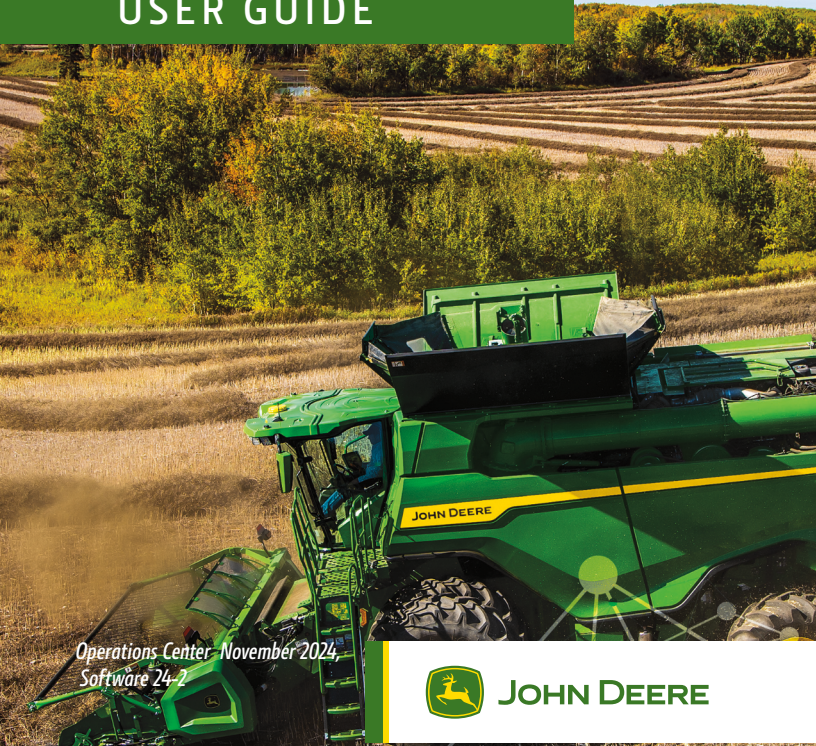
JOHN DEERE
PRECISION AG

USER GUIDE



Operations Center November 2024, Software 24.2

JOHN DEERE

Welcome to John Deere Precision Ag

You're on your way to an even smarter farming operation, fueled by data and powerful connections. We're here to help!

This guide will walk you through specific tasks, in John Deere Operations Center™ and in the cab, to take full advantage of Precision Ag technology.

SETUP: Set up and manage your entire farm, including equipment, fields, products, and team.

PLAN: Simplify in-cab setup and enhance data accuracy by planning work before operators begin field work.

IN THE CAB: Set up the display in-cab to ensure clean and accurate data collection.

MONITOR: Keep a pulse on your fields and equipment to ensure the right work is done at the right time, helping operators minimize mistakes.

ANALYZE: Evaluate your results once the work is done and use precise data to determine what worked best as you plan for next season.

This printed booklet is current as of its publication date, but Precision Ag is constantly changing and improving. To see the most current digital copy of this booklet, scan this QR code:

CONTENTS

The following apps are mentioned and can be utilized in some steps within this guide marked with an asterisk (*):

OPERATIONS CENTER MOBILE APP

EQUIPMENT MOBILE APP

CHECKLISTS

Get ready for the upcoming season. The following checklists will assist you in preparing for the growing season. Completing each action will ensure your operation is set up to take full advantage of the technology available.

- ∞ *Machine must have a connected modem*
- ≠ *Use USB transfer for non-connected machine*
- Δ *Must have an active Automation 4.0 or G5 Advanced License for your machine*
- ± *Must have an active CommandCenter™ Premium 3.0 or G5 Advanced License for your machine*

Tillage Checklist

✓	TASK	PAGE #
	In Operations Center before season:	
	Add your equipment and implements, including offsets	11-12
	Verify all the fields you will farm this season have been created	13
	Verify boundaries and headlands exist for all fields	14-15
	Verify guidance tracks exist for all fields	16
	Add fertilizers to products	19
	Verify all team members have been added with the proper permissions	22-26
	Create tillage Work Plans for all fields	33
	Send Work Plans to your equipment ∞ or export to a USB ≠	35-36
	In the cab:	
	Enable Data Sync - Work Data ∞	29
	Setup the display	42
	Setup the machine and implement	52
	Setup AutoTrac™ Turn Automation	55
	Setup AutoPath™ (Rows) Δ or AutoPath™ (Boundaries)	59
	Setup AutoTrac™ Implement Guidance Δ	64
	Setup In-Field Data Sharing if more than one machine will be working in the same field ±	71

Planting/Seeding Checklist

✓	TASK	PAGE #
	In Operations Center before season:	
	Add your equipment and implements, including offsets	11-12
	Verify all the fields you will farm this season have been created	13
	Verify boundaries and headlands exist for all fields	14-15
	Verify guidance tracks exist for all fields	16
	Add seed varieties, chemicals, and/or fertilizers to products	19
	Verify all team members have been added with the proper permissions	22-26
	Create planting/seeding Work Plans for all fields	33
	Send Work Plans to your equipment ∞ or export to a USB ≠	35-36
	In the cab:	
	Enable Data Sync - Work Data ∞	29
	Setup the display	42
	Setup the machine and implement	52
	Setup AutoTrac™ Turn Automation Δ	55
	Setup AutoPath™ (Rows) Δ or AutoPath™ (Boundaries)	59
	Setup AutoTrac™ Implement Guidance Δ	64
	Setup In-Field Data Sharing if more than one machine will be working in the same field ±	71

Application Checklist

✓	TASK	PAGE #
	In Operations Center before season:	
	Add your equipment and implements, including offsets	11-12
	Verify all the fields you will farm this season have been created	13
	Verify boundaries and headlands exist for all fields	14-15
	Verify guidance tracks exist for all fields	16
	Add chemicals and/or fertilizers to products	19
	Add tank mixes and/or dry blends	20-21
	Verify all team members have been added with the proper permissions	22-26
	Create application Work Plans for all fields	33
	Send Work Plans to your equipment ∞ or export to a USB ≠	35-36
	In the cab:	
	Enable Data Sync - Work Data ∞	29
	Setup the display	42
	Setup the machine and implement	52
	Setup AutoPath™ (Rows) Δ or AutoPath™ (Boundaries)	59
	Setup In-Field Data Sharing if more than one machine will be working in the same field ±	71

Harvest Checklist

✓	TASK	PAGE #
	In Operations Center before season:	
	Add your equipment and implements, including offsets	11-12
	Verify all the fields you will farm this season have been created	13
	Verify boundaries and headlands exist for all fields	14-15
	Verify guidance tracks exist for all fields	16
	Verify all team members have been added with the proper permissions	22-26
	Create harvest Work Plans for all fields	33
	Send Work Plans to your equipment ∞ or export to a USB ≠	35-36
	In the cab:	
	Enable Data Sync - Work Data ∞	29
	Setup the display	42
	Setup the machine and implement	52
	Setup AutoTrac™ Turn Automation Δ	55
	Setup AutoPath™ (Rows) Δ or AutoPath™ (Boundaries)	59
	Setup Machine Sync Δ	66
	Setup In-Field Data Sharing if more than one machine will be working in the same field ±	71

SETUP

Set up your organization with the correct equipment, land, products, and connections to ensure data accuracy. Spend time up front to create a solid foundation to maximize the value of planning, monitoring, and analysis tools within Operations Center.

* *ALL TASK INSTRUCTIONS ARE FOR USE THROUGH A WEB BROWSER UNLESS OTHERWISE MARKED FOR MOBILE.*

Create an Operations Center Account

1. Go to OperationsCenter.Deere.com in your web browser
2. Click **Create an Account**
3. Select the **Category** and **Focus** that describes your operation
4. Enter your **Username** and **Email Address**, then click **Submit for Email Verification**
5. Enter the **Verification Code** that was sent to your email account, then click **Verify Email**
6. Enter your **Personal Information**, then click **Next Step**: **Create Password**
7. Enter a **Password**, re-enter your **Password** to confirm it, then click **Create Password**
8. Enter your **Organization Name**, then click **Next**
9. Read the Terms and Conditions, check the box to agree to them, then click **Next**
10. Enter **Equipment Serial Number**, then click **Add Equipment** or click **Add Equipment Later**
11. Read the JDLink Telematics Service Agreement, check the box to agree to it, then click **Accept**
12. Select your **John Deere Dealer** and enable or disable data sharing with your dealer, then click **Complete Setup**
13. Click **Done**

Introduction to Operations Center Web

Add Equipment

Manage machines, implements, and devices in one place.

1. Click **Setup** > **Equipment**
2. Select the **Machines**, **Implement**, or **Devices** tab
3. Click **+Add**
4. Enter **Serial Number**
5. Enter **Name** and **Model**
6. Enter **Modem** (optional)
7. Click **Add Equipment**
8. Click **Add Additional Equipment** or click **Done**

NOTE: Your dealership can help transfer equipment and modems into your organization. A modem is required to enable Wireless Data Transfer and Remote Display Access capability.

Setting Up Your Equipment

OPERATIONS CENTER MOBILE

1. Click **Setup** > **Equipment** > **+**
2. Enter or scan **Serial Number**
3. Enter **Name** and **Model**
4. Enter **Modem** (optional)
5. Click **Add Equipment**

EQUIPMENT MOBILE

1. Click **+**
2. Click Scan Barcode or Add Mannually
3. Enter **Name**, **Model**, and **Modem** and click **Add Equipment**

Setup Equipment and Implement Offsets

Ensure work is documented accurately and automation features like AutoTrac™ are ready for use.

1. Click **Setup** > **Equipment**
2. Select the **Machines** or **Implements**, then select the **Equipment** you want to modify
3. In the pop-up, select the **Characteristics**, then click **Edit**
4. Modify characteristics as necessary
5. Click **Save**

EQUIPMENT MOBILE

1. Click **Machines** or **Implements** tab
2. Select the specific **Machine** or **Implement**
3. Select a **Tool** under the **Resources** tab
4. Complete the checklist to start a test and click **Continue**

Create a Field

Ensure documentation data is recorded using the same name across all machines for easy sorting and analysis in Operations Center.

1. Click **Setup** > **Land** > **+Add**
2. Select **Field** as location type
3. Select your **Client** or click **Add New Client**
4. Select your **Farm** or click **Add New Farm**
5. Enter the **Field**
6. Click **Save**

Setting Up Your Land

OPERATIONS CENTER MOBILE

1. Click **Setup** > **Land** > **+**
2. Enter **Field**
3. Select your **Client** or click **Add Client**
4. Select your **Farm** or click **Add Farm**
5. Select your **Boundary** (optional)
6. Click **Save**

Create a Boundary from Previous Operation

Enable easier utilization of precision ag technologies.

1. Click **Setup** > **Land** > **+Add**
2. Select **Boundary** as the location type
3. Select from **Previous Operation**
4. Select the **Field**, then click **Next**
5. Enter a **Boundary Name**
6. Select the **Operation** that created the boundary
7. Click **Save**

Use the Field Boundaries Guide to determine accuracy and uses of each boundary type

Create a Boundary by Drawing

Denote location of fields for team communications.

1. Click **Setup** > **Land** > **+Add**
2. Select **Boundary** as the location type
3. Select **Draw new**
4. Select the **Field** to associate the boundary, then click **Next**
5. Enter a **Boundary Name**, select **Boundary Status** and **Irrigation**
6. Click **Draw Polygon**, **Draw Circle**, or **Draw Rectangle** buttons on the right side of the map to draw a border around your field
7. If applicable, click **Add Interior Shape**, then use the drawing tools to draw any interior boundaries
8. Click **Save**

NOTE: Boundaries created by drawing are not recommended, and in some cases, cannot be used for certain technology offerings due to accuracy requirements.

TIP: Refer to the "Create a Boundary by Driving" section on page 46 for detailed instructions on creating a driven boundary.

Add Field Headlands

Manage your headlands offboard and share them across the fleet.

1. Click **Setup** > **Land**
2. Click the **Boundaries** tab, then click on the **Field Boundary**
3. Under Exterior, select **Headland**, then select the **Headland Type**
   - For Constant Offset, enter **Offset**
   - For Top & Bottom Offset, enter **Heading Angle**, **Top Offset**, and **Bottom Offset**
4. Click **Save**

TIP: Headland management in Operations Center makes it easy to benefit from Section Control, AutoTrac™ Turn Automation, and AutoPath™.

Create a Guidance Track

Improve work efficiencies and accuracy by better controlling equipment.

1. Click **Setup** > **Land** > **+Add**
2. Select **Track** as the location type
3. Select **Straight Track** or **Circle Track**
4. Select the **Field** the track is associated with, then enter in **implement track spacing**
5. Click **Next**
6. Enter **Track Name**
7. Check **Enable Snap to Boundary** box
8. Draw your track on the map
9. Click **Save**

Create an AutoPath™ (Boundaries) Guidance Track

Create a full field of guidance tracks, plus find the perfect first pass through the field and eliminate one or more passes through your field.

1. Click **Setup** > **Land** > **Guidance** > **+Add**
2. Select **AutoPath** (Boundaries) and the field to associate the **AutoPath** with
3. Enter the track spacing, then click **Next**
4. Enter the AutoPath Plan Name
5. Select the Method, the enter or select the desired heading angle, boundary line, or existing track
6. Select Headland or Field Track Shifts (optional)
7. Click **Save**

NOTE: If the field has no headland information, you will be prompted to enter the headland information prior to the start of Step 4.

NOTE: Multiple AutoPath™ (Boundaries) guidance tracks can exists for the same field boundary.

Add a Flag

Highlight in-field obstacles and crop conditions.

1. Click **Setup** > **Land** > **+Add**
2. Select **Flag** as location type
3. Select **Flag Type** and **Field Associated**, then click **Next**
4. Select **Flag Category** or click **Edit Flag Categories**
5. Click on the **map** to drop flag
6. Enter **Notes** (optional)
7. Click **Save**

OPERATIONS CENTER MOBILE

1. Click **Map** > **Flag+** icon
2. Click on the map to drop flag
3. Select **Category** or click **+Add** to create a new flag category and custom flag color
4. Select **Field**, and enter **Notes**
5. Add a **photo** (optional)
6. Click **Save**

Add a Product

Manage all inputs (seed varieties, fertilizers, chemicals) used in your operation for accurate documentation.

1. Click **Setup** > **Products** > **+Add** > **Products**
2. Search for desired product by **name**, **crop type**, or **brand**
3. Select the **product** you want to add
4. Click **Add Product**

Part 1 Part 2

Setting Up Your Products - Part 1

Setting Up Your Products - Part 2

OPERATIONS CENTER MOBILE

1. Click **Setup** > **Products** > **Varieties / Chemicals / Fertilizers** > **+**
2. Enter **Product Name** in the search bar
3. Select the **Product**, then click **Add**
4. If not found, click **+ Add Custom Variety / Chemical / Fertilizer**, enter additional details, then click **Save**

Add a Tank Mix

Plan product totals by tank or by area and document accurate product rates.

1. Click **Setup** > **Products** > **+Add** > **Tank Mix**
2. Enter **Name**
3. Select **Target Crops**, enter **Overall Application Rate** and **Tank Size**
4. Enter **Notes** (optional)
5. Click **Select Products**, select the **Product(s)** to include, then click **Save Products**
6. Select the **Carrier**
7. Enter **Application Rate** or **Amount per Tank** for each product
8. Click **Save Tank Mix**

OPERATIONS CENTER MOBILE

1. Click **Setup** > **Products** > **Tank Mixes** > **+**
2. Enter **Name**
3. Select **Target Crops**, enter **Overall Application Rate** and **Tank Size**
4. Click **Select Products**, select the **Product(s)** to include, then click **Next**
5. Enter **Application Rate** for each product
6. Select **Carrier**
7. Enter **Notes** (optional)
8. Click **Save**

Add a Dry Blend

Get accurate calculations of each product in the blend, as well as accurate documentation of your applications.

1. Click **Setup** > **Products** > **+ Add** > **Dry Blend**
2. Enter **Name**
3. Select **Target Crops**, enter **Area to Apply**
4. Enter **Notes** (optional)
5. Click **Select Products**, click the **Products** to include, then click **Save Products**
6. Select **Input by Application Rate** or **Input by Amount**
7. Enter **Application Rate** or **Product Amount** for each product
8. Click **Save Dry Blend**

OPERATIONS CENTER MOBILE

1. Click **Setup** > **Products** > **Dry Blend** > **+ Add**
2. Enter **Name**
3. Select **Target Crops**
4. Click **Select Products**, click the **Product(s)** to include, then click **Next**
5. Enter **Application Rate** or **Product Amount** for each product
6. Enter **Notes** (optional)
7. Click **Save**

Add a Staff Member

Add personnel to help run your organization.

1. Click **Setup** > **Team** > **+Add** > **Staff Member**
2. Enter the **Staff Member Email Address**, select the **check box** if they'll also be an operator and enter **Operator Name** and **Operator License** (optional), then click **Next**
3. Select the appropriate **Access Levels**, then click **Next**
4. **Assign partners** that the staff member can work with, then click **Done**


Setting Up Your Team

OPERATIONS CENTER MOBILE

1. Click **Setup** > **Team** > **Staff** > **+**
2. Enter the **Staff Member Email Address**, select the **check box** if they'll also be an operator and enter **Operator Name** and **Operator License** (optional), then click Next
3. Select the appropriate **Access Levels**, then click **Next**
4. **Assign partners** that the staff member can work with, then click **Done**

Add an Operator

Add operators to your organization if you have team members who do work for you, but do not necessarily need access to your organization in Operations Center.

1. Click **Setup** > **Team** > **+Add** > **Operator**
2. Select a **Staff Member** from the dropdown menu or click **Add New Operator**
3. Enter **Operator Name** and **Operator License** (optional)
4. Click **Save**

OPERATIONS CENTER MOBILE

1. Click **Setup** > **Team** > **Operators** > **+**
2. Enter the **Operator Name**
3. Enter **Operator License** (optional)
4. Click **Save**

Add a Partnered Organization

Allow trusted advisors to support your organization more efficiently.

1. Click **Setup** > **Team** > **+Add** > **Partner Organization**
2. Select **Grant Access** or **Receive Access**, enter the **Partner Organization's Email Address**, then click **Next**
3. Select the desired **Access Levels**, then click **Next**
4. Click **Done**

OPERATIONS CENTER MOBILE

1. Click **Setup** > **Team** > **Partners** > **+**
2. Select **Grant Access** or **Receive Access**, enter the **Partner Organization's Email Address**, then click **Next**
3. Select the desired **Access Levels**, then click **Next**
4. Click **Done**

Add a Dealer

Enable proactive service, customized support, insights, and training.

1. Click **Setup** > **Team** > **+Add** > **Dealer**
2. Click **Select Dealer**, then search for your dealership
3. Find the correct store location, then click **Select Dealer**
4. If you would like to share data with this dealer, select **Yes**
   - Click **Next**, then select the desired **Access Levels**, then click **Next**, then click **Done**
5. If you do not want to share data with this dealer, select **No**, then click **Done**

OPERATIONS CENTER MOBILE

1. Click **Setup** > **Team** > **Dealers** > **+**
2. Select **Grant Access** or **Receive Access**, enter the **Partner Organization's Email Address**, then click **Next**
3. Select the desired **Access Levels**, then click **Next**
4. Click **Done**

Edit Team Access Level

Control who has access and how much access they have to your organization.

1. Click **Setup** > **Team**
2. Click on the **Staff**, **Partner**, or **Dealer** you want to change access for
3. Click **Access**, then click **Edit**
4. Modify **Access Levels** as desired
5. Click **Save**

Suggested Access Levels by Role

Role	Equipment	Organization	Location	Work
Farm Manager / Owner / Administrator	Level 3 + RDA + WDT and Setup	Level 2	Level 3	Level 2
Agronomist	Level 1 + RDA (WDT and Setup Optional)	Level 1	Level 3	Level 2
Technician	Level 2 + RDA	Level 1	Level 1	Level 0

Enable AutoPath™

Allow Operations Center to process and create AutoPath™ lines.

1. Click on **Organization Name**, then click the **gear symbol**
2. Select **Feature Enablement** tab, then click the **toggle** to enable AutoPath™

Create a New Setup File

Define work details for more accurate documentation and less setup time in the field.

1. Click **Setup** > **Setup File Creator**
2. Select **Display Type**, enter a **File Name**, select from **Create New** or **Create from Existing**, then click **Start**
3. Select the **land features** that you'd like to include, then click **Next**
4. Select the **machines and implements** in their respective tabs, then click **Next**
5. Select **products and/or mixes** from their respective tabs, then click **Next**
6. Select the **operators** (optional), then click **Next**
7. Click **Create File**
8. If your machine has Wireless Data Transfer (WDT), click **Create and Send**
9. If you manually transfer files via USB, click **Create Without Sending**

Creating a Setup File

Send Setup Files to Equipment using Wireless Data Transfer

Requirement: JDLink™ connected machine

Send defined work details to machine display(s) remotely from your computer to aid in clean data collection.

1. Click **...More** > **Files**
2. Select the **setup files** you want to send
3. Click **Transfer to Equipment**
4. Select the **machines** you want to send files to, then click **Transfer**

Export a Setup File to USB

Load defined work details to machine display(s) to aid in clean data collection.

1. Click **...More** > **Files**
2. Select the **setup files** you'd like to download, then click **Download**
3. Select your **USB drive** as the download location and click **Download**
4. Retrieve your **file** and move to a **USB drive**

TIP: Talk to your local John Deere dealer to equip your machine with a modem to enable Wireless Data Transfer.

Add a Connection

Minimize the need to manually import/export data or use multiple software platforms to manage your operation.

1. Click **Setup** > **Connections**
2. Search for the company or software you'd like to connect, click **Learn More** then click **Connect**
3. Each connection is different, but you'll have to select **Connect**, then click **Login** on the connected software's platform and click **Agree** to connect your accounts

Use Data Sync

Sync setup information between Operations Center and the enabled displays in the fleet, ensuring accurate setup data across an organization.

1. Review the data before syncing to ensure it is clean and accurate.
2. Click **Setup** > **Data Sync**
3. Read the overview to understand how Data Sync works, then click **Next**
4. Review the organization's setup data, then click **Next**
5. Select the **Import Settings**, then click **Next**
6. Select the **displays** you want to enable Data Sync on, then click **Enable Displays**

Data Sync Help Documentation

Create a Geofence and Curfew

Get notified when equipment leaves its defined location or works outside its designated times.

1. Click **Setup** > **Geofences and Curfews**
2. Click **+** next to Create New
3. Enter **Name**
4. Click the **Pointer** or **Rectangle** button, then draw the **Geofence shape** on the map
5. Select the **alerts** you want enabled
6. Click **+** to add Operating Time Frame and enter the **Day** and **Time**
7. Select **machines** you want the geofence to apply to
8. Click **Save**

Update Display Software

To access the latest features and enhancements, ensure your display software is updated to the latest version.

Start in Operations Center

1. Click **More** > **John Deere Software Manager**
2. Click **Download**
3. Open file > **Save to USB**

Plug USB into the Display

1. Click **Menu** > **System** > **Software Manager**
2. Select **Install** from USB drive
3. View updates for the display > **Next**
4. Select the update within the list
5. Click **Install**

NOTE: If you want to review the release notes, compatibility information, or installment instructions visit https://www.deere.com/en/stellarsupport/.

PLAN

Plan work to collect high-quality data, save time, and reduce operator mistakes in the field. Spend more time working in the field and less time setting up the display to document work.

* *ALL TASK INSTRUCTIONS ARE FOR USE THROUGH A WEB BROWSER UNLESS OTHERWISE MARKED FOR MOBILE.*

Create a Work Plan

Requirement: Gen 4 and newer displays

Define and automatically populate work details for more accurate documentation and less setup time in the field.

1. Click **Plan** > **Work Planner**
2. Select **Year** and **Work Type** you want to plan, then click **+Plan**
3. Select the **field(s)** you want to plan for, then click **Next**
4. Add all **work details** possible
5. Click **Save**

OPERATIONS CENTER MOBILE

1. Click **Plan**
2. Select **Year** and **Work Type**, then click **+**
3. Select the **field(s)** you want to plan work for, then click **Next**
4. Add all **work details** possible
5. Click **Save work**

Using Work Planner

Edit a Work Plan

Update work details as plans change to ensure accurate documentation.

1. Click **Plan** > **Work Planner**
2. Select the **Year** and **Work Type**
3. Click on the **Work Plan** you want to edit
4. Modify **work details** as needed, then click **Save**
5. If the Work Plan was already pushed to the machine, **resend** the Work Plan to the machine

OPERATIONS CENTER MOBILE

1. Click **Plan**
2. Select the **Year** and **Work Type**
3. Expand the Work Plan you want to edit, then click **Edit Work**
4. Modify **work details** as needed, then click **Save Work**
5. If the Work Plan was already pushed to the machine, **resend** the Work Plan to the machine

Send Work Plans to Equipment using Wireless Data Transfer

Requirement: JDLink™ connected machine

Send defined work details to machine display(s) remotely to eliminate the need for thumb drives.

1. Click **Plan** > **Work Planner**
2. Select **Year** and **Work Type**
3. Select the **Work Plan(s)** you want to send
4. Click **Send to Equipment**
5. Select the **machine(s)** you want to send Work Plans to, then click **Send**

OPERATIONS CENTER MOBILE

1. Click **Plan**
2. Select **Year** and **Work Type**
3. Select the **Work Plan(s)** you want to send, then click **Send**
4. Select the **machine(s)** to send Work Plans to, then click **Next**
5. Click **Send**

Export a Work Plan to USB

Load Work Plans with work details on machine display(s) to increase documentation accuracy for non-connected equipment.

1. Click **Plan** > **Work Planner**
2. Select **Year** and **Work Type**
3. Select the **Work Plan(s)** you want to export
4. Click **Send to Equipment** > **Send**
5. Click **More** > **Files**
6. Select **Work Plan**, click **Download**
7. Select the **Work Plan .zip** files, click **Download**, select the **download location**, then click **Download**
8. Retrieve the file from the **selected location** and move to a **USB drive**

Create an Application, Seeding, or Tillage Prescription

Requirement: variable rate compatible equipment, product(s) added prior to launching TELUS Agronomy Prescription Creator

Optimize the placement of inputs, reducing unnecessary expenses in historically lower-yielding areas of the field while maximizing economic benefit in high-performing areas.

1. Click **Plan** > **TELUS Agronomy Prescription Creator**
2. Select **Prescription Type**
3. Select **Organization**, **Client**, **Farm**, **Field**, and **Field Boundary**
4. Select your **Prescription Source** and **necessary information**, then click **Next**
5. Manually edit **zones**, **merge zones**, and **add operation specific information**
6. Click **Save**, then **Save and Close**

Creating Prescriptions

Create a Factory Maintenance Plan

Keep your crew running when it matters most by properly maintaining your equipment.

1. Click **Plan** > **Maintenance**
2. Within the section Machines Without a Maintenance Plan, select the specific Machine or Implement that needs a maintenance plan.
3. Click **+Add** dropdown and choose Factory Plan
4. Enter Plan Name, Estimated Annual Usage, Plan Start Hours, Machine Age, Plan Start Date, Plan Length and Machine Options, then click **Next**.
5. To create a custom interval, click **+ Add** Interval. Input Task information, then click Add **Interval & Task.**
6. To modify existing intervals, use the **+** button to add custom tasks, the pencil icon to edit interval, or the trash can icon to delete items in the plan.
7. Click **Enroll Plan**

NOTE: Factory maintenance plans are only available on John Deere equipment.

EQUIPMENT MOBILE

1. Click Machine tab and select the specific machine you want to apply a factory plan to
2. Select Maintenance tab and click Maintenance on web
3. Enter Plan Name, Estimated Annual Usage, Plan Start Hours, Machine Age, Plan Start Date, Plan Length and Machine Options, then click Next.
4. To add a custom interval, click + Add Interval at the top of the screen. Input Task information, then click Add Interval & Task.
5. To modify existing intervals use the + button to add custom tasks, the pencil icon to edit interval or plans as needed, or the trash can icon to delete items in the plan.
6. Click Enroll Plan

NOTE: Maintenance plans sync between Operations Center and Equipment Mobile.

NOTE: Sign in to Equipment Mobile with your Operation Center username and password.

Order Machine Specific Parts

John Deere Equipment Mobile connects directly to the parts catalog, ensuring quick and efficient ordering to minimize downtime and maintain optimal equipment performance.

1. Select **machine**
2. Under Resources click View **Diagram** and **Order Parts**
3. Search for part within search bar or browse parts sections > click on **section**
4. Select part and enter quantity then click **Add to Cart**
5. Click on cart icon > click **Proceed** to **Checkout**
6. Select dealer and click **Continue** to **Checkout**

NOTE: Browse other Precision Technology resources in Equipment Mobile.

IN THE CAB

Set up your display properly to ensure you can take full advantage of the technology suite that is available to you. Make sure you understand what technology is available for you to use on all your equipment.

Display Setup

Set up your display and input the correct information to collect clean and accurate data.

TIP: Enable Data Sync and utilize Work Planner to minimize the amount of setup work required in the cab.

Select Client/Farm/Field

1. Click **Menu** > **Applications** > **Work Setup**
2. Click under **Location**, select the correct **Client, Farm, Field**, then click **OK**

If your Client, Farm, or Field is not listed, follow steps 3-10.

3. Click **View All**
4. For a new client, click **Client** > **Edit Clients** > **New Client**
5. Enter **Client Name**, then click **OK**
6. For a new farm, click **Farm** > **Edit Farms** > **New Farm**
7. Enter **Farm Name**, then click **OK**
8. Click **Save**
9. For a new field, click **Field** > **New Field**
10. Enter **Field Name**, then click **OK**
11. Click **Save**, then **OK**

Setup Equipment

1. Click **Menu** > **Applications** > **Work Setup**
2. Click **Equipment**, then click the **Machine Profile**
3. Fill out the **Machine Profile** by editing any white boxes
4. Click **Save**

Setup Implement

1. Click **Menu** > **Applications** > **Work Setup**
2. Click **Equipment**, then click the **Implement Profile**
3. Fill out the **Implement Profile** by editing any white boxes
4. Click **Save**

NOTE: If your implement doesn't have an ISOBUS (wiring harness) connection, you'll set up a virtual implement by selecting Add Implement and following the on-screen steps.

Setup Work Details

Operator

1. Click **Menu** > **Applications** > **Work Setup**
2. Click the **image of a person** under Details
3. Select the **Operator's Name**, then click **OK**

If Operator Name isn't listed, add a new Operator by following steps 4-7.

4. Click **Add Operator**
5. Click the white box by **Name**, enter **Operator Name**, then click **OK**
6. Click the white box by **License**, enter **License Number**, then click **OK** (optional)
7. Click **Save**

Season

1. Click the **Season** under Details
2. Click **Left** or **Right Arrows** to select the year, then click **OK**

Create a Boundary by Driving

1. Drive to the starting point of the boundary
2. Click **Menu** > **Applications** > **Fields & Boundaries**
3. Click **Create Boundary**
4. Click **Create Driven Boundaries**
5. Click **OK**
6. Click white box under **Name** and enter **boundary name**, then click **OK**
7. Choose the **Offset Point** based on if the Machine GPS or Implement GPS will be used as the reference point for recording.
8. Click the **arrow** to set the offset location to the left of right.
9. Enter the **boundary offset** and click **OK**
10. Review boundary recording prerequisites on the details page to ensure requirements are met if trying to achieve an autonomy quality boundary.
11. Click **OK** to **Start Recording**
12. Drive the boundary and click **Save**

Use the Field Boundaries Guide to determine accuracy and uses of each boundary type

Select or Create Guidance Track/AutoPath™ Lines

1. Click **Menu** > **Applications** > **AutoTrac™ Guidance**
2. Click **Set Track**
3. Select a **track** from the available list and click **OK**

To create new Track, complete steps 4-8.
To create a New Track Set, follow steps 9-13.

4. Click **New Track**
5. Select the **Guidance Method**
6. To change the name of the track, click the pencil under **Track Name** and click **OK**
7. Verify the **Field** and **Guidance Line Calculation**, then click **OK**
8. Follow the instructions in the red box to **Record a New Track**
9. Click **New Track Set**
10. To change the name of the track set, click the pencil under **Track Set Name** and click **OK**
11. Click **Add Track**
12. Select **track** from list and click **Save**
13. Repeat until you have added each track you would like to add

Work Summary - Tillage

1. Click **Menu** > **Applications** > **Work Setup**
2. Click into the box of the ground engaging component
3. To set your target rate or use a prescription, click **white box** next to **Target Rate/Rx**
4. If using a controller rate, click **Set** and fill out appropriate information
5. If using a prescription, click into the **white box** next to **Rx**
6. Select the **correct prescription**
7. Click **OK**
8. Verify information and click **Save**
9. Verify information and click **X**

Work Summary - Planting

1. Click **Menu** > **Applications** > **Work Setup**
2. To edit your crop type, click the white box next to **Crop**
3. Find your crop in the list, select it, then click **OK**
4. To add the variety, click the white box next to **Variety**
5. Add up to six **varieties** by clicking into the white box **Single**, **Dual**, or **Custom** boxes and typing in the variety, then click **OK**
6. For Custom, after entering the variety name, check the boxes to **assign the variety** to the appropriate rows
7. Click **Target Rate/Rx**
8. If using a controller rate, click **Set** and fill out appropriate information
9. If using an **Rx**, click into white box
10. Select the **correct prescription**
11. Click **OK**
12. Verify information and click **Save**

Work Summary - Application

1. Click **Menu** > **Applications** > **Work Setup**
2. To edit your crop type, click the white box next to **Crop**
3. Find your crop in **All Crops** list, select it, then click **OK**
4. Select **Single Product** or **Tank Mix**

If applying a single product, complete steps 5-11.
If using a tank mix, complete steps 12-18.

5. If using a single product, click the circle next to **Single Product**
6. Click white box next to **Product Name**
7. If on the pre-populated list, select the **product** you are applying from list and click **OK**
8. If product is not on the pre-populated list, click **All Products**
9. Select the **Product Type**
10. Select the **product** you are applying from the **Product Name**
11. Click **OK**
12. If using a tank mix, click the circle next to **Tank Mix**
13. If tank mix is not on the pre-populated list, click **New Tank Mix**
14. Enter **Tank Mix Name** and click **Next**
15. Enter **Tank Mix Rate** and ensure you have selected the correct units, then click **OK**
16. Select your **carrier**, then click **OK**
17. Click **Add Product** to add all other products in your **Tank Mix** (refer to steps 9-11) after clicking **+ Add Product**
18. Click **OK**

Work Summary - Harvest

1. Click **Menu** > **Applications** > **Work Setup**
2. To edit your crop type, click the white box next to **Crop**
3. Find your crop in the list, select it, then click **OK**
4. To add the variety, click the white box next to **Variety**

If harvesting a single variety, complete steps 5-8 and 13.
If using a Variety Locator Map, complete steps 9-13.

5. For single variety, click the white box next to **Single Variety**
6. If on the pre-populated list, select the variety you are harvesting and click **OK**
7. If product is not on the pre-populated list, click **Add Variety** and enter variety name, then click **OK**
8. Click **OK**
9. For **Variety Locator Map**, click the white box next to **Variety Locator Map**
10. Click the white box under **Variety Map**
11. Select the correct **variety map** from list
12. Click **OK** three times to return to Work Setup Menu
13. Select the **Harvest Unit**, then click **OK**

Edit Shortcut Bars

1. Click **Menu** > **Applications** > **Layout Manager**
2. Click **Shortcut Bars**
3. Click **Create New Shortcut Bar** or edit the **Default Shortcut Bar** by clicking the **pencil**
4. Follow the on-screen instructions to **add a new shortcut**, **move existing shortcuts to a new area** or **remove shortcuts**
5. Click **Save**

NOTE: The AutoPath™ recording indicator (located under the Work Setup application) is one of many shortcuts that can be added.

Enable Data Sync on Work Data

Use Operations Center to automatically transfer data between displays and John Deere Operations Center. Data is transferred using cellular signal through the modular telematics gateway (MTG) or a wireless internet connection.

1. Click **Menu** > **System** > **File Manager**
2. Click **Operations Center**
3. Check that under **Data Sync** - Work Data that the green light is illuminated, and the box is checked to sync data to and/or from Operations Center.

NOTE: Operations Center requires a Modem, built-in Wi-Fi with internet access, or a wireless USB adapter with internet access.

Machine and Implement Setup

Ensure you input the correct measurements and calibrated your machine and implements to gather accurate data.

Perform Machine Measurements and Calibrations

1. Complete the relevant measurements from the list below and input into the **Machine Profile** or **Implement Profile**
   - Working Width (Number of Rows and Row Width)
   - GPS Lateral Offsets
   - Pivot Offsets
   - GPS Height and Fore/Aft
   - Center of Rotation
2. Perform a TCM Calibration by clicking **Menu** > **Applications** > **StarFire™** > **Advanced TCM Calibration** > **Begin Calibration**
3. Follow the on-screen instructions

StarFire™ Advanced TCM Calibration

Add Implement Receiver

1. Click **Menu** > **Applications** > **Work Setup**
2. Click **Equipment**
3. Click into the **Implement Profile**
4. Scroll to **Implement Receiver**
5. Click **Add Receiver Mount**
6. Enter your **Lateral Offset** and **Inline Offset**
7. Ensure a **GPS Receiver** is selected
8. Click **OK**
9. Toggle Implement Guidance **ON**
10. Return to **Menu**
11. Click **Applications** > **StarFire™**
12. Click into **Connected Receiver**
13. Click **Setup**
14. Enter **Fore/Aft** and **Height** measurements
15. Click **X**
16. Perform a **TCM Calibration** (see page 53)

Setup Rate Controllers

1. After display boots, wait for the Equipment Detected pop up and click **Next** to begin setup
2. Click **Add Implement** and select the **Implement Profile**, then click **OK**
3. Select the **Implement** from the Connected Equipment list and click **OK**
4. Modify settings within **Implement Profile** as needed and click **Save**
5. Monitor performance and adjust settings by clicking **Menu** > **Applications** > **ISOBUS VT**

TIP: Create an ISOBUS VT run page to easily access performance and settings.

AutoTrac™ Turn Automation (ATTA)

Increase operator efficiency and precision by planning and executing accurate and consistent turns pass after pass.

AutoTrac™ Turn Automation Display Setup

Complete Required Display and Equipment Setup

1. Measure and enter all **machine and implement dimensions** (see page 53)
2. Perform a **TCM calibration** (see page 53)
3. Enter **Client / Farm / Field** (see page 43)

Setup Headland Boundary

1. Click **Menu** > **Applications** > **Fields and Boundaries**
2. Click within the **large white boundary box**
3. Click the **pencil** to edit the Exterior boundary
4. Select a **Headland**
   - For Constant Offset, enter **Offset**
   - For Top & Bottom Offset, enter **Heading Angle**, **Top Offset**, and **Bottom Offset**
5. Click **Save**

Setup Headland Sequences

1. Click **Menu** > **Applications** > **AutoTrac™ Turn Automation**
2. Within **Headlands**, click **Enter**
3. Click to add a **New Sequence**
4. Click to **Add Step**
5. Scroll to select a **Function**
6. Select the **Action**
7. Enter the corresponding information and click **OK**
8. Click **Next**
9. Name the **Sequence** and click **OK**
10. Click **Save**
11. Within **Headlands**, click **Exit**
12. Repeat steps 3-10 to complete the implement function setup

Note: Headland sequences are not needed for turn automation in combines.

Manage Equipment Controls during Turn Automation

1. Click **Menu** > **Applications** > **AutoTrac™ Turn Automation**
2. To automatically control vehicle speed during an automated turn, toggle Speed Control On and set in-field and max turn speed parameters.
3. To automatically control implement function during an automated turn, toggle Equipment Control On and set sequence parameters.

NOTE: Different equipment will have varying levels of automation customization.

Adjust Turn Settings

1. Click **Menu** > **Applications** > **AutoTrac™ Turn Automation**
2. Click **Turn Size** settings
3. Adjust **Turn Size** settings as needed and click **X**
4. Click within **Start Turn**
5. Adjust **start turn settings** as needed and click **X**
6. Ensure Speed Control is turned **ON**
7. Click **within Max Turn Speed**
8. Click the editable **white box**
9. Enter desired **Max Turn Speed**
10. Click **OK** and click **X**
11. Click **within Max In-Field Speed**
12. Click the editable **white box**
13. Enter desired **Max In-Field Speed**
14. Click **OK** and click **X**

Turn ATTA On

1. Click **Menu** > **Applications** > **AutoTrac™ Turn Automation**
2. Click **ON**

Adjust Turn Direction and Skip Row

1. While utilizing ATTA, view the circle turn arrow on the run page
2. Click the **circle turn arrow**
3. Adjust turn direction by clicking on the **correct arrow**
4. To add skip rows, click the **turn arrow** in the direction you want to turn
5. To remove skip rows, click the **opposite direction arrow**

AutoPath™ (Rows)

Gain accuracy through auto-generated guidance lines based on actual planted crop rows. AutoPath™ decreases set-up time, streamlines the operation, and reduces crop damage. Regardless of equipment width, you'll know exactly which rows to start on throughout the entire crop season, eliminating guesswork and maximizing overall performance and efficiency.

AutoPath (Rows) Display Setup

Complete Required Display and Equipment Setup

1. Verify **Machine and Implement** profiles are complete with accurate measurements (see page 53)
2. Verify **implement receiver** has been added and setup (see page 54)
3. Perform an **advanced TCM calibration** (see page 53)

Enable AutoPath™ Recording on Display during Source Operations

1. Click the **Information & Settings** button in the **Work Setup** ribbon
2. Click **Settings**, then click **Enable AutoPath™ Recording Status**
3. Click **X**
4. If the light is green in the **AutoPath™ Recording** section, you're ready to record
5. If the light is red, click on the **light** to see what still needs set up
6. The first four line items need a green checkmark to be ready to record
7. Click the **arrow button** for each line to go to the page to input settings

NOTE: The attention icon next to Verify Implement Fore/Aft and Height may remain on, even while recording AutoPath™ lines.

NOTE: Be confident that you're recording your source path by adding the AutoPath™ recording indicator to your shortcut bar.

Utilize a Planned Work Plan

1. After pulling into the field boundary, prior created Work Plans will autopopulate with the AutoPath™ lines included

NOTE: Work Plans are the easiest method of receiving AutoPath™ lines for later passes. See instructions for creating Work Plans in Operations Center on page 33.

Select AutoPath™ for Guidance

1. Click **Menu** > **AutoTrac™ Guidance**
2. Click **Set Track**, then click **pencil** to edit AutoPath™
3. Click **Generation**, then select **Rows as your mode.** Under Method select either Optimize for Fewest Paths or Follow Source Operation Paths
4. Click **OK**, then click **OK**
5. Click AutoTrac™ **ON**, then click **X**

Engage AutoTrac™

1. Begin driving until the guidance line you want to follow turns white
2. Click the **AutoTrac™ button** to engage

Shift Guidance Track

1. Click **Menu** > **Applications** > **AutoTrac Guidance**
2. To shift guidance track, click the **Left** or **Right** arrows under **Shift Track**
3. To adjust size of shift increments, click **Shift** Increment, enter increment size, then click **OK**.
4. To increase shift limits, click **Advanced Settings** > **Settings**. Select Increase Shift Limits Up to 100 in.

AutoPath™ (Boundaries)

Plan your perfect first pass with AutoPath™ Boundaries. With the flexibility to create or adjust full-field guidance plans directly on the display, you can start your work quicker and easier without sacrificing work accuracy.

Getting Started with AutoPath™ (Boundaries)

Complete Required Display and Equipment Setup

1. Select the correct Client/Farm/Field
2. Ensure you have a driven field boundary driven with SF3 or higher correction signal
3. Verify Machine and Implement profiles are complete with accurate measurements
4. Complete an Advanced TCM Calibration

NOTE: If you intend to use this AutoPath pass as a source operation for secondary operations, you need to enable AutoPath documentation on the display (see page 61)

Create a Headland*

1. Click **Menu** > **Applications** > **Fields & Boundaries**
2. Click the white box that shows the exterior boundary
3. Under **Exterior**, click the **pencil**
4. Select the offset method
5. Click the white box to enter the offset distance or heading angle and top and bottom offset distance, then click **OK**
6. Click **Save**

Create AutoPath™ (Boundaries) Guidance Track*

1. Click **Menu** > **Applications** > **AutoTrac™ Guidance** > **Set Track**
2. Select **AutoPath**, then click **pencil**
3. Under **AutoPath** (Boundaries), select Boundary as the desired mode.
4. Depending on your chosen method, select the desired heading angle, boundary line, or existing track, then click **OK**
5. Select the Shifts page, click on either headland or field to enter the desired track shifts (optional)
6. Click **OK**
7. Select **AutoPath** from the available tracks, then click **OK**

Engage AutoTrac™

1. Begin driving until the guidance line you want to follow turns white
2. Click the **AutoTrac™** button to engage

* *NOTE: This step can be skipped if you created the AutoPath (Boundaries) track in Operations Center and sent it to the display.*

AutoTrac™ Implement Guidance

Improve implement accuracy by reducing drift using AutoTrac™ Implement Guidance. Have the confidence that you are maximizing your inputs by putting them right where they need to be pass after pass.

AutoTrac Implement Guidance Display Setup

Complete Required Display and Equipment Setup

1. Verify **Machine and Implement** profiles are complete with accurate measurements (see page 53)
2. Verify **implement receiver** has been added to the profile and setup accurately (see page 54)
3. Perform an **advanced TCM calibration** (see page 53)

Turn On AutoTrac™ Implement Guidance

1. Click **Menu** > **Applications** > **AutoTrac™ Guidance**
2. Click **Information and Settings**
3. Under AutoTrac™ Implement Guidance, click **ON**
4. Click **X**, then under AutoTrac™, click **ON**
5. Click **X**

Engage AutoTrac™

1. Begin driving until the guidance line you want to follow turns white
2. Click **AutoTrac™ button** which automatically engages AutoTrac™ Implement Guidance

Optimize AutoTrac™ Implement Guidance Sensitivity

1. Click **Information & Settings** at the top of page
2. Click the **steering wheel button** under AutoTrac™ Steering Optimization.
3. Click **Implement Steering** and **adjust settings** as desired

NOTE: Setting definitions can be found in the help docs accessed by clicking the Info Icon at the top of the page.

Machine Sync

Confidently unload crops on the go through reliable and automated machine-to-machine synchronization during a harvest operation using Machine Sync. Find peace in knowing that the system will keep the machines a safe distance apart from one another during the unloading process.

Machine Sync - Leader and Follower

Enable Machine Sync - Leader

1. Go to **Menu** > **Applications** > **Machine Sync**
2. Toggle Machine Sync Switch to **ON**
3. Edit the **Network Name** and **Password**

NOTE: Each machine in the work group must have Machine Sync turned on and have a High Connectivity Machine Sync Antenna installed

Define Operational Zone - Leader

1. **Machine Sync** > **Information & Settings**
2. Select **U-Shaped Operational Zone Override Toggle**
   · Combine/Tractor – Off
   · Two Tractors – On
   · SPFH – On
3. Adjust **operational zone width** and **length**

NOTE: If harvesting with a combine, the default operational zone with this toggled off is on the left of the combine.

Set the Home Point - Leader

Single Home Point (Combine/Tractor)

1. Select **Set Home Point** when the tractor has reached desired unloading position

Multiple Home Points – U Shape (Two Tractors / SPFH)

1. Select **Set** on Set/Engage toggle
2. Select **#** of home points
3. To change an active home point, select **Engage** on Set/Engage toggle
4. Select **#** of home points

Engage Machine Sync - Leader

1. When the Follower engages the AutoTrac™ button inside of the operational zone, the Machine Sync light will turn from green to blue
2. The leader can now control and **nudge the follower** to desired locations for an even fill

Nudging - Leader

1. Click **Information & Settings**
2. Adjust the **Inline** and **Lateral Increment** to your preferred setting
3. Click **X**
4. When the follower has engaged AutoTrac™ in the operational zone and has been "captured", the leader can nudge the follower with the directional buttons

Join the Work Group - Follower

1. Click **Menu** > **Applications** > **Sharing**
2. Click box to **Enable Sync to Operations Center** and **Enable Sync from Operations Center**
3. Click **X** > **Work Setup**
4. Click into **Machine Profile**
5. Click **Add Implement**
6. Create a virtual implement *(Do NOT select Yes for the "Cart" configuration. This is for setting up an Air Cart)*
7. Select **Add Operation**
8. Set Operation Type to **Harvesting**

NOTE: To gain In-Field Data Sharing insights while using Machine Sync, ensure that all machines in the same work group have their operation set to "Harvesting." This can be done by setting up a virtual implement on the tractors.

Enable Machine Sync - Follower

1. Go to **Menu** > **Applications** > **Machine Sync**
2. Toggle Machine Sync Switch **ON**

NOTE: Machine Sync must be turned on in each machine involved in the work group.

Join the Leader's Network

1. In Machine Sync Menu, select the **network** under **Selected Leader**
2. Select the **correct network** from the list
3. Enter the **password** set in the leader's machine

Define the Tractor's Role - Follower

1. In the Machine Sync Menu, select **Information & Settings**
2. Scroll down to **Tractor Role Setting**
3. Depending on Operation Type, select:
   - Tractor is Leader
   - Tractor is Follower

Ensure Controlled Traffic is Enabled for Follower (optional)

1. Make sure Machine 1 and 2 are in the same work group
2. Create a **new guidance line** in Machine 1 and **share** to Machine 2 (guidance lines only need to be pushed if created after work groups are joined)
3. Select an **existing line** and share the **guidance line** with Machine 2 using the **cloud icon**
4. Have Machine 2 use the guidance line and then **shift it** (shifts are only used by the receiving machine once the line is not actively being used for AutoTrac™ and selected again)

Engage Machine Sync - Follower

Follower

1. Drive into the **operational zone** (outlined in orange on the display)
2. Click the **AutoTrac™ button** to engage when the status indicates that it is ready
3. Machine Sync light will change from green to blue to indicate the machine is being controlled

NOTE: Follower is recommended to set a max speed twice that of the leader and to set throttle to full for best Machine Sync performance.

In-Field Data Sharing

Ensure that operators are working efficiently by sharing as-applied maps and guidance lines between machines use for tillage, planting, application, and harvesting.

In-Field Data Sharing Display Setup

Complete Required Display and Equipment Setup

1. Choose the **Client/Farm/Field** you are operating in (see page 43)
2. Enter **Operator Name** (see page 45)
3. Enter **machine and implement dimensions** (see page 44)
4. Enable sharing by clicking **Menu** > **Applications** > **Sharing**

NOTE: If you are using Work Planner this will be done. Ensure the same operation, same crop type, and same application is selected.

Create New Work

1. Click **Menu** > **Applications** > **Work Setup**
2. Click **New Work**, then click **OK**
3. Select **Crop Type**, then click **OK**
4. Click **OK**

   NOTE: When you create new work the system will automatically create a new group.

Create a New Group

1. Click **Menu** > **Applications** > **Work Setup**
2. Click **Work List**
3. Click **New Group**
4. Either resume work or start **New Work**

Share Guidance Lines and Shifts

1. Click **Cloud icon** > **Guidance Line List**
2. Use shifts from other machines
3. Deselect and reselect the guidance line from the **Guidance Track List** or **Swap Track**

MONITOR

Monitor equipment and work progress in Operations Center to proactively identify issues that could cause downtime, keeping your equipment running more efficiently throughout the season.

* *ALL TASK INSTRUCTIONS ARE FOR USE THROUGH A WEB BROWSER UNLESS OTHERWISE MARKED FOR MOBILE.*

Monitor Your Equipment

View machine utilization, performance, diagnostic trouble codes (DTCs), and maintenance information.

1. Click **Map** > **Equipment**
2. Select the **machine** you want to monitor
3. Adjust **Date Filters** as desired
4. Click **Summary** to view utilization, hours of operation and performance metrics
5. Click **Alerts** to view any machine DTCs
6. Click **Maintenance** to view any maintenance plans
7. Click **Setup** to ensure machine, modem, and display are setup

✳ *OPERATIONS CENTER MOBILE*

1. Click **Map** > **Equipment**
2. Select the **machine** you want to monitor
3. Click **Right Now** to view current vehicle details
4. Click **Today** to view utilization and performance details
5. Click **Work** to view the machine's work history
6. Click **Alerts** to view machine DTCs
7. Click **Setup** to view equipment setup information

Remote Display Access (RDA) into a Machine

Requirement: JDLink™ connected machine

Be confident in work quality, enable quicker problem resolution, and improve service from support personnel and John Deere dealer.

1. Click **Map** > **Equipment**
2. Select the **machine** you want to remote into
3. Click **RDA**

OPERATIONS CENTER MOBILE

1. Click **Map** > **Equipment**
2. Select the **machine** you want to remote into
3. Click **RDA**

Monitor Your Farm

Create Machine Custom Alert

Get push notifications on your phone when machines exceed set speed or idle time or when machines drop below set fuel level or singulation percentage.

OPERATIONS CENTER MOBILE

1. Click **Home** > **View All Equipment**
2. Select the **machine** you want to create the alert for
3. Click **Alerts**
4. Click **Add** to the right of any of the Custom Alert options
5. Adjust the settings by clicking **+/-**, then click **Save**

NOTE: You must allow push notifications. This can be enabled on the mobile app by selecting Profile > Alert Settings.

Add Tag(s) to Equipment

Group equipment together for easier monitoring in the map and quicker machine report setup for multiple machines.

1. Click **Map** > **Equipment**
2. Select the **machine** you'd like to tag
3. Click **Manage Tags**
4. Select any **tags** you want to assign to the machine
5. If new tag is needed, click **+Add Tag** and enter **tag name**, select **visibility**, select all **equipment** to add to the tag
6. Click **Save**

View Active Work Progress and Estimated Time Remaining

Requirement: Gen 4 or newer display, 20-3 or newer software, and within a field boundary

Effectively manage work and logistics by knowing when a job will be done.

OPERATIONS CENTER MOBILE

1. Click **Home**
2. Scroll to **Active Work**
3. See estimated time remaining and progress bar for each field where work is in progress

View Work Plan Progress

View work progress and estimated time until completion for fields with Work Plans.

1. Click **Plan** > **Work Planner**
2. Select **Year** and **Work Type**
3. View the percent completed under **Progress**
4. View the estimated time remaining under **Time to Complete**

NOTE: If the Work Plan is over 98% done, it will be moved from "Planned" to "Completed".

OPERATIONS CENTER MOBILE

1. Click **Plan**
2. Select **Year** and **Work Type**
3. Click **Completed**
4. Expand the **Work Plan** you want to view progress of
5. View the percent completed under **Progress**

ANALYZE

Analyze performance at the end of the season to see how your data-driven decisions influenced your operation's performance. You'll know the productivity of each field and variety, the impact of various inputs on yields, and the utilization of each piece of equipment. Use this year's data to plan for even better results next year.

ALL TASK INSTRUCTIONS ARE FOR USE THROUGH A WEB BROWSER UNLESS OTHERWISE MARKED FOR MOBILE.

Analyze Field and Work Performance Across the Entire Operation

Identify your most productive varieties to assist in building your planting plan for next year.

1. Click **Analyze** > **Work Analyzer**
2. Select the **Work Type, Year,** and **Crop Type**
3. View the data at a **Fields**, **Work**, **Varieties**, **Equipment**, or **Operators** level
4. Apply desired **filters** to analyze

Analyzing Field Data

Export Reports in Work Analyzer

Generate a report of the currently displayed work, including maps and summary totals.

1. Click **Analyze** > **Work Analyzer**
2. Select **Work Type, Year,** and **Crop Type** (if applicable)
3. View the data at a **Fields**, **Work**, **Varieties**, **Equipment**, or **Operators** level
4. Click **Share/Export** > **Download Report**
5. Select the **report type** and **format**, then click **Download Report**

OPERATIONS CENTER MOBILE

1. Click **Analyze** and select from the **work list**
2. Click the **Share** icon, then select **PDF** or **CSV**
3. Select **Communication Tool** (email, text, etc.) and send to desired recipient

Export Work Data in Work Analyzer

Share bulk work data with your trusted advisors.

1. Click **Analyze** > **Work Analyzer**
2. Select **Work Type, Year,** and **Crop Type** *(if applicable)*
3. Click **Share/Export** > **Work Data**
4. Choose your **Export Location**
5. Select the **Partner** from the dropdown list *(if applicable)*
6. Rename **File Name** if desired
7. Click **Export Work Data**

NOTE: Work Analyzer exports work data in bulk. To export work data from individual fields, utilize Field Analyzer.

Share/Export Reports in Field Analyzer

View field-specific work totals, equipment and variety performance, and product information to guide decisions for future passes or next growing season.

1. Click **Map**
2. Select the **Field**, then click **Field Analyzer**
3. Select the **Year** and **Layer** you want to analyze
4. Click **Share/Export**, then click **Download Report**, then click **Download Report**

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1. Click **Analyze**, then select **Year** and **Operation**
2. Click on the **Field** you want to analyze
3. Click the **Share** button, then select **PDF** or **CSV** file
4. Select **Communication Tool** (email, text, etc) and send to desired recipient

Share Work Data with a Partner Organization in Field Analyzer

Share work data with partnered trusted advisors to analyze productivity and performance.

1. Click **Map** > select the **Field** you want to analyze > **Field Analyzer**
2. Click **Share/Export** > **Work Data**
3. Click **Share Work Data**
4. Select the **Partner** to export data to
5. Click **Share Work Data**

Export Work Data in Field Analyzer

Create work data files to share with trusted advisors.

1. Click **Map** > select the **Field** you want to analyze > **Field Analyzer**
2. Click **Share/Export** > **Work Data**
3. Click **Export Work Data**
4. Select the **Export Location**
5. Select the **Partner** from the dropdown list (if applicable)
6. Rename **File Name** if desired
7. Click **Export Work Data**

Create a Machine Report

Stay updated on machine performance, technology utilization, and fuel consumption.

1. Click **Analyze** > **Machine Reports** > **+Add Report**
2. Enter **Report Name**, then select **Report Type**, and **Frequency**
3. Select if you want to receive an **email report**
4. Select the **report format**
5. Select **Make**, **Type**, **Model**, and **Tag** (optional)
6. Click **Save**

Analyze Partial Field Performance with Selected Zone Tool

Review less productive areas within your field to help determine root cause.

1. Select **Map** > select the **Field** you want to analyze > **Field Analyzer**
2. Select the **Work Type** (harvest, seeding, application, or tillage) and **Layer** (yield, productivity, etc) to analyze
3. Click the **Selected Zone** tool on the right hand side of the map
4. Use the **tools** to draw around the desired zone
5. Click **Summary** to view differences of the selected area compared to the rest of the field

Compare Two Layers within a Field

Determine the impact of one variable to another within a field.

1. Click **Map** > select the **Field** you want to analyze > **Field Analyzer**
2. Select the **first layer**
3. Click **Compare**
4. Select the **second layer**

Edit Work Data

Modify work details (variety, area, yield, etc) to capture real time data for accurate operational performance analysis.

1. Click **Map** > select the **Field** you want to export data from > **Field Analyzer**
2. Select the **layer** you want to edit
3. In the Summary box, click **Edit** and select the **work detail** you want to modify
4. Make necessary edits, then click **Save**
5. Refresh your browser to view your edits

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1. Click **Analyze**, then select the **Field** you want to edit
2. Click the **pencil**, then select the **work detail** you want to edit
3. Make necessary edits, then click **Confirm**
4. Click **OK**

Revert Manual Work Edits

Revert any changes back to machine documented values.

1. Click **Map** > select the **Field** you want to export data from > **Field Analyzer**
2. Select the **Layer** you want to revert
3. In the Summary box, click **Revert**, then click **Revert**

NOTE: The option to revert will only appear if the data has been modified within Operations Center.

Split Work Documentation Data

If the work record logic produces undesirable results, users can manually split a work record to reflect what happened in the field within Field Analyzer to match records.

1. Click **Map**
2. Select the desired field
3. Select **Field Analyzer**
4. Click the **Timeline** tab from bottom drawer
5. Drag the timeline to select the corresponding work data that will become a separate work record
6. Click the white **Split Work Record** button
7. Review the proposed new work records
8. If the proposed work records look correct, click the yellow **Split Work Record** button

NOTE: While edits are processing, it may take several minutes to view the updated data.

Merge Work Documentation Data

If the work record logic produces undesirable results, users can manually merge work records together within Field Analyzer to better represent what happened in the field.

1. Click **Map**
2. Select the desired field and work record
3. Select **Field Analyzer**
4. Seleect the **Edit** button
5. 5. Select **Merge Work Records** from the Edit drop-down menu on the right side of the screen
6. Select a secondary work record to merge and review.
7. Click yellow **Merge Work Records** button

NOTE: While edits are processing, it may take several minutes to view the updated data.

NOTE: NOTE: To use the merge tool, work records have to be within the same field, and they must be of the same operation and suboperation type (example - disc tillage tool).

Analyze Equipment at a Season Level

Optimize your equipment based on usage and performance compared to operational needs.

1. Click **Analyze** > **Work Analyzer**
2. Select **Operation**, **Year**, and **Crop Type** (if applicable)
3. Select **Equipment**
4. Use the **Work Totals**, **Performance**, and **Planter Performance** toggle to view equipment data
5. Select the **Machine** to view specific fields where it worked that season

Analyze Fleet Details

Compare machine performance and utilization across the fleet to identify top performers as well as training opportunities.

1. Click **Analyze** > **Machine Analyzer**
2. Select **Performance** from the dropdown
3. Select the **Date Range** you want to view
4. Click the **down arrow** to expand the Equipment category you'd like to view

Using Machine Analyzer

Manually Upload Documentation Data

Upload data that was collected via USB on John Deere or non-John Deere in-cab displays.

1. Ensure the data you'd like to upload to Operations Center is downloaded on your desktop or on a USB
2. Download Data Manager by clicking ...**More** > **John Deere Data Manager** > **Download**
3. Follow the on-screen prompts to download **Data Manager** to your desktop
4. Login to **Data Manager** using your Operations Center credentials
5. Select **desired folder in** from the **From** dropdown menu
6. Select the **folder** the files are in and click **Select Folder**
7. Select the **Organization** you want to upload files to from the **To** dropdown
8. Select the **file(s)** you want to upload and click **Upload**
9. Within Operations Center, click ...**More** > **Files** to locate the imported files. Wait for it to say "File processing finished" under Status

Add Completed Work

Record work that was completed without the ability to record with a display.

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1. Click **Home**, scroll to the bottom and click **View All Work**, then click the **+**
2. Select the **Field**, **Work Type**, **any work details**, **Work Date**, and **Start Time**
3. Click **Save**

Congratulations!

You're well on your way to realizing the value of a connected fleet and using data to optimize your operation. If you would like to learn more about John Deere Precision Ag tools, visit Deere.com / Deere.ca or reach out to your trusted John Deere Dealer.

If you're experiencing issues, contact:

Operations Center Global Support Center

1-888-GRN-STAR

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