

Getting FarmTRX yield data into John Deere Operations Center

There are multiple ways to upload FarmTRX yield data into the John Deere Operations Center (Ops Center). This document outlines three scenarios for farmers who use a mixed fleet of combines—regardless of brand, age, factory-installed sensors, GPS, or displays.

FarmTRX yield monitors can be installed on any combine with a clean grain elevator and deliver either raw or cleaned/validated data to the Ops Center. The FarmTRX Web App uses sophisticated algorithms to correct for partial swaths, edge rows, and other in-the-field use cases where the raw data might be misleading. The result is clean, useable, and highly accurate yield maps that farmers and agronomists use to make important decisions.

SCENARIO 1 – FarmTRX Standalone

The simplest, most cost-effective path. No JD display or GPS hardware required. Works on any combine regardless of brand or age.

Machine Setup	Any combine — JD or non-JD — without an existing yield monitor, GPS, or display. FarmTRX hardware is installed directly on the combine.
Hardware	FarmTRX Yield Monitor (Lite or Pro; details below). Operator uses FarmTRX mobile app in-cab during harvest
Hardware Cost	**USD $2,500–$5,000** (depending on model and configuration)
Subscription	~$0.25/acre/year tiered by farm size. Automatic data cleaning, Web App Premium, API sync included
Data Transfer Method	FarmTRX mobile app captures yield data in-cab → uploaded to FarmTRX web platform for processing → API sync pushes clean & validated data to Ops Center
End Result	**Cleaned, validated yield data** in John Deere Operations Center

	Yield Monitor Lite	Yield Monitor Pro
Data Capture	Via FarmTRX mobile app, operator-initiated sync	Via FarmTRX mobile app OR automatic via built-in 4G connection — no action required
Auto-Sync	Manual upload after harvest	Automatic cellular sync during/after harvest
Live Mapping	Not available	Live in-cab yield mapping during harvest
Hardware Cost	**USD $2,500–$3,500**	**USD $3,500–$5,000**

SCENARIO 2 – FarmTRX and Full JD Display & Starfire Investment

For growers who want or are required to invest in JD display and GPS hardware. Higher upfront cost, no ongoing subscription — but data enters Ops Center as raw yield data.

Cost note: The locked JD display/Starfire package (~$4,000) restricts functionality. Full, unlocked capability is ~$20,000. The MTG modem (~$500) is required to bridge FarmTRX raw data into the JD system.

Machine Setup	Any combine — JD or non-JD — without an existing JD display or GPS. Customer commits to purchasing JD display + Starfire GPS hardware.
Hardware	FarmTRX Yield Monitor, JD Display (locked or unlocked), JD Starfire GPS, JD MTG Modem, and JD Bridge (Bridge required to connect FarmTRX data into JD ecosystem)
Hardware Cost	FarmTRX: $2,500–$5,000, JD Display/Starfire: $4,000 (locked)–$20,000 (unlocked), MTG Modem: ~$500, AgraGPS Bridge ~$1,000. **Total range: ~$8,000–$26,500**
Subscription	None — data transfer is handled through JD hardware ecosystem
Data Transfer Method	FarmTRX captures raw yield data → MTG modem bridges data into JD display/Starfire → JD system syncs raw data to Ops Center
End Result	**Raw yield data** in John Deere Operations Center (no data cleaning step)

SCENARIO 3 – FarmTRX + Existing JD Display & Starfire (Hybrid)

For growers who already own a JD display and Starfire GPS. The major JD hardware investment is already made — only the FarmTRX yield monitor and a bridge modem are required.

Machine Setup	Combine already running a JD display and Starfire GPS. No yield monitor currently installed. FarmTRX adds yield measurement capability.
FarmTRX Hardware	FarmTRX Yield Monitor + JD MTG Modem (bridges FarmTRX yield data into existing JD display/Starfire)
Hardware Cost	FarmTRX: $2,500–$5,000, MTG Modem: ~$500, AgraGPS Bridge ~$1,000. **Total cost: ~$4,000–$6,500** (JD hardware already owned)
Subscription	None — data transfer handled through existing JD ecosystem
Data Transfer Method	FarmTRX captures yield data → MTG modem bridges into existing JD display/Starfire → JD system syncs raw data to Ops Center
End Result	**Raw yield data** in John Deere Operations Center (no data cleaning step)

Cost & Feature Summary

	Scenario 1 FarmTRX Only	Scenario 2 FarmTRX + Full JD	Scenario 3 FarmTRX + Existing JD
Hardware Cost	**$2,500–$5,000**	**$8,000–$26,500**	**$4,000–$6,500**
Ongoing Cost	~$0.25/acre/year	None	None
JD Hardware Needed	None	Display + Starfire + MTG + Bridge	MTG + Bridge (display/GPS owned)
Data Cleaning	Yes — via FarmTRX web platform	No — raw data	No — raw data
Auto-Sync Option	Yes — YM Pro with cellular chip	Yes — via JD ecosystem	Yes — via JD ecosystem
Live In-Cab Mapping	Yes, YM Pro only	Yes, YM Pro only	Yes, YM Pro only
Works on Any Combine	Yes	Yes	Yes
Result in Ops Center	Cleaned yield data	Raw yield data	Raw yield data

Our Recommendation

For the majority of growers, Scenario 1 — FarmTRX Standalone — is the right starting point. It is the lowest barrier to entry, works on any machine, and is the only path that delivers cleaned, validated yield data into Ops Center.

The data cleaning step is not a minor detail: raw yield data contains sensor noise, flow delays, and calibration drift that can distort agronomic analysis. FarmTRX cleans that data before it ever reaches Ops Center.

For growers who already own a JD display and Starfire, Scenario 3 adds FarmTRX yield monitoring with minimal additional investment (only the MTG modem and AgraGPS Bridge are needed on top of FarmTRX hardware).

Scenario 2 is available for growers committed to a full JD hardware investment, but the cost differential — up to $20,000 more in hardware — is substantial and does not improve yield data quality.

Contact Information

FarmTRX
43 Auriga Drive
Ottawa, Canada K2E 7Y8

Info@farmtrx.com
1-800-991-5136
www.farmtrx.com