



# RELEASE NOTES

Information to our customers and partners

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SYSTEM: AUTROPRIME INTERACTIVE FIRE DETECTION SYSTEM  
TOPIC: AUTROPRIME SOFTWARE VERSION 2.1.12

## AUTROPRIME SOFTWARE VERSION 2.1.12

### CONTENT

<b>INTRODUCTION</b> .....	<b>2</b>
COMPATIBLE AUTROCLIENT VERSION .....	2
<b>FIXES</b> .....	<b>2</b>
DATE AND TIME SETTING FOR AUTROGUARD UNITS .....	2
TEST PATTERN FOR ONBOARD OUTPUTS WITH FAD FUNCTION .....	2
<b>UPGRADE NOTES</b> .....	<b>3</b>
UPGRADE FROM SOFTWARE VERSIONS 2.1.0 – 2.1.9 TO 2.1.12 .....	3
UPGRADE FROM SOFTWARE VERSION 2.1.10 OR 2.1.11 TO 2.1.12 .....	3
UPGRADE FROM SOFTWARE VERSIONS 1.0.4 – 2.0.3 TO 2.1.12 .....	3
LOGGING OF SYSTEM DATA .....	4
COPY CONFIGURATION AND LOG DATA .....	4
<b>LIMITATIONS</b> .....	<b>5</b>
NUMBER OF V-430/AP UNITS ON A LOOP .....	5
CHANGE OF INSTALLED V-430 PROTECTOR HEAD TO DIFFERENT TYPE .....	5
<b>KNOWN PROBLEMS</b> .....	<b>5</b>
VERSION NUMBER OF THE UPGRADE FILE AUTROPRIME_2_1_R_B.AGZ WAS NOT ACCEPTED .....	5
AUTROGUARD/AP AND BN-303, BN-304, BN-305 MISSING UNITS .....	6
CORRECT THE PROBLEM WITH AUTROGUARD/AP AND BN-303, BN-304, BN-305 MISSING UNITS .....	7
CONNECTING TO AUTROMASTER .....	7
USB MEMORY STICKS ON AUTROPRIME SW 2.0.3 AND PREVIOUS VERSIONS .....	7
AUTROPRIME SOFTWARE UPGRADE ON 2.0.0 AND PREVIOUS VERSIONS .....	8
POLLUTION AND SMV DATA .....	8
SOUND PATTERNS .....	8

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# RELEASE NOTES

Information to our customers and partners

PAGE: 2 (8)

## Introduction

Software release 2.1.12 contains a bugfix for the support of AutoGuard/AP Multicriteria Protector with integrated carbon monoxide (CO) sensor.

If the AutoGuard Multicriteria Protector is unable to calculate the remaining lifetime of the CO sensor, it fails when running a SelfVerify test and sends a fault message stating that the CO sensor has a fault.

### Compatible AutoClient version

If you are working with AutoGuard V-430-S-CO (V-430 with integrated CO sensor) in Autoprime, you must use AutoClient 1.0.8 or later to change the system configuration.

Saving the configuration for AutoGuard V-430-S-CO with 1.0.7 or earlier will generate an incorrect Config.xml file that will be rejected when imported to Autoprime.

If your system does not have any AutoGuard V-430-S-CO installed, you can use AutoClient 1.0.7 to configure the system. However, we recommend using AutoClient 1.0.8.

## Fixes

### Date and time setting for AutoGuard units

Autoprime software version 2.1.11 did not send date/time information to the AutoGuard units. That caused all AutoGuard Multicriteria Protectors with integrated CO sensor to be regarded as “expired” after one hour runtime. In addition, Autoprime failed running the next SelfVerify tests on the protectors and showed a “SelfVerify timeout fault” for every AutoGuard Multicriteria Protector with integrated CO sensor.

Autoprime software version 2.1.12 sends date and time setting to all AutoGuard units on the loop. If the protector’s monitoring mechanism finds any fault related to the CO sensor, that fault message will be received by Autoprime and a “CO sensor fault” message will be displayed on the Autoprime panel.

### Test pattern for onboard outputs with FAD function

Autoprime software versions 2.1.10 and 2.1.11 had an incorrect test pattern for the onboard outputs with FAD function. The test pattern was “zero”, meaning that there would be no audible indication when the onboard FADs were set in test mode. This fault did not affect the loop sounders that activated test mode correctly.

Autoprime software version 2.1.12 is configured with a correct bit setting for test mode, which activates the onboard outputs with FAD function using one beep every eight seconds until test mode is turned off.



**AUTRONICA**

## RELEASE NOTES

Information to our customers and partners

PAGE: 3 (8)

# Upgrade notes

Before and after upgrading, we recommend logging data about your system:

1. Before starting the upgrade, follow the instructions in “Logging of system data”.
2. After the upgrade is completed, follow the instructions in “Copy configuration and log data”.

### Upgrade from software versions 2.1.0 – 2.1.9 to 2.1.12

When upgrading from any software version in the range 2.1.0 – 2.1.9.0, rename the file **AutroPrime\_2\_1\_12\_0.agz** to **AutroPrime\_2\_1\_9\_1.agz**. (See “Version number of the upgrade file AutroPrime\_2\_1\_R\_B.agz was not accepted” for an explanation.)

After the upgrade is completed, the software version of the running system will be 2.1.12.0.

1. Rename the file for software version 2.1.12.0 to **AutroPrime\_2\_1\_9\_1.agz**.
2. Copy the file **AutroPrime\_2\_1\_9\_1.agz** to your USB (copy to USB root, not into a folder).
3. Connect the USB stick to the BSA-200 main board.  
Shortly after, the USB with the new software version is detected, and the upgrade starts and completes automatically.

### Upgrade from software version 2.1.10 or 2.1.11 to 2.1.12

If your system is running software version 2.1.10 or 2.1.11, there is no need for renaming the upgrade file.

1. Copy the file **AutroPrime\_2\_1\_12\_0.agz** to your USB (copy to USB root, not into a folder).
2. Connect the USB stick to the BSA-200 main board.  
Shortly after, the USB with the new software version is detected, and the upgrade starts and completes automatically.

### Upgrade from software versions 1.0.4 – 2.0.3 to 2.1.12

When upgrading from a software version in the range 1.0.4 – 2.0.3, use a USB stick that is known to work well with these software versions. We also recommend to reformat the USB (use FAT32, standard allocation size). See “Bulletin 29-2015” regarding recommended USB sticks and formatting.

1. Rename the file for software version 2.1.12.0 to **AutroPrime\_2\_1\_9\_1.agz**.
2. Copy the following files to your USB (copy to USB root, not into a folder):  
**AutroPrime\_2\_1\_9\_1.agz**  
**bsa200\_boot.inf**
3. Reboot the system by pressing the HW Reset Switch **S1** in the lower left corner of the BSA-200 main board. <sup>1</sup>
4. After the system has started showing the System Topology, connect the USB to the BSA-200 main board.

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<sup>1</sup> If the system does not reboot when S1 is pressed, power off the system and then power on the system.

After some time (less than 30 seconds<sup>2</sup>), the USB with new software version is detected and the upgrade starts.

Shortly after, the operator panel display writes “PLEASE REMOVE USB STICK!”

5. **DO NOT REMOVE the USB STICK, but press the HW Reset Switch S1.**<sup>1</sup>
6. The system now continues programming the new software. The previous running configuration will be restored, and the system should start with the same operational state as before the upgrade was started.

**Important:**

If you want to upgrade another system running any software versions 1.0.4 – 2.0.3, make a new copy of **bsa200\_boot.inf** to your USB stick before continuing with step 2.

**Logging of system data**

Since software version 2.1.0, Autroprime supports logging to USB.

Create a folder named “AutroPrimeDebugLogs” (or “autroprimedebulogs”) on your USB root and connect the USB to the Autroprime.

The logging is started automatically.

When the USB stick is connected, a new folder with the current date and time is created, for example, USB-drive:\autroprimedebulogs\2024-03-18\_21-56-18\.

2 files are created:

- Apps.txt – trace output from the main processor running the application SW.
- LoopAA.txt – trace output with communication between the application SW and the Loop drivers (low level management of the loop units).

In case of problems, these log files can be used to find potential problems.

There is no need for any action on the panel before connecting or disconnecting the USB.

**Note:** Leave the USB stick in the panel a few minutes after something interesting happened before removing the stick.

**Copy configuration and log data**

When the system starts up with the new system software, the Config.xml file is automatically updated.

We always recommend to keep a copy of the updated configuration and log data.

Wait no less than 1 minute after the system has started, then enter the Service menu, “Export and Import” and run commands “Export Configuration” and “Export Log”.

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<sup>2</sup> With software versions 2.0.3 and earlier, the time spent for the system to detect the USB increases with the storage capacity of the USB. If the system does not detect your USB within 30 seconds, see the related notes in “Known problems”.

## Limitations

### Number of V-430/AP units on a loop

The number of V-430/AP units is limited to maximum 127 for each detection loop. If the protector head has additional functionality (Sounder and/or VAD), the number of units that can be installed will typically be in the range of 60-80 units on each detection loop, depending on the mix of the V-403\*/AP types and the loop driver current configuration. Refer to the data sheet **AutroGuard® V-100/AP base for Autroprime** for details.

### Change of installed V-430 protector head to different type

If a V-430 protector is to be changed to a new V-430 protector with differing functionality (Sounder and/or VAD) on a running system, this can only be done in one of the following ways:

1. Disable the loop, replace the protector head and enable the loop.  
This is the preferred way of doing physical changes on a detection loop.
2. Replace one single protector head only, without disabling the loop.

In both cases, the system will have fault messages stating that the old unit(s) is not responding and that a new loop unit has been found.

The new unit should be configured with name correct relation to DZ (the detector unit) and AZ (Fad/Vad unit)

Save the new configuration (remove the old unit when suggested by the system) and restart the system.

## Known problems

### Version number of the upgrade file **AutroPrime\_2\_1\_R\_B.agz** was not accepted

For all software versions before 2.1.10, the digit in the third position (R – release number) was limited to a single digit number (0 – 9).

The fourth position (B – build number) shall always be 0.

If the release number (R) had two digits, the running software (up to and including version 2.1.9) would not accept to start the upgrade process to, for example, **AutroPrime\_2\_1\_12\_0.agz**.

This limitation of the software upgrade was corrected in software version 2.1.10. See “Upgrade notes” for details.



## RELEASE NOTES

Information to our customers and partners

PAGE: 6 (8)

### **AutroGuard/AP and BN-303, BN-304, BN-305 missing units**

In some rare cases, AutroGuard/AP units with Sounder and/OR VAD and units of type BN-303, BN-304 and BN-305 could end up with incomplete configuration data, without any fault message.

The panel might appear to be in normal operation. The effect of the incomplete data is that the panel will ignore messages received from units with incomplete configuration data.

Since software version 2.1.9, incomplete configuration data for these units will be reported as a fault. The fault message includes three possible solutions to correct the problem:

- a. Clear configuration for the identified loop driver and restart the system.
- b. Alternatively, restore the system back to factory settings.
- c. Alternatively, follow special guidelines

#### General information for all options a, b, c

Autroprime continuously dumps trace information (see "Logging of system data").

In the USB folder `autroprimedebuglogs\` folder with `DateAndTime\`, the file **Apps.txt** might (in case this fault exists) contain text as shown in the example below.

Carriers with missing subunits: Loop=1 UnitType=V-430-S-VADW/AP UnitID=A1 UnitName=A1001 - Missing Detector

Carriers with missing subunits: Loop=1 UnitType=V-430-S-VADW/AP UnitID=A4 UnitName=A1002 - Missing Detector

Carriers with missing subunits: Loop=2 UnitType=BN-305/A UnitID=B1 UnitName=A2001 - Missing Point/Input/Output

#### Solution a and b

This will require that the configuration is being repaired/reconfigured for *all units on the loop* (solution 1) or the *complete system* (solution 2) with proper names relation to other groups/units for activation.

In either case, the previous configuration should be used as a template to see names and relations for rebuilding the configuration.

#### Solution c

See "Correct the problem with AutroGuard/AP and BN-303, BN-304, BN-305 missing units" for details. This approach is recommended if few units are affected by the problem and all of the units are physically available for temporary wiring modification.

Regardless of which solution is used to correct the problem, all affected units must be assigned new names, and the unit relation to other groups/units for activation must be re-established. Which solution is considered best depends on how many units are affected, and whether the affected units are easily available for physical access.



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## RELEASE NOTES

Information to our customers and partners

PAGE: 7 (8)

### **Correct the problem with AutoGuard/AP and BN-303, BN-304, BN-305 missing units**

The description given here refers to “solution c” in “AutoGuard/AP and BN-303, BN-304, BN-305 missing units”, and will be the same approach as given by AFS support, if contacted.

1. Disable to the loop that has reported a problem with missing units.
2. Make an electrical bypass of each unit identified, by disconnecting the minus wire from the unit base connector (in and out terminal) and then connect the minus wires to each other (to have no electrical wire break).  
We recommend that no more than 3 units are bypassed each time.
3. Enable the loop and wait until the loop driver status is “Normal operation”.
4. Save the configuration and confirm that the bypassed units shall be removed from the configuration.
5. Restart the system.
6. Once again, disable to the loop that reported a problem with the missing units.
7. Reconnect the minus wire to the unit base connector for all units that were bypassed in step 2.
8. Enable the loop and wait until the loop driver status is “Normal operation”.  
At this moment, the system has created a number of fault messages telling that new loop units have been detected.
9. Save the configuration, and for safety, make a backup configuration.
10. Start over again from step 1 if several units shall be handled.
11. Re-establish naming and relation to other groups/units for all units that have been involved in step 2 and 7.
12. Do a final save of the configuration and restart the panel with the new configuration.

### **Connecting to AutoMaster**

When configuring users and clients for remote connection to an AutoMaster, it has been reported occasional problems to establish the connection. In that case we recommend the following workaround:

1. Export configuration to a USB.
2. Remove file “autoserver.json” from the USB.
3. Restore factory settings on the panel.
4. Import configuration from the USB.
5. Restart system using the imported configuration.
6. Reestablish the users and clients from the panel menu.
7. Save configuration and restart the system.

### **USB memory sticks on Autoprime SW 2.0.3 and previous versions**

The system may sometimes fail to detect or access a USB memory stick when it is connected, in particular if the USB stick contains many files and folders. If such a problem occurs, the following actions should be taken:

1. USB stick not detected by the system.  
If no audible “beep” is given by the system shortly after the USB stick is connected, remove the USB stick and re-connect it.

If there is still no response from the system, do the following actions:

- a) Enter Service mode and run command "System Shutdown" and wait for System Fault.
  - b) Disconnect both power fuses F2 (mains power) and F1 (battery power).
  - c) The USB stick shall be connected to BSA-200.
  - d) Reconnect battery fuse F1 and then press the battery restart button S3.
  - e) When the system is beginning startup, reconnect mains power fuse F2.
2. System fails to read from or write to the USB stick.  
If the USB has been detected by the system, but the panel fails to read from or write to the USB, do step 3.
3. Reformat the USB stick (FAT32, standard allocation size) before re-connecting the USB to Autroprime.  
Ref. "Bulletin 29-2015" regarding recommended USB sticks and formatting.

### **Autroprime software upgrade on 2.0.0 and previous versions**

It has been observed that automatic SW upgrade may fail due to problems to detect or access the USB memory stick.

If the USB stick is not detected by the system, follow the description in the previous issue.

When the automatic upgrade has extracted all files from the USB stick, the operator is asked to "PLEASE REMOVE USB-STICK!". Sometimes the system does not recognize that the USB stick has been removed, and the operator must reboot the system by pressing the HW reset button S1 (located in the lower left corner of the BSA-200 main board), or by powering the system OFF and then power the system ON.

### **Pollution and SMV data**

If replacing a V-430 protector head (without disabling the loop) with a different V-430 variant (with or without Sounder or VAD), the panel will not have any pollution or SMV (Smoke Measurement Value) for the new protector head. If an AutroMaster is connected, it will no longer receive SMV updates for this unit.

To avoid this problem, we recommend that the loop is disabled before replacing any V-430 protector head.

### **Sound patterns**

If the system is restarted with an imported configuration or a backup configuration, all sound patterns in use should be confirmed. This is because any changes in the sound pattern in the configuration (imported or backup) will NOT update the loop sounders with the changed patterns.

For all sound patterns that are used, enter each one and accept the values, or alternatively change the patterns. If patterns were accepted (without any changes) it will not be necessary to save the panel configuration or to restart the system.

It is recommended to always do a test of sound patterns, especially evacuate, after starting the panel with an imported or backup configuration.