



PRODUCT CHANGE NOTICE



Multitel is pleased to announce the release of the new FUSION v4.90 firmware.
FUSION...A game changer!

THE PRESENT FEATURE-SET IS SUBJECT TO CHANGE WITHOUT NOTICE



NEW FEATURES

MAJOR ENHANCEMENTS

1. **Dynamic Channel Creation:** Most derived channels can now be created on the go, no more limitation to a certain quantity of channels. Same for Modbus I/O and SNMPGet I/O channels which can now be generated on the go providing the flexibility you were aiming for.
2. **SNMP Trap INFORM:** FUSION now supports the INFORMs which allow more secure transmission of notification between the FUSION and your SNMP Manager.
3. **New Peak Channels:** Get high and low peak values for any analog or derived channels base on a user selectable period, this feature is ideal for peak study and energy monitoring applications.
4. **New BRES Channel:** Estimate Battery Reserve Time based on a traditional battery reserve time algorithm, FUSION continuously estimates the battery runtime based on actual load and automatically counts the time down when a battery discharge event occurs.
5. **Wireless Rack Temperature Monitoring:** FUSION can be used to monitor wireless temperature sensors using Multitel wireless gateway and provide a secure way to transfer those data to any SNMP-based network management solution.
6. **RADIUS encryption:** We have added encryption to RADIUS secret in the configuration file. Therefore, the "secret" word or password in the CSV file for the RADIUS server configuration is no longer visible.
7. **HTTPS Response Time:** Web optimizations have been put together to improve the response time when browsing the FUSION web page in HTTPS mode. Also, the new header now displays the FUSION date and time
8. **Improve countermeasure for DDoS:** FUSION is now less sensitive to DDoS attacks and no longer loses communication after 5 min.

9. **Web Modbus Read/Write:** The once hidden Modbus read/write feature is now available from the web page. The features simplify access to Modbus device register configurations and troubleshooting.

MINOR ENHANCEMENTS

1. **Date and Time:** Header now displays the FUSION date and time
2. **USER** – The number of USER was augmented from 10 to 16 maximum.

FEATURES REMOVED

The following features have been removed from the FUSION firmware, so please review with the FUSION administrator to validate if any of them are presently used in your monitoring/control applications.

1. **PID:** The Proportional, Integral and Derivative loop function has been removed from this software version.
2. **Access Control:** The Access Control feature enabling the user to interface with existing proximity card reader has been disabled from this software version.
3. **Dialup Bridge:** The Dialup Bridge channels have been removed from this software version.

BUG FIXES

1. **HMI naming issue:** A fix has been done to prevent HMI views from being erased or displayed when using numbers and some special characters like “%&*” in the HMI file name (*.XMG). Although, the fix is implemented, we recommend to not use special characters for naming HMI files, as they are perceived by the web browser as control characters and can cause HMI management and viewing issues.
2. **Web Server Freeze:** A fix has been implemented to prevent FUSION web server to not respond to initial connection request.
3. **Inoperable RADIUS Authentication over SSH:** Few fixes have been implemented to eliminate the intermittent functionality of RADIUS authentication over Telnet and non-functionality over SSH.

REMAINING KNOWN BUGS

1. **(RTU-496)** – Read/Write memory left calculation does not take into account the space allowed for the daily statistics, therefore the result shown in “System Information” is faulty
2. **(RTU-501)** - Browser-makers has confirmed that browser support for TLS (Transport Layer Security) 1.0 and 1.1 will end from March 2020.
3. **(RTU-503)** – Virtual Channel DSP 24 on analog card are no longer supported. Customer are invited to use FUSION’s Arithmetic channels instead.

4. **(RTU-507)** – Daily statistics are lost (reset) when a FUSION system reboot occurs. This is the case when a firmware update is performed.

UPDATE REQUIREMENTS AND/OR IMPACT

Note that a detailed update procedure package is provided with the new firmware code file.

Following are the possible impacts when performing the v4.90 update.

1. **Daily, triggered and histogram statistics files content will be lost after a firmware code upload**, thus, it is recommended to download the files content prior to performing the remote code upload.
2. FUSION configuration (Operating parameters) may be reset to default values. Therefore, it is good practice to backup/download the configuration file prior to performing the remote code upload.
3. When executing FUSION v4.9x, v4.8x and v4.7x upgrades from previous to v4.50, the Intelligent I/O Card firmware is erased and needs to be uploaded via the HTTP/HTTPS or the TELNET/SSH interface. The following files are available upon request. If you have any questions contact: support@multitel.com
FUSION I/O card files:
 - a. MIR_ANA.XMD
 - b. MIR_EVT.XMD
 - c. MIR_OUT.XMD
4. The new FUSION version does not require any FIRMSuite™ upgrade.
5. Occurrence counters will be reset to zero (0).
6. Rollback to last previous version v4.83 has been tested and is operational. However, we have seen unexplained events where the FUSION IP Address is reset to default (192.168.1.1). Thus, it is recommended to perform the rollback on-site in the event the IP Address is reset.

AVAILABILITY

The **new FUSION v4.90 firmware will be available on March, 2021**. Multitel is committed to provide only the highest quality products for your needs. If you have questions regarding this product change notice, please contact your Multitel sales representative.

REQUEST YOUR UPDATE

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