

Customer Release Notes

Product ID: 7705ii AES MultiNet Receiver

Software Version: 2.0.1.4968

Release Date: July 25, 2019

Overview:

This document describes the new features, improvements, bug fixes, and workarounds/known issues (if any) for this release. The previous version was 1.15.108.4654 from February 8, 2019.

New Features:

1. MN-937: Dashboard feature implementation

Implemented a web GUI interface which augments the LCD/ front panel and provides a Manual Alarm Interface, as well as system status information.

2. MN-615/MN-863: Added support for HTTPS

Implemented redirect from HTTP to HTTPS for an added layer of security encryption.

3. MN-949 / MN-974 / MN-1025: New feature set; Send alarms when hard-disk full, ping-failed, and/or backup-failed conditions are detected

Improved version of a new feature set by running checks every 24-hours, starting at 10AM on the day of startup (e.g. If you start up a system at 11AM, a check will be performed immediately, and then again at 10AM the next day, etc. If no error is seen, this mode continues. If an error is captured then:

- 1) A print is made in the log file, and this condition will be checked every 10 min for restoral.
- 2) If not disabled via Tech Options, then CPU LED is lit, Alert Siren Activated, and Alarm Generated. NOTE: Time zone is taken into account, but daylight-savings transitions are not. This means that the alarm will be at 11AM during DST (if it applies to the installed / configured time zone), 10AM otherwise.
- 3) If the fault still exists, putting the MultiNet receiver to silence will be good until 10AM the next day (applicable to hard disk and backup fault only).

New event codes have been added for: Hard-disk Full (E623 C908), Backup Failure (E624 C909), and Ping Failure (E997 C917). These three new faults do not currently exist in the manual, and will be added in the future.

NOTES: Previously during a Ping fault, the MultiNet Receiver would only buzz and print a ping failure to the receiver message every minute; no event codes were sent to Alarm Automation software. Now the Ping fault comes with a new CID event. Also, after upgrade, the default setting for these 3 new event codes will be set to "Enabled", but can be disabled via MultiNet receiver Tech Options.

4. MN-845: Added role-based web GUI Authentication

Added predefined User Accounts of 'Admin' and 'Operator, allowing for different access levels. Admin user account has Full privileges to READ-WRITE configuration settings, full visible menu and able to change password for Admin and Operator users from "change password" interface under SysOp menu of Web GUI.

Operator user account has READ-ONLY privileges, limited menu visibility, limited page access, and no configuration changes such as: database Backup, Edit Ping IP, Subtools, ADD/Modify Business units, etc...

5. MN-827: Provided web GUI interface to change the BU/Orphan passwords

Added web GUI area for changing Business Unit and Orphan passwords. The prompt for a new Orphan password is located at the bottom of the "Server Configuration" page, while the prompt for changing Business Unit passwords is at the bottom of the "Modify Business Unit" page.

6. MN-935: Provided web GUI interface for changing network settings

Added a 'Network Settings' interface under SysOp menu from web GUI, which is helpful for changing the network settings (IP address, netmask, gateway, and DNS name server) of the MultiNet.

It provides the same level of functionality and error checking as the existing "changeIP.pl" script.

7. MN-936: Provided web GUI interface for configuring NTP time synchronization settings

Added a 'Time Synchronization' interface under SysOp menu from web GUI, which is helpful for changing the NTP time synchronization settings (Time zone, NTP Time Sync Master, Slave IP Addresses, NTP Master Address, along with buttons for 'Test' and 'Set Configuration') of the MultiNet.

It should provide the same level of functionality and error checking as the existing "synctime" script, including setup of the timezone.

Improvements:

1. MN-1020: Allow dynamic change of Ping IP without requiring an aesmon restart

Adjusted web GUI choice of SysOp | Edit Ping IP to take effect after 10 seconds, nullifying the need to perform "aesmon restart". This can be very useful when a customer with a failed Primary, promotes the Secondary to a Primary, and then later a replacement Secondary is put into service. In this case, it's highly desirable to change the "Ping IP" IP address without restarting the Primary.

2. MN-1016: Improve "View all" response time of Business Unit page

Reduced the wait time when displaying Business Unit information which contains large number of Subscribers in it.

Bug Fixes:

1. MN-835: Certain IP Link connection failures will not generate supervision alarms

If a Secondary records a supervision failure for an IP Link, then the Primary would in the future, fail to issue an alarm should it fail supervision again. This suppressed supervision failure alarms if the other receiver had already issued one, or if the other receiver had an active connection to the IP Link. The fix is to suppress the alarm ONLY IF the other receiver has sent a supervision failure alarm within the last 30 seconds, or has an active connection. Also fixed was the issue when a supervision failure alarm would not be issued by either receiver, now there is always some type of supervising.

2. MN-1000: Backup does not properly detect multiple instances

Ensured that the automatic backup feature runs every 10 minutes, checking if it's time to run backup and if backup.pl is already running, preventing multiple copies of the backup from being spawned. If the backup is done in less than 10 minutes, there is no impact. Various problems may arise though, especially when a customer has relatively slow network connections between receivers, or second-site backups, combined with large amounts of data requiring back up.

3. MN-962: LED board failure delivering with unit ID as "0000" instead of "0001"

Fixed issue where the Alarm generated for "LED board failure" was reflecting "0"; it now reflects the Server Receiver Number entered in the Server Configuration GUI settings.

4. MN-1011: Changing IP Group of an existing Subscriber does not update GroupID column in IPSubStat table

The fix not only updated the connection time and counts columns, but also the GroupID column when a Subscriber makes a new IP connection. Sending outbound packet from IP Subscriber, even after changing to new IP Group's within the same business unit, successfully accepts the changes, and delivers the outbound packet.

5. MN-1010: Both IP and Hybrid path should show up on the drop down list in IPCtrl at all times by default, when an MCT Subscriber with RF+IP uses its primary route as Hybrid

At least one inbound packet delivery must have been received via Hybrid path in order for that option to appear in the routing selection list. The fix was that once an inbound packet is delivered via direct IP path, the Hybrid route option will ALSO be presented as an option for outbound delivery.

6. MN-1017: Subtools fails after SW upgrade due to missing column in database table

Modified Subtools database error that was causing information about new Subscribers to not be inserted, and resulted in Subtools operation failure. Subtools now works when upgrading from an older s/w version to the latest.

7. MN-959: IP Link/IP Group IDs with invalid names accepted during InstallGUI config

Previously, data entry configuration restrictions did not exist when entering values for IP Link/IP Group.

8. MN-452: Battery Fault (E307 C801) sent to AA when requesting status of Subscriber with prior Battery Fault

MN-453: Panel Fault (E307 C815) sent to AA when requesting status of a Subscriber with prior Panel Fault

MN-454: IP Comm Fault (E356 C904) sent to AA when requesting status of a Subscriber with prior IP Comm Fault

Fixed Battery, Panel and IP Comm Faults to now deliver with a 'P', whenever requesting a status of a Subscriber in a fault state.

9. MN-1023: WEB GUI for changing IP Link and IP Subscriber port does not range check for values <= 1024 as designed

Fixed. Entering invalid values now produces the error, "Please enter decimal value (from 1025 to 65535)". Entering a valid number between 1025 and 65535 is accepted.

10. MN-1057: IPCtrl "View Routing & Status Records" does not represent Hybrid paths

Fixed issue where Hybrid paths were not shown in the IPCtrl menu dialog choices for: DataRouting | "View Routing & Status Records" and "View Paths/Thru". This fix now shows the below behavior:

- Only Hybrid path is displayed in the Routing record window if there are no "pure radio" paths at all.
- When the current routing path is via Hybrid, the Mesh path and Radio Information of the subscriber will still show if the Subscriber's traffic was delivered at least once from IPLINK in the past.
- INET-only information is shown when there are no pure Mesh or Bridged paths.

11. MN-1060: Subscriber model can be misidentified if SN or MAC contains a substring the same as an existing model

Fixed parsing issue where if a Serial Number (SN) contained a substring that represented an existing model number, then the subscriber would be misidentified as by the MultiNet. For example, a 'Fire 7707 unit' that had a Serial Number of 'F0017450', was being shown as a '7450' unit, rather than a '7707', in the MultiNet Subscriber list page.

Workarounds / Known Issues:

1. MN-1043: Subtools not able to turn OFF TX for Hybrid

Choosing "Turn Off radio" from Subtools for Hybrid never sends H_EMERG. Workaround is to restart the Hybrid unit from its Web GUI.