PRECISION AG

USER GUIDE

APRIL MILLION

Operations Center November 2024, Software 24-2



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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:



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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

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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.

IN THE CAB

- Machine must have a connected modem
- Use USB transfer for non-connected machine
- ▲ 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 CHECKLISTS TASK PAGE # In Operations Center before season: Add your equipment and implements, 11-12 including offsets Verify all the fields you will farm this season 13 have been created SETUP Verify boundaries and headlands exist 14-15 for all fields Verify guidance tracks exist for all fields 16 19 Add fertilizers to products PLAN Verify all team members have been added with 22-26 the proper permissions Create tillage Work Plans for all fields 33 Send Work Plans to your equipment ∞ **N THE CAB** 35-36 or export to a USB ≠ In the cab: Enable Data Sync - Work Data ∞ 79 Setup the display 42 MONITOR Setup the machine and implement 52 Setup AutoTrac[™] Turn Automation 55 Setup AutoPath[™] (Rows) △ or AutoPath[™] 59 (Boundaries)

Setup AutoTrac[™] Implement Guidance △

Setup In-Field Data Sharing if more than one

machine will be working in the same field ±

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Planting	g/Seeding Checklist	
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Add inc	d your equipment and implements, luding offsets	11-12
Ver hav	ify all the fields you will farm this season ve been created	13
Ver for	ify boundaries and headlands exist all fields	14-15
Ver	ify guidance tracks exist for all fields	16
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Application Checklist

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	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
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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

- Go to OperationsCenter.Deere.com in your web browser
- 2. Click Create an Account
- 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**
- 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



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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





MONITOR

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**

SETUP

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



* 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





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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

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



PLAN

IN THE CAB



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
- 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

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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^M (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

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Click Setup > Products > +Add > Products Search for desired product by **name**, **crop type**, or **brand**

- Select the product you want to add 3
- Click Add Product 4



1.

2.

Setting Up Your Products - Part 1

Setting Up Your Products - Part 2



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

Add a Product

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





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)
- 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
- 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

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Add a Staff Member

Add personnel to help run your organization.

- 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
- Assign partners that the staff member can work with, then click Done



Setting Up Your Team



OPERATIONS CENTER MOBILE

- Click Setup > Team > Staff > +
- 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**

IN THE CAB

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

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Add a Dealer

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

- 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
- 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
	Level 3	Level 2 Level 3	ا مربوا ع	Level 2
Farm Manager / Owner /	+ RDA			
Administrator	+ WDT and		LEVELD	
	Setup			
	Level 1	Level 1 Level 3	Level 3	Level 2
	+ RDA			
Agronomist	(WDT and			
	Setup			
	Optional)			
Tachnician	Level 2	Level 1 Level	Loval 1	Lavel 0
recrimiciali	+ RDA		Level I	Level 0

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Enable AutoPath™

Allow Operations Center to process and create AutoPath[™] lines.

- 1. Click on Organization Name, then click the gear symbol
- 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
- 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
- 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.

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Add a Connection

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

- 1. Click Setup > Connections
- Search for the company or software you'd like to connect, click Learn More then click Connect
- 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
- 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



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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

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MONITOR

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 <u>https://www.deere.com/en/stellarsupport/</u>.

MONITOR

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.

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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 +
- 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



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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

SETUP



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PLAN

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
- 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**

IN THE CAB

MONITOR
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
- 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



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Create a Factory Maintenance Plan

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

- 1. Click Plan > Maintenance
- 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
- Enter Plan Name, Estimated Annual Usage, Plan Start Hours, Machine Age, Plan Start Date, Plan Length and Machine Options, then click Next.
- To create a custom interval, click + Add Interval. Input Task information, then click Add Interval & Task.
- 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.

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* 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
- Enter Plan Name, Estimated Annual Usage, Plan Start Hours, Machine Age, Plan Start Date, Plan Length and Machine Options, then click Next.
- To add a custom interval, click + Add Interval at the top of the screen. Input Task information, then click Add Interval & Task.
- 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
- 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.

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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.

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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
- 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

IN THE CAB

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.

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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

IN THE CAB

MONITOR

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
- Click white box under Name and enter boundary name, then click OK
- Choose the Offset Point based on if the Machine GPS or Implement GPS will be used as the reference point for recording.
- Click the **arrow** to set the offset location to the left of right.
- 9. Enter the **boundary offset** and click **OK**
- 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



CHECKLISTS

SETUP

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
- Repeat until you have added each track you would like to add

PLAN

IN THE CAB

MONITOR

Work Summary - Tillage

1. Click Menu > App	lications > Work Setup
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- 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

PLAN

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
- Add up to six varieties by clicking into the white box Single, Dual, or Custom boxes and typing in the variety, then click OK
- 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

CHECKLISTS

MONITOR

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**
- Click Add Product to add all other products in your Tank Mix (refer to steps 9-11) after clicking + Add Product
- 18. Click **OK**

MONITOR

SETUP

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

IN THE CAB

PLAN

Edit Shortcut Bars

- 1. Click Menu > Applications > Layout Manager
- 2. Click Shortcut Bars
- Click Create New Shortcut Bar or edit the Default Shortcut Bar by clicking the pencil
- 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
- 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.

SETUP

IN THE CAB

MONITOR

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
- Perform a TCM Calibration by clicking Menu > Applications > StarFire[™] > Advanced TCM Calibration > Begin Calibration
- 3. Follow the on-screen instructions



) StarFire[™] Advanced TCM Calibration



CHECKLISTS

PLAN

IN THE CAB

MONITOR

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)

CHECKLISTS SETUP PLAN IN THE CAB MONITOR ANALYZE

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**
- Monitor performance and adjust settings by clicking Menu > Applications > ISOBUS VT
- TIP: Create an ISOBUS VT run page to easily access performance and settings.

CHECKLISTS

SETUP

PLAN

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

- 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

IN THE CAB

PLAN

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CHECKLISTS

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
- To automatically control vehicle speed during an automated turn, toggle Speed Control On and set in-field and max turn speed parameters.
- 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.

SETUP

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MONITOR

Adjust Turn Settings

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

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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**

CHECKLISTS

SETUP

IN THE CAB

MONITOR

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

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

MONITOR

Enable AutoPath[™] Recording on Display during Source Operations

- Click the Information & Settings button in the Work Setup ribbon
- Click Settings, then click Enable AutoPath[™] Recording Status
- 3. Click **X**
- If the light is green in the AutoPath[™] Recording section, you're ready to record
- 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 AutoPathTM recording indicator to your shortcut bar.

Utilize a Planned Work Plan

 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.

PLAN

Select AutoPath[™] for Guidance

- 1. Click Menu > AutoTrac[™] Guidance
- 2. Click Set Track, then click pencil to edit AutoPath™
- 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**.
- To increase shift limits, click Advanced Settings > Settings. Select Increase Shift Limits Up to 100 in.

SETUP

PLAN

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)



IN THE CAB

MONITOR

ANALYZE

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
- 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*

- Click Menu > Applications > AutoTrac[™] Guidance > Set Track
- 2. Select AutoPath, then click pencil
- Under AutoPath (Boundaries), select Boundary as the desired mode.
- 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.

IN THE CAB

MONITOR

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**

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Engage AutoTrac[™]

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

Optimize AutoTrac[™] Implement Guidance Sensitivity

- 1. Click Information & Settings at the top of page
- 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. SETUP

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
 - \cdot 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.

PLAN

MONITOR

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

- 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

CHECKLISTS

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Nudging - Leader

- 1. Click Information & Settings
- 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

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Ensure Controlled Traffic is Enabled for Follower (optional)

- 1. Make sure Machine 1 and 2 are in the same work group
- 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**
- 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

- Drive into the **operational zone** (outlined in orange on the display)
- 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.

SETUP

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MONITOR

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

- 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)
- 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.

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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**

PLAN

MONITOR
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

PLAN

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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



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.





IN THE CAB

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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
- 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

SETUP

PLAN

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**

CHECKLISTS

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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.

PLAN

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MONITOR

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)
- 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

PLAN

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

OPERATIONS CENTER MOBILE

- 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

SETUP

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Share Work Data with a Partner Organization HECKLISTS in Field Analyzer analyze productivity and performance. 1 Click **Map** > select the **Field** you want to analyze > Field Analyzer Click Share/Export > Work Data 2 SETUP 3 Click Share Work Data Select the **Partner** to export data to 4 5 Click Share Work Data **Export Work Data in Field Analyzer** PLAN Create work data files to share with trusted advisors. 1 Click Map > select the Field you want to analyze > **Field Analyzer** Click Share/Export > Work Data **N THE CAB** 2. 3. Click Export Work Data Select the Export Location 4 5. Select the **Partner** from the dropdown list (if applicable) Rename File Name if desired 6 MONITOR 7 Click Export Work Data

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Create a Machine Report

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

- 1. Click Analyze > Machine Reports > +Add Report
- 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.

- 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



- 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.

- 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.

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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). CHECKLISTS

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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

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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
- Click the **down arrow** to expand the Equipment category you'd like to view



Using Machine Analyzer



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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
- Within Operations Center, click ... More > Files to locate the imported files. Wait for it to say "File processing finished" under Status

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Add Completed Work

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

* OPERATIONS CENTER MOBILE

- 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 I-888-GRN-STAR





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