



# Release Information

## RS3 BACnet MSTP option

7698 - RS3 BACnet MSTP option  
Application  
Version 1.03  
20181205

### This release contains:

| Type  | File/Subcomponents                              | Label              | File updated in this release |
|---|---|--------------------|------------------------------|
| This document   | -   | -                  | Yes                          |
| Option board firmware (intel hex file).<br>Checksum: 0x9EEC           | APP_RS3_BACNET_MSTP_V_1_03_02.hex               | 7698-APP_1.03.02   | Yes                          |
| Executable file containing firmware and boot code.                    | APP_RS3_BACNET_MSTP_V_1_03_02.exe               | 7698-APP_1.03.02   | Yes                          |
| Boot code (intel hex file)  | BOOT_RS3_BACNET_MSTP_V_1_01_01.hex              | 7698-BOOT_1.01.01  | No                           |
| Firmware loader (intel hex file)                                      | FL_RS3_BACNET_MSTP_V_1_01_01.hex                | 7698-FL_1.01.01    | No                           |
| EPICS file (Electronic Protocol Implementation Conformance Statement) | Schneider Electric ATV6xx BACnet MSTP EPICS.TPI | 7698-EPICS_1.03.02 | Yes                          |

### Package history:

| Release | Update          |
|---------|-----------------|
| -       | Initial release |



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### Reason for release:

The Device object instance number can now be set to values larger than 65535.

### Affected functionality

|                        |   | Description  |
|------------------------|---|--|
| Affected functionality | <input type="checkbox"/> Network conformity<br><input checked="" type="checkbox"/> Application interface<br><input checked="" type="checkbox"/> Network interface<br><input type="checkbox"/> IT-functionality<br><input type="checkbox"/> Security<br><input type="checkbox"/> Stability<br><input type="checkbox"/> Other | The Device object instance number can now be set to values larger than 65535.<br>Corrected drive parameter number for the RFR drive parameter. |

### Field update recommendation

|                             |   | Description   |
|-----------------------------|---|---|
| Field update recommendation | <input type="checkbox"/> Update required for conformance testing<br><input checked="" type="checkbox"/> Only devices in the field showing problems<br><input type="checkbox"/> All devices in the field | The Device object instance number can now be set to values larger than 65535. |

### Compatibility:

#### Hardware

The firmware can be downloaded to the CoolJet BACnet MSTP hardware marked 5A31-1.X.X

| PCB        | Compatible? | Hardware-ID (48 bits) |
|------------|-------------|-----------------------|
| 5A31-1.X.X | Compatible  | 0x060800990000        |
| 5A31-1.X.X | Compatible  | 0x060800990001        |

### How to upgrade from previous versions:

**Important!** Do not power cycle the option board during firmware upgrade since that will make the option board unusable and must be sent back to HMS for recovery.

#### Firmware upgrade using drive:

1. Mount the option board in an ATV6xx drive.
2. Connect a Schneider USB<->RS485 converter between the computer and the drive.
3. Run the firmware download executable APP\_RS3\_BACNET\_MSTP\_V\_X\_YY\_ZZ.exe, select the correct COM port and select what to upgrade.
4. Press "Flash" and wait for the process to complete. The option board is now upgraded and the drive can be power cycled.

#### Firmware upgrade using serial carrier board:

1. Mount the option board on a HMS serial carrierboard.

2. Short the pads on the option board according to the image below with e.g. a jumper to make the option board enter firmware download mode:



3. Apply power to the serial carrier board.
4. Run the firmware download executable APP\_RS3\_BACNET\_MSTP\_V\_X\_YY\_ZZ.exe, select the correct COM port and select what to upgrade.
5. Press “Flash” and wait for the process to complete. The option board is now upgraded and can be mounted in the drive again. Don’t forget to remove the jumper from the option board.

### Known limitations:

| Title | Description |
|-------|-------------|
|       |             |



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### Updated in version 1.03:

| Title                          | Category | Description   | Issue(s) |
|--------------------------------|----------|---|----------|
| Device object instance number. | Bug fix  | Corrected the calculation of the Device object instance number. The instance number is read from the INHP and INLP drive parameters. The value from INHP is multiplied by 1000 and the INLP value is added to this to get the device object instance number. The multiplication of INHP was done using a UINT16, causing overflow in the calculation which in turn caused the high word value to be ignored.<br><br>It is now possible to use Device object instance numbers > 65535. | A7698-77 |
| RFR drive parameter            | Bug fix  | Corrected parameter number used for the RFR drive parameter. The used parameter number is now 3202. The RFR parameter is used for the OUTPUT FREQ analog value object.  | A7698-78 |

*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.*

### Updated in version 1.02:

| Title              | Category | Description  | Issue(s) |
|--------------------|----------|--|----------|
| Device object name | Bug fix  | Writing an empty string as name for the Device object is now NAK:ed with error "property:value-out-of-range" | 19106    |

### Updated in version 1.01:

| Title           | Category          | Description  | Issue(s) |
|-----------------|-------------------|--|----------|
| Initial release | New functionality | This is the initial release for the ATV6xx BACnet MSTP option board. | -        |