



RELEASE INFORMATION

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| Project name | | Project No |
| ABS-ABS Gateway C-Based | | 7066 |
| Software | Software version | Release date |
| Application | Version 3.19 Build 01 | 2012-03-15 |

Reason for release:

Fixed bug that prevented Profibus master configurations with larger IO size than 512 byte.

Supported hardware:

Firmware can be downloaded to Anybus X-gateway hardware with PCBs marked 1508.

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

1. Connect the Anybus X-gateway to the serial port using a standard RS232 null modem cable.
2. Start "Firmware download TP" program
3. Follow the instructions in the "Instruction" window to upgrade the software. When the question of target comes choose "Carrierboard". When the question of version comes up please choose the expected target hardware and software to be downloaded. The file that should be downloaded is the fwp file (Firmware Package) file.
4. A power cycle is required after the application has downloaded and the gateway self reboots.
5. If the download is successful a window indicating "Transfer OK" will be displayed

Known limitations/bugs:

- Firmware download of carrier board will require a power cycle after the application has downloaded to finish. *Internal ID: 0005019*
- Download new firmware to ABS modules can fail in rare occasions.
- In rare occasions it could be a problem connecting with the serial Transport Provider directly after an Ethernet Transport Provider has been disconnected. *Internal ID: 0003042*



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Application Code

Updated in version 3.19:

- Improved functionality
 - Allow master configurations with larger IO size than 512 byte. *Internal ID: 0006631.*
- Bug fixes
 - When cyclical reading Internal IO data with mailboxes module status occasionally returns all zero. *Internal ID: 0006628*

Updated in version 3.18:

- New functionality
 - Possible to configure UCMM Request Timeout via terminal interface. The configuration is only available for ABX with an ABM-EIP, with version greater or equal to 1.07, mounted in the “upper” position of the ABX.

Updated in version 3.17 Release D:

- Other changes
 - Web file system updated, new files for scan list configuration have been added.

Updated in version 3.17:

- Bug fixes
 - **Fixed problem with Modbus address mode settings** – Only Ethernet/IP module: It is possible to disable Modbus address mode when using Run/Idle header. This problem will cause that Schneider PLC's will not work with Anybus X-gateway. *Internal ID: 0003980*
 - **Fixed problem with Ethernet Transport Provider never times out** – Ethernet Transport Provider will timeout if the connection is lost and open for a new connection. The OPC-server uses Ethernet Transport Provider and can not reconnect after that connection was lost. *Internal ID: 0004049*
 - **Fixed problem with MAC selection mailbox** – Extended word needs to be set to '0'. ProfiNet modules uses the Extended word to select which port to use, this is done for all modules using this mailbox. *Internal ID: 0003909*
- Other changes
 - Version build incremented to 3.17.01.
 - Product version incremented to 3.17 Build 01



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Updated in version 3.16:

- New functionality

- Can work together with Anybus OPC server version 2.0.1

- Bug fixes

- **Fixed problem with Download to LonWorks** – It is possible to download a configuration to LonWorks to an ABX with LonWorks and EtherNet/IP module. *Internal ID: 0003267*
- **Fixed problem with Download new firmware** – It is not error free but failrate is much lower. *Internal ID: 0003486*
- **Fixed problem with Download new firmware to ABS module:** Needs Firmware Download TP version 2.9.1.1. *Internal ID: 0003497*
- **Fixed problem with ABS is not offline during configuration** – ABS modules will be offline during configuration and error state but not before reboot or fieldbus reset. *Internal ID: 0003487*
- **Fixed problem with Connect Anybus NetTool for DeviceNet** – It is possible to connect Anybus NetTool for DeviceNet via RS232 to an ABX with DeviceNet Master and EtherNet/IP. *Internal ID: 0003704.*
- **Fixed problem with Used Flash Segment field in file system** – If files will be created and deleted in rare occasions used flash segment fields will falsely indicate occupied. *Internal ID 3530.*
- **Fixed problem with Startup and initialisation sequence of ABS/ABM** – Avoid to overwrite AppInd handshake register. *Internal ID 3256.*

- Other changes

- Version build incremented to 3.16.06.
- Product version incremented to 3.16 Build 06



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Updated in version 3.15:

- New functionality

- Support of Anybus slave DeviceNet version 2.x based on NP30 processor
- Support of Ethernet IP and ControlNet Run/Idle header

- Bug fixes

- **Fixed problem with Download to LonWorks** – It is possible to download a configuration to LonWorks. *Internal ID: 003267*

- Other changes

- Version build incremented to 3.15.10.
- Product version incremented to 3.15 Build 10



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Updated in version 3.14:

- Bug fixes

- **Fixed problem with Production test** – Problem with hardware test command in JTK protocol. The reset is done in the same manner as before the redesign in 3.12.01. *Internal ID: 003269*

- Other changes

- Version build incremented to 3.14.01.
- Product version incremented to 3.14 Build 01



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Updated in version 3.13:

- New functionality

- **Added node offline options for Devicenet** – It is now possible to choose what action should be performed when a node is disconnected from the Devicenet master. The available options are: freeze or clear. *Internal ID: 0003012.*
- **Setup of PCP data in the terminal interface now included** -, Change the setup of the Interbus interface. It is now possible to set the buffer size of PCP data, it can be set to 0, 1, 2 or 4 words. The setting is made from Hyper Terminal interface. *Internal ID: 002536*

- Improved functionality

- **Modbus-RTU implementation Parameter data not applicable** - In Hyper terminal configuration “Input I/O data” is changed to “Input registers” and “Output I/O data” is changed to “Output registers”. *Internal ID: 002952*
- **Add a way to get back to main menu** - In Hyper terminal configuration it was possible to press ESC to get back to main menu and now it is explained in a text in both “Configuration upload/download and “Administration mode”. *Internal ID: 002663*

- Bug fixes

- **The mailbox file for EtherCAT contains invalid information** - The vendor identification and product name is changed to Product Code: 3D Product Name: Anybus X-gateway - Slave. *Internal ID: 002970*
- **Fixed problem with firmware download** - From version 3.11.01 and forward it was not possible to download a firmware package file with the firmware download TP program. The module ended up in a fatal state and had to be power cycled. This has now been corrected and it is now possible to download the software properly. *Internal ID: 3147.*
- **ASI-Master Analogue data not transferred correctly through the gateway** – It is now possible to read analogue data from the ASI Master module through the Anybus X-gateway. This problem was introduced when changing the mailbox handling inside the gateway in version 3.12. *Internal ID: 3148.*

- Other changes

- Version build incremented to 3.13.02.
- Product version incremented to 3.13 Build 02



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Updated in version 3.12.01:

- Version build incremented to 3.12.01
- Product version updated to 3.12 Build 01
- Bug #id 2928 resolved, correct Bootloader version is now displayed the previous version display same bootloader version for both modules
- DeviceNet Master can scan a network with 64 nodes. A design change is done that MbOutTask does not buffer mailboxes any more. All mailboxes must be acknowledged back to MbOutTask before the message is acknowledged to the Anybus-S module. This results in a different functionality when sending many messages through the gateway without waiting for a response the mailbox messages are now buffered in the Anybus-S module instead of the gateway.
- Reset must synchronise all task to be in a reset proof condition. Otherwise the read/write bits to DPRAM can be wrong under certain conditions. To achieve this some tasks must be event driven.
- Bug #id 2676, with changing implementation of mailbox registration is resolved for serial transport provider. Ethernet transport provider can not easily be changed because three queues are use and the one that mailbox router is default routing to is not the queue used for task events. The functionality is however correct and additional work will be performed later.



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Updated in version 3.11.04:

- Version build incremented to 3.11.04
- Product version updated to 3.11 Build 04
- Bug #id 2610 resolved, error counter is incremented occasionally in ABX-EMBS-PDPS.

Updated in version 3.11.03:

- Version build incremented to 3.11.03
- Product version updated to 3.11 Build 03.
- Bug #id 2608 resolved, if fieldbus specific file is used for a mailbox with zero data, the gateway will hang.
- Bug #id 2609 resolved, when downloading mailbox files with ymodem, transfer sometimes fails.

Updated in version 3.11.02:

- Version build incremented to 3.11.02
- Product version updated to 3.11 Build 02.
- Bug #id 2563 resolved, Download of configuration to Profibus master with NetTool Profibus sometimes fails.

Updated in version 3.11.01:

- Version build incremented to 3.11.01
- Product version updated to 3.11 Build 01.
- EtherCAT and ASI Master version 2 implemented.



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Updated in version 3.10.02:

- Version build incremented to 3.10.02
- Product version updated to 3.10 Build 02.
- Bug #id 2507 resolved, when control/status word is enabled for the upper module (Master), it is not possible to set operational mode.
- When CC-Link version 1.01 was mounted on gateway and PLC profile mode configured, the gateway went to FATAL mode, when the gateway was start-up.

Updated in version 3.10.01:

- Version build incremented to 3.10.01
- Product version updated to 3.10 Build 01.
- Bug #id 2481 resolved, Ethernet/IP renamed to EtherNet/IP
- Bug #id 2423 resolved, Terminology Profibus-DPV1 Master changed to PROFIBUS Master.
- Bug #id 2466 resolved, when using Devicenet master with control/statusword disabled the master sometimes does not go into operational mode.
- Bug #id 2471 resolved, ASI Master is set to incorrect "Nibble" mode, should be "Byte mode".
- Bug #id 2511 resolved, Update software with support for JTK function to exchange bootloader and erase serial number.
- Bug #id 2411 resolved, the gateway goes to fatal error state after downloading firmware to Devicenet slave.
- Bug #id 2410 resolved, overrun in JTK resolved and downloading firmware fail issues.
- Bug #id 2409 resolved, When using the JTK command "JTK_Reboot", the reply sometimes is not received before the gateway is rebooted.
- CC-Link version 2 functionality implemented.



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Updated in version 3.04.01:

- Version build incremented to 3.04.01
- Bug #id 2412 resolved, Bootloader updated to version 1.22
- Product version updated to 3.04 Build 01.



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Updated in version 3.03.02:

- Version build incremented to 3.03.02
- Bug #id 2387 resolved, CANopen fails to initiate after “invalid configuration”.
- Bug #id 2386 resolved, Data transfer sometimes fails from CANopen slave to Profibus DPV1 master mounted on X-gateway.
- Main menu text changed to X-gateway.

Updated in version 3.03.01:

- Version build incremented to 3.03.01
- Bug #id 2376 resolved, Text in ETH-TP should be changed.
- Bug #id 2313 resolved, when configuring invalid I/O size and rebooting the gateway, the user has to enter Admin mode to be able to delete the configuration.
- Bug #id 2316 resolved, UI (config port), brandname issues, AnyBus should be Anybus.
- Bug #id 2236 resolved, Main menu text error.
- Bug #id 2256 resolved, Problem with initialisation of Profibus DPV1 slave in combination with a master on gateway.
- Bug #id 2381 resolved, when a master module is mounted on the lower slot, errors should be reported.
- The JTK task is executed earlier, if a JTK frame is received.
- Parallel_Write command is implemented to handle mailbox “Firmware Download Close”.



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Updated in version 3.02.03:

- Version build incremented to 3.02.03
- Mailbox Set_Operational_mode for ASI was routed incorrectly this is fixed.

Updated in version 3.02.02:

- Version build incremented to 3.02.02
- The gateway led for respective module did not blink red when one of the modules was in boot mode, this is fixed.
- When the CC-Link mounted on gateway was in PLC profile mode, and control/status word enabled, the operation mode was not set for the upper module which was a master, this is fixed.
- If the other module mounted is offline at gateway start-up, the RXB is set to “Online”, this is fixed in this version.
- The parameter “Reboot Gateway when TP disconnect” is changed so that the gateway reboots when the TP has had an exclusive access to the gateway.
- When CC-Link was mounted on both upper and lower slot and both in PLC-profile mode, the serial TP did not get access, this is fixed.
- When the TP ETH was connected and a reconfiguration was done, a fatal error occurred, this is fixed.

Updated in version 3.02.01:

- Version build incremented to 3.02.01
- Serial and ETH transport provider implemented.
- CC-Link implemented.
- Password changed.



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Updated in version 3.01.08:

- Version build incremented to 3.01.08
- Problems were discovered when restarting the gateway from the terminal interface, the module mounted (Ethernet) was not found, no first interrupt was detected. This was due to an error in the routine UP_RegisterInit(), where the reset was released and then “dummy” read (interrupt) was done that could read the first interrupt that was supposed to be discovered later but never came.

Updated in version 3.01.07:

- Version build incremented to 3.01.07
- The IO length error fix was not correct.
- When the upper control/status word was enabled and not the lower, the status and control word was not updated, this is due to the status tasklet that only checked if the lower control/status word was enabled, then an action was taken.

Updated in version 3.01.06:

- Version build incremented to 3.01.06
- When the IO length for a master is 4 bytes and 20 bytes for the other modules mounted on the gateway, and the live list is enabled, the gateway should be initiated, but instead the gateway reports IO length error on the master mounted, this is fixed in this version.

Updated in version 3.01.05:

- Version build incremented to 3.01.05
- When Profibus Master mounted, the IO lengths were not correctly but into the mailbox file, to initiate the module resulting in no data transfer.
- Problem with fieldbus specific file, when no options are available in file.
- Problems with Ymodem transfer resolved, receiving bytes on the serial line is changed.

Updated in version 3.01.04:

- This build is the same as 3.01.03, label misplacement.

Updated in version 3.01.03:

- Version build incremented to 3.01.03
- When Profibus Master mounted, IO length errors were reported, when there were no errors, this due to FB_INIT, corrected in this version.
- When Profibus Master mounted, the new IO lengths retrieved with database info, was not written to config.cfg.



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Updated in 3.01.02:

- Version build incremented to 3.01.02
- Factory reset “out of box” handling is implemented.
- Reset from fieldbus is not handled with EVNT interrupt anymore, module status is read every 100 ms. Now when a Profibus master receives new database, the gateway is rebooted.
- If the mailbox file 0x02010005.dat did not exist the gateway hanged, this is fixed in this version.
- Upload of log.txt is fixed in this version.
- Mailbox Enable/Disable is implemented for mailbox specific file.
- The Profibus master database IO sizes are now saved correctly to file config.cfg.
- The default value in mailbox specific file is now correctly erased in configuration interface.
- When a mailbox specific file is not correct, the module hanged, now the module reports error.

Updated in 3.01.01:

- Version build incremented to 3.01.01
- Handling of fieldbus specific mailbox files implemented.
- IO handling changed.
- Memory mapping changed.
- Error and fatal log handling implemented.
- Administration mode in terminal interface is changed.
- Implementation for master done.
- Implementation for Ethernet done.



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Updated in version 3.00.02:

- Version build incremented to 3.00.02
- Password in Administration mode written as ***** on terminal.
- Menu alternative “9” changed to “A” administration mode.
- Product version implemented.
- “Yes”/”No” is written on display instead of “y”/”n”.
- The question “do you want the fieldbus to go offline” is only asked if the gateway is online.
- The text “password incorrect try again or enter ESC to exit” is changed to “password incorrect try again or press ESC to exit”.
- When entering new line in administration mode, the cursor moves down, this is corrected.
- When invalid command is entered in administration mode, a text is displayed that says that it is invalid command.
- Application version is on wrong position in config.cfg this is changed.
- Control/Status word was not displayed when invalid configuration, this is corrected.
- Wrong error message was displayed when one of the ABS modules were in boot mode.
- When entering empty string “” in configuration interface the cursor moved, this is corrected.
- When a fieldbus type was missing in type.txt the module hangs, this is corrected.
- When one of the modules on the gateway goes offline, and the online, the data is not sent through the gateway anymore, this is corrected.
- When setting max I/O or parameter size in configuration interface it failed, this is corrected.