Technical Information	Date:	16.03.2022
	Official:	Marier
	Department:	BT-FIR/MKP3

Tech. Information No.	2428 / 2022
Subject:	New AVENAR panel firmware 4.0.2 and FSP-5000-RPS 5.6.11

Short Description:	Encrypted Smart Safety Link for PRAESENSA voice alarm system.
	Introduction of Ukrainian panel language.
	Feature extension AVENAR all-in-one 4000 (FNX-425U) strobe group activation

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	3.4.0	No new version with this release
AVENAR panel 2000 Panel controller	FPE-2000-SPC	F.01U.327.091	3.4.0	4.0.2
	FPE-2000-PPC	F.01U.352.443	3.4.0	4.0.2
AVENAR panel 8000 Panel controller	FPE-8000-SPC	F.01U.327.090	3.4.0	4.0.2
	FPE-8000-PPC	F.01U.352.441	3.4.0	4.0.2
Remote Keypad	FMR-5000 FMR-5000-C	all languages	3.4.0	No new version with this release
AVENAR keypad 8000	FPE-8000-FMR	F.01U.327.092	3.4.0	4.0.2
Remote Programming SW	FSP-5000-RPS	F.01U.005.615	5.5.7	5.6.11
FPA-5000-OPC Server	FPA-5000-OPC		2.0.16	2.0.18
FPA-5000-FSI SDK	FSM-5000-FSI		2.0.16	2.0.18

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

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)

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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	

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New Features:

New features panel firmware:

- Introduction of firmware main line version 4.x. This version is only available as **.SWU file format, which is exclusively for AVENAR panel 8000, AVENAR panel 2000 and AVENAR keypad 8000. Detailed information available in chapter 5.2 of AVENAR panel System Information (version 2022-01 | 4.0 | F.01U.378.910)
- Introduction of Encrypted VAS over IP feature to be used for Smart Safety Link to PRAESENSA. Premium license required to enable Smart Safety Link. Detailed information available in chapter 9 of Networking Guide. (version 2.0 | F.01U.378.914)
- Automatic synchronization of alarm states after re-establishing Smart Safety Link. Feature available for VAS over IP (Praesideo and PAVIRO) and Encrypted VAS over IP (PRAESENSA).
- New language added to panel UI: Ukrainian panel language for AVENAR panel
- Integrated UI test for the buzzer, all indicators on the panel controller and functional modules and display (GOST requirement). Detailed information available in chapter 13.4.2 of AVENAR panel User Guide. (version 2022-02 | 6.0 | F.01U.378.877)
- AVENAR all-in-one 4000 (FNX-425U) feature extension for strobe activation
  TI 2364 / 2021 mentions that the strobe settings frequency (0.5Hz) and intensity level (high) are hard coded. With FW V4 the frequency and intensity level are applied as configured in FSP-5000-RPS.

New features FSP-5000-RPS:

- Introduction of panel account version 4. Panel networking exclusively for AVENAR panel 8000, AVENAR panel 2000 and AVENAR keypad 8000.
- Encrypted VAS over IP for configuring a PRAESENSA voice alarm system to AVENAR panel
- Port number on IP setting for VAS over IP is automatically set and fixed to 9401.
  PRAESIDEO and PAVIRO voice alarm systems must always use port number 9401 for Smart Safety Link.
- Ukrainian language selectable in RPS as panel UI language
- AVENAR all-in-one 4000 (FNX-425U) strobe configuration for single and group activation updated
  Strobe frequency and intensity level are configurable by the rules and for 'Drill' (eMatrix) and 'Manual' activation.
- Consistency check for double addresses when importing WINPARA configurations
  Consistency check will report duplicate addresses of LSN elements
- Folder "ExportedConfigurations" and "ImportedConfigurations" created by default when installing RPS. Users can add the configuration which the user wants to import in the "ImportedConfigurations" folder and view the configurations which have been exported in the "ExportedConfigurations" folder.

Removed features:

- Possibility to configure "15| BMW 800Hz 60s on / 10s off | 3 cycles" sounder tone for AVENAR all-in-one 4000 (FNX-425U) is greyed out for the time being, as the feature isn't implemented yet.
- Removal of selecting by "address" option on multiple configuration window

Known issues:

- none

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.
- RPS 5.6.11: Configuration upgrade from version 2/3 to version 4. Before upgrade to V4, legacy panels & keypads in the configuration must be manually changed in RPS to AVENAR panel and keypad first.

Solved issues:

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Correction and Technical Improvements panel FW:

- Fixed defect: Input On/Off will no longer generate logical ON-State in case of physical fault state (TSEMEA-18206)
- UI improvement VAS over IP diagnostics screen. Detailed information available in chapter 13.8 of AVENAR panel User Guide. (version 2022-02 | 6.0 | F.01U.378.877)
- UI improvement FAP-425 detector diagnostics screen (TSEMEA-15876). Detailed information available in chapter 7.3 of AVENAR detector 4000 user manual (version 2021-11 | 4 | F.01U.283.550)
- Fixed defect: NZM startup incomplete. No activation of NAC line possible

Correction and Technical Improvements FSP-5000-RPS:

- UI improvement consistency check menu
- Performance improvement on opening configuration which include T-tap
- Uninstall RPS when RPS is still opened will now show to first close RPS in order to continue
- Fixed: Trouble 2 counter disappears from counter list (TSEMEA-18257)
- Fixed: Special Latvian Characters in label description not shown correctly on Panel MMI
- Fixed: Logged on named as ON_MP_ET in selection box in RPS (TSEMEA-18258 & TSEMEA-18431)
- Fixed: "Days" activity isn't updated when "Programs" is removed from "Time Control"
- Fixed: When configuring a channel on time control with target FNX-425U Sounder, the on and off action "-" automatically changes to "continuous"
- Fixed: Naming FPA5000 was still used in several windows when AVENAR panel 8000 / 2000 was configured
- Fixed: Transformation error appeared when replacing a RMH 0002 A to ENO 0000 B or ENO 0000 B to NZM 0002 A functional module
- Fixed: Impossible to move FNX-425U devices between LSN busses on same LSN module in stub configuration
- Fixed: Exceeding maximum of 10 FWI-270 on one LSN bus when moving FWI-270 from another LSN bus on the same LSN module in stub configuration
- Fixed: Unable to add detectors under FWI-270 when having many LSN elements on the loop (TSEMEA-18274)
- Fixed: Unable to add more than 28 wireless detectors connected to FK100 on 1 LSN bus (TSEMEA-18025)
- Fixed: When selecting HVAC usage type for FLM-420-RHV the option "Supervised" cannot be disabled in RPS
- Fixed: Use of the symbol "&" in the configuration naming results in a different naming in configuration overview on panel MMI
- Fixed: Czech language shows bit rate 50.0kBit/s(<=800m) compared to other languages 50.0kBit/s(<=700m) causes RamV fault (TSEMEA-17772)
- Fixed: The displaying of time changing in history viewer wasn't correct
- Fixed: Edit config name leads to error (TSEMEA-18248)
- Fixed: Fatal errors in consistency check after installing RPS 5.5.7 (TSEMEA-18467)
- Fixed: Usage type not available for all outputs on FPA-1200 configuration (TSEMEA-18541)
- Fixed: Account version 3.3 and 3.4 with having Lithuanian selected as panel language a transformation error pop up
- Fixed: RPS fault when configuring relay (TSEMEA-18370, TSEMEA-18521, TSEMEA-18461, TSEMEA-18750 & TSEMEA-18445)
- Fixed: Send/receive options - two transformer tools visible (3.3.1 + 3.4.0) (TSEMEA-18255)
- Fixed: Label for personalized menu isn't shown correctly when choosing Italian, Portuguese, Spanish, English, French, German, Dutch, Danish and Swedish (TSEMEA-17200)
- Fixed: Off, Block, Bypass, Drill and Silence shouldn't appear for drill and test activation on multiple configuration window
- Fixed: FNX-425U is shown double in multiple configuration window
- Fixed: "Not found" is mentioned for FNX-425U when right clicking on LSN bus and get summary on element type
- Fixed: MPP creation - FAH-T420 different terminology between 2.23 and 3.4 (TSEMEA-18756)
- Fixed: Duplicate FNX-425U numbering in element type on multiple configuration window
- Fixed: Russian panel language results in transformation error (TSEMEA-18823)
- Fixed: FLM-420-O1I1 not possible to be added after FLM-420-I8R1-S in T-tap mode

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-	Fixed: Text on button shows "Administration" instead of "Line monitoring" under BCM-0000-B 24V Power Out window (English only)

Notes:

- AVENAR panel 8000/2000 firmware V4.0.2 is compatible with OPC server 2.0.18 (no change compared to 2.0.16)

- AVENAR panel 8000/2000 firmware V4.0.2 is compatible with FSI-lib 2.0.18 (no change compared to 2.0.16)

- AVENAR panel 8000/2000 firmware V4.0.2 is compatible with FAT2002 V4.24.12.79

- AVENAR panel 8000/2000 firmware V4.0.2 is compatible with IFAM system 4000 V01.01.28.02

- OPC/FSI 2.0.18 are supported by the following Windows operating systems:
    - Windows 8.1 (32 bit and 64 bit)
      As Microsoft ends the support, OPC/FSI will also finish supporting Windows 8.1 mid 2022.
      Please update your operation system in due time in order to keep using the latest OPC/FSI version
    - Windows 10 (64 bit) (version 1809)
    - Windows 2012 Server (64 bit)
    - Windows 2012 Server R2 (64 bit)
    - Windows Server 2016 (64 bit)
    - Windows Server 2019 (64 bit)

- FSP-5000-RPS V5.6.11 is supported by the following Windows operation systems:
    - Windows 8.1 (32 bit and 64 bit).
      As Microsoft ends the support, RPS will also finish supporting Windows 8.1 mid 2022.
      Please update your operation system in due time in order to keep using the latest RPS version
    - Windows 10 (32 bit)
    - Windows 10 (64 bit) (version 1809)
    - Windows 10 (64 bit) (version 1903)

- 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)

BU Manager	Thomas Knauel	**Clerk in Charge:**	Ronald Marier

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Distribution

Distribution BU FIR Fire Systems	☒	Julian Tersteegen (BT-FIR/QMM), Claudia Majer (BT-FIR/QMM), Knauel Thomas (BT-FIR/MKP BT-FIR/MKT), Heckl Michael (BT-FIR/MKP3)
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	☒	Paredes Ivan (BT/MKR-LA), Miers Christopher (BT/FIR-MKT)
	☒	Haug Stefan (BT-FIR/MKR-EU BT-FIR/MKA-EU)
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Other parties affected	☒	Schrimpf Felix (BT-ASA/MKP BT-ASA/MKC)
	☒	Proyer Konrad (BT-ASA/SRA-EU BT-ASA/SRA2-EU), Dias Andre (BT-ASA/SRA-LA), Wilson Jim (BT-ASA/SRA-NA), Tan Woo Khiang (BT-ASA/SRA-AP)
	☒	Gill Manjit (BT-ASA/STS-UK)
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