



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0107
20220610

This release contains:

Type	File/Subcomponents	Label	File updated in this release
This document	-	-	Yes
HIFF file	ABC_ETN_SERM_7741_1_07_02_HmsOtgw.hiff	7741_1.07.02	Yes
	SW	7741_2.10.01	Yes
	HDL	7741_3.03.01	Yes
	WEB	7741B_2.12.01	Yes
	FWLoaderDS	7044_1.20.01	No



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0107
20220610

Reason for release:

Bug fixes

Affected functionality

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

Field update recommendation

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

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

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.
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.



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0107
20220610

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 and DNS2 settings are not applied correctly when modified using HMS IPconfig. Recommended workaround is to not change these fields.	A7741B-443



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0107
20220610

Updated in version 1.07:

Title	Category	Description	Issue(s)
WEB	Bug fix	Updated support link.	A7741A-1455
Serial	Bug fix	Corrected issue with full-duplex in RS-232 mode.	A7741D-2
Platform	Bug fix	Hostname configured using IPconfig will now remain after a power-cycle.	A8091-10

Updated in version 1.06:

Title	Category	Description	Issue(s)
WEB	New functionality	Added OT monitor	A7741A-1447
WEB	New functionality	Timeout time for a node is possible to disable.	A7741A-1407
Serial	Improved functionality	De-assert the DE signal more accurately for RS485.	A7741D-3 A8084-20
Platform	Bug fix	The Hostname settings were not applied correctly when modified using HMS IPconfig.	A7741B-442
Platform	Bug fix	IP address could still be used for existing TCP connections while a new IP address was being requested from a DHCP server.	A8074-58
Platform	Bug fix	DHCP removed server id for INIT-REBOOT/RENEWING/REBINDING state.	A8074-56
Platform	Bug fix	Fixed problem that could cause the module to crash (FATAL) if web pages are constantly being refreshed.	A8024-78
MODBUS-TCP	Bug fix	Fixed an issue where sending MODBUS TCP messages to the gateway during a reconfiguration could make the reconfiguration to fail.	A8082-5
Serial	Bug fix	Fixed a startup failure when RS485 lines A and B were swapped.	A8084-19
WEB	Bug fix	Arrow (->) in endian swaps not shown correctly in Safari/Apple.	A7741A-1419
WEB	Bug fix	Corrected incorrect width of the Event log page.	A7741A-1420
WEB	Bug fix	Removed I/O size for serial network on the Home view.	A7741A-1433
WEB	Bug fix	Changed so that branding colors are read from branding css-file.	A7741A-1434
WEB	Bug fix	Added bundling of Roboto font.	A7741A-1435
WEB	Bug fix	The serial log column for errors is consistently titled "Errors".	A7741A-7399
WEB	Bug fix	Added translation for min/max I/O size error.	A7741A-1402

Updated in version 1.05:

Title	Category	Description	Issue(s)
Firmware package	New functionality	Support for Hardware-Id 0x090003060001	A7741F-2



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0107
20220610

Updated in version 1.04:

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
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



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0107
20220610

Title	Category	Description	Issue(s)
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 1.03:

Title	Category	Description	Issue(s)
HDL	Bug fix	Corrected issue with RS-232 mode.	A7741D-2
Embedded firmware	Improved functionality	Process data is cleared after a reconfig	A7741B-518
Embedded firmware	Improved functionality	Added support for unlocked article	A7741A-727
MODBUS-TCP	New functionality	Add support to run on common hardware	A8082-2
Serial	Bug fix	Fetching node status with CGI causes fatal if node is stopped	A8084-12
Serial	New functionality	Added support for unlocked article	A8084-13
Serial	New functionality	Added ADD and XOR checksums. Added one's and two's complement on all checksums type.	A8084-14
WEB	Bug fix	Corrected so that the turnaround delay can be set to 0 (can be disabled).	A7741A-1312
WEB	New functionality	Added support for common Ethernet	A7741A-1249
WEB	Bug fix	Dragging Ack, Nack or Trigger byte entry from the unmapped area up to the mapped area no longer causes an error	A7741A-1309
WEB	Bug fix	Corrected so that when performing Revert when using Custom Produce/Consume-mode no error message is thrown.	A7741A-1313



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0107
20220610

Title	Category	Description	Issue(s)
WEB	Bug fix	Dropzone selection for fields now shows bottom border.	A7741A-1308
WEB	Bug fix	Split-button right-side menu behavior in Firefox is the same as in Chrome.	A7741A-1169
WEB	Bug fix	Corrected the invalid reference for the right side panel start address input error message.	A7741A-1281
WEB	Bug fix	Added validation: address out of range detection in the general area	A7741A-1284
WEB	Bug fix	Added tooltip for the Transaction template settings -> Transaction name.	A7741A-1289
WEB	Bug fix	Added missing tooltip for Transaction type.	A7741A-1290
WEB	Bug fix	The GUI will not allow downloading a transaction with a frame with no frame objects.	A7741A-1291
WEB	Bug fix	Corrected problem where constant Array of bytes gives Invalid number in HIFF error on Apply.	A7741A-1292
WEB	Bug fix	Changed so that on the overview the broadcast node has got no status information since its status is not known.	A7741A-1293
WEB	Bug fix	Unmapping Trigger/Ack/Nack will move the item to the correct input/output table. Unmapped items can be selected.	A7741A-1294
WEB	Bug fix	Corrected so that when using Modbus transactions as templates it is not possible to configure the Node address on the transaction,	A7741A-1295
WEB	Bug fix	The broadcast node now has an antenna icon on the overview page	A7741A-1297
WEB	Bug fix	Now it is possible to add a broadcast node even if the maximum number of nodes have been added.	A7741A-1304

Updated in version 1.02:

Title	Category	Description	Issue(s)
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



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0107
20220610

Title	Category	Description	Issue(s)
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
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	Changed update time to support down to 3ms instead of 10ms.	A7741A-1127
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



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0107
20220610

Title	Category	Description	Issue(s)
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
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
Modbus TCP	Bug fix	Stack now returns an exception if the ADPU in the request is bigger than 260 bytes.	A8057-18
Modbus TCP	Bug fix	Fixed sporadic crashes when running Modbus	A8057-16
Modbus TCP	Bug fix	All Modbus responses should now be sent correctly if multiple Modbus request is received in the same TCP packet.	A8057-13
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	Fixed issue that no DHCP discover was sent after lease time had expired	A8074-42
TCP/IP	Bug fix	Improved reliability of TCP connections (web server etc) when multiple network interfaces are connected to the same subnetwork.	A8074-44
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
Web server	Bug fix	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
Web server	Bug fix	Fixed stability issues in the webserver	A7741B-485



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0107
20220610

Updated in version 1.01:

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	Improved functionality	Fixed performance issues by allowing bulk changes to the store.	A7741A-867
WEB	Bug fix	Fixed error when duplicating transactions that cannot be fully mapped.	A7741A-875
WEB	Bug fix	Changed so that a Modbus-TCP configuration can be applied regardless of the network state.	A7741A-902

Updated in version 1.00:

Title	Category	Description	Issue(s)
-------	----------	-------------	----------

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.