JOHN DEERE FORESTSIGHT™ TECHNOLOGY SOLUTIONS

JDLINK™ MACHINE MONITORING
MAINTENANCE MANAGER
MACHINE HEALTH
REMOTE DIAGNOSTICS AND PROGRAMMING
TIMBERNAVI® JOBSITE MAPPING
DEALER SUPPORT
Bringing machines, technology, and your dealer together to make your job easier

John Deere ForestSight™ turns data into solutions to optimize machines, uptime, and your jobsite. Benefit from improved profitability with John Deere ForestSight.
John Deere ForestSight delivers three primary benefits:

1. **Machine optimization**
   Apply the machine and operations data provided through John Deere ForestSight to increase productivity and efficiency.

2. **Uptime optimization**
   John Deere ForestSight integrates machine data, prognostics, and diagnostics tools with dealer support and parts availability to drive machine uptime. Integrated parts and service solution packages meet the unique needs of your specific applications.

3. **Jobsite optimization**
   From nearly any location, you can see when and where your machines are working, how many cycles they are completing, and how much time operators spend out of the cab. This up-to-the-minute data lets you manage your production more efficiently.

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**Optimize machines**

Today more than ever before, you need to get the most logs to the landing for each gallon or liter of fuel you burn. John Deere ForestSight gives you visibility to the efficiency of your machines. Your John Deere dealer can even analyze the data for you and make recommendations for improvements.

*For example:*
- Identify unused machines so they can be redeployed.
- Compare fuel-burn rate across multiple machines.
- See time spent idling, to reduce unnecessary fuel consumption.
- View engine load and fuel consumption, to match machine size to the job.
- Set up virtual fences and authorized hours of use, to improve security.
- Locate and get directions to your machines, to save significant time.

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**Combined with the expertise of your dealer, John Deere ForestSight delivers answers, not just data.**

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**LEARN MORE** about John Deere ForestSight machine optimization technologies:

JDLink™ machine monitoring system
See pages 6–7.
Optimize uptime

We know that when you’re not up and running in the woods, you’re not making money. John Deere ForestSight provides a number of ways to significantly boost uptime, plus save drastic amounts of time and costs associated with machine repairs. And it can serve as a helpful maintenance assistant. John Deere ForestSight and your dealer can also monitor engine emission components to ensure proper operation.

For example:

– **EXCLUSIVE** remote dealer diagnostics, machine-performance recordings, and even software updates reduce the time and costs associated with a technician trip to the jobsite.
– **EXCLUSIVE** machine health recommendations identify potential problems early so you can avoid more costly repairs down the road.
– Alerts sent to your computer, mobile device — even your dealer if you choose — inform you immediately of machine issues so you can address them quickly before they cause more costly repairs and downtime.
– Maintenance reminders based on predefined, customizable schedules go to your computer or mobile device.
– Documentation of completed maintenance helps at trade-in or resale time.

**Ask your dealer about John Deere Ultimate Uptime**

Not all operations are the same, so that’s why John Deere dealers offer Ultimate Uptime. Customizable fleet-advisory services are structured to boost machine availability at a cost per hour that works for you and your team. John Deere ForestSight maintenance-management tools empower you to collaborate with your dealer to maintain and monitor machine health.

**With every new John Deere forestry machine, you get:**

– Five years of JDLink Ultimate monitoring
– Five years of machine health
– Remote-diagnostics and -programming capability
– World-class parts availability
– Pre-delivery set-up and followup inspections

You can work with your dealer to add many other services that meet your unique needs. For example, the John Deere Ultimate Uptime package that is best for you may include the above services plus a customized support agreement, filter kits, comprehensive fluid sampling, five years of full-machine warranty, operator training, and more.

Be sure to ask about your dealer’s John Deere Ultimate Uptime solutions featuring John Deere ForestSight.

**LEARN MORE** about John Deere ForestSight uptime optimization technologies:

- **JDLink™ machine monitoring system**
  See pages 6–7.

- **Maintenance Manager**
  See pages 8–9.

- **Machine health**
  See page 10–11.

- **Remote diagnostics and programming**
  See pages 12–13.
Optimize **jobsites**

With John Deere ForestSight, monitor multiple machines and watch over an operator’s shoulder from many miles away to ensure the most efficient operation.

John Deere ForestSight provides information to manage costs and revenues. Variables like distance into the woods, the number of machines required, fuel use, and more are available to help you calculate costs and negotiate fair prices.

*For example:*

- Analyze machine movements to identify operator-training opportunities.
- See fuel levels to forecast efficient refueling.
- Monitor skidder and feller buncher production.
- Document forwarding distances to negotiate rates with mills.
- Track inventory freshness to ensure product quality.
- Identify opportunities for workflow improvements.
- View startup and shutdown times for each machine.
- View stem-count production reports for tracked feller bunchers.
- Easily create detailed maps for maximum visibility to the land you’re harvesting.
- Identify optimal skid distances for maximum fuel efficiency and lower daily operating costs.
- Set buffer zones around cut blocks and points of interest.
- See other machines on-screen for greater jobsite awareness.

**LEARN MORE** about John Deere ForestSight **jobsite optimization technologies:**

- **JDLink machine monitoring system**
  *See pages 6–7.*

- **Timbernavi™ jobsite mapping solution**
  *See pages 14–15.*
Manage multiple machines from one place

JDLink is your connection to the profitability-enhancing benefits of John Deere ForestSight™. From the fleet-management fundamentals of knowing the hours and location of all brands, to sending machine-health alerts and tracking machine production on Deere machines, JDLink can help you centrally, smartly manage your entire fleet and grow your business.

Dual-mode option

If you work in extremely remote locations with spotty cell coverage, opt for the JDLink satellite module. JDLink will transmit via cellular coverage unless a connection can’t be established — then JDLink switches to satellite mode to transmit information. A machine communicating via satellite will report hours, location, alerts, and many other data sets. Call-in frequency for a machine communicating in satellite mode is once per day. Red alerts and geofence violations are sent immediately at any time, just like when in cellular coverage.

Rugged and dependable hardware

The 4G LTE MTG is a rugged military-grade device designed to perform in harsh environments. It is standard equipment on most new John Deere forestry models and also available as a field kit. In addition to fast data transfer, you can tether to a smartphone or hotspot to transfer data using a Wi-Fi connection to the Internet in areas with poor cellular coverage. Wi-Fi setup is completed using the John Deere SolutionsPlus™ mobile app, available in the Google Play™ Store and iTunes® Store.

For optimal performance of JDLink Dashboard, John Deere recommends the latest versions of these browsers: Microsoft Internet Explorer®, Google Chrome™, Mozilla Firefox®, or Apple Safari®. Use a screen resolution of 1024x768 or greater.
Maps: Current location, location history, and driving directions.

Alerts: Diagnostic trouble codes, maintenance, and security.

Engine hours: Daily, weekly, and cumulative hours for maintenance planning, utilization analysis, and jobsite cost tracking.

Maintenance: Enroll in a factory-recommended maintenance plan or a custom maintenance plan to automatically track upcoming intervals due for all your enrolled machines in one place.

JDLink can be set up to send alerts via email or Short Message Service (SMS) text so you’re always in the know. Alert escalation levels can be set to be sent to multiple contacts. There are also JDLink apps for Apple iOS, iPhone and iPad, and Android devices that provide machine location information, engine hours, the ability to view and acknowledge alerts, and JDLink data such as fuel consumption and level, average ground speed, and engine utilization.
An easier way to manage your maintenance

If you handle the maintenance on your equipment, you know that keeping track of intervals on multiple machines can be a headache. Now you can leave inefficient written notes, job-trailer charts, and spreadsheets behind. Maintenance Manager is a tool found in the JDLink™ Dashboard that enables you to easily configure a maintenance plan for every machine in your fleet. Tracking upcoming maintenance and logging completed service is quick and easy. You’ll be alerted when maintenance is coming due. You can even track mixed-fleet maintenance by connecting non-Deere-powered assets to the application with a terminal from one of our mixed-fleet data-solution providers.

The old way is a way of the past.

Maintenance Manager makes machine maintenance planning quick and easy, allowing you to leave old ways behind.
Let Maintenance Manager do most of the work

Start with a factory-recommended plan pre-populated with tasks and service intervals. From there, you can accept the plan as is or easily:

– Edit task intervals.
– Delete tasks from the plan.
– Add custom tasks by hours or calendar date.

The end result is a plan that is exactly the way you want it for each of your machine’s maintenance programs.

Or do your own thing

You can also build your own plan from scratch. Maintenance Manager lets you create your own task name, assign a category, and specify the interval type and frequency. The build-your-own option may be attractive if there are only a few key maintenance tasks you’re concerned about tracking.

⚠️ Alerts

Once your plan is set up, you’ll receive alerts 50 hours before each task is due. Alerts will display in the JDLink maintenance pod as well as on the JDLink Dashboard.

🔍 Monitor status

You can view the status of all your intervals in the Maintenance pod within JDLink or on the Maintenance screen in the JDLink Dashboard.

🔍 History and logging

Simply open the machine details and go to the Maintenance Log to view maintenance history and log any completed maintenance tasks. You can also use the My Maintenance mobile app.
The power to see through iron and steel

To maximize the uptime of your equipment, we deliver improved machine health through an advanced dual approach:

1. Specialists at your dealer’s Machine Monitoring Center use the latest telematics and alert management tools to filter and analyze the JDLink™ data generated by your machines. They can also incorporate more traditional inputs, such as fluid analysis results. This enables them to quickly identify critical issues and react — sometimes before you even know there is a problem.

2. Our central Machine Health Monitoring Center located inside John Deere Dubuque Works archives data from thousands of connected machines. Specialists identify trends within the data, determine causes, and develop new and improved preventative maintenance and repair protocols called Expert Alerts. These alerts are deployed to dealer Machine Monitoring Centers to continuously improve the speed and accuracy of machine-health solutions.

You can hand over all machine-monitoring responsibilities to your John Deere dealer. Or they can monitor your fleet in conjunction with your own maintenance team.

Alert monitoring process

A skidder sends a Diagnostic Trouble Code (DTC) to your JDLink Dashboard. When you utilize your dealer’s machine monitoring services, the DTC also goes to your dealer’s Machine Monitoring Center. The Machine Monitoring Specialists there can let you know if an issue is critical and requires action. They can even perform additional diagnostics and software updates without a trip to the jobsite if needed (see pages 12–13 for more details).

Response time is quick, and many times problems can be addressed before they cause downtime. When service technicians do visit the machine, they can often arrive with the parts to make the repair already in hand.

While your dealer focuses on addressing issues that may immediately impact you and your fleet, the Machine Health Monitoring Center continuously analyzes data from thousands of machines. The insights that only this big picture can provide help them develop and deploy solutions so your dealer can repair machines faster and even help you avoid unexpected downtime altogether.
MACHINE HEALTH MONITORING CENTER
THE POWER TO SEE THROUGH IRON AND STEEL.
Faster, less costly repairs

What if your dealer could warn you of problems with your machine and initiate solutions without visiting the jobsite and charging you for a technician’s travel time?

That’s what you get with John Deere ForestSight’s exclusive remote diagnostics and programming. Your Deere dealer can help you reduce downtime by accessing and resetting diagnostic trouble codes and recording performance readings remotely.

Remote performance recordings

If your machine malfunctions at 1,000 rpm, for example, your Deere dealer can use remote diagnostics to record particular machine parameters at that rpm. The technician doesn’t need to be onsite. And readings can be taken at full machine functionality, eliminating downtime.

If parts are needed to fix the problem assessed via remote diagnostics, the technician arrives onsite with the right parts without an initial trip to the field.

Remote software updates

Using remote programming, your machine can also receive wireless software updates, forestalling a technician having to come to the jobsite with laptop in hand.

Your fleet-management and -maintenance team gain twice the bench strength when your dealer and your machines are connected through remote diagnostics and programming. The advantages to owning John Deere equipment just got a lot more compelling.

Three real-world examples of how John Deere ForestSight significantly optimizes uptime:

**EXAMPLE 1**

**IMPROPER MACHINE OPERATION**

1. **JOHN DEERE FORESTSIGHT** sends “engine derate” alert to dealer from jobsite.

2. Dealer accesses the JDLINK™ website, reviews machine-performance data, and confirms engine derate codes.

3. Dealer contacts customer and makes REMOTE DIAGNOSTICS connection — very high engine coolant temp and derate are detected.

4. **DEALER** confirms with the customer — radiator debris screen is full due to high-debris jobsite.

**RESULTS:** Dealer suggests reducing fan reversal interval time to minimum duration available.
**EXAMPLE 2**

**REMOTE SOFTWARE UPGRADE**

1. Dealer receives a series of “engine derate” alerts from JOHN DEERE FORESTSIGHT.

2. Dealer contacts the customer, who confirms the machine is sluggish.

3. Dealer matches the derate symptoms and diagnostic code with a service bulletin that identifies the problem and requires a software update.

4. DEALER deploys an Electronic Control Unit (ECU) payload via REMOTE PROGRAMMING to update software and resolve the problem.

**RESULTS:** Dealer prevents downtime by correctly diagnosing and repairing the problem remotely.

**EXAMPLE 3**

**RIGHT PART FOR THE JOBSITE**

1. Customer contacts the dealer to report that the “hydraulic enable” does not work.

2. Dealer technician establishes REMOTE DIAGNOSTICS connection and records data from the controller on-board the machine. After analyzing the data, the dealer determines the machine has a faulty door switch. JDLINK records driving directions after locating the machine.

3. DEALER technician arrives with a new door switch in hand for onsite repair.

**RESULTS:** Dealer sends a technician to the jobsite with the correct part for quick repair, avoiding an initial time-consuming diagnostic trip to the jobsite.
More connected, more productive

Our innovative, easy-to-use jobsite mapping solution is designed to responsively optimize full-tree logging operations. Fully integrated with JDLink™ machine monitoring and wireless data transfer, TimberNavi reduces digital-mapping time by up to 60 percent and drives new levels of efficiency and productivity, both in the woods for operators and offsite for owners and fleet managers.
TimberNavi connects you to your machine, your jobsite, and your office

**Easy to use.** TimberNavi’s add-on toolbar and map designer features make creating maps quick and easy. That means more time for your other office responsibilities and less guesswork and downtime on the jobsite.

**Reduces costs.** The onboard measuring functionality helps operators easily identify optimal skid distances for maximum fuel efficiency and lower daily operating costs.

**Simplifies operations.** Full integration with John Deere L- and M-Series machines optimizes your fleet and guarantees complete service and support from your local John Deere dealer.

**In the office:**
Gather site data, create a digital map, and transfer it wirelessly to the onboard TimberNavi monitor via JDLink — reducing the time to start a new jobsite by up to four hours.

**In the machine:**
High-resolution in-cab display gives clear views of harvesting areas, points of interest, cut-block boundaries, and more. Remote Display Access speeds troubleshooting and support if needed.

**Increases visibility.** The 10-in. high-resolution color touchscreen display is simple to learn and use. And it makes cut blocks and points of interest — such as streams, roads, and electrical power lines — visible to operators at a glance.

**Minimizes mistakes.** TimberNavi’s alarm feature enables you to set buffer zones around cut blocks and points of interest. When those zones are crossed, operators will receive an instant on-screen notification.

**TimberNavi maximizes efficiencies by providing:**
1. Operator visibility beyond the view from the seat, including the location of other machines via the onboard TimberNavi monitor, for greater jobsite awareness.
2. Area-measuring tool, for optimized project preparation.
3. Boundary and point-of-interest awareness, for less operator idle time and more productivity.

**TimberNavi connects you to:**
- Current machine position and tracking layer
- Terrain features
- Cut-block boundaries and alarms
- Landing and deck locations
- Plotted points of interest
- Tracking layers for other JDLink-enabled machines on the jobsite

**TimberNavi is currently available for L- and M-Series Skidders, Wheeled Feller Bunchers, and Tracked Feller Bunchers. It can be installed at the factory and financed as part of your initial equipment purchase, or field-installed on existing L- and M-Series machines through your local dealer.**

**Learn more.** See your Deere dealer or visit JohnDeere.com/TimberNavi to find out how TimberNavi and the exclusive suite of John Deere ForestSight technology solutions can be customized to maximize your operation.
Your dealer works for you

John Deere ForestSight™ technologies help optimize your machines, your uptime, and your jobsites, ultimately leading to improved profits. But don’t let “technology” scare you. Because your John Deere dealer employs a technology specialist who can help you enjoy the benefits of John Deere ForestSight with as much or as little involvement as you desire.

Your dealer technology specialist can:

– Help with telematics and prognostics program enrollment and activation.
– Monitor incoming data from telematics systems and communicate those results to you in the way you want, such as documented reports, regular meetings, or as needed.
– Interpret telematics data to suggest changes to your operation, maximizing productivity and efficiency.
– Analyze machine health alerts to recommend preventative maintenance that will head off more expensive future downtime.
– Utilize remote-diagnostic and -repair capabilities to lower costs and improve uptime.
– Share data with other dealership departments so they can better serve you.
– Quote customized preventative-maintenance programs to help you manage costs.
– Provide training if you wish to monitor and act on data in-house.
– Coordinate implementation of an Application Programming Interface (API) for utilizing telematics data in your business system.
Bringing machines, technology, and your dealer together to make your job easier

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John Deere ForestSight delivers three primary benefits:

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2. **Uptime optimization**
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   From nearly any location, you can see when and where your machines are working, how many cycles they are completing, and how much time operators spend out of the cab. This up-to-the-minute data lets you manage your production more efficiently.

Optimize *machines*

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For example:

- Identify unused machines so they can be redeployed.
- Compare fuel-burn rate across multiple machines.
- See time spent idling, to reduce unnecessary fuel consumption.
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- Set up virtual fences and authorized hours of use, to improve security.
- Locate and get directions to your machines, to save significant time.

Combined with the expertise of your dealer, John Deere ForestSight delivers answers, not just data.

**LEARN MORE** about John Deere ForestSight machine optimization technologies:

JDLink™ machine monitoring system

See pages 6–8.
Optimize uptime

We know that when you’re not up and running in the woods, you’re not making money. John Deere ForestSight provides a number of ways to significantly boost uptime, plus save drastic amounts of time and costs associated with machine repairs. And it can serve as a helpful maintenance assistant. John Deere ForestSight and your dealer can also monitor engine emission components to ensure proper operation.

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Ask your dealer about Ultimate Uptime

Not all operations are the same, so that’s why John Deere dealers offer Ultimate Uptime. Customizable fleet-advisory services are structured to boost machine availability at a cost per hour that works for you and your team. John Deere ForestSight maintenance-management tools empower you to collaborate with your dealer to maintain and monitor machine health.

With every new John Deere forestry machine, you get:

– Three years of JDLink Ultimate monitoring
– Three years of machine-health prognostics
– Remote-diagnostics and -programming capability
– World-class parts availability
– Pre-delivery set-up and followup inspections

You can work with your dealer to add many other services that meet your unique needs. For example, the Ultimate Uptime package that is best for you may include the above services plus a customized support agreement, filter kits, fluid-sampling kits, comprehensive fluid sampling, three years of full-machine warranty, operator training, and more.

Be sure to ask about your dealer’s Ultimate Uptime solutions featuring John Deere ForestSight.

LEARN MORE about John Deere ForestSight uptime optimization technologies:

- JDLink™ machine monitoring system
  See pages 6–8.
- Machine-health prognostics
  See page 9.
- Remote diagnostics and programming
  See pages 10–11.
Optimize jobsites

With John Deere ForestSight, monitor multiple machines and watch over an operator’s shoulder from many miles away to ensure the most efficient operation.

John Deere ForestSight provides information to manage costs and revenues. Variables like distance into the woods, the number of machines required, fuel use, and more are available to help you calculate costs and negotiate fair prices.

For example:
- Analyze machine movements to identify operator-training opportunities.
- See fuel levels to forecast efficient refueling.
- Monitor skidder and feller buncher production.
- Document forwarding distances to negotiate rates with mills.
- Track inventory freshness to ensure product quality.
- Identify opportunities for workflow improvements.
- View startup and shutdown times for each machine.
- View stem-count production reports for tracked feller bunchers.

LEARN MORE about John Deere ForestSight jobsite optimization technologies:

JDLink™ machine monitoring system
See pages 6–8.
Ever feel like you need to be in two places at once...especially when you’re running more than one crew at a time? JDLink can help you centrally, smartly manage machines working at multiple sites, from the fleet-management fundamentals of knowing the hours and location of all brands, to sending machine-health alerts and tracking machine production on Deere machines. Your crew members can even download the JDLink app for free to their smart phones. Just knowing where machines are working saves time and reduces phone calls.

A family of telematics devices that suits the wide-ranging needs of your multi-brand fleet:

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<th>SERVICE</th>
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<td>Hardware</td>
<td>Asset-Tracking Terminal</td>
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<td>Power required</td>
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<td>Equipment brands</td>
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<td>Equipment type</td>
<td>Stationary and mobile equipment such as tool-sheds, chippers, grinders, mulchers, generators, compressors, welding machines, trailers, and skid steer loaders</td>
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<td>Benefit</td>
<td>A value-priced, self-contained solution for equipment location and enhanced security — no electrical connection required</td>
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| Features | – Geofence  
– Machine grouping  
– Alert escalation logic  
– Dealer data services/third-party access |

Maps: Current location, location history, and driving directions
Alerts: Diagnostic trouble codes and maintenance, security, or customizable alerts
Engine hours: Daily, weekly, and cumulative hours for maintenance planning

Maintenance: Enroll in a factory-recommended maintenance plan, and automatically track upcoming intervals due for all your enrolled machines in one place

The JDLink website runs on Microsoft® Windows® Internet Explorer® 6 and higher or Mozilla® Firefox® 3 and higher browsers. The Adobe® Flash® Player plug-in must be installed.
### Choose the dual-mode option for connectivity on remote sites

If you work in extremely remote locations with spotty cell coverage, opt for the JDLink satellite module. JDLink will transmit via cellular coverage unless a connection can’t be established — then JDLink switches to satellite mode to transmit information. A machine communicating via satellite will report hours, location, alerts, and many other Ultimate data sets. Call-in frequency for a machine communicating in satellite mode is once per day. Red alerts and geofence violations are sent immediately at any time, just like when in cellular coverage. Available for JDLink Ultimate only.

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<td></td>
<td>– Remote-diagnostics and</td>
<td>– Remote-diagnostics and</td>
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<tr>
<td></td>
<td>– Programming capability</td>
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<tr>
<td></td>
<td>– Dual-mode satellite</td>
<td>– Dual-mode satellite option</td>
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<td></td>
<td>– JDLink mobile app for Apple iOS</td>
<td>– JDLink mobile app for Apple</td>
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<td></td>
<td>or Android</td>
<td>iOS or Android</td>
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<tr>
<td></td>
<td>– Dealer data services/third-party</td>
<td>– Dealer data services/third-party</td>
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<tr>
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<td>access</td>
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</table>

JDLink can be set up to send alerts via email or Short Message Service (SMS) text so you’re always in the know. Alert escalation levels can be set to be sent to multiple contacts if acknowledgement is not received within a predetermined time period. There are also JDLink apps for Apple iOS, iPhone and iPad, and Android devices that provide machine location information, engine hours, the ability to view and acknowledge alerts, and JDLink Ultimate data such as fuel consumption and level, average ground speed, and engine utilization.

Visit JohnDeere.com/jdlink for an up-to-date listing by machine type of all data viewable through JDLink Ultimate.
Rugged and dependable hardware

## HARDWARE DESCRIPTION SPECIFICATIONS

<table>
<thead>
<tr>
<th>HARDWARE</th>
<th>DESCRIPTION</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDLink Ultimate hardware — known as the Modular Telematics Gateway (MTG) — is built tough to withstand harsh forestry equipment use. It is included in base on new John Deere forestry models, and is also available as a field kit.</td>
<td>Connectors: All rated at IP67 or better</td>
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<td></td>
<td>Input voltage: 9-32VDC (switched and unswitched power)</td>
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<tr>
<td></td>
<td>Current draw (maximum): On, 0.03A; Sleep/Ears-On, 0.025A; Hibernate, 0.001A</td>
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<tr>
<td></td>
<td>Operating temperature: −40 deg. C to +75 deg. C</td>
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<td></td>
<td>Operating shock: 3-axis, 25G to 85G in 10G steps, 1,000 shocks per step (must pass)</td>
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<td>ESD: ISO 1065, 2001</td>
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<tr>
<td></td>
<td>Storage temperature: −40 deg. C to +85 deg. C</td>
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<tr>
<td></td>
<td>Bench handling: EAP-004, 90-percent probability of dropping one meter onto concrete</td>
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<tr>
<td></td>
<td>Dimensions: 150 x 75 x 25 mm (6 x 3 x 1 in.)</td>
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<td></td>
<td>Weight: 273 g (9.6 oz.)</td>
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<tr>
<td></td>
<td>Power consumption: 10 mA @ 12 volts (sleep); 65 mA @ 12 volts (active); 300 mA @ 12 volts (transmitting)</td>
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</tr>
<tr>
<td></td>
<td>Operating temperature: −40 deg. C to +85 deg. C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Storage temperature: −40 deg. C to +85 deg. C</td>
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</tr>
<tr>
<td></td>
<td>Shock and vibration: SAE J1455</td>
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</tbody>
</table>

There are two Fleet-Monitoring Terminal field kits available for JDLink Express. One is for light-duty trucks and semis, and requires an OBD-II port for installation. The other is for equipment such as skid steer loaders, compact excavators, heavy-duty trucks, tank trucks, tow trucks, and other equipment with a battery. It features a simple three-wire connection. Both terminal types install inside the machine.

- **OBD-II FLEET-MONITORING TERMINAL**
  - Dimensions: 43 x 64 x 25 mm (1.7 x 2.5 x 1 in.)
  - Weight: 51 g (1.8 oz.)
  - Power consumption: <3 mA @ 12 volts (deep sleep); <11 mA @ 12 volts (sleep on network); <140 mA @ 12 volts (active standby)
  - Operating temperature: −30 deg. C to +75 deg. C
  - Storage temperature: −40 deg. C to +85 deg. C
  - Shock and vibration: SAE J1455

- **MC-3 FLEET-MONITORING TERMINAL**
  - Dimensions: 150 x 75 x 25 mm (6 x 3 x 1 in.)
  - Weight: 273 g (9.6 oz.)
  - Power consumption: 10 mA @ 12 volts (sleep); 65 mA @ 12 volts (active); 300 mA @ 12 volts (transmitting)
  - Operating temperature: −40 deg. C to +85 deg. C
  - Storage temperature: −40 deg. C to +85 deg. C
  - Shock and vibration: SAE J1455

For JDLink Locate, the JDLink Asset-Tracking Terminal field kit utilizes an internal battery, so it can be used to provide location information and set up geofences for just about anything — toolsheds, generators, compressors, trailers, welding machines, and more. It can be attached with bolts, screws, or adhesive, and just needs clear access to the sky. Enables you to track and secure all your equipment with one application.

- **Asset-Tracking Terminal**
  - Dimensions: 55 x 55 x 260 mm (2.25 x 2.25 x 10.5 in.)
  - Weight: 907 g (32 oz.)
  - Power: 3.6-volt 57-Ah replaceable lithium internal battery
  - Power consumption: <1 mA (deep sleep); <10 mA (sleep on network); <70 mA (active standby)
  - Estimated battery life for two call-ins/day: 5 years
  - Operating temperature: −30 deg. C to +75 deg. C
  - Storage temperature: −40 deg. C to +85 deg. C
  - Shock and vibration: U.S. military standards 202G and 810F; SAE J1455

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**Ask about fleet-based pricing**

When it’s time to renew your JDLink subscriptions, we offer significantly discounted pricing based on the number of subscriptions required for your fleet. Ask your dealer for details.
Advanced healthcare for your machines

John Deere ForestSight’s machine-health prognostics evaluate machine data and “think through” maintenance protocols before prescribing downtime cures that will keep your fleet — and your bottom line — healthy.

How do we do it?

Advanced proprietary rules logic analyzes your machines’ fluids to search for irregularities and their causes and solutions. We also combine JDLink™ and machine-inspection data. All three data points are examined together, and the exclusive condition-based rules-engine logic points to the problem, measures how critical it is, and provides solutions to resolve it before downtime occurs.

A virtual fleet manager

When you utilize this John Deere ForestSight benefit, your dealer will receive machine-health alerts. So even if you don’t have JDLink set to send you alerts and don’t access its data often, your dealer will know immediately when something needs attention. You can focus on your work and not the health of your fleet.
Faster, less costly repairs

What if your dealer could warn you of problems with your machine and initiate solutions without visiting the jobsite and charging you for a technician’s travel time?

That’s what you get with John Deere ForestSight’s exclusive remote diagnostics and programming. Your Deere dealer can help you reduce downtime by accessing and resetting diagnostic trouble codes and recording performance readings remotely.

Remote performance recordings

If your machine malfunctions at 1,000 rpm, for example, your Deere dealer can use remote diagnostics to record particular machine parameters at that rpm. The technician doesn’t need to be onsite. And readings can be taken at full machine functionality, eliminating downtime.

If parts are needed to fix the problem assessed via remote diagnostics, the technician arrives onsite with the right parts without an initial trip to the field.

Remote software updates

Using remote programming, your machine can also receive wireless software updates, forestalling a technician having to come to the jobsite with laptop in hand.

Your fleet-management and -maintenance team gain twice the bench strength when your dealer and your machines are connected through remote diagnostics and programming. The advantages to owning John Deere equipment just got a lot more compelling.

Three real-world examples of how John Deere ForestSight significantly optimizes uptime:

1. **EXAMPLE**
   - JOHN DEERE ForestSight sends “clutch temperature” alert to dealer from jobsite.
   - Dealer accesses JDLINK™ website, reviews machine-performance data, and suspects the problem may be resulting from excessive inching pedal use.
   - Dealer contacts customer and makes **REMOTE DIAGNOSTICS** connection — absence of additional transmission-related codes confirms that machine is healthy. Dealer clears code.
   - DEALER confirms overall machine health is fine but advises the customer to instruct his operator not to ride the inching pedal.

   **RESULTS:** Dealer detects improper machine operation with the potential to harm the transmission over time — without a trip to the jobsite.
**EXAMPLE 2**

**REMOTE SOFTWARE UPGRADE**

1. Dealer receives a series of "engine derate" alerts from JOHN DEERE ForestSight.

2. Dealer contacts the customer, who confirms the machine is sluggish.

3. Dealer matches the derate symptoms and diagnostic code with a service bulletin that identifies the problem and requires a software update.

4. DEALER deploys an Electronic Control Unit (ECU) payload via REMOTE PROGRAMMING to update software and resolve the problem.

**RESULTS:** Dealer prevents downtime by correctly diagnosing and repairing the problem remotely.

**EXAMPLE 3**

**RIGHT PART FOR THE JOBSITE**

1. Customer contacts the dealer to report a malfunction with the bump shifter.

2. Dealer technician establishes REMOTE DIAGNOSTICS connection and records transmission data from the Transmission Control Unit (TCU) during machine operation. After analyzing the data, the dealer determines the TCU needs to be replaced. JDLINK records driving directions after locating the machine.

3. DEALER technician arrives with new TCU in hand for onsite repair.

**RESULTS:** Dealer sends a technician to the jobsite with the correct part for quick repair, avoiding an initial time-consuming diagnostic trip to the jobsite.
Your dealer works for you

John Deere ForestSight™ technologies help optimize your machines, your uptime, and your jobsites, ultimately leading to improved profits. But don’t let “technology” scare you. Because your John Deere dealer employs a technology specialist who can help you enjoy the benefits of John Deere ForestSight with as much or as little involvement as you desire.

Whether you prefer to dig into the details or operate hands-off, your dealer’s technology specialist can ensure that your John Deere ForestSight experience is exactly how you want it.