flash green as described in the documentation, but red when two controllers have been configured (shared device, p8929 "PN remote controller number" = 2), but only one controller is connected.	None.				-   -	-   -	-   -			XX	-		XX	x x	-   -   -	4.4
AP01091545	Non-documented alarm A50010 for PROFINET CBE20.	Non-documented alarm A50010 for PROFINET CBE20 is is issued if an invalid name is set for the station.	Correct PROFINET CBE20 "Name of station" (p8940).				-   -   -	-   -	-   -			XX	XX	-   -	X .	- X 2	X X -	4.4
AP01107353	If the actual topology of a PROFINET network is determined via a STEP7 topology editor, port 1 and port 2 are displayed for the PROFINET interface for the CU310-2 PN and CU320-2 PN modules and incorrectly also port 1 of the LAN interface (X127).	If the actual topology of a PROFINET network is determined via a STEP7 topology editor, port 1 and port 2 are displayed for the PROFINET interface for the CU310-2 PN and CU320-2 PN modules and incorrectly also port 1 of the LAN interface (X127).	None					-   -		-		XX	хх		X 2	K X Z	X X -	4.4
AP01120130	disappear when	Integrated PROFINET interface of the CU310-2 PN and CU320-2 PN modules: If fault F01910 "Fieldbus setpoint timeout" is reparameterized as an alarm (p2118=1910 and p2119=2), then the alarm remains present, even when the communication runs correctly again.	None.				-   -   -	-   -	-   -	-   -	-   -	xx	XX	-   -	XX	XXX	x x -	4.4
SINAMICS_SW	V - Closed-loop control																	
AP00516843	When parameterizing a gearbox in p0432/p0433, this is not included in the position calculation.	If a gearbox is parameterized in p0432/p0433, this is only included in the speed, but not the position calculation.	A recalculation of the position can be achieved by activating the position tracking in p0411.0.		X X X		-   -   -	-   -	-   -	X -	-   -	XX	-   -	XX	XXX	XX	-   -   -	2.6 SP2 HF11
AP00891150	can decrease in the range below 30% of the rated motor speed when braking is performed so quickly from	In vector control with encoder, the torque accuracy can decrease in the range below 30% of the rated motor speed when braking is performed so quickly from higher speeds (e.g. from field weakening) that the magnetizing inductance of the motor model cannot be corrected quickly enough through the Lh adaptation. At lower speeds, the Lh adaptation is deactivated automatically internally and the adaptation result remains at the values determined last.	It is recommended that a rotating measurement is always performed after the stationary measurement to determine the magnetizing inductance and the saturation characteristic. The Lh adaptation can then be switched off (p1780 bit2 = 0).	Vector	x	( -			-   -	X -	-   -	XX	-   -			XX	-   -   -	4.3 SP1



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO	Drive familiy Since version
					8020-5 8020-2 60
SINAMICS_SW	- Closed-loop control				
AP01086940	If the technology controller is parameterized as signal source for ESM and the technology controller uses an analog input as actual value signal (P2264), then a wire breakage (A3505) is not detected in ESM mode, if this has already occurred before activation of ESM. The ESM then does not switch over to the alternative setpoint source (P3882).  ESM continues to use the PID controller as signal source and the actual value of the technology controller remains at 0 because of the wire breakage.  P3889 'CO/BO: ESM status		In order to ensure that the correct speed setpoint is used for the ESM operation in all circumstances, P3881 "ESM setpoint source" should be set to 1 "Fixed speed setpoint 15 (p1015)".		
	word' bit 3 'Technology controller actual value (p2264) lost' remains at 0.				
SINAMICS_SW	- Safety Integrated				
AP00719209	In a worst case situation, the total response time is increased by approx. 30 ms compared to V2.5 SP1 when the Safety Integrated extended functions are selected via PROFIsafe.	In a worst case situation, the total response time is increased by approx. 30 ms compared to V2.5 SP1 when the Safety Integrated extended functions are selected via PROFIsafe. This can result in increased overtravel. During the acceptance test of series machines that were previously operated with V2.5 SP1 and are now used with V2.6 SP1, a check must be made whether this is relevant for the safety in the respective application.	If the longer response time is critical, it can be reduced by setting a shorter monitoring cycle for the Safety Integrated extended functions (p9500/p9300) in the drive unit.		X X X X X X X X X 2.6 SP2
AP00808654	When using a double motor module and the Safety Integrated extended functions with the following configuration  - p9511 on one drive of the double motor module = 1 ms - p9511 on the other drive of the double motor module = 0 ms (= take over DP cycle) - isochronous PROFIBUS with PROFIBUS cycle not equal to 1 ms  error messages are output.	When using a double motor module and the Safety Integrated extended functions with the following configuration  - p9511 on one drive of the double motor module = 1 ms - p9511 on the other drive of the double motor module = 0 ms (= take over DP cycle) - isochronous PROFIBUS with PROFIBUS cycle not equal to 1 ms  the error messages C01711 "SI Motion CU: Defect in a monitoring channel" with fault value 1020 and C30711 "SI Motion MM: Defect in a monitoring channel" with fault value 1020 are output.	On the drive with p9511 = 0 ms, set PROFIBUS cycle instead of 0 ms.		-   -
AP00836947	A project download with	A project download with parameterized PROFIsafe (P9601.3	Wait for automatic upload of the		x   x
Ar000530947	A project download with parameterized PROFIsafe (also with safety basic functions via PROFIsafe) fails when the correct SW version is not available in the motor module.	A project download with parameterized PROFIsate (P9001.5 = 1) is aborted with error message "P9601[0]: Invalid value" when the SW versions in the control unit and motor module differ in the following way: Control unit has version V2.6, but the motor module still has version V2.5 or vice versa. The error "9601[0]: Invalid value" occurs under the specified conditions when the project is written directly to the CF card via "Load to file system".	wait for automatic upload of the motor module, then power off/on and download the project again.		



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO								Di	rive	fam	iliy										Since version
					802D-sl 828D	828D-2	CX32-2	D410-2	D425 D425-2	D435	D435-2 D445	D445-2	D455-2 D483	DC Master	G120_C	G130	G150	GMI50	NCU7xx	S120	S120-ACDrive	S150 SL150	SM120	SMISO	
SINAMICS_SW	- Safety Integrated																								
AP01008359	If a test stop of the Safety Integrated motion monitoring functions fails because of the missing pulse enable at the start of the test stop, it may occur that the messages C01798 "SI motion CU: Test stop running" or C30798 "SI motion MM: Test stop running" are still present after deselection of the test stop.	If a test stop of the Safety Integrated motion monitoring functions fails because of the missing pulse enable at the start of the test stop (alarm C01711 "SI motion CU: Defect in monitoring channel" or C30711 "SI motion MM: Defect in monitoring channel" with fault value 1005 "Pulse already deleted at test stop selection"), it may occur that the messages C01798 "SI motion CU: Test stop running" or C30798 "SI motion MM: Test stop running" are still present after deselection of the test stop.	Restart the test stop. The messages C01798 and C30798 then disappear when the test stop has been run correctly.	Servo/Vector	-   -	XX	ζ	-		-	-   -	-	- X	<b>X</b> -		-		-	- Σ	XX	- 2	X -		- 4.	4
AP01052623	Safety extended functions encoderless: If the velocity limit SBR is exceeded, C01711/C30711 with fault value 3 can occur in addition to the expected messages C01706/30706.	Safety extended functions encoderless p9506 "SI motion function specification (control unit)" = 1 "Safety without encoder": If the velocity limit SBR is exceeded C01711 "SI motion CU: Defect in a monitoring channel" and C30711 "SI motion MM: Defect in a monitoring channel "each with fault value 3 "Difference of the actual position value (r9713) between the two monitoring channels is greater than the tolerance in p9542/p9342" can occur in addition to the expected messages C01706 "SI motion CU: SAM/SBR limit exceeded" and C30706 "SI motion MM: SAM/SBR limit exceeded". The messages can be acknowledged.	- Ignore the additional alarms Increase p9542 "SI motion actual value comparison tolerance (cross- comparison) (control unit)" to the values recommended for encoderless in the List Manual.	Servo/Vector		X -	X	-	-   -	-	-   -	-	- X	<b>S</b> -	-   -	X	X -	-		X	X	X -		- 4.	4
AP01060498	Problems can occur for Double Motor Modules and differently set current controller cycle clocks p0115[0] in conjunction with safety extended functions.	Safety extended functions with Double Motor Modules and differently set current controller cycle clocks p0115[0]. The following errors occur:  1. The Motor Module can no longer be addressed when safety with encoder has been parameterized (p9506 "SI motion function specification" = 0) and the safety actual value acquisition cycles clocks (p9511/p9311) on the two drive objects have been set differently.  2. STO cannot be exited and "Internal event" (r9722.7 = 0) is present when safety without encoder has been parameterized on the drive with the larger current controller cycle clock (p9506 "SI motion function specification" > 0).	- Set the current controller cycle clocks p115[0] to the same value - 1. Set the safety actual value acquisition cycles clocks (p9511/p9311) to the same value.	Servo/Vector		X -		-	-   -		-   -	-	- X	<b>X</b> -		-	-   -			X				- 4.	4
AP01061872	With very small values of p9547 "SI motion velocity hysteresis" and enabled safety extended function "n <nx "si="" (p9501.16="1" (p9545="" and="" enable="" filter="" filtering="" filtering"="" functions")="" hysteresis="" motion="" of="" safety="" set="" ssm="" time"="" with=""> 0), it may be that the justifiable error message C01711"SI motion CU: Defect in a monitoring channel" fault value 232 "Difference of the smoothed velocity value between the two monitoring channels is greater than the hysteresis tolerance in p9547/p9347" cannot be acknowledged.</nx>	With very small values of p9547 "SI motion velocity hysteresis" and enabled safety extended function "n <nx td="" with<=""><td>Increase p9547/p9347 "SI motion velocity hysteresis"</td><td>Servo/Vector</td><td></td><td>X -</td><td>X</td><td></td><td>-   -</td><td>-</td><td>-   -</td><td>-</td><td>- X</td><td>K -</td><td>- X</td><td>ζ -</td><td></td><td>-</td><td>X</td><td>XX</td><td>x</td><td>X -</td><td></td><td>- 4.</td><td>4</td></nx>	Increase p9547/p9347 "SI motion velocity hysteresis"	Servo/Vector		X -	X		-   -	-	-   -	-	- X	K -	- X	ζ -		-	X	XX	x	X -		- 4.	4



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO							Dr	ive fa	amili	iy								Since version
					802 D-sl	828D-2 CX32	CX32-2 D410	D410-2 D425	D425-2 D435	D435-2 D445	D445-2	D435-2 D4xx	DC Master GI 20_C	G120_Sinamics_Poo	0150	GL150 GM150	NCU7xx S110	S120	S150	SE150 SM120	SMI 50	
SINAMICS_SW	/ - Safety Integrated												_									
AP01063313	Following an interruption of the DRIVE-CLiQ cable between the CU310-2 and the TM54F, alarm 35015 "TM54F: Motor module replaced or configuration inconsistent" is present after reconnection of the DRIVE- CLiQ cable.	Following an interruption of the DRIVE-CLiQ cable between the CU310-2 and the TM54F, alarm A35015 "TM54F: Motor module replaced or configuration inconsistent" is present after reconnection of the DRIVE-CLiQ cable.	If in parameter 110055 "SI TM54F communication status drive-specific" of the TM54F it is signaled that the communication with the drive of the CU310-2 has been established (and no other faults are present), then error-free operation is also possible with pending alarm A35015. The drive unit must be switched on and off to delete the alarm.			-   -					-   -	-	-   -		.   -   .	-   -	-   -	- >	ζ	-   -	- 4.4	
AP01064838		The problem of the single triggering only occurs under the following conditions: - Extended Safety functions controlled via PROFIsafe - There is only a communication failure in the PROFIsafe communication, not a failure of the entire PROFIBUS/PROFINET communication.	After triggering ESR because of a communication failure (bit 9723.2 is 1), perform a Power Off of the SINAMICS. On the F-PLC, the activation of fail-safe values may only be used when the resulting STO is the desired procedure for shutdown of the drive.	Servo/Vector	1	X -	X -	-   -	-   -		-   -	X	-   -				- X	XX	X X	-   -	- 4.4	
AP01065442		If the flying restart function for enabled safety extended functions is used, sporadically the messages C01711/C30711 "SI motion P1: Defect in a monitoring channel" occur if there is less than 400 ms between the deselection of STO and ON/OFF1. It is irrelevant whether a safety function has been selected during the execution of the flying restart function.	When using the flying restart function, a waiting time of at least 400 ms should be observed between the deselection of STO and ON/OFF1. Alternative: Acknowledge messages C01711/C30711 "SI motion P1: Defect in a monitoring channel" through the "safe acknowledgement" (Internal Event Acknowledge).				X -	-   -	-   -		-   -	X	-   -	X -		-   -	-   -	ХУ	ζ - ·	-   -	- 4.4	
AP01067484	Sporadically, with enabled safety extended functions p9501 "SI motion, enable safety functions" > 0 and after multiple parking and unparking, the error message C01711"SI motion CU: Defect in a monitoring channel" with fault value 3 "Difference of the actual position value (r9713) between the two monitoring channels is greater than the tolerance in p9542/p9342" can occur.	Sporadically, with enabled safety extended functions p9501 "SI motion, enable safety functions" > 0 and after multiple parking and unparking, the error message C01711"SI motion CU: Defect in a monitoring channel" with fault value 3 "Difference of the actual position value (r9713) between the two monitoring channels is greater than the tolerance in p9542/p9342" can occur.	Power Off/On		1	Х -	X -			-	-   -	X						XX			- 4.4	
AP01073390	The cause of the fault is not clear in the current description of fault value 11 of fault F01682.	Fault F01682 with fault value 11 has the following cause: Encoderless monitoring functions (Bit 1 = 1) have been parameterized in parameter p9506 "SI motion function specification". At the same time, no drive-integrated motion monitoring functions (Bit 2 = 0) have been parameterized in parameter p9601 "SI enable of drive-integrated functions". This setting is not permitted, as encoderless monitoring functions are only supported for drive-integrated motion monitoring functions. For this reason, fault F01682 with fault value 11 is issued after saving and Power Off/On. The cause of the fault is not clear in the current description of this fault value.	Do not parameterize encoderless monitoring functions (Bit $1=0$ ) in parameter p9506 "SI motion function specification". Or parameterize the drive-integrated motion monitoring functions (Bit $2=1$ ) in parameter p9601 "SI enable of drive-integrated functions".	Servo/Vector			X -	-   -	-   -		-   -	X	- X	X	.   _	-   -	- X	XX	ζ	-   -	- 4.4	



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO										Dr	ive	fami	iliy										Sin	
					Produces	828D	828D-2	CX32-2	D410	D410-2 D425	D425-2	D435-2	D445	D445-2	D455-2 D4xx	DC Master	GI20_C GI20 Sinamics Poo	G130	GIS0	GMI 50	NCU7xx	S120	S120-ACDrive	S150 SL150	SM120	SM150		
SINAMICS_SW	/ - Safety Integrated																											
AP01075738	Safety extended functions without encoder (p9506 "SI motion function specification" > 0) are not possible for Single Motor Modules with the current controller cycle clock p0115[0] = 31.25 µs and for Double Motor Modules with p0115[0] = 62.5 µs on both drives and p9506 > 0.	Safety extended functions without encoder (p9506 "SI motion function specification" $>$ 0) are not possible for Single Motor Modules with the current controller cycle clock p0115[0] = 31.25 $\mu$ s and for Double Motor Modules with p0115[0] = 62.5 on both drives and p9506 $>$ 0. Error message F30802 "Power unit: Time slice overflow" is output.		Servo	-	-	X -	X	-   -	-   -		-   -	-	-   -	- X	-	-   -	-		-		- X	-	-   -	-	- 4	4	
AP01076818	If the safety functions are used and controlled via PROFIsafe, subsequent plugging in of the motor module or a subsequent activation of the power supply for the motor module is not permitted.	If the safety basic functions or safety extended functions are used and controlled via PROFIsafe, PROFIsafe communication is not established for a subsequent plugging in of the motor module or a subsequent activation of the power supply for the motor module. The drive remains in the 'Switch-on disable' state. The F-host signals 'Timeout of failsafe system detected' in its diagnostics.	Make sure that the motor module is connected during ramp-up of the control unit and is also switched on at the latest with the control unit.  Otherwise, a Power On on the control unit must be performed when subsequently plugging or switching on the motor module.	Servo/Vector	-	.   -	-   -	X	- -	-   -		-   -	-	-   -	- X	-	-   -	X	X -	-	- -	- X	X	X -	-	- 4	4	
AP01077242	Cause and remedy for fault F01652 "SI CU: Illegal monitoring cycle clock" with fault value 109 not described correctly.	The cause and the remedy for fault F01652 "SI CU: Illegal monitoring cycle clock" with fault value 109 are not described correctly. The correct descriptions are: - Cause for fault value = 109: If the motion monitoring functions are parameterized without encoder (p9506), the actual value acquisition cycle clock (p9511) must be 250 µs Remedy for fault value = 109: Set the actual value acquisition cycle clock in p9511 to 250 µs.	Note the corrected description.			-		-	-   -		-	-   -	-	-   -	-   -	-	-   -	-	-   -	-	- 3	K -	-	-   -	-	- 4	.4	
AP01077416	Description of p9306/p9506 "SI motion function specification" is incomplete.	The description of the set values for parameter p9306/p9506 "SI motion function specification" is incomplete. The complete description is: Value 0: "Safety with encoder and acceleration monitor (SAM) / deceleration time" Value 1: "Safety without encoder with brake ramp monitoring (SBR)" Value 3: "Safety without encoder with acceleration monitor (SAM) / deceleration time"	No workaround required.		-	-	X -	X	-   -	-   -	X	- X	<b>C</b> -	X	X -	-	-   -	-	-   -	-	- 2	XX	X	-   -	-	- 4	4	
AP01077809	Activation of the Copy function for the Safety Integrated parameters by STARTER/SCOUT in offline mode is not permitted when Safety Integrated has not been enabled.	The activation of the Copy function for the Safety Integrated parameters by STARTER/SCOUT in offline mode is not permitted when Safety Integrated has not been enabled (safety function selection set to "No Safety Integrated"). If a project with Copy function activated offline is downloaded when Safety Integrated has not been enabled, fault F01663 "SI CU: Copying of the SI parameters rejected" is output.	Perform the remedy described in fault F01663 "SI CU: Copying of the SI parameters rejected".		-	-	X -	X	-   -	-   -	-	-   -	-	-   -	- X	: - -	XX	-	-   -	-	- X	XX	X	X -	-	- 4	4	
AP01082704	If SS2 has been selected or a Stop E/D/C has been triggered due to a monitoring function, the SOS is only deselected after the transition time STOP B->A has expired in the following transition to a Stop B for an SOS violation. For this reason, no acceleration monitoring of the braking operation is active in this phase.	the transition time STOP B->A has expired in the following	This extension of the worst-case response time must be taken into account and a short transition time from Stop B to A Stop A (p9556/9356) selected accordingly.	Servo/Vector	-	-	Х -	X	-   -	-   -		-   -	-	-   -	- X	-	-   -	-	-   -	-	Х	XX	X	X -	-	- 4	.4	



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO		Drive familiy				Since version											
					802D-sl 828D	828D-2 CX32	CX32-2 D410	D410-2 D425	D425-2 D435	D435-2	D445-2 D455-2	D4xx	GI20_C	Gl20_Sinamics_Poo Gl30	GL150	GM150 NCU7xx	S110 S120	S120-ACDrive	SL150	SM120	resolution .
SINAMICS_SW	/ - Safety Integrated																				
AP01084902	When operating safety encoderless with synchronous motors, fault C01711 "SI motion CU: Defect in a monitoring channel" with fault values 1041/1042/1043 can occur depending on the motor type or load state. The set values of p9588, p9589, p9783 to avoid the error message are difficult to determine.		Perform fine tuning with p9588, p9589 and p9783.	Servo/Vector		X -	X -				-   -	x -		-   -			XX	(X) -		-	4.4
AP01090853	If p9500/p9300 "SI motion monitoring cycle clock" is not an integer multiple of the current controller cycle clock p0115[0] "Sampling times for internal control loops", errors can occur when powering up the drive system.	drive system F01200 "CU: Time slice management internal software	Restore factory settings and recommission the drive object. Whereby, set p9500/p9300 "SI motion monitoring cycle clock" as an integer multiple of the current controller cycle clock p0115[0] "Sampling times for internal control loops". Note for the CU305, p0115[0] is permanently set to 250 us and cannot be changed.							-   -		-   -	X	X -	-   -	1	XX	(X) -		-	4.4
AP01095434	For SDI with setpoint specification 0 and synchronous motor, safety fault C01716/C30716 "SI motion: Tolerance for safe direction of motion exceeded" or C01711/C30711 (3) "SI motion: Defect in a monitoring channel" is output.	When the parameterized absolute current value in p9783 "SI motion synchronous motor current injection encoderless" is the same as the set minimum current in p9588 "SI motion actual value acquisition encoderless minimum current" and the synchronous drive is in no-load operation, then a faulty alarm of a safety monitoring function can occur, such as C01716/C30716 "SI motion: Tolerance for safe direction of motion exceeded" or alarm C01711/C30711 "SI motion: Defect in a monitoring channel".	Set parameter p9783 "SI motion synchronous motor current injection encoderless" to at least 1.2 times p9588 "SI motion actual value acquisition encoderless minimum current".	Servo/Vector			X -					Х -					XX	(X) -		-	4.4
AP01111628	With large values (>3000 rpm) of parameter p9546 "SI motion SSM velocity limit", enabled safety extended function "n <nx: "enable="" "limit="" "velocity="" (p9501="" +="" 16="1)" 233="" 75="" a="" and="" axis,="" bit="" c01711"si="" can="" channel"="" cu:="" defect="" error="" fault="" filtering"="" functions"="" hysteresis="" in="" limit="" message="" monitoring="" motion="" n<nx"="" nx="" occur.<="" of="" or="" rotary="" safety="" si="" td="" the="" tolerance"="" value="" values="" with=""><td>C01711"SI motion CU: Defect in a monitoring channel" with</td><td>- Slightly adjust p9546 (e.g. set value +/-5) - Set p9546 &lt; 3000 rpm (if compatible with application) - Disable function "n<nx "si="" (if="" (not="" -="" 16="0" and="" application)="" bit="" clock="" clock"="" compatible="" cycle="" filtering"="" for="" g120)<="" hysteresis="" if="" monitoring="" motion="" p9500="" p9501="" reduce="" required,="" safety="" td="" through="" with=""><td></td><td></td><td>X -</td><td>X -</td><td></td><td></td><td></td><td></td><td>  X   -</td><td>- 2</td><td>X -</td><td>-   -</td><td></td><td>XX</td><td>XX</td><td>ζ -</td><td>-</td><td>4.4</td></nx></td></nx:>	C01711"SI motion CU: Defect in a monitoring channel" with	- Slightly adjust p9546 (e.g. set value +/-5) - Set p9546 < 3000 rpm (if compatible with application) - Disable function "n <nx "si="" (if="" (not="" -="" 16="0" and="" application)="" bit="" clock="" clock"="" compatible="" cycle="" filtering"="" for="" g120)<="" hysteresis="" if="" monitoring="" motion="" p9500="" p9501="" reduce="" required,="" safety="" td="" through="" with=""><td></td><td></td><td>X -</td><td>X -</td><td></td><td></td><td></td><td></td><td>  X   -</td><td>- 2</td><td>X -</td><td>-   -</td><td></td><td>XX</td><td>XX</td><td>ζ -</td><td>-</td><td>4.4</td></nx>			X -	X -					X   -	- 2	X -	-   -		XX	XX	ζ -	-	4.4



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO	Drive familiy Since version
					828D 828D 828D 2 82D 10 10 10 10 10 10 10 10 10 10 10 10 10
SINAMICS_SW	V - Safety Integrated				
AP01112024	The safety function SDI ("Safe Direction") cannot be parameterized offline.	If a STARTER/SCOUT project is first created offline for a control unit that supports the safety function SDI ("Safe Direction"), SDI can be parameterized in offline mode.	Parameterize the safety function SDI in online mode or perform a project upload, and SDI can then also be completely parameterized in offline mode.		-   x   -   x   -   -   x   -   x   -   x   -   x   x
AP01122329	If the compound brake is used in conjunction with enabled safe motion monitoring, sporadically alarm C01711 "SI Motion P1: Defect in a monitoring channel" with alarm value 3 can occur.	If the braking current of the compound brake exceeds the maximum converter current, then in conjunction with enabled safe motion monitoring, sporadically the unqualified alarm C01711 "SI Motion P1: Defect in a monitoring channel" with alarm value 3 "Difference of the actual position value (r9713) between the two monitoring channels is greater than the tolerance in p9542/p9342" can occur.	Reduce p3856 "Compound braking current".		-   -   -   -   -   -   -   -   -   -
AP01127246	Parameters p9554/p9354 "SI motion transition time from STOP E to SOS (SBH)" are erroneously displayed in the expert list for the CU305. They have no function for the CU305 and must not be used. A parameterization of p9554/p9354 results in the non-acknowledgeable fault C01711/C30711 "SI motion CU: Defect in a monitoring channel" with fault value 39 "Transition time from STOP E to SOS (p9554/p9354)".	Parameters p9554/p9354 "SI motion transition time from STOP E to SOS (SBH)" are erroneously displayed in the expert list for the CU305. They have no function for the CU305 and must not be used. A parameterization of p9554/p9354 results in the non-acknowledgeable fault C01711/C30711 "SI motion CU: Defect in a monitoring channel" with fault value 39 "Transition time from STOP E to SOS (p9554/p9354)".	Reset p9554/p9354 to default value 100.		
SINAMICS_SW	W - SIMOTION				
AP01078494	If the parameter macro p0700 = 1 "SIMOTION(PM000001.XM L )" is selected for the TM31 terminal module, the digital outputs are not wired correctly.	The following connections are established: P4038 interconnected with r2091.8; p4039 interconnected with r2091.9; p4040 interconnected with r2091.10; p4041 interconnected with r2091.11.  The following interconnections are correct: p4038 interconnected with r2090.8; p4039 interconnected with r2090.9; p4040 interconnected with r2090.10; p4041 interconnected with r2090.11.	Establish the correct interconnections manually.	TM31	-   -   X -   -   -   -   -   -   -
SINAMICS_SW	V - Topology				
AP00710801	The automatic configuration with BLM and SLM is not possible when at least one of the components is available several times.	The automatic configuration with BLM and SLM is not possible when at least one of the components is available several times.	Offline configuration with the aid of the STARTER wizard.		X X - X - X - X X - X X X 2.6 SP2
AP00956121	If in a topology with at least two CUA31/CUA32 modules, at least two DRIVE-CLiQ components (e.g. encoders) are incorrectly connected to the CUA modules (i.e. configured differently than in the reference topology), then this results in F01003 "NAK exception" on the control unit.	If in a topology with at least two CUA31/CUA32 modules, at least two DRIVE-CLiQ components (e.g. encoders) are incorrectly connected to the CUA modules (i.e. configured differently than in the reference topology), then this results in F01003 "NAK exception" on the control unit.	Connect the DRIVE-CLiQ components correctly and then Power Off/On.		-   -   X   -   -   -   -   -   -   -



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO	Drive familiy Since version				
					802D-84 828D-2 CX23 CX23 CX23-2 D410 D418-2 D448 D448 D448 D448 D448 D448 D448 D44				
SINAMICS_SW	SINAMICS_SW - Topology								
AP01085875	frequency spindle are operated on one control unit.	If a chassis infeed and a high-frequency spindle are operated on one control unit, error message F01340 "Topology: Too many components on one line" is output. The information that this topology is not permitted is missing in the user documentation.	Use a separate control unit for the chassis infeed.	Active Line Module					
AP01087737	(via a HUB module), they are		If there are more than three SMI on a motor module, the SMIs must be assigned offline to the encoder data sets in STARTER.	Servo/Vector	-   x   -   x   -   -   -   -   -   -				



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO	Drive familiy Since version						
					802D-4  820D-2  820D-2  CX22  CX22  CX32-2  CX32-2  CX32-2  D410  D410-2  D425-2  D445-2  D445						
SINAMICS_SW	NAMICS_SW - Trace										
AP01101145	When using the trace functionality, alarms that have not been documented may occur (alarm number range 2050 - 2099).	When using the trace functionality, alarms that have not been documented may occur (alarm number range 2050 - 2099). The alarms have the following meaning:  A02050 "Trace: Unable to start" The trace has already been started.  A02055 "Trace: Trace duration too short" The value for the trace duration is too small. The minimum is double the trace cycle.  A02056 "Trace: Trace cycle too small" The selected trace cycle is less than the set basic cycle clock p0110[0].  A02057 "Trace: Invalid time slice cycle" The selected time slice cycle does not correspond to any available time slice.  A02058 "Trace: Invalid time slice cycle for endless trace" The selected time slice cycle cannot be used for the endless trace.  A02059 "Trace: Invalid time slice cycle for 2 x 8 recording channels" The selected time slice cycle cannot be used for more than four recording channels.  A02060 "Trace: Signal to be recorded is missing" - No signal has been specified for recording The specified signals are invalid.  A02061 "Trace: Invalid signal" - The specified signal does not exist The specified signal cannot be recorded with the trace.  A02062 "Trace: Invalid trigger signal" - No trigger signal has been specified The specified signal does not exist The specified signal is not a fixed-point signal The specified signal is not a been specified data type for the signal selection via the physical address is invalid.  A02063 "Trace: Invalid data type" The specified data type for the signal selection via the physical address is invalid.  A02070 "Trace: Parameter cannot be changed" When the trace is activated, its parameterization cannot be changed.  A02075 "Trace: Pretrigger time too long" The set pretrigger time must be less than the value for the trace duration.  A02099 "Trace: Insufficient control unit memory" Reduce the memory requirement, for example, as follows: - Shorten the trace duration Increase the trace cycle Reduce the number of signals to be recorded.	None.								
AP01116295	With vector drives, the current pulse frequency r1801 for trace recordings (STARTER) for motors with a pole pair number greater than 1 is displayed too large.	With vector drives, the current pulse frequency r1801 for trace recordings (STARTER) is displayed too large by the factor of the current motor pole pair number (r0313[MDS]). This does not affect the control response of the drive. The display in the expert list in parameter r1801 is correct.	None.		X X X X X X 4.4						



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO	Drive familiy	Since version					
					802D-41 802D-41 802D-52 802D-52 802D-52 802D-52 802D-52 802D-52 802D-53 802D-53 802D-54 802D-5						
SINAMICS_SW	SINAMICS_SW - Upload/Download										
AP00893231	Projects saved via the STARTER function "Loading to file system" on the MMC card cannot be run on the CU305.	Projects saved via the STARTER function "Loading to file system" on the MMC card cannot be run on the CU305.	Execute a project download directly into the device.	Servo	4.	.3 SP1					
AOP_SW - Gen	eral										
AP01059877	Alarm A01099 "Tolerance window of the time synchronization exited" occurs during time synchronization between the AOP and SINAMICS.	If real-time synchronization of the drive is activated on the AOP30, the drive is synchronized to the AOP30 time during activation and daily at 02:00 during continuous operation. If the difference between the time on the drive and the time on the AOP time is greater than 1 s, alarm A01099 is issued briefly and then immediately canceled again. The functionality is not affected.	There is no workaround.		4.	.4					
AOP_SW - AOI	P30										
AP01065767	If the drive is traversed via the AOP30 in LOCAL mode, the drive may remain stopped with supply voltage errors after as supply voltage failure despite activated automatic restart.	If the drive is traversed via the AOP30 in LOCAL mode, the drive may remain stopped with supply voltage errors after as supply voltage failure despite activated automatic restart.	In this case, the fault must be acknowledged via the AOP and the drive can be switched on again.		-   -   -   -   -   -   -   -   -   -	.4					
AOP_SW - Upg	rade										
AP01097556	Firmware loss at power failure during update	The AOP30 loads - after confirmation by the user - the firmware suitable for a drive software version. The message: "Loading program please do not switch off" flashes in the display. If the power supply is switched off during the last 10 s of the loading operation, the device firmware is destroyed and only the red FAULT LED is still lit.	The AOP30 can be reactivated by means of a PC and a loading program that can be called from the Internet. The software and instructions are available at http://support.automation.siemens.com/WW/llisapi.dll/26292443?func=ll&objId=26292443&objAction=csView &nodeid0=18530149⟨=de&sitei d=csius&aktprim=0&extranet=standard&viewreg=WW&load=content as AOP30_V2.4.exe		4.	.4					
DCBLib_SINA	MICS_RT - General										
AP00454790	r21002 & r21003 are not updated offline.	r21002 & r21003 are not updated offline (expert list).	Parameters r21002 & r21003 can be determined in the 'Set Execution Groups' dialog box. The value of r21002 corresponds to p115[0], r21003 corresponds to r7901[15]		-   -   x   x   -   -   -   -   -   -	.3 SP2					



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO	Drive familiy Since version							
					802D-s1 828D 828D-2 CX32 CX32 CX32-2	D410-2 D425 D425-2 D435-2	D445-2 D455-2 D455-2	DC Master G120_C G120_Sinamics_Poo	G150 GL150 GM150	S110 S120 S120	S150 SL150 SM120	051WS
DCBLib_SINA	DCBLib_SINAMICS_RT - DCC											
AP01085770	value 200.0.	If larger input values are used, the ramp down is still smooth at first and with rounding. As of an output value Y of 60% of the original input value, the output jumps to the current input	The configuration of the DCC chart should always be carried out so that the input value X of the RGJ block is limited to values less than 200.0.		X	X - X - X	- X X -	x x	XXX	X X	XXX	X 4.4
AP01095087	DCC: After the initial download, the VLD output on the SAV block sporadically incorrectly displays the validity of input Y.	After the initial download to the target device, the VLD output on the SAV block sporadically displays that the value at output Y has been read from the retentive memory and is valid.	Download to target device again.		X		X	X -   -   X	XXX	X X	XXXX	X 4.4
AP01110577	CU crash during download of an incompatible DCBLib Version and subsequent download of the compatible version.	If the upgrade of the DCBLib SINAMICS is forgotten when upgrading a project from V4.3 to V4.4, the control unit crashes during the download of the project.	Upgrade the DCBLib SINAMICS to version V4.4 and then Power Off/On the control unit.		X - X	-   -   -   X	- X X -	-   -   -   X		-   -   X   X	( X X -	- 4.4
Encoder_Dumm	ny - Closed-loop control											
AP00993605	With a current controller clock cycle of 31.25us (p0115), fault F07901 "Drive: Motor overspeed" occurs when unplugging / plugging in the DQI encoder.	When using a motor with a DQI encoder, error message fault F07901 "Drive: Motor overspeed" can occur with the setting p0112=5/p115=31.25. This fault occurs in connection with encoder deactivation, unplugging / plugging in of the encoder and subsequent activation of the encoder.	None.				X			X - X -		- 4.4
FH1 Funktionsh	S120 - General											
AP01115131	The Vdc-max controller may only be activated for one motor module in a drive line- up in the VECTOR operating mode.	The Vdc-max controller may only be activated for one motor module in a drive line-up in the VECTOR operating mode, otherwise there may be a short acceleration of the axis before it is decelerated.	None				X	-   -   -   -		-   -   X   -		- 4.4
LH1 Listenh S1	LH1 Listenh S120/S150 - General											
AP01077982	control: Overflow of the value range for the actual position value" occurs when using a	If a linear encoder is used, make sure that the system variables are observed. This means:  a) p407*p2503/(2^p418*10^7) must be less than 1 b) p407*p2503/(2^p419*10^7) must be less than 1				-   -   -   -	-  -   X	-   -   -   -		XXXX	( X -   -	- 4.4
LH1 Listenh S1	20/S150 - Safety Integrated											
AP01104176	clock is changed from 400 µs to 125 µs for a chassis power	If the current controller cycle clock is changed from $400~\mu s$ to $125~\mu s$ for a chassis power unit when a safety function is activated, message F01650, fault value 1000 appears at the next ramp-up of the CU that an acceptance test is required.	Supplement to the remedy for F01650, fault value 1000: - Check the cycle time for the Safety Integrated basic functions (r9780) and adapt the set checksum (p9799)				- - -	-   -   -   -		-   -   X   -	X  -   -	- 4.4



ARTSPlusRQ	Brief description	Circumstances	Possible work-around	Affected DO	Drive familiy Since version
					802D-54 828D 828D 6X32 CX32 CX32 CX32 D410 D4102 D4102 D425 D425 D435 D435 D435 D435 D435 D435 D435 D43
LH1 Listenh S1	20/S150 - Safety Integrated				
AP01104727	C01711.1012	Additional remedial measures are missing for fault message C01711.1012. Currently only the following measures are specified: - Update software version of the sensor module - Check that the encoder parameters are the same.	Additional measures: - Check the encoder connection - Check for possible EMC effects		-   -   -   -   -   -   -   -   -   -
LH7 Listenh S1	10 - Safety Integrated				
AP01127356	motion pulse suppression delay for bus failure" are erroneously displayed in the expert list for the CU305. They have no function for the	Parameters p9580/p9380 "SI motion pulse suppression delay for bus failure" are erroneously displayed in the expert list for the CU305. They have no function for the CU305 and must not be used. A parameterization of p9580/p9380 does not result in the expected response of an OFF3 reaction with delayed pulse suppression. The drive coasts down immediately when there is a bus failure.	Reset p9580/p9380 to default value 0.		
STARTER - Ge	neral				
AP01039750	Limitation of the actual value in the technology controller (p2267, p2268)	As of version V4.4, a limitation of the actual value can be specified in the technology controller. The limitation is activated via p2252.3. The limit values are specified in the parameters p2267(max.) and p2268 (min.) and have been assigned the default values -200% (p2268) and +200% (p2267). This functionality is not supported by STARTER screen forms.	The activation of the limitation (P2252.3) and the specification of the limit values (p2267, p2268) must be performed in the expert list.		