GreenStar™ Software Update 2015-2
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 15-2, 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:

Web: www.StellarSupport.com
E-mail: GreenStar@JohnDeere.com

Contact information for all supported countries can be found at StellarSupport™ under the "Contact Us" section.

Release Notice

These are the software update release notes for the GreenStar™ Displays and some 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^{TM}, John Deere Section Control, John Deere Machine Sync, John Deere Implement Detection, John Deere Wireless Data Transfer

GS3 2630 Software Compatibility Notes:

- To ensure complete and proper functionality, the most current version of GreenStar™ Display software and Apex™, or preferred partner, desktop software should be used.
- For John Deere Machine Sync functionality, GreenStar™ 3 (GS3) 2630 Displays must operate with matching software versions. (SU15-2 recommended).
- For John Deere Machine Sync – coverage map sharing, shared coverage maps will not persist after updating displays to SU15-2. Preform software update at the conclusion of field operations to ensure no coverage maps are lost.
- 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.

New Feature

GS3 2630 Display Operator Manual – Operators Manuals are no longer available on StellarSupport™. Visit Deere.com and use the 'Search for Agricultural Equipment Operator's Manuals' link to locate the John Deere Technical Information Bookstore and to obtain the latest Operator's Manual. GS3 2630 Display text has been updated to show this change.

John Deere Machine Sync Improvements: My Name on Network – The Name on Network input box has been added to the Machine Sync Shared page for easier access when using Machine Sync for coverage map and guidance line sharing.
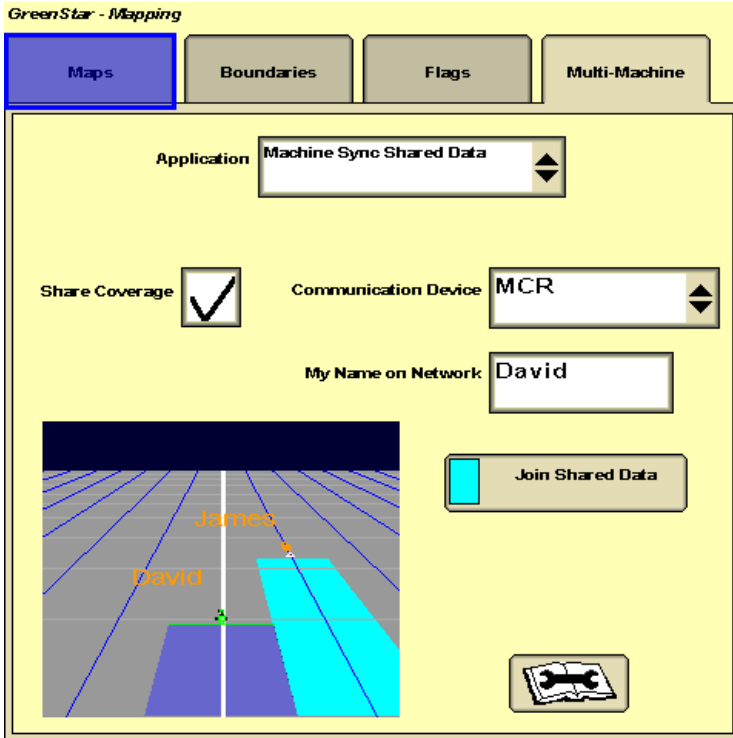
John Deere Machine Sync Improvements: Name on Network – The Name on Network shows up to 5 characters on the Mapping Pages. Previous software versions limited this to only 3 characters.
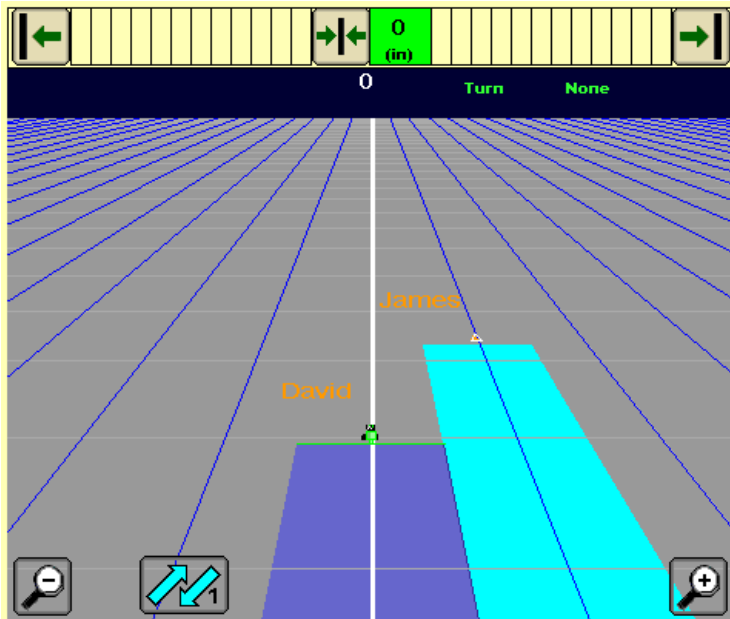
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John Deere Machine Sync Improvements: Shared Coverage Status – Selecting the status indicator will open the Shared Coverage Status page. This page lists the runtime status of all machines that the GS3 2630 Display is communicating with, their Name On Network, and the time the machine last received shared coverage (Last Synced). The Question Mark button will show the Runtime Status Key descriptions.

John Deere Machine Sync Improvements: Shared Data Diagnostics – Machine Sync Shared Data diagnostic pages have been updated to support upcoming features to share coverage map and guidance lines using the 3G Modular Telematics Gateway (MTG).

John Deere Machine Sync Improvements: Guidance Line Sharing – After pressing the Share AB Line on the Set Track 0 page, the Message Center text will be updated and will show AB Shared or AB Failed. The Message Center will now also explain additional message details.
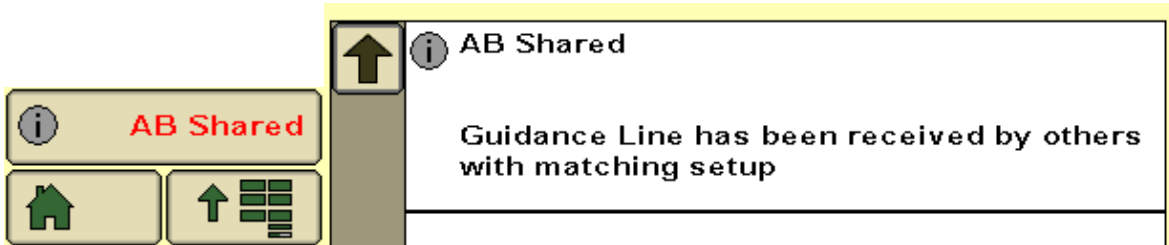
GS3 2630 Display: Map Settings – In previous software versions, selecting "This field only" would clear all maps associated to a specific field. With the addition of Machine Sync coverage map and guidance line sharing, the GS3 2630 Display maps are associated to a field and task. The button was updated to say "This field and task only".
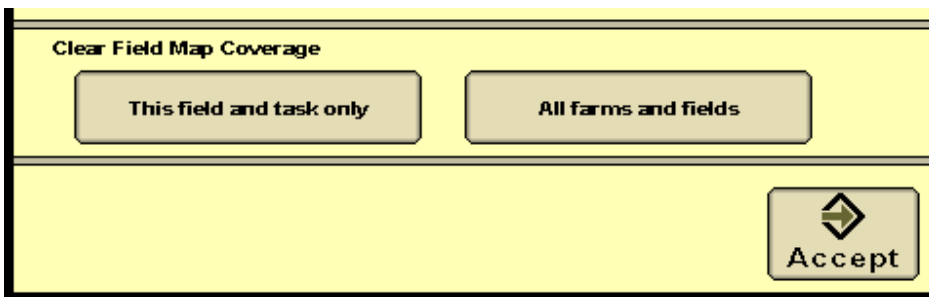
Debug Log Improvements – Collecting a debug file on the GS3 2630 Display will now take a screenshot and save settings, the Saving Settings Warning will appear throughout the entire debug process. The GS3 2630 Display will automatically reboot after writing the debug file.

Status Error Improvements – When a Status Error is received, the GS3 2630 Display will automatically save settings and create a debug file. The Display Status Warning will appear throughout the entire debug process. The GS3 2630 Display will reboot after writing the debug file.

Resolved/Informational Items

GS3 2630 Display: Mapping and Totals – Issue caused as-applied maps and total values on the GS3 2630 Display not to match as-applied maps and total values in Apex™ and MyJohnDeere Operations Center.

Machine Sync Shared Data Settings – Shared Data settings were not reset to default settings when all data was removed from GS3 2630 Display. Share Coverage and Communication Device remained selected after erasing data.

Machine Sync Shared Data: Coverage Map Sharing – Issue caused coverage map to be shared when a Task was renamed.

Machine Sync Shared Data: Join – When selecting <join> in the Client, Farm, or Field drop down menus, the Join Shared Data page did not appear.

Machine Sync Shared Data: Guidance Line Sharing – When sharing a Straight Track from one GS3 2630 Display to another and the receiving GS3 2630 Display operator renames that Track; if the original Straight Track is sent again from one display to another, the receiving display did not overwrite the Track's name or settings. Now, existing guidance lines will be over written and updated with the most recent changed Track settings.

Machine Sync Shared Data: Guidance Line Sharing – Issue caused AutoTrac™ to disengage after sharing an AB line and then pressing the Accept button. Now, if no Set Track 0 settings have changed and Accept button is pressed, AutoTrac™ will not disengage.

Mapping: Map Settings – With John Deere Machine Sync coverage map and guidance line sharing, Local or Shared coverage in Foreground map layers would not be shown when a Background Map layer was selected.

Mapping: Map Settings – When creating and deleting operations, the Map Settings Foreground list would not update to remove deleted operations.

Mapping: Loss of GPS – Issue caused coverage not to be recorded when documentation was off and GPS signal was lost. Now, when GPS signal is lost for less than 8 seconds, gap will not be seen in coverage, operation, or yield map.

Mapping: Variety Locator – When traveling into a new variety, the map would automatically resize, and change to the Yield Map.

Mapping: Variety Locator – Issue caused intermittent screen freezes when using Variety Locator.

Section Control: Diagnostics – Distance from Reference Point value range expanded to 8 digits.

Guidance: Adaptive Curves – Issue did not allow for a new adaptive curve track to generate after making a headland pass or when traveling back along a previous recorded track.
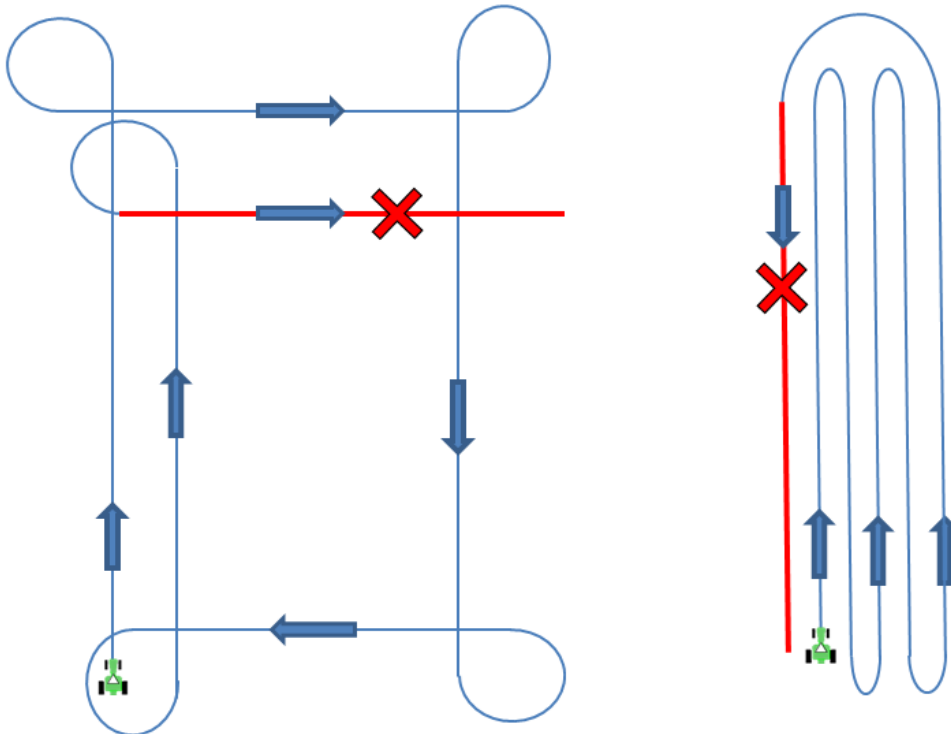
Guidance: Set Track 0 – Issue caused the Set Track 0 page not to update when the line creation method was changed.

Guidance: AB Line – Issue caused guidance lines to still be visible on screen after erasing all data from display.

Guidance: AB Line – While moving and recording coverage, if an AB line was created or modified, a gap in coverage was created.

Guidance: Swap Track – When the Current Track is changed to a different Tracking Mode, the GS3 2630 Display would push all Swap-To Tracks down in the original list, and remove the last Track in the list. Now, if the Current Track changes Tracking Mode, it overwrites the first track in the Swap-to Tracks list and no longer removes any Tracks from the Swap-To Tracks list.

Guidance: Swap Track – Swap-to Tracks would be reset after a GS3 2630 Display cold boot. Issue would require operator to reselect Swap-to Tracks after every cold boot.

Guidance: AB Curve Radial Shifts – The Center Shift Track button is active but has no functionality. Now, the Center Shift button has been disabled to represent no functionality.

Guidance: Advanced AutoTrac Settings – Heading Error was stationary at -3 or +3 degrees depending on the direction of travel on an AB line.

Mapping: Coverage Only Map – Issue caused the Coverage Map to overlap into previous coverage and create a gap out of previous coverage. Issue showed John Deere Section Control sections inconsistently turning off and on, that resulted in the Coverage Map and Rate Map not matching. The Rate Map and product placement were correct.

ISOBUS Sprayer Controller: Invalid Application Error – Certain ISOBUS Sprayer Controllers would receive Invalid Application message when loading to the GS3 2630 Display.

Prescriptions: Shapefile Conversion – Issue caused shapefile prescription conversions to fail. Failure message shows that the .dbf file is missing or corrupt. SU15-1 rejected invalid rate values within a Shapefile. Now, Shapefile conversions in GS3 2630 Display revert back to handling invalid rate values as zero rates.

Harvest ID Cotton: Files Overwritten – Issue caused Harvest ID, Cotton files to be overwritten when using one USB between multiple machines. Now, files are no longer overwritten and multiple HIDC files are saved in the FileServer folder.

GS3 2630 Display: Implement Detection – Implement name in Equipment Settings did not match the ISO Controller name in Message Center.

GS3 2630 Display: Implement Detection – Issue caused Status Error when setting up multiple GreenStar™ Rate Controllers on planters. Increased memory allows Implement Detection functionality reducing Status Errors.

GS3 2630 Display: Implement Detection – Issued caused implement offsets of zero to be sent to the planter controller when dashes were selected for the implement name.

GS3 2630 Display: Multiple Display Settings – In dual GS3 2630 Display configurations, when the corner post display (primary) is in Custom Multiple Display Mode and the display is then removed, the issue caused the armrest display (secondary) to not correctly re-boot into Single Display Mode.

GreenStar^{TM} 2 1800 Display: Display, AutoTrac^{TM}

GS2 1800 Display Compatibility Notes:
- SU15-2 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.

Resolved/Informational Items

Implement Setup – Implement name in Equipment Settings did not match the ISO Controller name in Message Center.

Implement Setup – Issue caused the GS2 1800 Display to not save Implement Width and Track Spacing after changing the values.

Display Programing – After updating or reprogramming the GS2 1800 Display, the Software Update screen prompted the user to remove USB before rebooting. On reboot, the display would generate a USB not found error. Now, display text has been updated to keep the USB in the display during reboot.

StarFire™ 3000 Receiver: Receiver, RTK, John Deere Mobile RTK

Update

StarFire™ Frequency Change – The internally stored frequencies on the StarFire™ 3000 have been updated to include the new frequency change that began in June 2015.
If StarFire™ 3000 receiver is not updated, new frequencies must be manually entered.

Region 3 Only The 900MHz RTK Radio Channel range now goes from 1 to 13.

Resolved/Informational Items

TCM Temperature Out of Range – DTC 523348.07 - This DTC should no longer trigger when operating within the normal operating range.

RS232 Output – A formatting error was corrected that prevented certain third party displays/controllers from recognizing NMEA GPS corrections from the receiver.

Region 2 Only **No communication with Mobile RTK Modem** – After startup the receiver will now properly send the messages required to recognize the modem regardless of previous configurations.

StarFire^{TM} iTC Receiver: Receiver

Update

StarFire™ Frequency Change – The internally stored frequencies on the StarFire iTC have been updated to include the new frequency change that began in June 2015.
If StarFire™ iTC receiver is not updated, new frequencies must be manually entered.

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

New Features:

Application Controller Enhancements – SCV threshold value entry method changed from utilizing a keypad to +/- buttons during valve extend and retract test.

SCV Threshold/Deadband Default from 250 to 5 – The factory default SCV threshold of 250 has been changed to 5 to prevent operation of implement when SCV threshold calibration has not been completed. Changes will only affect new controllers that have not been programmed.

Active Implement Guidance Specific Enhancements – Fore/Aft entry settings for the implement receiver. Enables operator to select GPS offset forward or backward and input the offset distance from the implement control point to implement receiver.

iGrade™ Specific Enhancements – The Load Limiting factory default for engine speed has changed from 1500 RPM to 1799 RPM. Changing to 1799 RPM better aligns with John Deere Diesel engine's peak torque speed. This change will improve the machine's ability to recover while the scraper is being raised once the load limiting RPM is met. SCV Threshold Setup will now display sensor voltage if using a potentiometer during calibration.

Application Controller 1120: John Deere Mobile Weather

Update

Displays wind speed – John Deere Mobile Weather displays wind speed information in whole digits in order to simplify data collection.

GreenStar™ Rate Controller, GreenStar™ Rate Controller Dry:

Update

Languages Added – GreenStar™ Rate Controller Dry (GDC) has been updated to include the following new languages: German, Dutch, Russian, Danish, and Hungarian.

New Features:

Additional diagnostic and troubleshooting – Features have been added including new diagnostic addresses for the Get Vehicle Information test.

Resolved/Informational Items:

This update also fixes – Issue with the rate controller disappearing from the display while updating controllers when the default language is set to Portuguese.

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.

Version #	Description
3.30.1232	**GreenStar™ 3 2630 Display**
2.8.1033	GreenStar™ 2 2600 Display
2.14.1036	**GreenStar™ 2 1800 Display**
GSD 1.97 B	Original GreenStar™ Display
ITC 2.20 M	**StarFire™ 3000 Receiver**
ITC 3.73 H	**StarFire™ iTC Receiver**
LCR 1.10 C	StarFire™ 300 Receiver
SF 7.70 B	StarFire™ Generation II Receiver
03B10	John Deere Mobile RTK Modem
1.10A	Machine Communication Radio
TCM 1.09 A	TCM
2.70 A	**Application Controller 1100 (iGrade™, John Deere Active Implement Guidance**
1.50 A	**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**
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™ Generation II