

<b>Technical Information</b>	Date: 09.12.2022 Official: Marier Department: BT-FIR/MKP3
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<b>Tech. Information No.</b>	2481 / 2022
<b>Subject:</b>	New AVENAR panel firmware 4.2.0 and FSP-5000-RPS 5.8.12

<b>Short Description:</b>	Introduction of AVENAR panel HW version 0-009-016. Compliance to Austrian standard TRVB 114 S sections 12.2.1.1 and 12.2.1.5
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<b>Hardware</b> <input checked="" type="checkbox"/>	<input type="checkbox"/> Device	<input type="checkbox"/> Module	<input checked="" type="checkbox"/> PCBA
<b>Software</b> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Application	<input type="checkbox"/> Driver / Extension	<input checked="" type="checkbox"/> 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	3.4.2	No new version with this release
AVENAR panel 2000 Panel controller	FPE-2000-SPC	F.01U.327.091	4.1.1	4.2.0
	FPE-2000-PPC	F.01U.352.443	4.1.1	4.2.0
AVENAR panel 8000 Panel controller	FPE-8000-SPC	F.01U.327.090	4.1.1	4.2.0
	FPE-8000-PPC	F.01U.352.441	4.1.1	4.2.0
Remote Keypad	FMR-5000 FMR-5000-C	all languages	3.4.2	No new version with this release
	AVENAR keypad 8000	FPE-8000-FMR	F.01U.327.092	4.1.1
Remote Programming SW	FSP-5000-RPS	F.01U.005.615	5.7.12	5.8.12
FPA-5000-OPC Server	FPA-5000-OPC		2.0.19	2.0.21
FPA-5000-FSI SDK	FSM-5000-FSI		2.0.19	2.0.21

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

Priority Level	Criterion
I	<input type="checkbox"/> The change has to be made <b>immediately</b> (see dates below)
II	<input type="checkbox"/> The change has to be made during the next inspection.
III	<input checked="" type="checkbox"/> Change has to be made, if the error pattern recurs and with new installations.
None	<input type="checkbox"/> General Information (like new tool, new feature, new SW release)

Action Plan	
<input checked="" type="checkbox"/>	Inform customers
<input type="checkbox"/>	Arrange re-work of stock (CSO)
<input type="checkbox"/>	Arrange re-work of stock (customer)
<input type="checkbox"/>	Arrange re-work of installed products
<input type="checkbox"/>	See detailed actions on following pages

Start Date	Completion Date

**New Features:**New features panel firmware:

- Introduction of new AVENAR panel and keypad hardware version 0-009-016. PCBA contains new network components that are not compatible with previous released firmware versions 3.1, 3.2, 3.3, 3.4, 4.0 and 4.1. Change was needed to ensure product supply due to obsolete components. The implications for existing and new field installations are outlined in the attached presentation.
- Introduction AVENAR panel firmware version 4.2 for AVENAR panel 8000, AVENAR panel 2000 and AVENAR keypad 8000 that supports the new AVENAR panel hardware version 0-009-016 in addition to already released hardware version 0.
- Hardware version information is added to the 'Panel passport' and 'Contact information' dialogs in addition to the firmware version. Depending on the version number, a hardware is suitable for a certain firmware version. For more information see chapter 5.2 of the AVENAR system manual (F.01U.378.910)

New features FSP-5000-RPS:

- Introduction AVENAR panel account version 4.2 with panel networking exclusively for AVENAR panel 8000, AVENAR panel 2000 and AVENAR keypad 8000. Similar to all account versions 4.x
- New 'Firmware overview' dialog shows compatible hardware version(s) before downloading the firmware into the controller. Depending on the firmware version, it is suitable for certain hardware version(s). In case the firmware is not compatible with the hardware, the download will not succeed. For more information see chapter 5.2 of the AVENAR system manual (F.01U.378.910)
- Comply to Austrian standard TRVB 114 S section 12.2.1.5: Transmission device cannot be disabled during fire alarm condition by level 2 user. Configuration only active when selecting Austria as country. Consistency check generates an error for all accounts versions.
- Configuration upgrade from account version 2.x/3.x to version 4.x  
Legacy panels & keypads are automatically exchanged by AVENAR panel and keypad. In case of panel type FPA-1200, first the configuration needs to be converted to AVENAR account version 3.x. By default, the FPA-1200 is converted to FPA-5000. After converting, the upgrade to account version 4.x is possible. By default, FMR-5000 is replaced by AVENAR keypad 8000 and FPA-5000 by AVENAR panel 8000 containing a premium license. Afterwards it is possible to manually change the license and node type
- FRAY-ONE-EN is configurable in FSP-5000-RPS for Extended Line Monitoring with FLM-420-4/CON  
The zone configuration window of FLM-420-4/CON provides the FRAY-ONE-EN as detector type in case extended line monitoring for the LSN bus is selected. As a result, the DIP-switch settings for the FLM-420-EOL4W module are displayed.
- Support of Windows 10 32 + 64bit versions and Windows 11
- Sneak preview: Safety Systems Overview now also includes following panel modules: ANI 0016 A, NZM 0002 A, IOS 0020 A, IOS 0232 A and FPE-5000-UGM  
Future version(s) of the System Systems Overview will be extended with LSN and network wiring.

**Removed features:**

- RPS: Possibility to select 'green operational LED blinking' for FAP-O520 and FAP-OC520  
The option isn't supported by the detectors during normal operation, only during testing
- RPS: Possibility to create Sensim file. Sensim is a tool mainly for internal development.
- RPS: Support of Windows 8.1. Microsoft ends the support by January 2023

**Known issues:**

- It is not possible to download the firmware version 3.4 or lower in a hardware version 0-009-016. A new firmware version 3.5 is required for the new AVENAR hardware version 0-009-016 when integrated in a combined system with FPA-5000 and FMR-5000 nodes. The firmware version 3.5 will be as soon as possible released in Q1 2023. Until the release of FW V3.5, it is recommended replacing defect nodes by FPA/FMR hardware.
- 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.

**Important information:**

- The new hardware version 0-009-16 has an increased power consumption compared to hardware version 0. For a limited amount of time, the power consumption value mentioned in the installation guide delivered with the hardware is not corresponding to the new hardware version. For the up-to-date values please download the datasheet from the online catalogue.
- 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.

**Solved issues:**Correction and Technical Improvements panel FW:

- UI improvement: The detector sensitivity settings dialog clearly indicates the default and further sensitivity settings. From account version 4.2 onwards the sensitivity levels are updated and matching between user guide, panel MMI and RPS. After switching the active sensitivity stays on top on the panel MMI.
- Fixed: CO-temperature indication from FAP-425-DOTC-R detector leads to fault condition on panel MMI. When the CO-temperature limit is exceeded, the detector will not anymore trigger a fault condition. This is in compliance with EN54-5:2017+A1:2018, EN54-7:2018 and EN54-29:2015.
- Fixed: During day mode with alarm verification the button should be called 'Investigate' instead of 'Acknowledge' (German 'Erkundung' instead of 'Quittieren').  
Comply to Austrian standard TRVB 114 S section 12.2.1.1. The change is valid for all languages, meaning the word investigate has been translated in all supported panel languages.
- Fixed: Writing error Licence(s) replaced by License(s) in about dialog
- Fixed: OPC server isn't handling logical addresses properly (TSEMEA-18430)  
In case this happened, BIS was connected to the wrong panel and detected a fault within 5 minutes.

**Solved issues:**Correction and Technical Improvements FSP-5000-RPS:

- Fixed: Sounder volume reduced when upgrading configuration from 3.x to 4.x (TI 2467/2022 & TSEMEA-20098)  
The volume setting in the 'State Dependent' and 'Event Triggered' rules was reduced from level 5 to level 4 when upgrading a configuration from account version 3.x to 4.x. The volume setting '5' in the configuration of all FNM sounder variants were affected.
- UI improvement: Term 'Serial number' changed to 'ID'  
Each peripheral shows on its label a serial number and ID. RPS and panel use the ID number for identification.
- UI improvement: Detector sensitivity level updated from 'sensitivity' to 'default sensitivity'
- Improved loading time of opening RPS configurations (TSEMEA-19746)
- Fixed: Adding FNM-420V in T-Tap (TSEMEA-9624)  
When adding in T-Tap e.g. 2 FNM-420V, the second device was placed in the wrong spot.
- Fixed: Incorrect message shown when exceeding the maximum number of 6 NAC zones (TSEMEA-19458)
- Fixed: Not possible to edit the label of configurable LEDs in other languages than English.
- Fixed: Mix between English and other languages on RPS 5.7.12 (TSEMEA-20350)  
When RPS GUI language was set to French, Dutch, Portuguese or Romanian, several RPS windows showed English instead of one the four selected languages.
- Fixed: Configuration with System4000 cannot be uploaded to the panel
- Fixed: LSN Topology 'Loop' cannot be changed after auto-detection
- Fixed: Corrupt XML- file after updating and cancelling 'UGM transmission' and 'Address offset table'.

<b>Notes:</b>
<ul style="list-style-type: none"> <li>- AVENAR panel 8000/2000 firmware V4.x is compatible with OPC server 2.0.21</li> <li>- AVENAR panel 8000/2000 firmware V4.x is compatible with FSI-lib 2.0.21</li> <li>- AVENAR panel 8000/2000 firmware V4.x is compatible with FAT2002 V4.24.12.79</li> <li>- AVENAR panel 8000/2000 firmware V4.x is compatible with IFAM system 4000 V01.03.00.00</li> <li>- OPC/FSI 2.0.21 are supported by the following Windows operating systems:             <ul style="list-style-type: none"> <li>- Windows 10 (64 bit) (version 1809)</li> <li>- Windows 2012 Server (64 bit)</li> <li>- Windows 2012 Server R2 (64 bit)</li> <li>- Windows Server 2016 (64 bit)</li> <li>- Windows Server 2019 (64 bit)</li> </ul> </li> <li>- FSP-5000-RPS V5.8.12 is supported by the following Windows operation systems:             <ul style="list-style-type: none"> <li>- Windows 10 (32 bit)</li> <li>- Windows 10 (64 bit)</li> <li>- Windows 11</li> </ul> </li> <li>- Download all technical bulletins (TIs) and released firmware and software from the 'ST-FIR Tech Support' SharePoint (registered users only) or EMEA Extranet <a href="https://www.boschsecurity.com/xc/en/extranet/fire-alarm-systems/">https://www.boschsecurity.com/xc/en/extranet/fire-alarm-systems/</a></li> <li>- 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!</li> <li>- 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.</li> <li>- 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.</li> </ul>

<b>Attachment(s)</b>
TI2481_2022_Panel_Firmware_Compatibility.pdf

<b>BU Manager</b>	Thomas Knauel	<b>Clerk in Charge:</b>	Ronald Marier
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**Distribution**

Distribution BU FIR Fire Systems	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Ronny Jakubasch (BT-QM), Gerhard Puechler (BT-QMM/FIR), Andreas Speich (BT-QMM/FIR)</li> <li><input checked="" type="checkbox"/> Thomas Knauer (BT-FIR/MKP BT-FIR/PJ-PG), Kristof Vandenberghe (BT-FIR/MKP1), Bernd Harbers (BT-FIR/MKP1)</li> <li><input checked="" type="checkbox"/> Ronald Marier (BT-FIR/MKP3 BT-FIR/MKK), Michael Heckl (BT-FIR/MKP3)</li> <li><input checked="" type="checkbox"/> Josef Angstenberger (BT-FIR/MKR-EU)</li> <li><input checked="" type="checkbox"/> Kah Seong Ong (BT-FIR/SAM-AP BT-FIR/MKR-AP), Leonard Hew (BT-FIR/MKR-AP)</li> <li><input checked="" type="checkbox"/> Renato Lima (BT-FIR/MKR-SLB), James Mottorn (BT/FIR-MKP-AM)</li> </ul>
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Other parties affected	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Felix Schrimpf (BT-ASA/MKP BT-ASA/MKC)</li> <li><input checked="" type="checkbox"/> Konrad Proyer (BT-ASA/MSR-Sab), Andre Dias (BT-ASA/SRA-LA), Jim Wilson (BT-ASA/TCR-Lio), Kiang Tan Woo (BT-ASA/SRA-AP)</li> <li><input checked="" type="checkbox"/> Manjit Gill (BT-ASA/STS2-EU)</li> <li><input checked="" type="checkbox"/> Teleservice Support (SO/OPM8.10Mb)</li> <li><input checked="" type="checkbox"/> Petra Adelman (BT-IE/CTA-CSS1)</li> <li><input checked="" type="checkbox"/> Holger Behrens (BT-IE/BDP-SF)</li> <li><input checked="" type="checkbox"/> David Ziegler (BT-IE/SPM-SF), Ines Schittenhelm (BT-IE/SPM1-SF)</li> </ul>
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