Generation 4 Displays
23-1 Software

Software Update

Package	Version
Generation 4 OS	10.25.2820-66
AMS Applications	10.25.2820-66

Generation 4 OS installation time: Approximately 20 minutes, with no existing data. Installation time will vary depending on the amount of existing data and the software version currently on the display. The latest packages for the Generation 4 Displays can be downloaded and installed over-the-air or using a USB drive and John Deere Software Manager. Reference "Software Installation Instructions" in the Software Updates section of the StellarSupport™ website for more information.

Over-the-air reprogramming -
https://youtu.be/XSG7O3_9KGI?list=PL1KGsSJ4CWk4fhvFOaBZz261XGwPfXvqk

Machine Application Software Updates

Machine applications are located under Machine Settings in the Generation 4 Display menu. A John Deere dealer will be required to install any required updates to machine application software using Service ADVISOR™.

Other Controller Software Updates

Software for the controllers listed below can be updated using the Generation 4 Display.

Controller
Application Controller 1100
Application Controller 1100 (S.N. PCXL01C201000-)
Application Controller 1120
Application Controller 1120 (S.N. PCXL02C201000-)
AutoTrac™ Universal 100
AutoTrac™ Universal 200
AutoTrac™ Universal 300
GreenStar™ Rate Controller Dry
GreenStar™ Rate Controller
StarFire™ 3000 Receiver
StarFire™ 6000 Receiver
StarFire™ 7000 Receiver
AutoTrac™ Vision Guidance Camera

Resolved Issues

The following issues are fixed in software update 10.25.2820-66:

General (May Apply to Multiple Field Operations)

- Generation 4 display is unable to export data onto a USB
- Generation 4 display is not sending correct tank mix data to Operations Center
- AutoPath™ multiple issues causing incorrect path planning:
  - Double lines
  - Poor headland planning
  - One row off in the headlands
  - Planning with slightly imperfect historical (source)/current widths
  - Missing some planned passes
  - Crash in reconstitution of AutoPath™ lines
  - Improve line creation for wide track spacing
- Display crashing after turning on guidance master while system is under stress
- This release contains important software security enhancements.

New Features and Improvements

AutoTrac™ Implement Guidance Compatibility with N500C Seeders:

Gen4 22-2 and newer software along with N500C Model Year 2023 software updates will now support AutoTrac™ Implement Guidance. Updating to Gen4 22-3 or newer software is highly recommended.

AutoPath™ Compatibility with Hagie Model Year 2014-2017:

Model year 2014-2017 Hagie self-propelled sprayers require a machine software update prior to using AutoPath™.

AutoPath™ (rows) Improved/Reduced Planning Time

- o Planning queue optimization leading to reduced path planning time

AutoPath™ (rows) Generation Method Persist for Field Planning

- o Users can now select generation method to persist field to field instead of always defaulting to Rows – optimize for fewest paths when changing fields
- o Added Persist toggle to the Edit AutoPath™ Page

AutoPath™ (rows) Show Direction of Source Travel
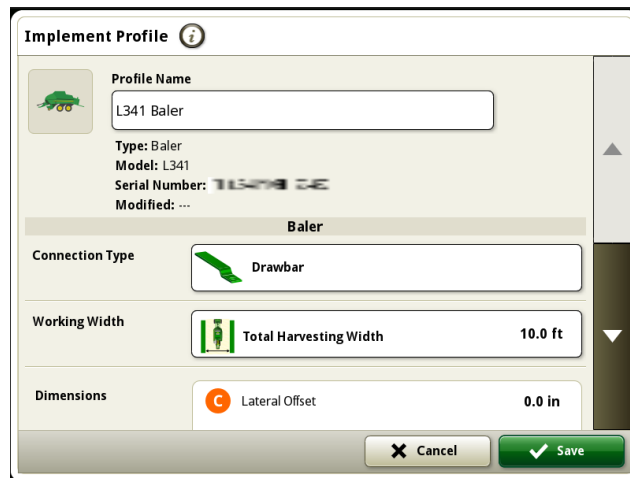
- o Added Source Direction Toggle to Map Details Page to show travel direction of the source pass (green)
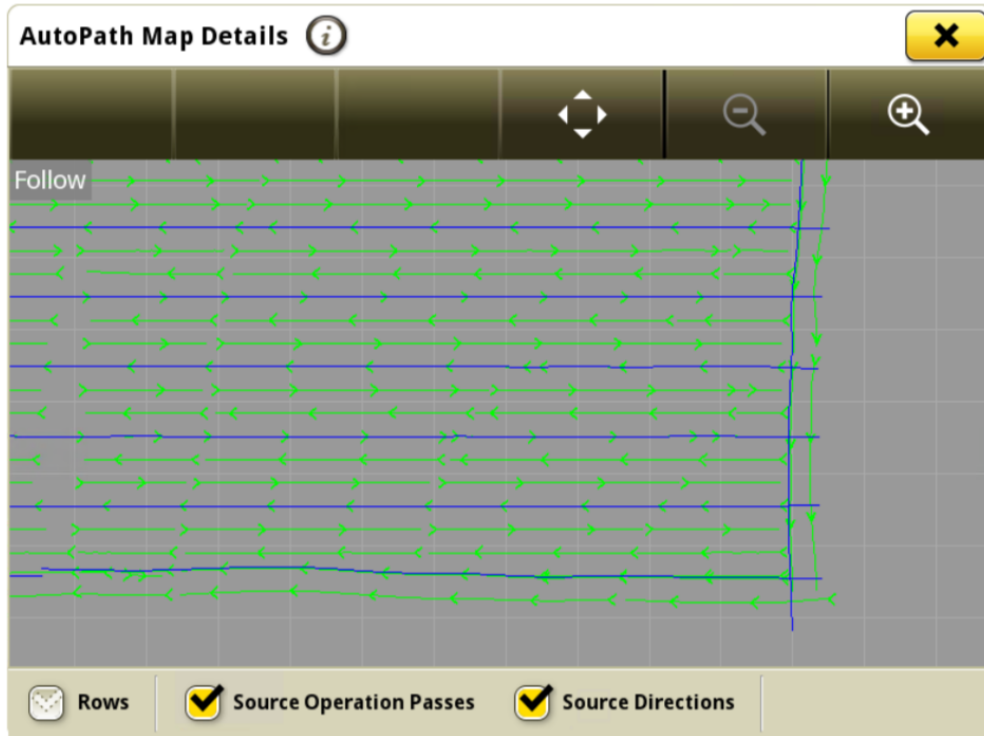
Large Square Baler

Generation 4 displays operating on Gen4 OS 23-1* and newer can now detect and document with attached Large Square Balers. Current compatibility will include the 1 Series Large Square Balers. Customers can now quickly set up their Large Square Baler equipment and have access on their display to numerous important data points about their baled crop. The data that is collected can be synced or manually uploaded to the customers Operations Center account.

*Displays compatible with 23-1 software include 4200, 4240, 4640, and 4600 V2
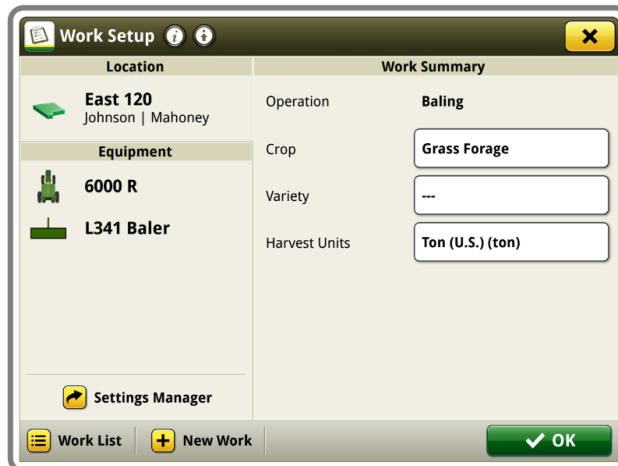
Equipment Manager – LSB

Starting with 23-1 software, customers can detect and easily set up their Large Square Baler equipment within Equipment Manager and Work Setup. Customers can assign crop types, varieties, and desired harvest units to the job in the field.

Documentation - LSB

Customers will now be able to accumulate and analyze data for their Large Square Baler operation with their Generation 4 display operating on 23-1 software. In each field the customer can identify how many bales they have made, the total weight of crop baled, and the average moisture readings for that crop, among many more attributes. Similar totals will also be available at the singular bale level displaying individual bale length, flake counts, average moisture, and more.

ISOBUS TaskController

ISOBUS Implements with non-linear booms will be supported starting with the 23-1 release Generation 4 OS. As soon as the implement ISOBUS TaskController connects through the CANBUS, communicating a Non-linear boom, the Generation 4 Display will show this non-linear boom structure. This structure can be seen in the mapping screen as well as within the Implement Profile.

*Non-linear boom is limited to five ranks currently.
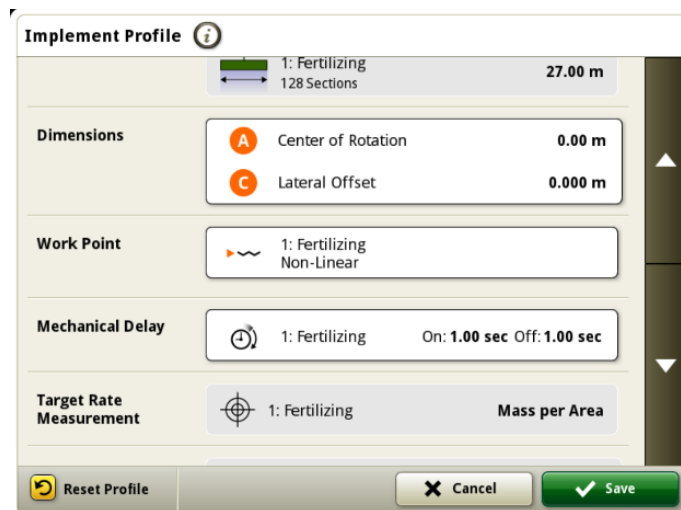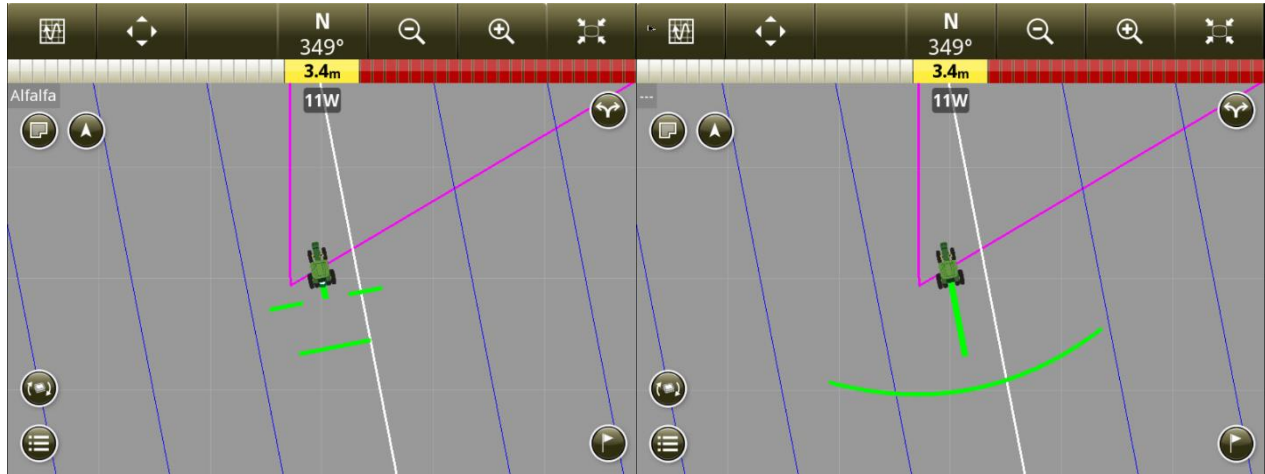
Data Sync Setup

With the introduction of Data Sync Setup customers will be able to automatically share data between all their machines and the Operations Center. Setup Data such as new Boundaries, Guidance Tracks, Products, or Flags can be automatically shared and synced with all enabled machines within seconds. Data Sync Setup can be enabled or disabled for selected machines within the Operations Center.


Data cleanup activities are highly recommended before syncing machines. What is listed as 'available' data entities will synchronize to machines when enabled. Any data on enabled machines that differ from the synchronized Operations Center list will be removed from the machines and backed up under 'Archive' in Operations Center. For a display to be compatible with Data Sync Setup it will need to be operating on Gen 4 Software version 22-2 or newer. Updating to 22-3 or newer software is highly recommended.

Disable Deletes with Data Sync Setup

To help reduce the accidental deletion of critical setup data, enabled displays will be unable to delete setup file types from the display. This action can still be performed in the Operations Center.
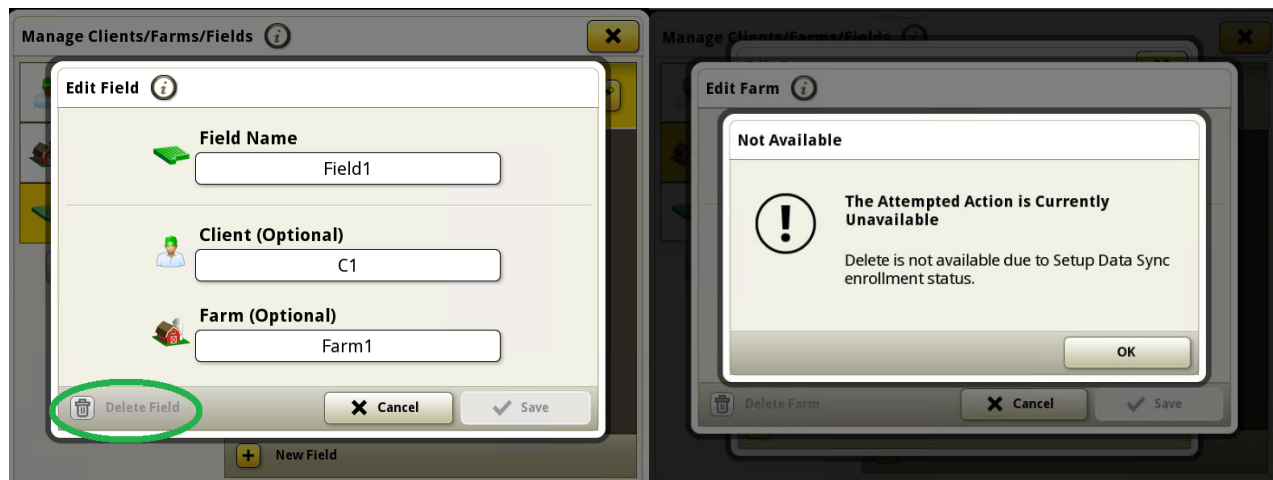
Variety Assignment for ISOBUS planters

Currently only Deere planters can assign varieties per row and non-Deere planters can only document a single variety. Variety assignment per row will now be available for non-Deere ISOBUS planting implements.
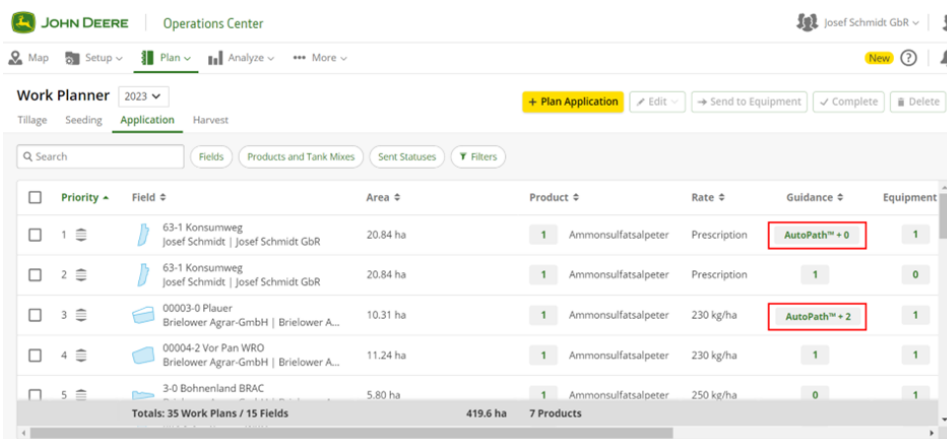
Automatically Select the Right AutoPath™ in the Display with Work Planner

Beginning of the year Work Planner integrated AutoPath™.

Whenever an AutoPath™ guidance plan is available in Operations Center, Work Planner shows this in the "Guidance" column in the work list, attaches it automatically to the work plan, and sends it to the John Deere Gen 4 display. Sending setup files to transfer AutoPath™ guidance plans is no longer necessary with using Work Planner but still can be used if needed.

The latest Gen 4 software release makes it easier for operators to begin field work. With the update to Gen 4 software version 23-1, AutoPath™ tracks sent to the display as part of a work plan are automatically selected and populated in the display when accepting work plans.

Operators no longer need to manually select the AutoPath™ guidance track to start field work. Selecting the wrong AutoPath™ is prevented, and field work can be started faster.

Up-To-Date Work Lists Across the Entire Fleet with Automatic Removal of Completed Work Plans

Work plans will automatically be removed from all connected displays after they have been completed, no matter which machine completes the work. Work plans manually completed or deleted in the Operations Center will be removed as well.

Additional Information and Training Resources

Operator's Manual

A copy of the Generation 4 display Operator's Manual is available within the Help Center application on the display with Generation 4 OS software version 10.16.1400-85 and newer. This content is updated with software updates as needed. Always read the latest Operator's Manual prior to operation. To obtain a copy of the Operator's Manual, see your dealer or visit techpubs.deere.com.

Onscreen Help ⓘ

Onscreen help supplements the information found in the Operator's Manual. The onscreen help can be referenced by opening the Help Center application on the display or by pressing the Information icon at the top of any page to view relevant help information for that page. Generation 4 Display Onscreen Help is also available for reference at displaysimulator.deere.com.

Training Simulators

To learn more about the Generation 4 Displays, there is an online training simulator available at displaysimulator.deere.com

Release Notice

These are Generation 4 OS and AMS Applications software update release notes for the Generation 4 Displays. Release notes can be found on www.stellarsupport.com. Note: Your use of the software is governed by the End User License Agreement included with the software.

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