



# Release Information

## Anybus Communicator

7741 - Anybus Communicator  
Application  
Version 1.038  
20220120

### This release contains:

Type	File/Subcomponents	Label	File updated in this release
This document	-	-	Yes
HIFF file	ABC_EIP_SERM_7741_1_08_01_HmsOtgw.hiff	7741_1.08.01	Yes
	SW	7741_2.06.01	No
	HDL	7741_2.03.01	No
	WEB	7741_2.07.01	No
	FWLoaderDS	7044_1.19.01	No
EDS file	005A000C005D0100.eds	7741_1.01.01	No

### Package history:

Release	Update
First release	-



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### Reason for release:

Support of new hardware evolution

### Affected functionality

		Description
Affected functionality	<input type="checkbox"/> Network conformity <input type="checkbox"/> Web interface <input type="checkbox"/> Network interface <input type="checkbox"/> Security <input type="checkbox"/> Stability <input type="checkbox"/> Other	NA

### Field update recommendation

		Description
Field update recommendation	<input type="checkbox"/> Update required for conformance testing <input type="checkbox"/> Only devices in the field showing problems <input type="checkbox"/> All devices in the field	NA

### Compatibility:

#### Hardware

Firmware can be downloaded to Anybus Communicator hardware with serial and ethernet interfaces.

PCB	Compatible?	Hardware-ID (48 bits)
8519-1.1.1	Compatible	0x090003060000
8519-1.1.1	Compatible	0x090003060001

### Device description file (DDF)

EDS file for EtherNet/IP

EDS	Firmware	Description
005A000C005D0100.eds Version 1.02	1.00 and newer	EDS version 1.02 is compatible with firmware version 1.00 and newer.

### How to upgrade from previous versions:

It is very important that the following steps are performed in correct order, otherwise the module may be unusable and must be sent back to HMS for recover.

#### Firmware upgrade:

##### Via Web configuration interface.

1. Disconnect all cables to all networks interfaces except the configuration port of the gateway.



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2. Make sure the configuration port is connected to the same network as the device performing the firmware upgrade.
3. Start up gateway.
4. The default IP settings of the gateway is IP address: 192.168.0.10, Subnet mask: 255.255.255.0. If these values cannot be used in the setup or if the IP settings have changed and is unknown, then the HMS IPconfig tool can be used to change IP settings of the gateway. The tool is located on <https://anybus.com/>.
5. Open up a webbrowser and enter the IP address of the gateway.
6. Click on the "Maintenance" -> "Files & Firmware" and follow the instructions on the webpage.

### Known limitations:

Title	Description	Issue(s)
Config port network settings.	The DNS1, DNS2 and Hostname settings are not applied correctly when modified using HMS IPconfig. Recommended workaround is to not change these fields.	A7741B-442 A7741B-443
Config port DHCP.	The DHCP functionality on the config port may interfere with the EtherNet/IP IP settings. Recommended workaround is to issue static IP settings for the config port.	A7741B-446



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### Updated in version 1.08:

Title	Category	Description	Issue(s)
Package	Other change	Support for Hardware-Id 0x090003060001	A7741C-44

### Updated in version 1.07:

Title	Category	Description	Issue(s)
Package	Bug fix	Web cannot read EDS file.	A7741C-38

### Updated in version 1.06:

Title	Category	Description	Issue(s)
WEB	Bug fix	Incorrect gateway configuration version handling.	A7741A-1401
Embedded firmware	Bug fix	Fixed an issue that caused the device to identify itself incorrectly after a factory reset until the device was configured.	A7741B-561
Serial	New functionality	Added support for 7 data bits serial transmission	A8084-16
Serial	Bug fix	Produce only node is when not stopped always considered online in LiveList, webpages and in LED state evaluation.	A8084-17 A7741B-545
Serial	New functionality	It is now possible to set offline options on a transaction, continue or pause.	A8084-18
WEB	Improved functionality	Added error information to the serial log.	A7741A-1384
WEB	New functionality	Offline option can be configured for a transaction.	A7741A-1393
WEB	Bug fix	Fixed problem with buttons not showing on Error dialog in production environment.	A7741A-1394
WEB	Bug fix	Uses default config if config cannot be read (or is empty) when doing revert	A7741A-1395
WEB	Improved functionality	Added time stamp to the file names.	A7741A-620
WEB	New functionality	Added support for import of Anybus Communicator Classic configurations.	A7741A-848
WEB	Improved functionality	Changed so that on Apply there are no confirmations of IP, Station name and PROFIBUS address settings. On page load the IP-settings read from the API are not set to store if there is no link for the OT-network	A7741A-1365
WEB	Improved functionality	Indicate No link on home view when link is lost.	A7741A-1331
WEB	Bug fix	Fixed I/O-mapping reallocation when trigger/ack/nack is unmapped or changed.	A7741A-1272
WEB	Improved functionality	Improved the error message when updating firmware.	A7741A-1288
WEB	Bug fix	Fixed I/O mapping reallocation when trigger/ack/nack is unmapped or changed.	A7741A-1303



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Title	Category	Description	Issue(s)
WEB	Improved functionality	Added a tooltip explaining the namur icon for the nodes for the home overview.	A7741A-1305
WEB	Bug fix	The selected table index is also updated if a trigger, acknowledgement or negative acknowledgement is selected, not only if a data or variable data entry is selected in the I/O mapping tables.	A7741A-1317
WEB	Bug fix	Corrected so that data-fields reading from the General area does not have any swapping option.	A7741A-1319
WEB	New functionality	Added support for brand labeling of the GUI. Any file can be replaced but only CSS, images, logotype and support information is fully supported.	A7741A-1338
WEB	Improved functionality	Updated indicating of the error message on home page	A7741A-1339
WEB	Improved functionality	Added a second row on each node on the Nodes and transaction page with the total number of bytes to and from the serial network.	A7741A-1340
WEB	New functionality	Added export/import of a node to/from file.	A7741A-1341
WEB	New functionality	Now it is possible to import/export transaction templates.	A7741A-1342
WEB	Bug fix	When creating a custom template based on one of those Modbus commands, these frame objects are now changed in the new template to become mappable, allowing the user of the template to map them if so desired	A7741A-1347
WEB	Improved functionality	Set RS484 as serial protocol if an Anybus Communicator Classic configuration with RS422 is imported.	A7741A-1349
WEB	Bug fix	Fixed problem when Importing Master mode Communicator Classic config when Custom Produce/Consume is used.	A7741A-1350
WEB	Other change	Increased width of node-status container on the Home-screen	A7741A-1355
WEB	Bug fix	"No scanning" is no longer a valid option for frame objects in the general area.	A7741A-1374
WEB	Bug fix	Corrected so that the IP-address/station name and/or PROFIBUS address can be set after the configuration file is written.	A7741A-1379
WEB	Bug fix	Changed so that the minimum update time is 3ms for Modbus as well.	A7741A-1381

### Updated in version 1.05:

Title	Category	Description	Issue(s)
WEB	Improved functionality	Corrected so that the turnaround delay can be set to 0 (can be disabled).	A7741A-1312
HDL	Bug fix	Corrected issue with RS-232 full duplex.	A7741D-2



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### Updated in version 1.04:

Title	Category	Description	Issue(s)
Gateway core	Bug fix	Process data is cleared after a reconfig	A7741B-518
Gateway core	New functionality	Added support for unlocked article	A7741B-532 A8084-13 A8082-2
EtherNet/IP	Bug fix	Clear functionality works even if all nodes are offline	A8079-9
EtherNet/IP	New functionality	Support of CIP identity object version 2	A8079-22
Serial	New functionality	Added ADD and XOR checksums. Added one's and two's complement on all checksums type.	A8084-14
Serial	New functionality	Update mode "Single shot".	A8084-10
Serial	New functionality	Added support for General Data area.	A8084-11
HDL	New functionality	Updated switch-mii component to solve issue with powerdown for 100MBit.	A9203-59
WEB	Improved functionality	Split-button right-side menu behavior in Firefox is the same as in Chrome.	A7741A-1169
WEB	Bug fix	Added validation: address out of range detection in the general area	A7741A-1284
WEB	New functionality	Added tooltip for the Transaction template settings -> Transaction name.	A7741A-1289
WEB	Bug fix	The GUI will not allow downloading a transaction with a frame with no frame objects.	A7741A-1291
WEB	New functionality	Added possibility to configure the Inter-telegram and inter-character delay as advanced options for the serial network settings.	A7741A-451
WEB	New functionality	Added possibility to configure a broadcast node.	A7741A-452
WEB	Improved functionality	Updated favorite icons/bookmarks icons. Added Apple Touch icons.	A7741A-625
WEB	New functionality	I/O data can be mapped to the general area.	A7741A-755
WEB	New functionality	Added support for Trigger byte, Acknowledge and Negative acknowledge.	A7741A-756
WEB	New functionality	Added support for data exchange control.	A7741A-757
WEB	New functionality	Added generic command edit item.	A7741A-822
WEB	New functionality	Added handling of the command templates, left side.	A7741A-825
WEB	New functionality	Updated table to support generic mode.	A7741A-843
WEB	New functionality	Added support for offline options (clear/freeze) to the transactions	A7741A-1078



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Title	Category	Description	Issue(s)
WEB	New functionality	Data exchange control and Live list are respected when adding frame objects.	A7741A-1217
WEB	New functionality	The store and the JSON HIFF format supports template transactions.	A7741A-824
WEB	New functionality	Added live list to the I/O data map.	A7741A-992
WEB	Improved functionality	Modbus field names are localized in out-of-range I/O mapping errors.	A7741A-1274
WEB	Improved functionality	Translates data frame object when added from custom commands.	A7741A-994
WEB	Improved functionality	If there is no configuration in the gateway it will be considered as a default configuration and the apply button will not be enabled until a change is done.	A7741A-771
WEB	Improved functionality	Themes are replacing hard-coded colors.	A7741A-790
WEB	Improved functionality	Added dropdown for selection of serial protocol in the communication settings page.	A7741A-823
WEB	Improved functionality	Improved error message when trying to apply a too large I/O map.	A7741A-1094
WEB	Improved functionality	Navigates back to root if the item of a route does not exist in store.	A7741A-1100
WEB	Improved functionality	Widen the error dialog and made it scrollable.	A7741A-1117
WEB	Bug fix	Corrected inconsistency of the apply button when the page is refreshed.	A7741A-866
WEB	Bug fix	Add command template doesn't trigger changes in undo-support.	A7741A-886
WEB	Bug fix	It's no longer possible to bypass value validation in frame object settings component.	A7741A-924
WEB	Bug fix	Not possible to go to edit commands page when in Modbus RTU mode.	A7741A-925
WEB	Bug fix	Renamed "Modbus-TCP" to "Modbus TCP".	A7741A-955
WEB	Bug fix	Removing current custom command no longer throws error.	A7741A-980
WEB	Bug fix	There is not always a question if you want to download IP Settings at Apply if DHCP is enabled.	A7741A-981
WEB	Bug fix	Resolved problem when changing the command of an inactive transaction.	A7741A-1057
WEB	Bug fix	Removed faulty added metaProperties to the real transaction when using a custom command	A7741A-1060
WEB	Bug fix	Switching between two frame objects correctly updates hex values in the sidebar.	A7741A-1061
WEB	Bug fix	Corrected so that the data is mapped when changing a Modbus command.	A7741A-1063
WEB	Bug fix	Fixed bug where refresh of page resets subnet config.	A7741A-1065
WEB	Bug fix	Fixed problem where the apply-button sometimes was enabled after apply	A7741A-1066
WEB	Bug fix	Fixed bug when optimizing the I/O map. Conflicts are now correctly handled.	A7741A-1081
WEB	Bug fix	Corrected link for the support page.	A7741A-1156



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Title	Category	Description	Issue(s)
WEB	Bug fix	Fixed issue when items moved in the I/O map jumps back before moving to their new position	A7741A-1170
WEB	Bug fix	Corrected endianness table validation.	A7741A-1225
WEB	Bug fix	Fixed bug when moving fields between Response/Request in a template that is connected to a Broadcast node.	A7741A-1227
WEB	Bug fix	Corrected: Configuration can be applied without yielding triggerByteAddress/ackAddress/nackAddress errors.	A7741A-1277
WEB	Bug fix	Corrected: Modbus mode, default triggerByteAddress is as default not allocated.	A7741A-1278
Web server	Bug fix	Fixed issue that could crash web server if CGI processing takes more than 3 minutes.	A8024-74
Web server	Bug fix	Fixed issue for security modules which could dead lock the web server.	A8024-73
Non volatile storage	Bug fix	Some non-volatile parameters did not reset correctly upon factory-default reset.	A8015-34
TCP/IP	Improved functionality	Don't send packets on interfaces that are down.	A8074-33
TCP/IP	Bug fix	Fixed bug causing the "remembered address" DHCP request to have 0 as xid value.	A8074-37
TCP/IP	Bug fix	Reduced number of TCP retransmissions to get faster connection timeout of faulty connections.	A8074-39
TCP/IP	Bug fix	A new DHCP xid is now generated after link re-connect and for DHCP release packets.	A8074-46
TCP/IP	Bug fix	Fixed a bug which made the device unreachable if ACD and DHCP were disabled.	A8074-51

### Updated in version 1.03:

Title	Category	Description	Issue(s)
WEB	Improved functionality	Changed update time to support down to 3ms instead of 10ms.	A7741A-1127, A8084-7
SW	Improved functionality	EIP Class 3 connection can act as controlling connection.	A7741C-14, A8079-18
SW	Bug fix	Fixed stability issues in the webserver	A7741C-485
SW	Improved functionality	Web interface is now more reliably available on the configuration port if both the configuration port and industrial Ethernet network is connected to the same subnet.	A7741B-487, A8074-44
SW	Bug fix	Fixed issue that no DHCP discover was sent after lease time had expired	A8074-42
SW	Bug fix	Connection path miss match between Forward Open and forward close returns incorrect extended status code.	A8021-165
SW	Bug fix	Reading output assembly explicitly now returns all zeros. Previously written data not available via assembly instance attribute 3.	A8079-10



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Title	Category	Description	Issue(s)
SW	Bug fix	Fixed a problem where invalid parity/stopbits were accepted	A8084-3
SW	Bug fix	Under some circumstances, an unmapped Data object in a received serial frame (response) would not be accepted as a correct transaction.	A8084-6

### Updated in version 1.02:

Title	Category	Description	Issue(s)
WEB	Improved functionality	The serial log rows are colored to indicate direction.	A7741A-705
WEB	Improved functionality	The nodes in the "Nodes & commands" list and in the home page status overview are sorted by their addresses.	A7741A-727
WEB	Bug fix	Fixed error when duplicating transactions that cannot be fully mapped.	A7741A-875
WEB	Improved functionality	Updated so that different frame objects can be distinguished in the I/O Map,	A7741A-642
SW	Other change	First release with the serial component as a CO	

### Updated in version 1.01:

Title	Category	Description	Issue(s)
Configurable byte swap	New functionality	Different byte orders on the two networks can be interfaced by configuring the gateway to swap bytes.	A7741B-465, A7741A-754
Serial log on Firefox	Bug fix	Multiple tokens can now be placed in the "Connection" header, solves issue when setting up a websocket connection. This enables serial log functionality with the Firefox web browser.	A8024-72
Improved event log	Improved functionality	Added export functionality to the event log.	A7741A-310
Cable cut off logging	Bug fix	Corrected so that serial log shows an error message if the Ethernet cable is cut off.	A7741A-743
Error message	Bug fix	Fixed error message for duplicated node address.	A7741A-804
Multiple serial log	Bug fix	Corrected so that the retry sequence is started when more than one instance is opened towards the serial log.	A7741A-805
Improved UI respons	Improved functionality	Removed feedback spinner completion for Node delete/duplicate and Transaction delete/duplicate	A7741A-807



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### Updated in version 1.00:

Title	Category	Description	Issue(s)
English translation	Improved functionality	The English translation is always available without reading a language file asynchronously.	A7741A-415
Modbus commands table	Improved functionality	Updated Modbus commands table with a few fixed width columns, and changed order of the address and quantity.	A7741A-532
Extended validation	Improved functionality	Extended validation to cover the complete template.	A7741A-552
Export spinner	Improved functionality	When exporting the serial log a loading spinner is shown.	A7741A-604
Limited log size	Improved functionality	Limited the size of the serial log to a maximum of 10 000 items.	A7741A-605
I/O map gaps	Improved functionality	Added support to remove gaps in the I/O map.	A7741A-613
I/O map compacting	Improved functionality	Added support for compacting the I/O data map. Will remove the "holes" and keep the structure.	A7741A-622
Outlined buttons	Improved functionality	Updated application to use outlined buttons for non colored buttons.	A7741A-626
Moved buttons	Improved functionality	Export button moved to the right side of the toolbar in Serial monitor. Clear button moved to left side of the toolbar in Event log.	A7741A-630
Trashcan icons	Improved functionality	Clear buttons on Serial monitor and Event log pages now both have trash can icon.	A7741A-631
Updated toggle buttons	Improved functionality	Updated appearance of the toggle buttons for data format and auto scroll in Serial monitor page.	A7741A-632
Support package button	Improved functionality	Increased the margin between the support package button and the description text under it.	A7741A-633
Terminology	Improved functionality	Changed to use the term Communicator instead of gateway/device where applicable.	A7741A-688
Recalculate I/O size	Bug fix	Command setting changes that decreases the required size (e.g. decreasing the quantity value some commands have) will cause a recalculation of the required I/O size.	A7741A-706
Tooltip	Improved functionality	Added a tooltip describing what the X button in the upper right corner of the side panels do.	A7741A-789
Coil quantity	Bug fix	Changed quantity of coils to allow up to 2000 coils instead of 125.	A7741A-707
Security switch error	Bug fix	If the configuration is applied and the security switch is set a specific error message is viewed.	A7741A-714
Corrected command	Bug fix	Corrected Write single register and Write multiple coils Modbus commands.	A7741A-715
Corrected command	Bug fix	Corrected the Mask write register Modbus command.	A7741A-716
Localized error message	Bug fix	Added localized error message. Added validation when the file is selected before it is imported.	A7741A-717
Apply button	Bug fix	Added tooltips for different situations. Apply button is disabled when EtherNet/IP is in state process active	A7741A-718
Duplicate node	Bug fix	Changed so that it is not possible to duplicate nodes when the maximum number of nodes has been reached.	A7741A-719



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Title	Category	Description	Issue(s)
Duplicate transaction	Bug fix	Fixed bug where duplicated transaction was faulty unmapped.	A7741A-720
Security switch LED	Improved functionality	Updated device image with a security switch LED.	A7741A-721
Visual alignment	Bug fix	Corrected the visual alignment for the address input field.	A7741A-722
Name fields	Bug fix	Corrected so that non 7-bit ascii characters can be used for name fields.	A7741A-723
Name fields	Bug fix	Zero length names will generate setting the default name.	A7741A-725
Disabled transactions	Bug fix	Corrected so that when disabling a transaction it is not part of the I/O map.	A7741A-726
Corrected command	Bug fix	Corrected range for Modbus commands in Modicon mode.	A7741A-728
ModbusAddressInput	Bug fix	Corrected ModbusAddressInput component so that when jumping between two different transactions the address is updated.	A7741A-730
Laptop screen	Bug fix	Updated so that two columns of the I/O data map will fit on a laptop screen. Changed so that tabs are used when page is too narrow to show both tables at the same time.	A7741A-734
Clear and Revert dialogs	Bug fix	Improved the dialog message for Clear and Revert.	A7741A-735
IP settings	Bug fix	IP settings for OT network is now updated after revert of configuration.	A7741A-737
7-bit data	Bug fix	Disabled support for 7-bit data since the hardware does not yet support it.	A7741A-738
Tooltips	Improved functionality	Added tooltips for severity icons in the event log.	A7741A-739
Serial log export	Bug fix	Generation of Excel file in serial monitor now works when using a cached version of the log.	A7741A-740
Serial log	Bug fix	The serial log is limited to at most 10000 messages to prevent it being hard to use when recording for a long time.	A7741A-742
Spinners	Bug fix	Added spinners when removing and copying nodes and commands.	A7741A-744
Loading performance	Bug fix	Increased performance when loading the Home-view with a large configuration. From 14 seconds to 2.5 seconds load-time.	A7741A-745
Spinners	Bug fix	Ensure spinner dialogs are closed even in case of errors.	A7741A-748
RxJs subscriptions	Bug fix	All RxJs subscriptions are now unsubscribed.	A7741A-749
Modbus address input	Bug fix	Fixed bug when initializing the Modbus address input component with a out of range value for the selected Modbus addressing mode.	A7741A-750
Single shot	Bug fix	Removed support for single shot in update modes since the hardware does not yet support it.	A7741A-759
Module reset	Bug fix	Disabled support for module reset since the hardware does not yet support it.	A7741A-761
Modbus address	Bug fix	Limited the Modbus address to a maximum value of 247.	A7741A-762



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Title	Category	Description	Issue(s)
Error messages	Bug fix	Improved error messages when applying the configuration after a duplication results in an invalid configuration.	A7741A-764
Debug section	Bug fix	Removed the Debug section from the left side navigation bar.	A7741A-770
Upload firmware error	Bug fix	Improved the error message if failing to upload a firmware file.	A7741A-775
Technical support	Bug fix	Updated description for the technical support.	A7741A-776
Serial monitor	Bug fix	Leaving the serial monitor page will no longer store too many log messages in the session storage. The user is asked to confirm the leave if leaving the page will cause log messages to be discarded.	A7741A-777
Serial log performance	Bug fix	Significantly improved performance when exporting large serial logs.	A7741A-778
Browser warnings	Bug fix	Rewrote the code to decrease the risk that the browser warns that the page is slowing down the browser when exporting large serial monitor logs.	A7741A-779
ReadWriteMultiple-Registers command	Bug fix	Clarified what directions were used for the address fields for the ReadWriteMultipleRegisters command.	A7741A-781
Serial log export	Improved functionality	Serial log can only be exported when the logging is paused.	A7741A-782
GwException and GwInvalidConfig order	Bug fix	Changed order of GwException and GwInvalidConfig to match the implementation of the gateway software.	A7741A-784
EDS-file	Improved functionality	Added description text for the EDS-file button in the support page.	A7741A-787
Spinners	Improved functionality	Added spinner on initial page load.	A7741A-788
Boolean type	Improved functionality	Added support for boolean type in the rules.	A7741A-791



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### Updated in version 0.04:

Title	Category	Description	Issue(s)
Number of frame objects	Improved functionality	The communicator now supports a total of 2000 frame objects on the serial network.	A7741B-439
Improved DHCP	Bug fix	If DHCP is enabled and an IP address configured the device is supposed to request that address from the DHCP server. This did not work as intended. Instead of requesting the address the device started using the address immediately while sending DHCP discover packets.	A8074-30
Connection re-establishment after cable removal	Bug fix	Fixed an issue where IP communication sometimes did not function properly after link re-establishment when both ACD and DHCP was used.	A8074-31
DHCP default on EIP	Improved functionality	EtherNet/IP will now receive its IP-settings using DHCP after a factory default reset.	A8079-2
Removed update mode "Change of state on trigger".	Bug fix	Removed the following Modbus commands since they are either incorrectly implemented, or cannot be properly verified. - Read Exception status - Diagnostic - Get Com event counter - Get Com Event Log - Report Slave ID - Read File record - Write File record - Read FIFO queue	A7741A-455
EDS file link	New functionality	The link to the EDS file is available in the "Files & firmware" and "EtherNet/IP" pages, in addition to the support page.	A7741A-592

*Bugs that are found in this software release should be reported back to HMS support department. Report product, software version, configuration, how to reproduce behaviour, and the effects of the bug.*