



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0104
20211012

This release contains:

| Type | File/Subcomponents | Label | File updated in this release |
|---------------|--|--------------|------------------------------|
| This document | - | - | Yes |
| HIFF file | ABC_ETN_SERM_7741_1_04_02_HmsOtgw.hiff | 7741_1.04.02 | Yes |
| | SW | 7741_2.06.01 | Yes |
| | HDL | 7741_2.03.01 | No |
| | WEB | 7741_2.07.01 | Yes |
| | FWLoaderDS | 7044_1.19.01 | No |

Package history:

| Release | Update |
|---------------|--------|
| First release | - |



Reason for release:

Fixed bugs and added new features

Affected functionality

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

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 | This release corrects several network conformity issues, such as identification of the device |

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 |

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.
6. Click on the "Maintenance"->"Files & Firmware" and follow the instructions on the webpage.



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0104
20211012

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 EterNet/IP IP settings. Recommended workaround is to issue static IP settings for the config port. | A7741B-446 |



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0104
20211012

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 |
| WEB | New functionality | Added export/import of a node to/from file. | A7741A-1341 |



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0104
20211012

| Title | Category | Description | Issue(s) |
|-------|------------------------|--|-------------|
| 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 |
| WEB | Bug fix | Dropzone selection for fields now shows bottom border. | A7741A-1308 |



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0104
20211012

| Title | Category | Description | Issue(s) |
|-------|----------|--|-------------|
| 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 |
| WEB | New functionality | Added generic command edit item. | A7741A-822 |



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0104
20211012

| Title | Category | Description | Issue(s) |
|-------|------------------------|---|-------------|
| 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 |
| WEB | Bug fix | Corrected so that the data is mapped when changing a Modbus command. | A7741A-1063 |



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0104
20211012

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

Updated in version 1.01:

| Title | Category | Description | Issue(s) |
|-------|------------------------|--|------------|
| WEB | Improved functionality | The serial log rows are colored to indicate direction. | A7741A-705 |



Release Information

Anybus Communicator

7741 - Anybus Communicator
Application
Version 1.0104
20211012

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