

# ChangeLog - ABC3000

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## ABC3000 - 1.04.01

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

| Category       | Description   | Comment  |
|----------------|---|--|
| <b>Bug fix</b> | 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.  |
| <b>Bug fix</b> | 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.                  |
| <b>Bug fix</b> | Incorrect LED timing.   | Improved accuracy of LED blink frequencies.  |
| <b>Bug fix</b> | Fixed issue where too short modbus messages would get processed using data from previous received modbus message. | Improved serial stability  |
| <b>Bug fix</b> | Fixed Modbus to return exceptions in the order they where detected.   | Improved error management  |
| <b>Bug fix</b> | Module could enter fatal during re-configuring.   | Fixed issue that may cause the module to enter fatal during re-configuring.  |
| <b>Bug fix</b> | All communication could stop with error service RR.   | Fixed an issue that could cause software resources to get lost during high CPU load and cause the PROFIBUS devices to respond with "No resources" (RR) to some network requests. |
| <b>Bug fix</b> | 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.   |
| <b>Bug fix</b> | Serial tx stopped in certain situations.  | Fixed problem causing serial tx to stop in certain situations.   |

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| <b>Bug fix</b>     | Acyclic HDL buffers are used after they are acknowledged. | The acyclic HDL buffers are now released first after callback functions to the application have been performed. Before the fix the buffers were acknowledged before the call which could result in collisions. |
| <b>Bug fix</b>     | Unmapped trigger bytes caused "Something went wrong".     | Ack/Nack/Trigger transaction can not be set to unmapped.   |
| <b>Improvement</b> | 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.                            |
| <b>Improvement</b> | Support larger variable data objects.                     | Support larger variable data objects when byte counter isn't used.   |
| <b>Improvement</b> | Increase maximum telegram length.                         | Increase maximum serial telegram length to 1500 bytes.   |
| <b>Improvement</b> | Increase explicit message max length.                     | Increased maximum length of explicit serial messages to 1500 bytes.  |
| <b>Improvement</b> | Max size of general map area is 1024 bytes.               | Max size of general map area is set to 1500 bytes.   |
| <b>New feature</b> | Added support for user comment.                           | The user can add text in a text field in the top right corner.   |
| <b>New Feature</b> | Frame Start / End Characters.                             | Added support for filtering serial telegrams using start and end character to the serial protocol configuration.   |

## ABC3000 - 1.03.02

### Support hardware with either Broadcom and Texas PHY

| Category           | Description   | Comment   |
|--------------------|---|---|
| <b>Bug fix</b>     | Possible NULL pointer access in timer handling                  | Increased stability under extreme interrupt load  |
| <b>Bug fix</b>     | 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 |
| <b>Bug fix</b>     | Navigation bar and mobile mode                                  | Navigation bar in web-gui is now automatically hidden on navigation in mobile mode  |
| <b>Improvement</b> | Let CPU sleep during NULL tasks                                 | Reduces the power consumption of the product  |

# ABC3000 - 1.02.01

| Category    | Description  | Comment  |
|-------------|--|--|
| 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     | 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     | Hostname change require powercycle on cfg port with SHICP            | The Hostname settings were not applied correctly when modified using HMS Ipconfig  |
| Bug fix     | DNS1 and DNS2 address was always 0.0.0.0 after power cycle           |  |
| Bug fix     | Disabled timeout = 0 was not allowed during import                   | Allows the user to import a configuration with timeout = 0 without issues  |
| 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   |

# ABC3000 - 1.01.01

Support hardware without unused security chip

# ABC3000 - 1.00.03

| Category | Description                         | Comment                                  |
|----------|-------------------------------------|--|
| Bug fix  | Incorrect maximum size for PROFIBUS | Corrected size for PROFIBUS to 244 bytes |

# ABC3000 - 1.00.02

| Category | Description  | Comment |
|----------|--|---------|
| Bug fix  | Incorrect gateway configuration version handling fixed |         |

# ABC3000 - 1.00.01

## Modbus RTU Master - PROFIBUS - Full Anybus Communicator replacement

| Category    | Description   | Comment   |
|-------------|---|---|
| Bug fix     | Security LED did not operate correctly after startup  | Fixed an issue causing the security LED to indicate the wrong state   |
| Bug fix     | Serial data monitor now works on Firefox  | This enables serial log functionality with the Firefox web browser.   |
| 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     | Turnaround delay could not be set to 0  | Turnaround delay could not be set to 0 (disabled), it is now possible   |
| 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 | 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 | Add support for 7 data bits   | Allows the user to use 7 data bits serial transmission  |
| 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 | 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 | Custom request and response transaction support   | Allows the user to create custom request and response transactions  |
| New feature | Custom produce and consume transaction support  | Allows the user to create custom produce and consume transactions   |

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| <b>New feature</b> | 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                                |
| <b>New feature</b> | Configurable byte swap / endian conversion  | Allows the user to use different byte orders on serial network and the slave network                                      |
| <b>New feature</b> | Standard Modbus RTU, RS232/RS485 support  | Allows the user to use the gateway as a Modbus RTU Client over RS232 and RS485  |
| <b>New feature</b> | Serial data monitor   | Allows the user to monitor the serial traffic on RS232/RS485  |
| <b>New feature</b> | Broadcast node  | Allows the user to configure node 0 as a broadcast node   |
| <b>New feature</b> | Data exchange control   | Allows the user to enable/disable serial nodes using a register from the slave network                                    |
| <b>New feature</b> | 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 |
| <b>New feature</b> | Update mode "Trigger"   | Allows the user to use data as trigger to execute transactions  |
| <b>New feature</b> | Frame objects available in the I/O Map  | The user can see different frame objects in the I/O Map   |
| <b>New feature</b> | Update mode "Cyclic"  | Allows the user to set up a transaction to be executed cyclically   |
| <b>New feature</b> | 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                        |
| <b>New feature</b> | 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                                |
| <b>New feature</b> | Live list functionality added to serial interface                                     | Allows the user to read a register on the slave interface with individual serial node status                              |
| <b>New feature</b> | Update mode "Single shot"   | Allows the user to set up a transaction to be executed once after gateway start   |
| <b>New feature</b> | Brand label   | Enables brand label setups with customized identities and look and feel for customers on customer specific order codes    |
| <b>New feature</b> | Import / Export node template   | Allows the user to save a node template to a file and read / add a node from a file                                       |
| <b>New feature</b> | Import / Export transaction template  | Allows the user to save a transaction template to a file and read / add a transaction from a file                         |
| <b>New feature</b> | Import a Anybus Communicator Classic configuration                                    | Allows the user to import the serial configuration from an Anybus Communicator Classic configuration file                 |

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| <b>New feature</b> | Import of Anybus Communicator Classic RS422 configurations | Import of Anybus Communicator Classic RS422 configurations will be allowed but converted to RS485 |
| <b>New feature</b> | No cable connected indication                              | Indicate No link on home view when link is lost   |
| <b>New feature</b> | Offline option on serial transaction                       | Allows the user to set offline options on a transaction, continue or pause                        |
| <b>New feature</b> | Offline options (clear/freeze)                             | Allows the user to set offline options (clear/freeze) to the transactions                         |