March 2016 John Deere Field Connect™ firmware release notes

Gateway firmware version - 1.11.75
Wireless firmware version - 1.1.23

NOTE: both gateway and wireless firmware is bundled together in the available files.

Firmware 1.11.75 and 1.1.23 enables and is required for:

- Pressure sensor support. Customers can monitor pressure in irrigation systems with Field Connect™ Gateways and wireless nodes. Sensors are purchased from a 3rd party supplier and are required to meet the following specs:
    - Input voltage: 5 volt DC
    - Output voltage: 0.5-4.5 volt DC
    - Range: 0-200 psi
    - Molex™ connector part number: 33472-0801

    - Connector pin out information:

PIN	Wire
1	5 volt
3	Analog in
6	Ground
2/5	Loopback

- Field Connect™ wireless support of rechargeable nickel-metal hydride (NiMH) batteries
- Updated RSSI values for wireless nodes
- Updates to wireless repair mode to conserve battery
- Changes to post-setup behavior to increase registration speeds
- Satellite in view table enhancements for more reliable switch from cellular to satellite
- 2G modem firmware update (please update to 3G, where available)

Firmware Installation Instructions

NOTE: Update has two files (GWFRMWR.BIN and MPFILE.BIN) that must be loaded. Do not change file name.

1. Obtain a USB drive meeting all requirements below:
   a) FAT32 formatted
   b) Verify there are no other firmware files or folders on USB drive.
   c) When plugged into a computer, USB should appear as "Removable Disk". If USB appears as "Local Disk", it should not be used.
   d) No password, encryption or bitlocker capabilities on USB stick; even if turned "off".
2. Copy firmware file(s) onto root of USB drive.
3. Verify that battery voltage is above 12.2 V.
4. Insert flash drive into the USB port on the gateway.
5. The USB LED should start to flash blue and eventually transition to yellow and teal.
6. Wait approximately 3 to 10 minutes.
7. Unit will automatically reset. (All LEDs turn on momentarily)
8. The USB LED should turn solid green at this point. Remove the USB flash drive and the USB LED should turn OFF.
9. Verify GPS time source is valid. The GPS time source is valid once the GPS LED light is solid.
10. Press the multifunction button on the gateway. If the GPS time source is valid, all LEDs will flash once. If the GPS time source is invalid, all lights will flash 3 times. The GPS time source has to be valid for the gateway to recognize the probe.