

GreenStar™ Software Update 2016-1

Release Notes

Important Notes:

- It is recommended to back up GreenStar™ 2 1800 Display and GreenStar™ 3 2630 Display data prior to updating to Software Update 16-1, as a precaution to protect your information.
- It is suggested to erase all data from your GreenStar™ 3 2630 Display, before loading new Setup Data, in an effort to remove unnecessary and potentially corrupt files that may hinder display performance.
- Software activations are non-transferrable in the event of lost, stolen, or destroyed equipment. It is recommended to insure a GreenStar™ Display at full value, including software activations.
- To ensure complete and proper functionality, the most current version of GreenStar™ Display software and Apex™, or preferred partner, desktop software should be used.

Global Support Center Information:

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Release Notice

These are the software update release notes for the GreenStar™ Displays and related products. Apex™ Farm Management software release notes can be found on www.StellarSupport.com. Note: Your use of the software is governed by the End User License Agreement, included in the software bundle.

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GreenStar™ 3 2630 Display: Display, AutoTrac™, John Deere Section Control, John Deere Machine Sync, John Deere Wireless Data Transfer

GS3 2630 Software Compatibility Notes:

- For John Deere Machine Sync functionality, GreenStar™ 3 (GS3) 2630 Displays must operate with matching software versions. (SU16-1 recommended).
- For John Deere Machine coverage map and guidance line sharing functionality, the accuracy of shared coverage maps and guidance lines is related to the StarFire Receiver accuracy level. As the accuracy level increases, coverage map and guidance lines sharing accuracy also increases.
- For John Deere Machine Sync coverage map sharing: shared coverage maps will not persist after updating displays to SU16-1. Perform software update at the conclusion of field operations to ensure no coverage maps are lost.
- Coverage maps will not persist if GS3 2630 Display software is backdated from SU16-1 to an older software version.
- ISOBUS AEF Certification functionality is only approved for 30 Series and newer tractors.
- ISOBUS AEF Certification functionality will disable the use of the virtual Original GreenStar™ Monitor mode within the GS3 2630 Display and controllers that are designed for use with the Original GreenStar™ Monitor mode.
- Generation 4 CommandCenter™ setup profiles do not include Machine/Implement profiles, needed by a GS3 2630 Display. Before exporting Gen 4 CommandCenter profiles for use in a GS3 2630 Display: first, export data from the GS3 2630 Display with the profile name "JD4600". Next, using the same USB, export Setup Data from the Gen 4 CommandCenter. All data will be merged into the JD4600 profile folder. Finally, import "JD4600" profile into the GS3 2630 Display.
- GS3 2630 Display connected to 9RX Series Tractors will show a wheeled 4WD equipment dimension graphic until a 9RX ROOF controller payload is available, expected May 2016 (Version 3.32.1226)
- Software Version (3.32.1226) (16-1) is backwards compatible on all previous GreenStar™ 3 2630 Display hardware revisions, however previous GS3 2630 Display software (15-2 and earlier) is not compatible with new GS3 2630 Display hardware revision H and later. Revision H GS3 2630 Displays are produced after February 2016. Hardware revision letter is found in the 7th digit of the Display's serial number. Example: PCGU2UH123456

New Features

John Deere Machine Sync Enhancements: Coverage Map Sharing - John Deere Machine Sync coverage map sharing functionality can now be shared using the Modular Telematics Gateway (MTG). Sharing coverage maps allows John Deere Section Control-enabled machines to trigger section control on/off based on another machine's coverage. Harvest operations can use shared coverage maps and overlap control to calculate an individual machines harvested area.

John Deere Machine Sync Enhancements: Guidance Line Sharing - John Deere Machine Sync guidance line sharing functionality can now be shared using the Modular Telematics Gateway

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(MTG). Sharing guidance lines allows an AutoTrac-enabled machine to share straight track guidance lines with another vehicle.

In order to share coverage maps and guidance lines, a John Deere Machine Sync Activation and MTG 3G with active JDLink™ Connect subscription is required on each vehicle (refer to your John Deere dealer for market specific subscription requirement). Vehicles must be in the same MyJohnDeere organization to share data.

Section Control: Help Content – Onscreen Help pages for Section Control settings, Turn On and Turn Off times, and Overlap settings have been updated to provide more insight to correctly tune Section Control.

Resolved/Informational Items

Section Control: Reference Point – Issue caused too far from reference point message. Clearing field map coverage did not reset the field's reference point to utilize Section Control.

Section Control: Overlap Coverage- Issue with overlap coverage caused sections to shut off incorrectly when traveling across a partially covered area.

Section Control: On/Off Times – Issue caused Section Control On and Off times to be incorrect when a GreenStar Rate Controller was connected on the CAN Bus but was not applying product (Master switch Off).

Section Control: Liquid Manure Applicator – Issue caused the display to not recognize ISOBUS Task Controller enabled Liquid Manure Applicator controllers.

GS3 2630 Display: SeedStar™ 3 HP– Issue caused hitch connection type within the SeedStar 3 HP Virtual Implement (VI) to not update in GreenStar application, equipment settings.

GS3 2630 Display: SeedStar™ 3 HP – Issue caused Implement A dimensions entered in GreenStar application to not update in SeedStar 3 HP Virtual Implement (VI)

Machine Sync Shared Data: Coverage Map Sharing – Issue caused coverage map to disappear when using the Join feature; the display would duplicate the task when using Apex™ task templates.

John Deere Machine Sync: Automation Activation – Issued caused the John Deere Machine Sync Activation to interfere with John Deere Baler Automation, Grimme™ potato harvester automation, and other implement controllers that utilized tractor speed automation.

Wireless Data Transfer (WDT): Error 14 – Issue caused automatic WDT files to show status as Export Failed. Selecting the files showed the file has failed due to Error Code: 14

8000 Series Self- Propelled Forage Harvesters: Area Sync – Issued caused Area Sync application not to work when Overlap Control was enabled.

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8000 Series Self- Propelled Forage Harvesters: Mapping – Display would not map zero rate for grass protein constituents.

Harvester Low Voltage DTC: DTC 158.04 and DTC 168.04 for low switched and unswitched power are now suppressed for 30 seconds to reduce false DTC warnings during start up.

GS3 2630 Display: Performance Monitor – Issue caused Performance Monitor not to count acres when recording source was set to GreenStar and implement width set to Auto. Issue was seen when moving display between multiple vehicles.

GS3 2630 Display: Mapping - Issue caused as-applied maps on the GS3 2630 Display not to match as-applied maps in Apex™ and John Deere Operations Center. The display did not handle inaccurate GPS timings correctly.

GS3 2630 Display: Zoom and Turning View Map - Improvements have been made to map rendering that optimize zoom level changes and transiting in and out of turning view.

GS3 2630 Display - Apex™ Unload Failure – Issue caused certain planter profiles to not unload into Apex™.

Guidance: Corrupt Adaptive Curve – GS3 2630 Display created duplicate corrupt adaptive curve guidance tracks and showed the message “Curve Data Information Corrupt”. The corrupt tracks would cause an unload failure when attempting to unload the invalid adaptive curve guidance track in Apex.

Guidance: Direction Toggle Button – Direction toggle button is now enabled to change vehicle direction on the display if the SF3000 and ATU cannot automatically determine known direction of travel.

GS3 2630 Display: Task Controller – The display now reports as Task Controller Version 3. This provides improved compatibility with ISOBUS compliant implements without having to enable ISOBUS Certification mode on the display.

Prescription: Shapefile Conversion - Issue caused certain 3rd party shapefile prescription conversions to fail due to the field name length greater than 20 characters.

Guidance: AB Curve Radial Shift – If an AB Curve is radially shifted with GS3 2630 Display software version 3.30.1232 (15-2) or earlier, and then exported to a Gen4 CommandCenter with software version 10.1.123 (16-1), the Gen4 CommandCenter will reject the AB Curve. Only AB Curves radially shifted with GS3 2630 Display 3.32.1226 (16-1), can be imported into a Gen4 CommandCenter with software version 10.1.123 (16-1).

GreenStar™ 2 1800 Display: Display

GS2 1800 Display Compatibility Notes:

- Software Version 2.14.1036 is backwards compatible on all previous GreenStar™ (GS2) 1800 Display hardware revisions, however previous GS2 1800 Display software (15-1 and earlier) is not compatible with new GS2 1800 Displays hardware revision E and later. Revision E GS2 1800 Displays are produced after August, 2015. Hardware revision letter is found in the 7th digit of the Display's serial number.

StarFire™ 3000 Receiver: Receiver

Resolved/Informational Items

Active Implement Guidance - Poor Performance in one direction - Receiver improvements were made to help prevent Active Implement Guidance from operating erratically or poorly in one direction.

AutoTrac™ Vision System

New Features:

AutoTrac Vision – Supporting software on Vision Guidance Camera (VGC) for 4 Series Self-Propelled Sprayers

Application Controller 1100: iGrade™, John Deere Active Implement Guidance

New Features:

iGrade™ Specific Enhancements - Distance trip now has a countdown feature enabled. After first trip is cycled, distance trip will count down until 0 where next trip will happen. After the distance to trip reaches 0 and a trip is completed its full trip cycle the countdown will start over. Cross Slope Control is now enabled. This will allow iGrade to control the roll angle of a scraper equipped with lateral tilt.

Active Implement Guidance Specific Enhancements – Ability to turn shared signal off while running. Currently Active Implement Guidance will automatically use shared signal between the machines and implement receivers. Now there is an optional drop down feature under Implement Steer Setup to disable shared signal.

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External valve software - Has been updated to allow the full use of the SCV paddle pot.

Application Controller 1120: John Deere Mobile Weather

Update

Displays wind speed - John Deere Mobile Weather now displays maximum wind speed, average wind speed and calm status. The window for averaging weather data has been increased to 600 seconds, allowing you to further customize averaging data.

Max Wind (mi/h) – Highest data value collected during your set “wind speed averaging” interval.

Avg Wind (mi/h) – Average of data collected during your set “wind speed averaging” interval.

Calm Status – Is displayed when average wind speed is below 3mi/h for your set “wind speed averaging” interval.

Mobile Weather Main		Mobile Weather Setup	
Mobile Weather Status	Ok	High Temp (°F)	85.0
Temperature (°F)	79.1	High DeltaT (°F)	18.0
DeltaT (°F)	21.1	High Wind (mi/h)	8.0
Humidity (%)	25	Direction Limit	OFF
Max Wind (mi/h)	2	Wind Speed Averaging (sec)	300
Avg Wind (mi/h)	2		
Current Wind (mi/h)	2		
Direction	Calm		

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Software Versions – Bold items have changed from previous releases and are included in the software bundle. Please utilize the John Deere Custom Performance website to view and/or update controllers not included with this software bundle.

<u>Version #</u>	<u>Description</u>
3.32.1226	GreenStar™ 2630 Display
2.8.1033	GreenStar™ 2600 Display
2.14.1036	GreenStar™ 1800 Display
GSD 1.97 B	Original GreenStar™ Display
ITC 2.21 B	StarFire™ 3000 Receiver
ITC 3.73 H	StarFire™ iTC Receiver
LCR 1.10 C	StarFire™ 300 Receiver
SF 7.70 B	StarFire™ Gen II Receiver
03B10	John Deere Mobile RTK Modem
1.10A	Machine Communication Radio
TCM 1.09 A	TCM
2.70 D	Application Controller 1100 (iGrade™, John Deere Active Implement Guidance)
1.50 D	Application Controller 1120 (John Deere Mobile Weather, John Deere Harvest Identification Cotton)
ATU 1.13 A	AutoTrac™ Universal (ATU) 100
ATU 2.30 A	AutoTrac™ Universal (ATU) 200
RG2 2.04 B	AutoTrac™ RowSense – Universal
CAT 1.11 B	AutoTrac™ Controller (Deere)
GRC 3.50 A	GreenStar™ Rate Controller
GDC 2.20 A	GreenStar™ Rate Controller Dry
VGC 1.10B	AutoTrac™ Vision Guidance Camera
HMCT 1.11 C	Harvest Monitor™ Cotton SCM
CMFS 2.07C	Cotton Mass Flow Sensor CMFS
SMON 1.73 A	Original Harvest Monitor™ SPFH
HMON 1.20 C	Harvest Monitor™ Combine with In-Tank Moisture
MST 7.01 B	Harvest Monitor™ Elevator Mount Moisture Board
AC2 .11	Original Air Cart
SMVR 1.01M	SeedStar™ Gen II