ChangeLog - ABC3061

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ABC3061 - 1.04.01

Added support for: Large serial frame, large variable data object, start / end characters, bugfixes

Category	Description	Comment
Bug fix	Fixed bug regarding access rights on 0x21XX objects	
Bug fix	Fixed issue where too short modbus messages would get processed using data from previous received modbus message.	Improved serial stability
Bug fix	Fixed Modbus to return exceptions in the order they where detected.	Improved error management
Bug fix	Incorrect LED timing.	Improved accuracy of LED blink frequencies.
Bug fix	SDO read on 0x20xx and 0x21xx objects is now always 0.	
Bug fix	0.0.0.0 is now only accepted when dhcp is enabled.	It was possible to configure 0.0.0.0 as static IP address. If this was configured the module will be unreachable and the module needed a factory default reset.
Bug fix	Old address is defended after DHCP has been enabled.	After DHCP was enabled the device will still defend its old address until an address was assigned by a DHCP server.
Bug fix	Incorrect configuration of IP fragmentation.	Fixed problem with IP fragmentation of packets larger than 1280 bytes. Now up to 2560 byte-packets can be handled.
Bug fix	Wink pattern did not show on EtherCAT LED.	SHICP (IPConfig) Wink LED pattern now works correctly on EtherCAT NS LED.
Bug fix	Module could enter fatal during re-configuring.	Fixed issue that may cause the module to enter fatal during re-configuring.
Bug fix	Serial tx stopped in certain situations.	Fixed problem causing serial tx to stop in certain situations.

Bug fix	Unmapped trigger bytes caused "Something went wrong".	Ack/Nack/Trigger transaction can not be set to unmapped.
Improvement	Increase explicit message max length.	Increased maximum length of explicit serial messages to 1500 bytes.
Improvement	Add support for checksum destination representation.	The serial network checksum objects' destination (i.e the serial telegram) may be configured with a representation (Binary/ASCII) independently from the transaction it belongs to.
Improvement	Support larger variable data objects.	Support larger variable data objects when byte counter isn't used.
Improvement	Increase maximum telegram length.	Increase maximum serial telegram length to 1500 bytes.
Improvement	Explanatory text and changed LED when EtherCAT.	Changed so that when EtherCAT network is used the LED status is not shown, an explanatory text is shown.
Improvement	Max size of general map area is 1024 bytes.	Max size of general map area is set to 1500 bytes.
New Feature	Frame Start / End Characters.	Added support for filtering serial telegrams using start and end character to the serial protocol configuration.

ABC3061 - 1.03.01

EtherCAT ESI generator based on I/O size

Category	Description	Comment
New feature	Changed EtherCAT LED behavior in GUI.	Changed so that when EtherCAT network is used the LED status is not shown, an explanatory text is shown instead.
New feature	Added support for user comment.	The user can add text in a text field in the top right corner.
New feature	Added support for EtherCAT ESI generator based on current configuration.	The ESI file is generated based on the configured I/O Size.

ABC3061 - 1.02.01

EtherCAT port 2 link was unstable on older hardware with BroadCom PHY

ABC3061 - 1.01.02

Initial release of Serial master - EtherCAT slave

Category	Description	Comment
Bug fix	DNS1 and DNS2 address was always 0.0.0.0 after power cycle	
Bug fix	Security LED did not operate correcty after startup	Fixed an issue causing the security LED to indicate the wrong state
Bug fix	Hostname change require powercycle on cfg port with SHICP	The Hostname settings were not applied correctly when modified using HMS Ipconfig
Bug fix	RS485 driver remains active up to 1 character after end of frame	RS485 driver remains active up to 1 character after end of frame, causing collision if a modbus slave device responds quicker than the specified 3.5 characters delay required by the modbus specification
Bug fix	Full-duplex RS232 communication was not working in some HDL-releases	Full-duplex for RS232 is now working in all HDL-releases
Bug fix	Possible NULL pointer access in timer handling	Increased stability under extreme interrupt load
Bug fix	ACD state could be stuck in conflict even after IP is recovered	Fixed bug that could keep the Ethernet connection in conflicted state after Automatic Conflict Detection (checking if IP-address is already taken) was resolved
Bug fix	Fixed error when duplicating transactions that cannot be fully mapped	
Bug fix	The nodes in the "Nodes & commands" list and in the home page status overview are sorted by their addresses	
Bug fix	The serial log rows are colored to indicate direction	
Bug fix	Various web bug fixes	Various bug fixes in the user interface
Bug fix	Serial data monitor now works on Firefox	This enables serial log functionality with the Firefox web browser.
Bug fix	Turnaround delay could not be set to 0	Turnaround delay could not be set to 0 (disabled), it is now possible
Bug fix	EtherCAT ESI file link missing on the support page	Added the product EtherCAT ESI file on the internal web
Bug fix	Incorrect gateway configuration version handling fixed	
Bug fix	Disabled timeout = 0 was not allowed during import	Allows the user to import a configuration with timeout = 0 without issues
Bug fix	Navigation bar and mobile mode	Navigation bar in web-gui is now automatically hidden on navigation in mobile mode
Improvement	Let CPU sleep during NULL tasks	Reduces the power consumtion of the product

Improvement	Support hardware without unused security chip	
Improvement	Improve firmware update timeout error	Improved the error message when updating firmware
Improvement	Show the size to/from the serial network for each node	Allows the user to see the configured size on each node on the Nodes and transaction page with the total number of bytes to and from the serial network
New feature	Standard Modbus RTU, RS232/RS485 support	Allows the user to use the gateway as a Modbus RTU Client over RS232 and RS485
New feature	Configurable byte swap / endian conversion	Allows the user to use different byte orders on serial network and the slave network
New feature	Changed minimum update time for serial transactions to 3 ms	Allows the user to set minimum update time for serial transactions to 3 ms instead of 10ms
New feature	Custom produce and consume transaction support	Allows the user to create custom produce and consume transactions
New feature	Custom request and response transaction support	Allows the user to create custom request and response transactions
New feature	General data area	Allows the user to store data in a general data area without mapping to slave network for, ex. Trigger configurations etc.
New feature	Unlocked article ABC3090 support added	Allows the user to use SER-Ethernet/IP, SER-PROFINET, SER-Modbus TCP Firmware i ABC3090
New feature	Always online with only produce transactions	A node is always in state online if the node only has one or more produce transactions
New feature	Serial data monitor	Allows the user to montor the serial traffic on RS232/RS485
New feature	Add support for 7 data bits	Allows the user to use 7 data bits serial transmission
New feature	Frame objects available in the I/O Map	The user can see different frame objects in the I/O Map
New feature	Update mode "Trigger"	Allows the user to user data as trigger to execute transactions
New feature	Inter-telegram and inter-character delay shall be possible to set as advanced options	Allows the user to configure delay between both characters and telegrams in serial traffic
New feature	Added ADD and XOR checksums	Allows the user to use ADD and XOR checksums and one’s and two’s complement on all checksums types
New feature	Broadcast node	Allows the user to configure node 0 as a broadcast node

New feature	Update mode "Cyclic"	Allows the user to set up a transaction to be executed cyclically
New feature	Data exchange control	Allows the user to enable/disable serial nodes using a register from the slave network
New feature	Acknowledge and negative acknowledge	Allows the user to map a positive feedback acknowledge to a value and a separate negative acknowledge feedback to a value
New feature	Live list functionality added to serial interface	Allows the user to read a register on the slave interface with individual serial node status
New feature	Brand label	Enables brand label setups with customized identities and look and feeln for customers on customer specific order codes
New feature	Update mode "Single shot"	Allows the user to set up a transaction to be executed once after gateway start
New feature	Disabled timeout = 0 (checkbox in gui)	Allows the user to disable timeout using a checkbox, leading to set the node always online
New feature	Process data monitor	Allows the user to monitor the traffic between the serial and slave network in both directions including byte swap / endian conversion
New feature	Import / Export node template	Allows the user to save a node template to a file and read / add a node from a file
New feature	Import / Export transaction template	Allows the user to save a transaction template to a file and read / add a transaction from a file
New feature	Import a Anybus Communicator Classic configuration	Allows the user to import the serial configuration from an Anybus Communicator Classic configuration file
New feature	Import of Anybus Communicator Classic RS422 configurations	Import of Anybus Communicator Classic RS422 configurations will be allowed but converted to RS485
New feature	No cable connected indication	Indicate No link on home view when link is lost
New feature	Offline option on serial transaction	Allows the user to set offline options on a transaction, continue or pause
New feature	Offline options (clear/freeze)	Allows the user to set offline options (clear/freeze) to the transactions