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Technical Information	Date:	21.12.2023
	Official:	Marier
	Department:	BT-FS/MKP3

Tech. Information No.	2562 / 2023
Subject:	New AVENAR panel firmware 4.4.0,
	New FPA + AVENAR panel firmware 3.5.2 and
	FSP-5000-RPS 5.11.12

Short Description:	New active telemetry of AVENAR detector 4000 for Remote Services (FSA+). Flame detector FMX5000 IR available as conventional detector type

Hardware	☐	☐ Device	☐ Module	☐ PCBA
Software	☒	☒ Application	☐ Driver / Extension	☒ Firmware

Affected Products (details)	CTN	SAP no.	Aff. version	New version
FPA-5000 & FPA-1200 Main Panel Controller	MPC-xxxx-C MPC-xxxx-B FPA-1200-MPC-C FPA-1200-MPC	all languages	3.5.1	3.5.2
AVENAR panel 2000 Panel controller	FPE-2000-SPC	F.01U.327.091	3.5.1 4.3.0	3.5.2 4.4.0
	FPE-2000-PPC	F.01U.352.443	3.5.1 4.3.0	3.5.2 4.4.0
AVENAR panel 8000 Panel controller	FPE-8000-SPC	F.01U.327.090	3.5.1 4.3.0	3.5.2 4.4.0
	FPE-8000-PPC	F.01U.352.441	3.5.1 4.3.0	3.5.2 4.4.0
Remote Keypad	FMR-5000 FMR-5000-C	all languages	3.5.1	3.5.2
AVENAR keypad 8000	FPE-8000-FMR	F.01U.327.092	3.5.1 4.3.0	3.5.2 4.4.0
Remote Programming SW	FSP-5000-RPS	F.01U.005.615	5.10.18	5.11.12
FPA-5000-OPC Server	FPA-5000-OPC		2.0.21	2.0.23
FPA-5000-FSI SDK	FSM-5000-FSI		2.0.21	2.0.23

Number of delivered devices	
Period of delivery	from: / to:
Affected serial numbers	from: / to:

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Priority Level		Criterion
I	☐	The change has to be made **immediately** (see dates below)
II	☐	The change has to be made during the next inspection.
III	☒	Change has to be made, if the error pattern recurs and with new installations.
None	☐	General Information (like new tool, new feature, new SW release)

Action Plan	
☒	Inform customers
☐	Arrange re-work of stock (CSO)
☐	Arrange re-work of stock (customer)
☐	Arrange re-work of installed products
☐	See detailed actions on following pages

Start Date		Completion Date	

New Features:

New features panel firmware:

Firmware version: 4.4.0
- Transmission of active AVENAR detector 4000 telemetry to the cloud for future in-operation and down-time monitoring with Remote Services (FSA+).

Firmware versions 3.5.2 and 4.4.0
- Tested compatibility with IFAM system 4000 V01.03.06.00

New features FSP-5000-RPS:

- Introduction of panel account version 4.4 with panel networking exclusively for AVENAR panel 8000, AVENAR panel 2000 and AVENAR keypad 8000
- Support of panel FW 3.5.2 for panel account version 3.5 for panel networking mixed FPA-5000 and/or FMR-5000 with AVENAR panel 2000, AVENAR panel 8000 and/or AVENAR keypad 8000
- Flame detector FMX5000 IR available as conventional detector type for FLM-420/4-CON-S/D
- FAP-425-DOTCO-R usage type "Multi-criterion"
  In case of selecting multi-criterion, it is possible for the user to distinguish which sensor (optical/thermal) detected the fire first.
- RPS online help update of page "Group", "FLM-420-RLE-S" and "VdS" with
  Notice! According to VdS 2540 it is not allowed to configure any delays for groups which are used to trigger the activation of an output G.
- Consistency check level "hint" introduced, which can be checked/unchecked in the options menu (by default unchecked)
  First "hint" in consistency check added when default rights management has been manually changed. Rights management can be set back to default by right clicking "rights management" and click "reset to default"
- Export/Import LSN loops supports FAP-425-DOTCO-R

Removed features:

- FRAY-ONE-EN configurable in FSP-5000-RPS for Extended Line Monitoring with FLM-420-4/CON or CZM 0004 A
- Unused icons Safety Systems Overview
- ENO transmission device 12V option from account version 4.4 onwards incl. device types BGÜ 20, BGÜ 40, BGÜ 40/30, Bosch BGÜ From G and H, MDL-F, TUS 35 Sender, UE-F-D/T, TF2F (old) and TF2F
- Panel countries Australia, Canada and United States of America
- FLM-420-O8I2-S "Auto numbering" for outputs option (TSEMEA-21479)
- "Generate trouble-shooting information . . ." option under Help -> Information - Installed tools.
  This option is redundant due to the logs option under Help -> About Remote Programming Software

Known issues:

- When having FPA-5000 connected with remote services, please use FPA panel FW version 3.5.0.
- RPS: When having an AVENAR panel configuration, it might happen that no consistency check warning is shown when e.g., a function key has address 1 and an input 1/1 (TSEMEA-20331). Please manually make sure the function keys have a unique address compared with inputs.
- To deactivate the detection by the LSN 0300 A or LSN 1500 A of short circuits between LSN & AUX wires on a LSN bus follow these steps:
  1) Uncheck the feature 'Detect 4-W Short' in the RPS configuration of the concerned LSN bus.
  2) Download the configuration to the panel and wait for the panel to reboot automatically.
  3) When the panel is up and running, remove the corresponding LSN module and place it back.
  An information notice will be displayed when unselecting 'Detect 4W-Short' in RPS. The RPS online help pages for "LSN 0300 A" and "LSN 1500 A" are updated with this procedure.
  Remark: After the download of the configuration and the automatic reboot of the panel the feature will remain active until the LSN module is removed.

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Important information:
- Especially when the panel is connected to an Ethernet interface or network, it is advised to always use the latest firmware version with safety and security improvements to close any security breaches. - Account version 3.5 should be used when having FPA with FMR only (stand-alone) or FPA/FMR with AVENAR panel and/or AVENAR keypad in a network. When using AVENAR only (stand-alone or in a network), please use account version 4.4.0 or higher

Solved issues:
Correction and Technical Improvements panel FW: Firmware versions 3.5.2 and 4.4.0 - Fixed: System Fault LED was not illuminated yellow after Watchdog restart (VdS requirement)

Solved issues:
Correction and Technical Improvements FSP-5000-RPS: - Fixed: Auto correction when having alarm verification with a manual call point only removes the alarm verification and not day mode. - Fixed: State-dependent rule which has "Steady delayed by" or "Active for" can't be copied and pasted (TSEMEA-21136) - Fixed: Safety Systems Overview error "Error searching for adaptor No item found" when configuration isn't saved before - Fixed: Safety Systems Overview graphical network overview has multiple lines that overlap - Fixed: In some cases when having extended line monitoring for the CZM an error occurred - Fixed: Error message when replacing NBK with FAS-420. Error occurs only when the NBK monitored line has the "reset action" output selected (TSEMEA-20942) - Fixed: Several issues when creating information for BIS [MPP file] (TSEMEA-21172) Consistency check added in case maximum label length is exceeded. Consistency check added for missing strobe/sounder on FNX-425U (TSEMEA-21848) - Fixed: Newly NZM 0002 A and FLM-420-NAC added field entries ("No. of Devices" and "Notification device") lead to error when creating information for BIS [MPP file] (TSEMEA-22015) - Fixed: Transmission device assignments deleted after closing configuration (TSEMEA-22082) - Fixed: ENO resistance value must be in range of 200-1000 Ohm according to DIN 14675-1. This was 100-1000 Ohm. Consistency check added in case existing configurations have a value between 100-199 Ohm - Corrected: "memory check" option as activating element type (compound state) when having an account version 3.1 or above. The option is now greyed out (TSEMEA-21233) - UI improvement: BCM 0000 A main power label doesn't show first letter fully - UI improvement: Readme Safety Systems Overview - UI improvement: Copyright 2003-2005 updated to Copyright 2003-2023

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Notes:

- FPA1200, FPA5000, AVENAR panel 8000/2000 firmware V3.5.2 is compatible with OPC server 2.0.23

- FPA1200, FPA5000, AVENAR panel 8000/2000 firmware V3.5.2 is compatible with FSI-lib 2.0.23

- FPA1200, FPA5000, AVENAR panel 8000/2000 firmware V3.5.2 is compatible with FAT2002 V4.24.12.79

- FPA1200, FPA5000, AVENAR panel 8000/2000 firmware V3.5.2 is compatible with IFAM system 4000 V01.03.06.00

- AVENAR panel 8000/2000 firmware V4.4.0 is compatible with OPC server 2.0.23

- AVENAR panel 8000/2000 firmware V4.4.0 is compatible with FSI-lib 2.0.23

- AVENAR panel 8000/2000 firmware V4.4.0 is compatible with FAT2002 V4.24.12.79

- AVENAR panel 8000/2000 firmware V4.4.0 is compatible with IFAM system 4000 V01.03.06.00

- OPC/FSI 2.0.23 are supported by the following Windows operating systems:
    - Windows 10 (64 bit)
    - Windows 2016 Server
    - Windows 2019 Server

- FSP-5000-RPS V5.11.12 is supported by the following Windows operation systems:
    - Windows 10 (32 bit)
    - Windows 10 (64 bit)
    - Windows 11

- Download all technical bulletins (TIs) and released firmware and software from the 'ST-FIR Tech Support' SharePoint (registered users only) or EMEA Extranet https://www.boschsecurity.com/xc/en/extranet/fire-alarm-systems/

- When sending panel firmware and/or RPS software to customers ALWAYS make sure you send the complete .zip due to legal compliancy! This means never send single files from those zip archives and never rename the .zip!

- From January 1, 2022 to December 31, 2025, panel firmware version 3.x is in maintenance mode. During this period, new versions will be released only containing fixes for critical bugs and critical security gaps.

- From January 1, 2022 onwards, new product features, new LSN peripherals, new GUI languages, and normative changes will be only available in firmware version 4.x. Firmware version 4.x is exclusively for AVENAR panel and AVENAR keypad.

Attachment(s)

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