Stoneville Ginners School
2017 Cotton Harvester Updates

Christopher Murray

JOHN DEERE

Model Year 17 Cotton Updates

- Cotton Moisture Sensor
- Round Module Weighing
- Harvest Identification, Cotton Pro

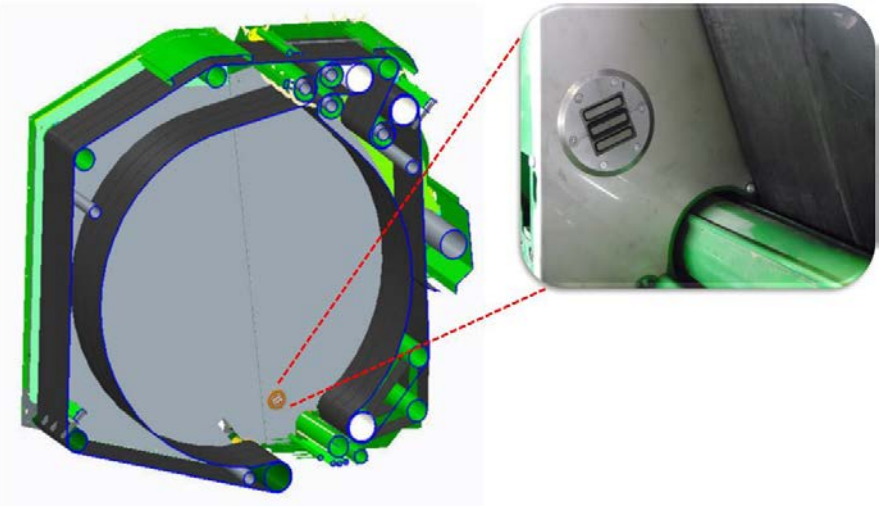
HID, Cotton Pro Gin Integration Information

- Round Module Wrap RFID Information
- RFID Bridge
- MyJohnDeere Account

Cotton Moisture Sensor

Value Proposition Highlights

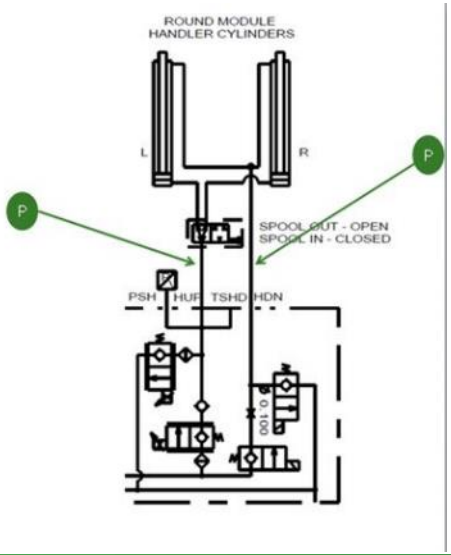
- Preserve cotton quality
- Real time in-cab decision tool
- Industry leading accuracy and reliability
- Enables maximum gin efficiency
- Measures moisture of cotton in contact with the sensor as module is forming (capacitance)
- Maximizes the harvest window by measuring cotton moisture on the go and provides data to operator and down stream data system *(Harvest ID, Cotton Pro)*

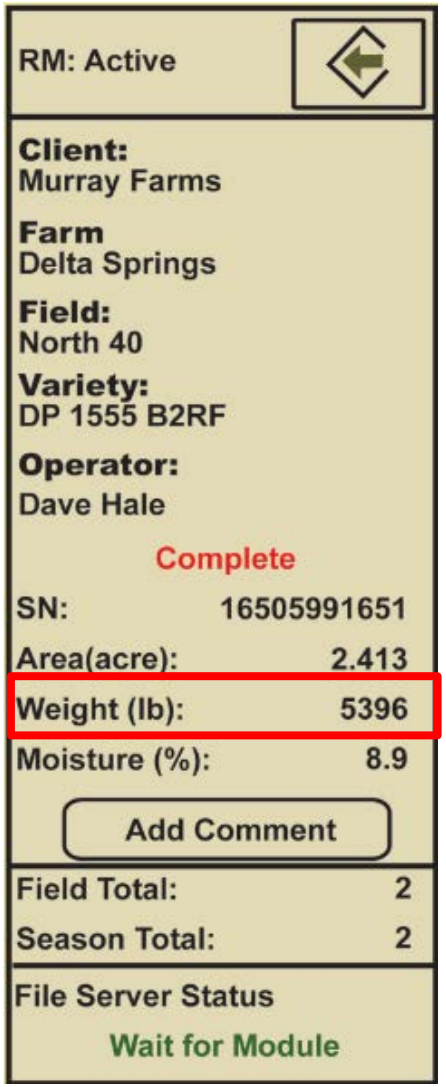


Cotton Round Module Weighing

Value Proposition Highlights

- Provides method for simple and fast calibration of cotton yield monitor system
- Real time feedback of module weight
- Measures weight of module on handler at carry position via pressure sensors and GPS compensation
- Provides information to operator and down stream data system *(Harvest ID, Cotton Pro) – post harvest management*





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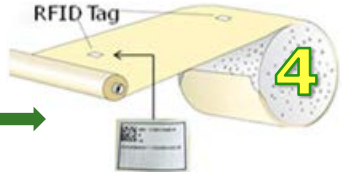
Harvest Identification, Cotton Pro

Dirt to Shirt Traceability



RFID Reader

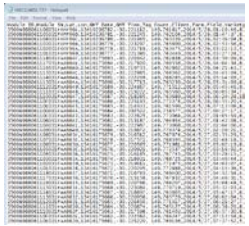
SF6000

HID, Pro Controller

GreenStar™ 2630 Display w/ HID, Cotton Pro

USB or Data Card

MTG JDLink



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Field Analyzer

COTTON LEADS™

Cotton Incorporated

National Cotton Council

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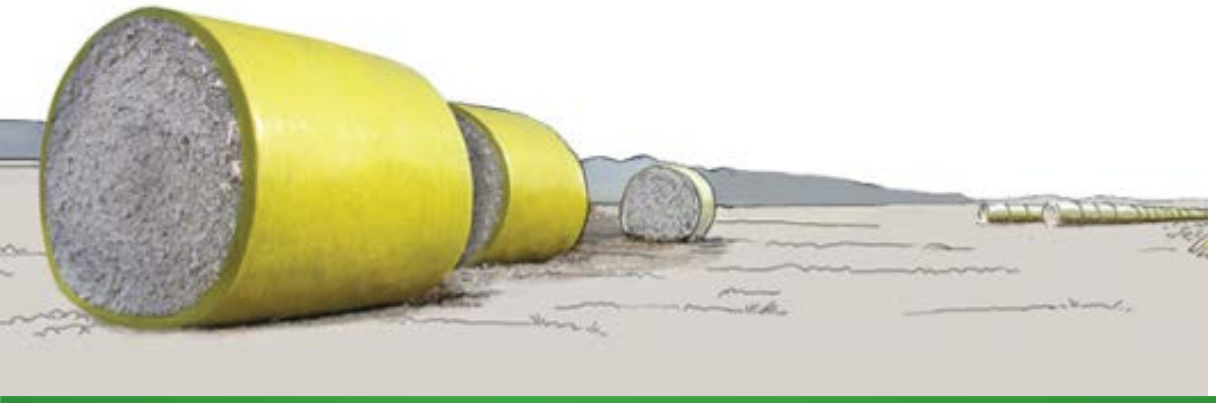
Information Documented by Harvest Identification, Cotton Pro for Every Module

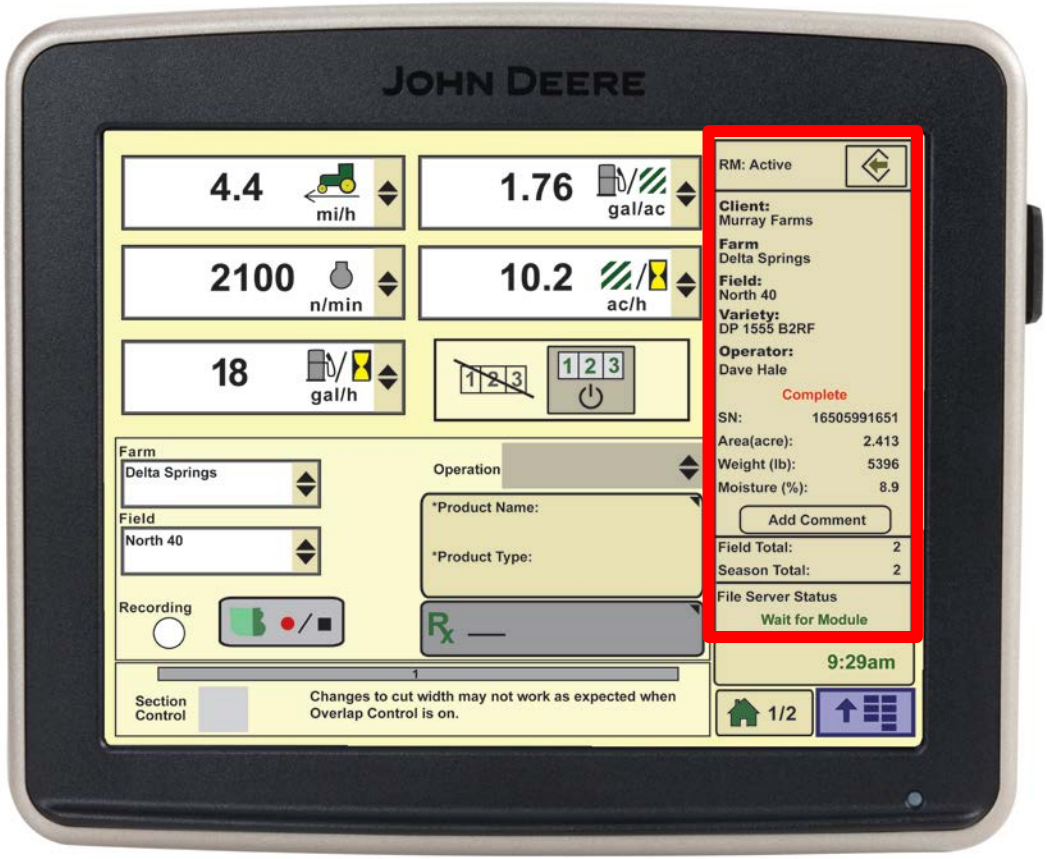
- Module ID
- Module SN
- Latitude
- Longitude
- GMT Date/Time
- Tag Count
- Client
- Farm
- Field
- Variety
- Machine PIN
- Operator
- Gin ID
- Producer ID
- Local Time
- Field Area
- Season Total
- Diameter
- Moisture
- Weight
- Drop Latitude
- Drop Longitude
- Field Total
- Incremental Area
- Local Date
- Comments



Harvest Identification, Cotton Pro

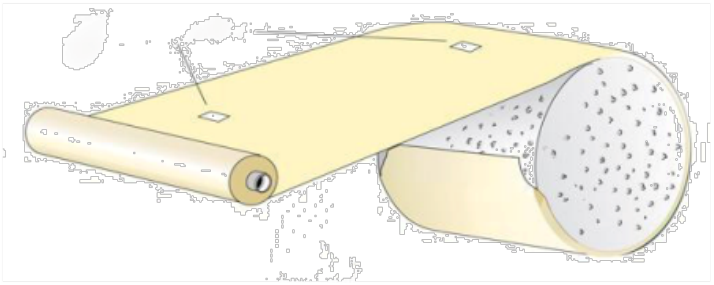
Value Proposition Highlights

- **Operational Features Added**
  - Auto SN
  - Notifications
  - Comments
  - History
  - Field File Sorting
  - Auto CFF/Season Counter Reset
- **Data Elements Added**
  - Incremental area
  - Moisture, Weight
  - Local/Display timestamp
  - Drop Location



HID, Cotton Pro Gin Integration

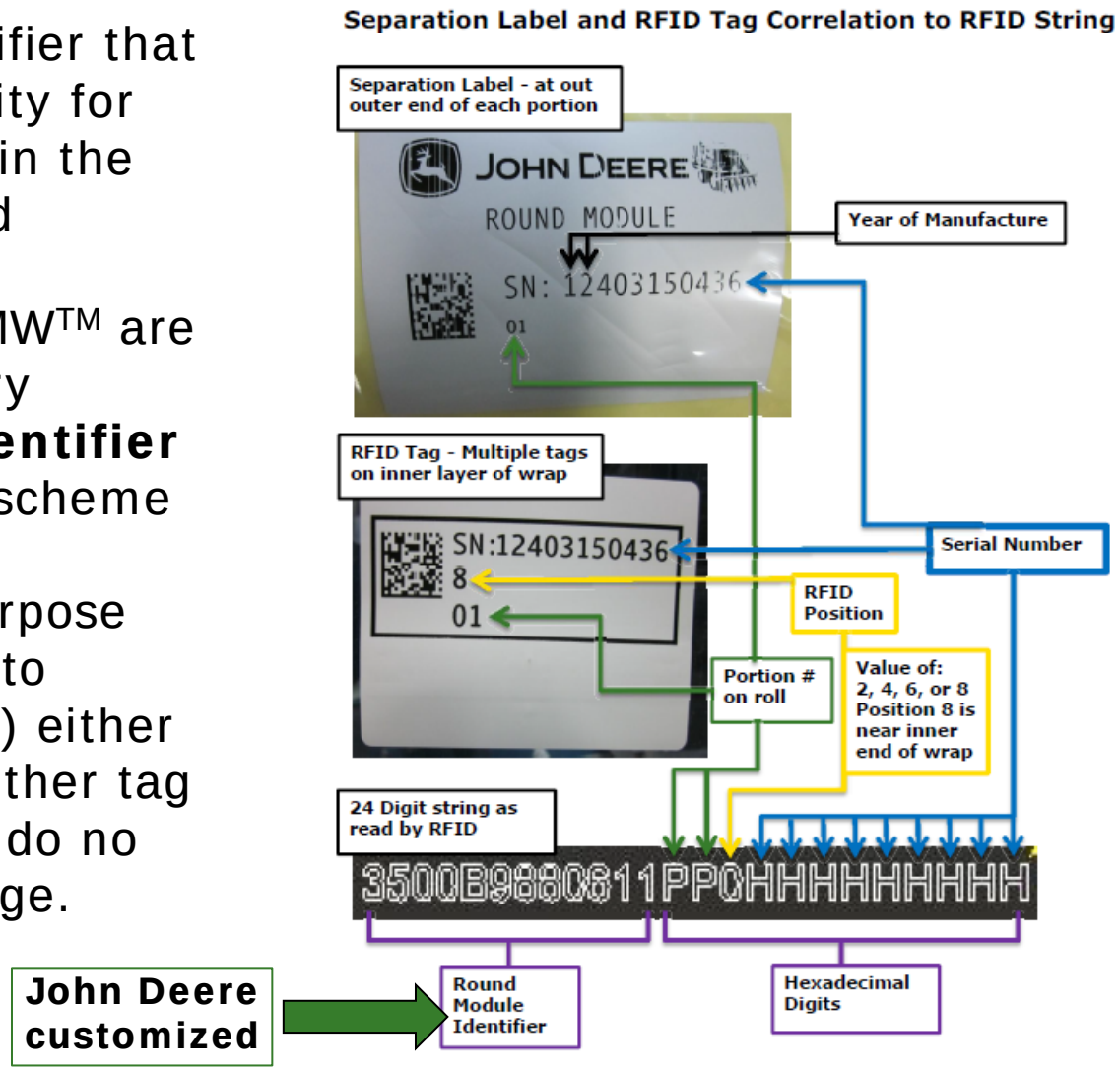
Round Module Wrap RFID Information



- Monza® 5 UHF tag chip used in TAMA RMW™ – chip is industry leader in reliability, consistency – made by Impinj
  - EPCglobal and ISO 18000-6C compliant
  - Detailed specs available on Impinj website
- John Deere holds exclusive patents for RFID tags embedded in cotton round module wrap – significant R&D to develop, implement and maintain (Patent #'s US7694491, US8071196, US8087216)
- Available exclusively in TAMA RMW™ with patented Z-lock
- On-board RFID antennae supplied by Intermec
- Round Module Wrap will has 4 tag chips

Electronic Product Code – GID-96 standard

- **EPC** – universal identifier that provides unique identity for every physical object in the world – open standard
- RFID tags in TAMA RMW™ are encoded using industry standard **General Identifier 96** (**GID-96)** coding scheme
- **GID-96** - general purpose standard that is used to identify things that (1) either don't fall neatly into other tag data standards or (2) do no have a barcode heritage.



Round Module Movement

Harvest Identification, Cotton – Module traceability in the field

RFID Bridge

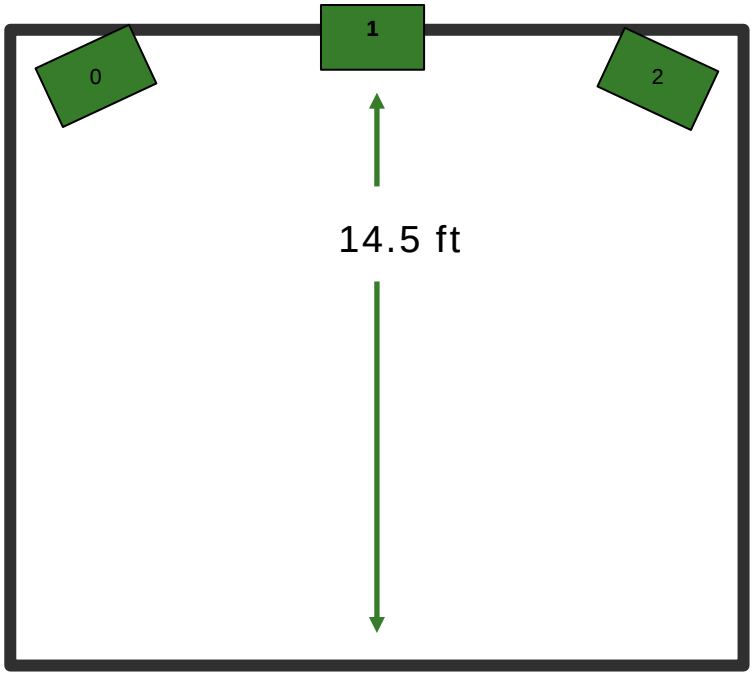
Gin Yard

RFID Reader on feed floor

This is a visual representation of module traceability from the field to gin feed floor.

RFID Reader Bridge

RFID Bridge - Gin Recommendations



Antenna Placement:

Three antennas are recommended located approximately 14.5 feet high, with 5 feet between each unit. The outside units should be angled inwards at 25 degrees as shown in the picture above and in the previous slide.

Vehicle Speed:

In order to give the antennas the best opportunity to read difficult tags, the vehicle needs to be moving through the portal at approximately 1 mph but not over 2 mph.

Barcodes Inc.

Product		Price	Qty	Total
	Impinj IPJ-REV-R420-USA2M1 Speedway Revolution R420 RFID Reader, UHF, Fixed, 4-Port, Power over Ethernet (PoE), GPIO. Does not include power supply or power cord. For use in North America, FCC. Must purchase Antenna Hub (Part# IPJ-A6001-000) for 32 antenna support. Replaces Part# IPJ-REV-R420-USA1M1. Ships Today	$1,585.00	1 Update Item Remove Item	$1,585.00
	Impinj IPJ-A1000-USA Speedway Accessories Far Field LHP Antenna (FCC) (10.1 x 10.1 x 1.4 inch) with 8 ft. pigtail cable. Ships Today	$180.00	2 Update Item Remove Item	$360.00
	Impinj IPJ-A1001-EU1 Far Field RHP Antenna (ETSI) (10.1 x 10.1 x 1.4 inch) with 8 ft. pigtail cable. **Ships In 3-5 Days**	$180.00	1 Update Item Remove Item	$180.00
	Impinj IPJ-A2002-000 Speedway Accessories Universal Power supply (Without AC Power cord) Ships Today	$75.00	1 Update Item Remove Item	$75.00
	Impinj IPJ-A2051-USA Speedway Accessories AC Power Cord, US, Compatible with Impinj. Ships Today	$10.00	1 Update Item Remove Item	$10.00

Promotional Code [ ] Apply

Estimate Shipping

Subtotal $2,210.00

Total **$2,210.00**

Proceed to Checkout

Sales rep: Nick McKiernan

BarcodesInc

200 W Monroe, 10th Floor
Chicago, IL 60606
Fax: 1-312-583-9215
Direct: 1-312-582-4864
Toll Free: 1-800-351-9962 Ext. 4864
NMcKiernan@barcodesinc.com

- Ethernet cable not priced in this list
  - Each gin will need Ethernet cable and the length will be based off of each location needs.

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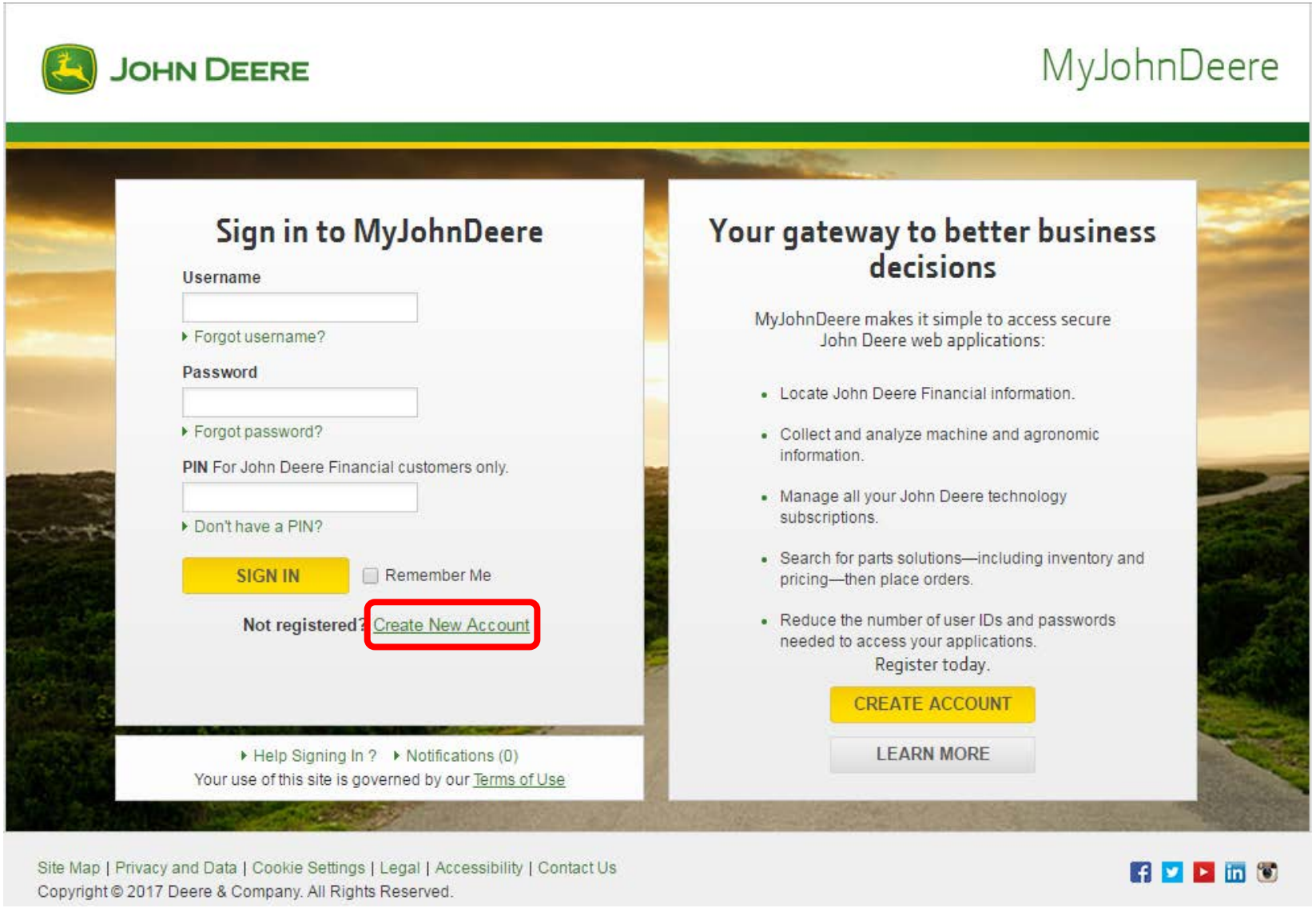

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HELLO, Christopher

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My Solutions

ICONS : **Small** | Medium | Large

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JDParts

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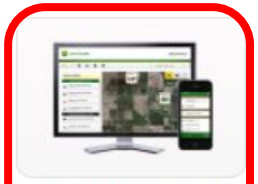

Operations Center

JDLink™ Dashboard

JDLink™

TimberNavi™ Jobsite Mapping

Field Connect

AgLogic™

John Deere University

Weather 50023

Get your personalized local weather information from trusted partner DTN.

Today	High: **62°**	Low: **50°**
Wednesday	High: **64°**	Low: **48°**
Thursday	High: **72°**	Low: **44°**

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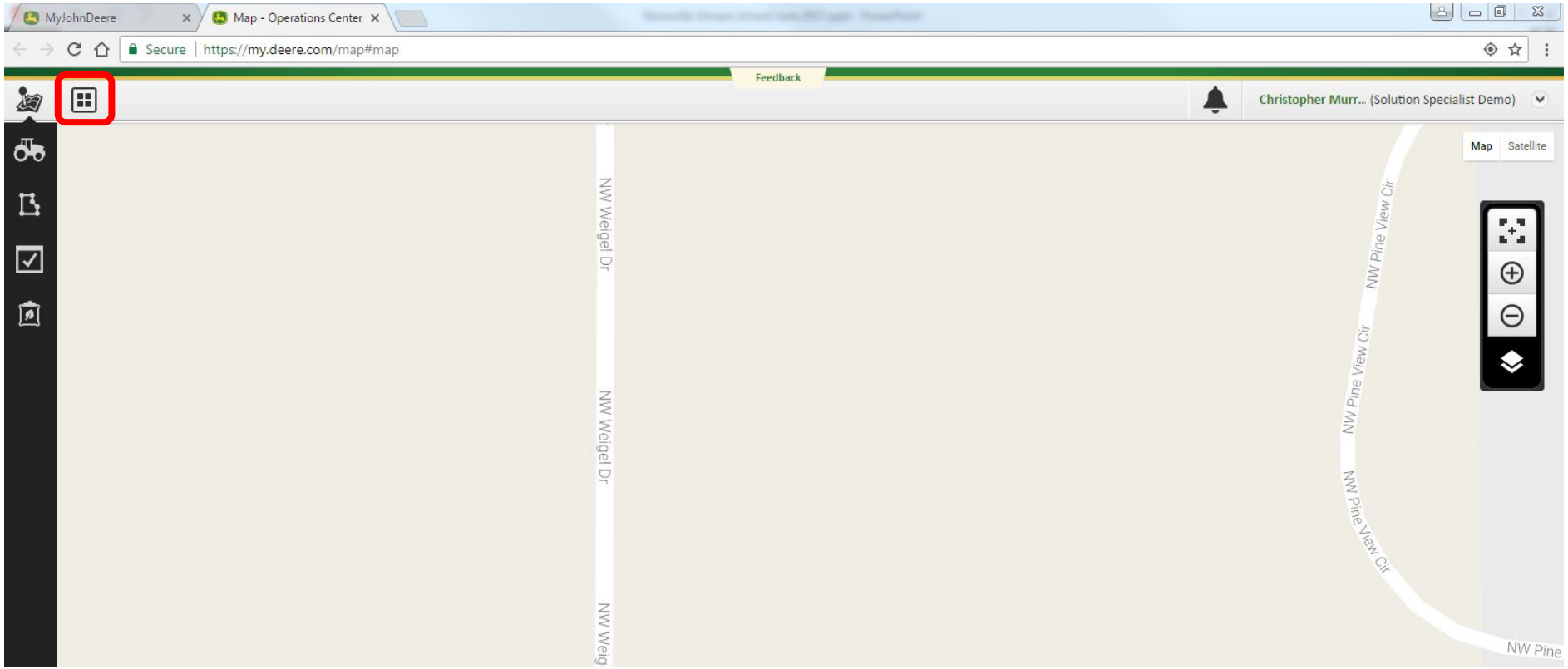

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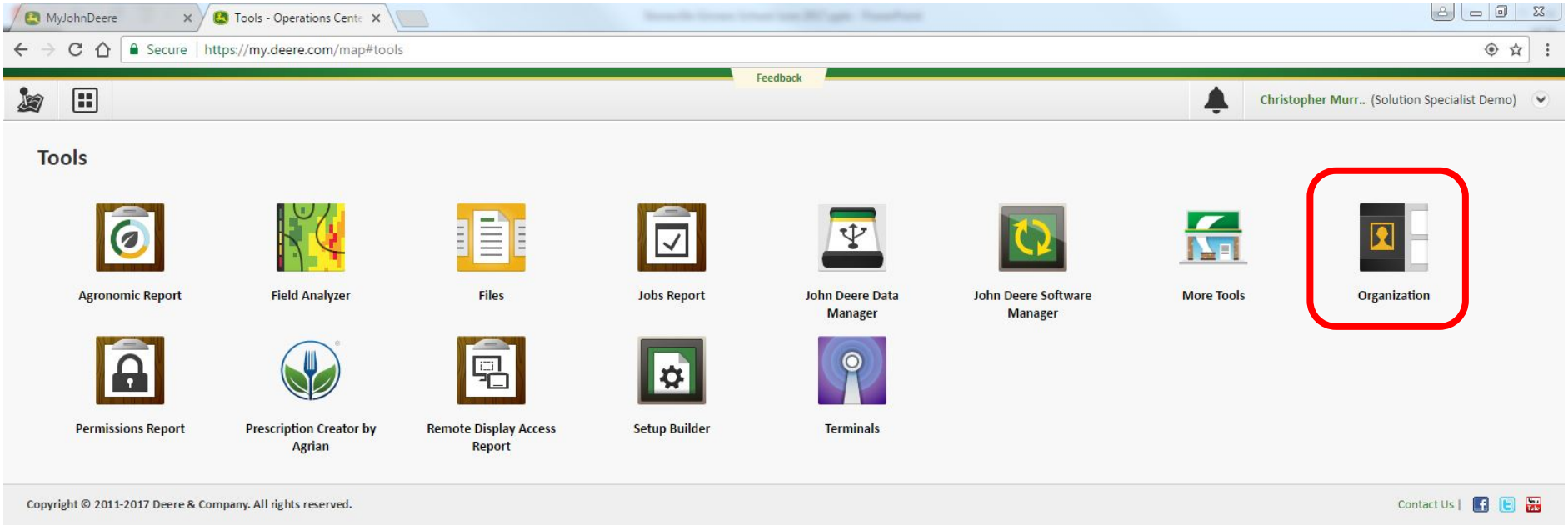

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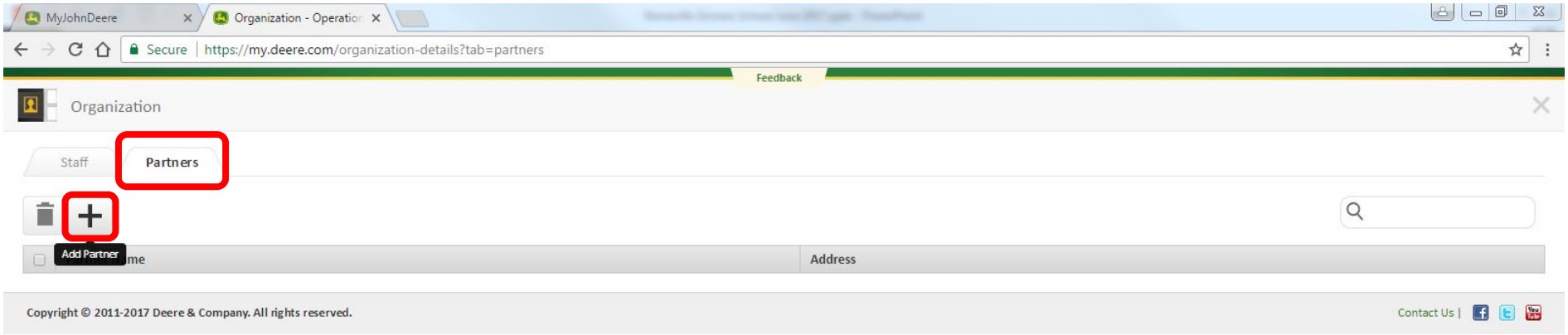

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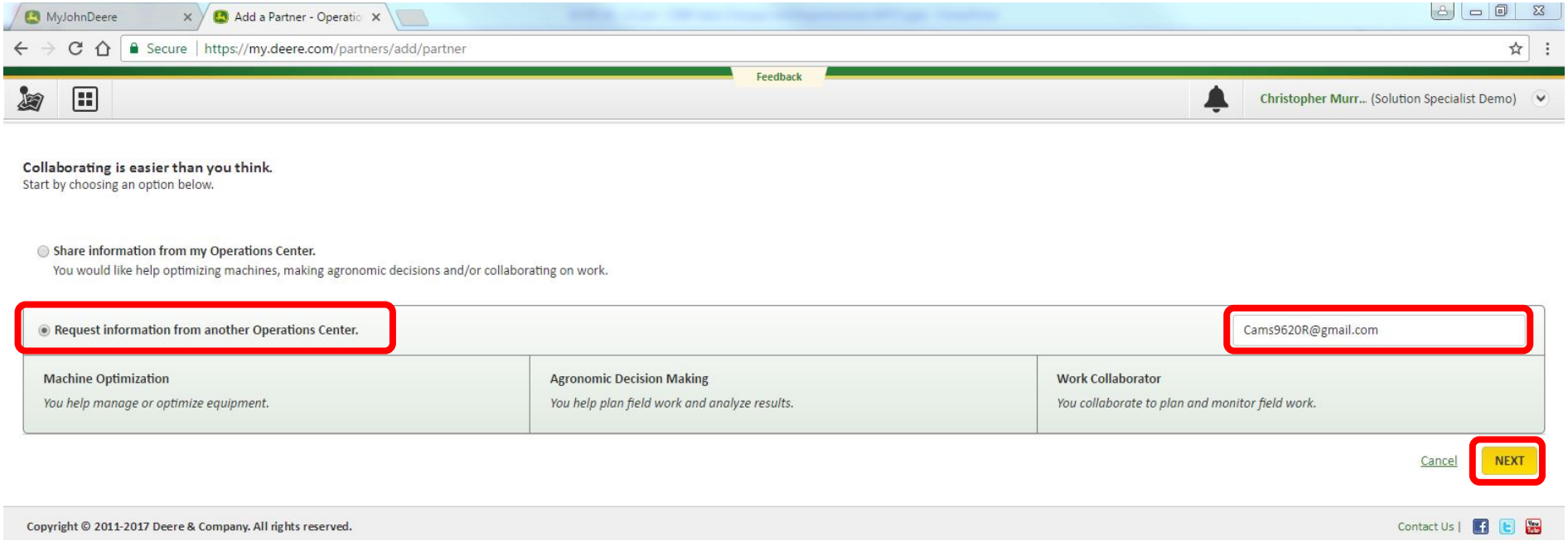

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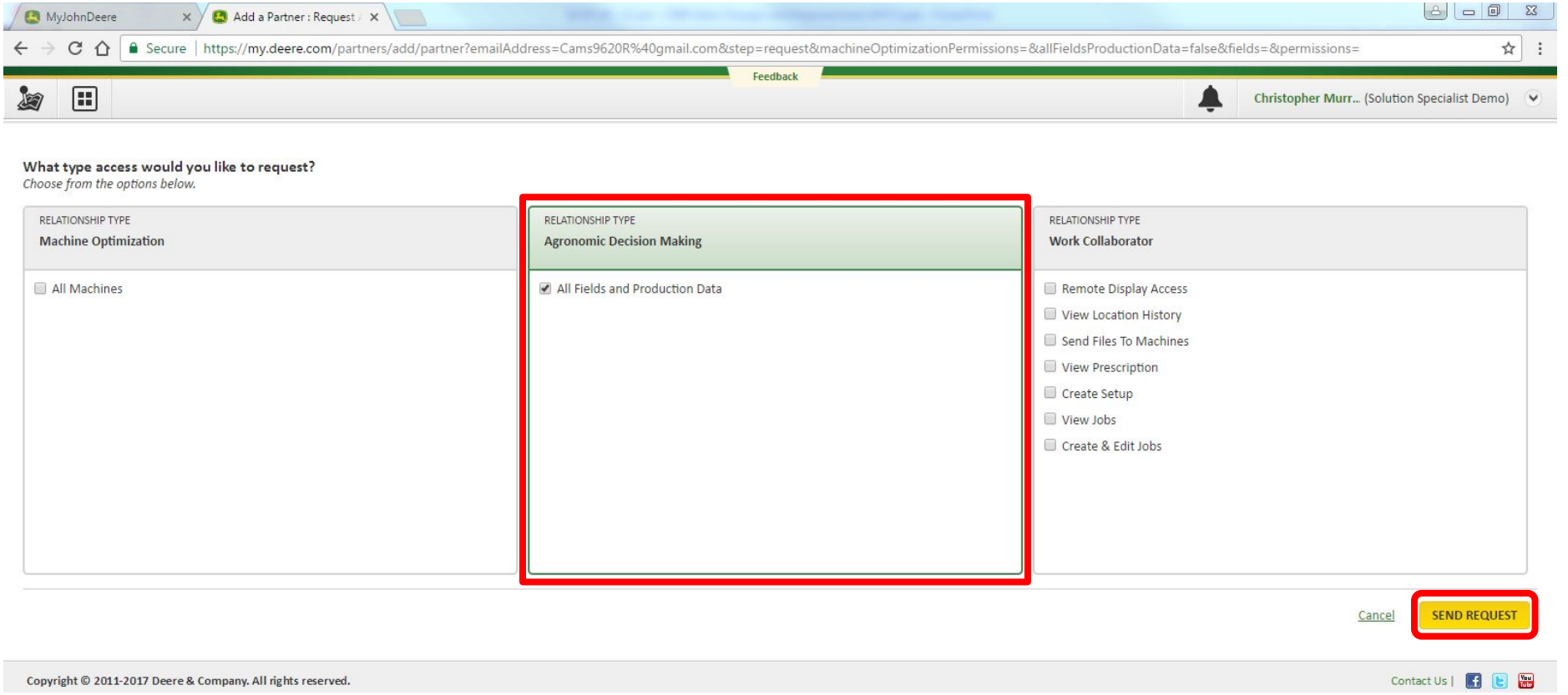

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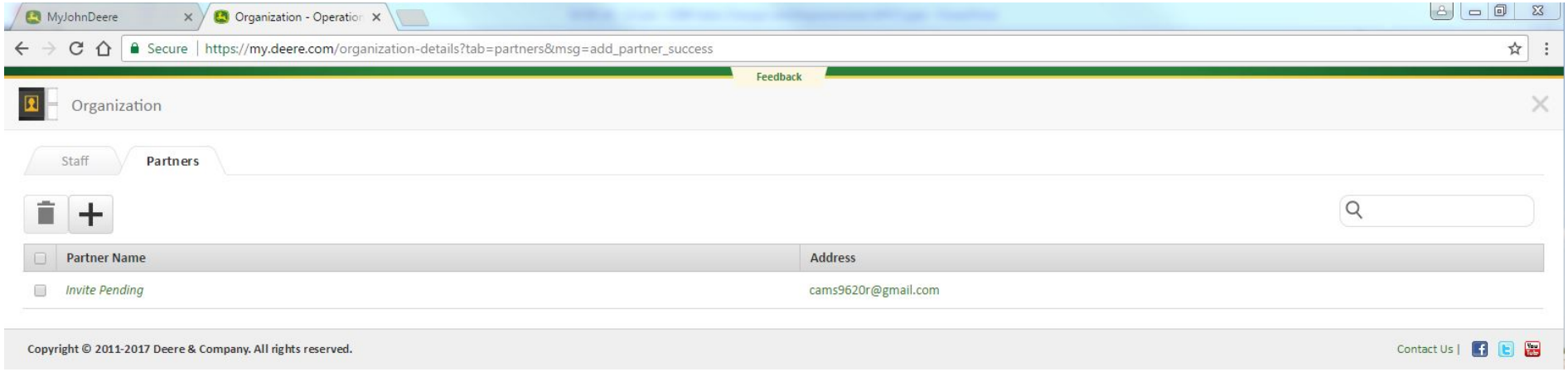
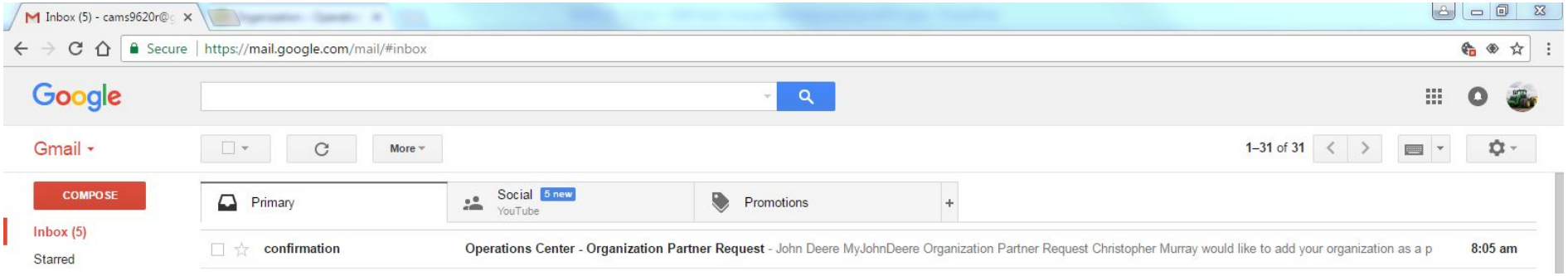


John Deere Operations Center Confirmation E-mail



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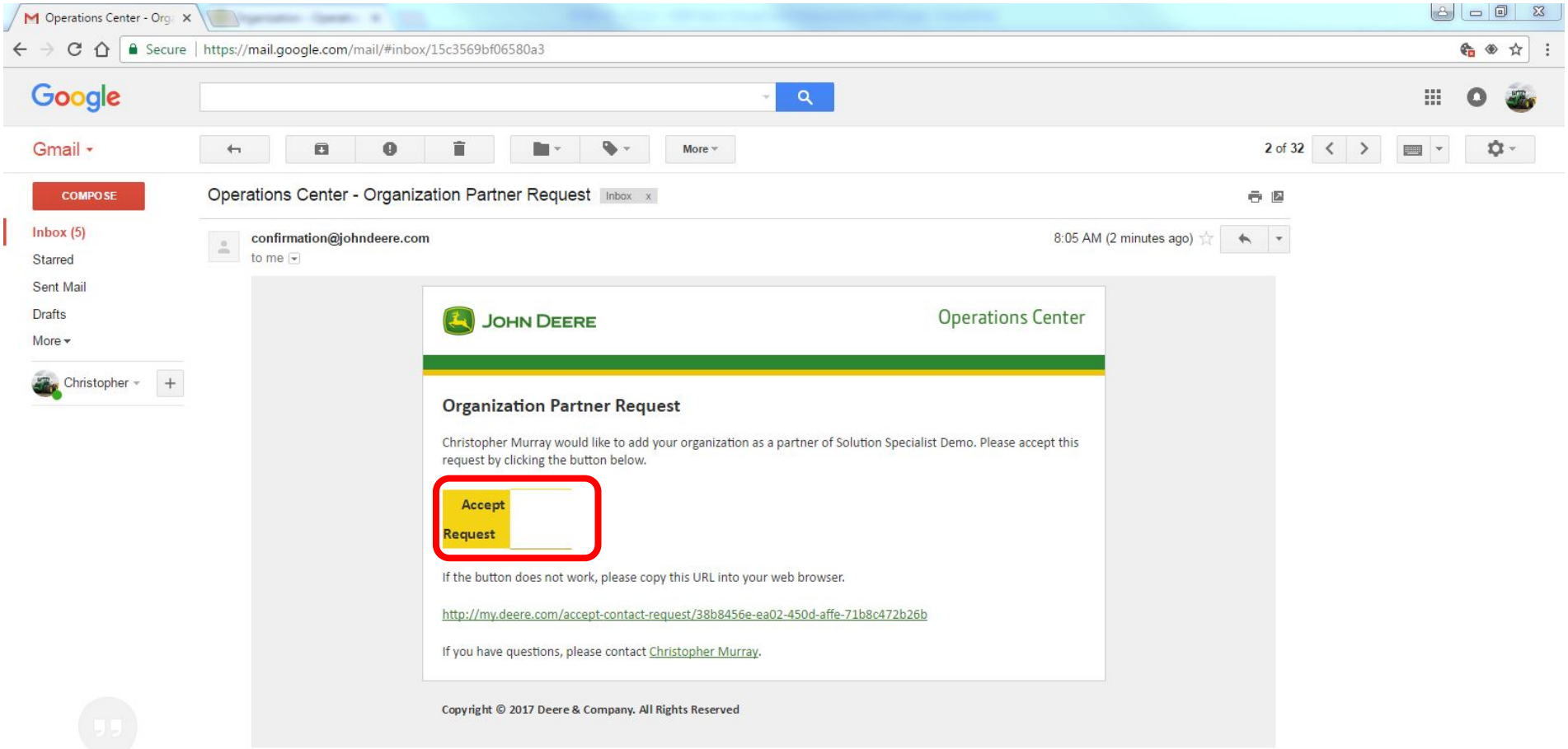

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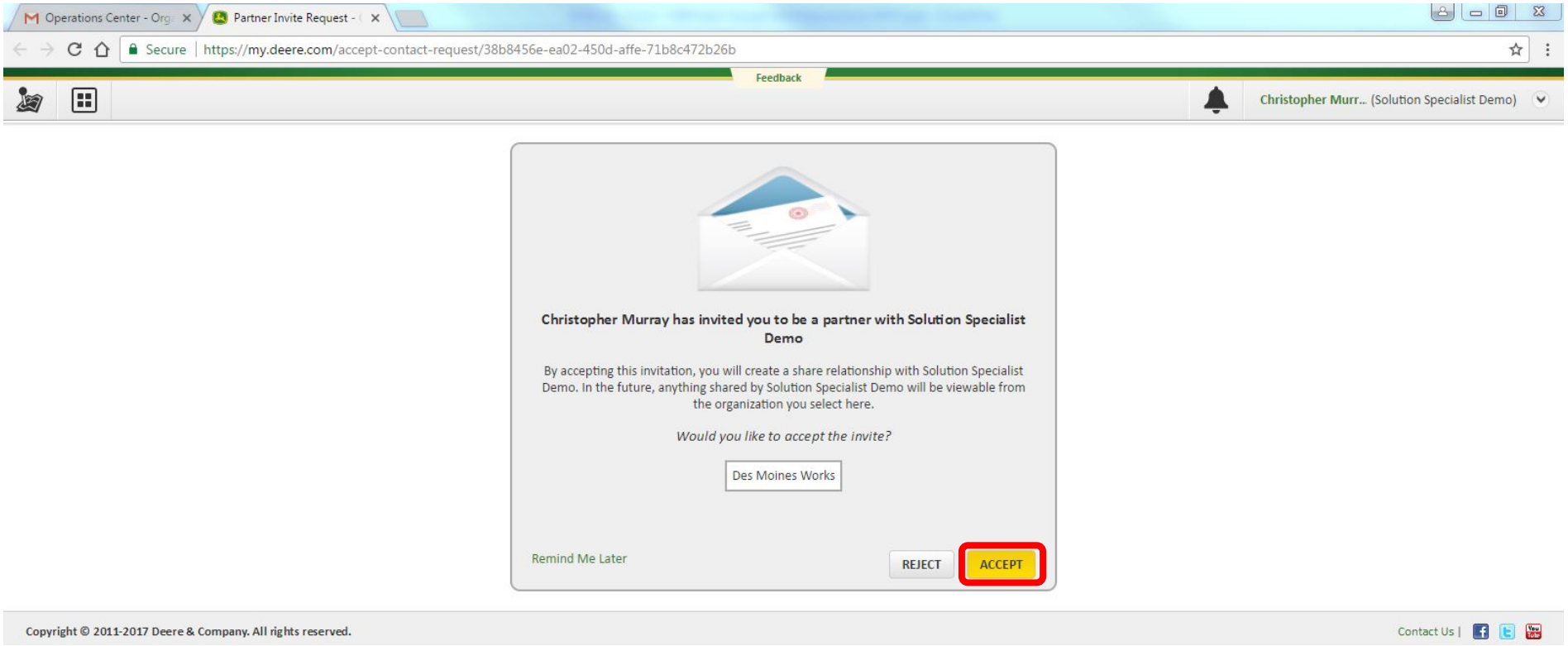

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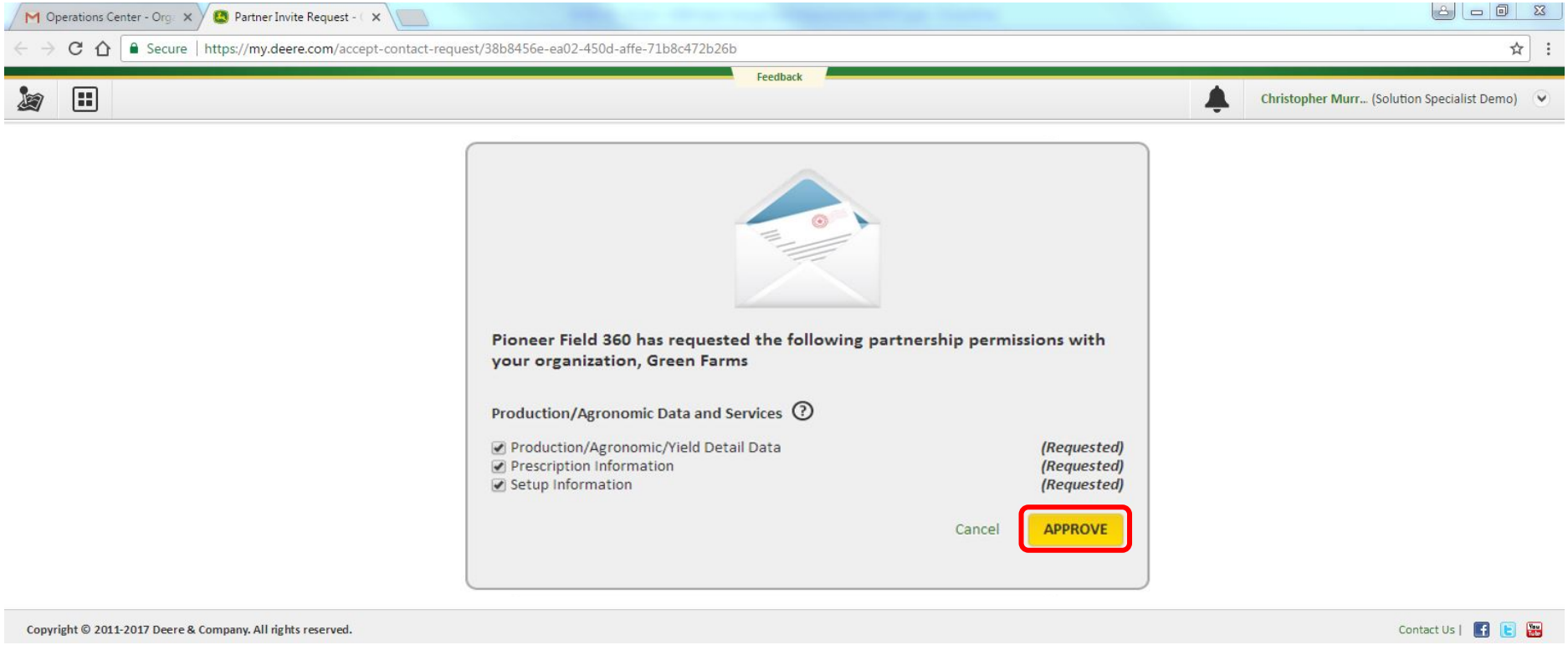

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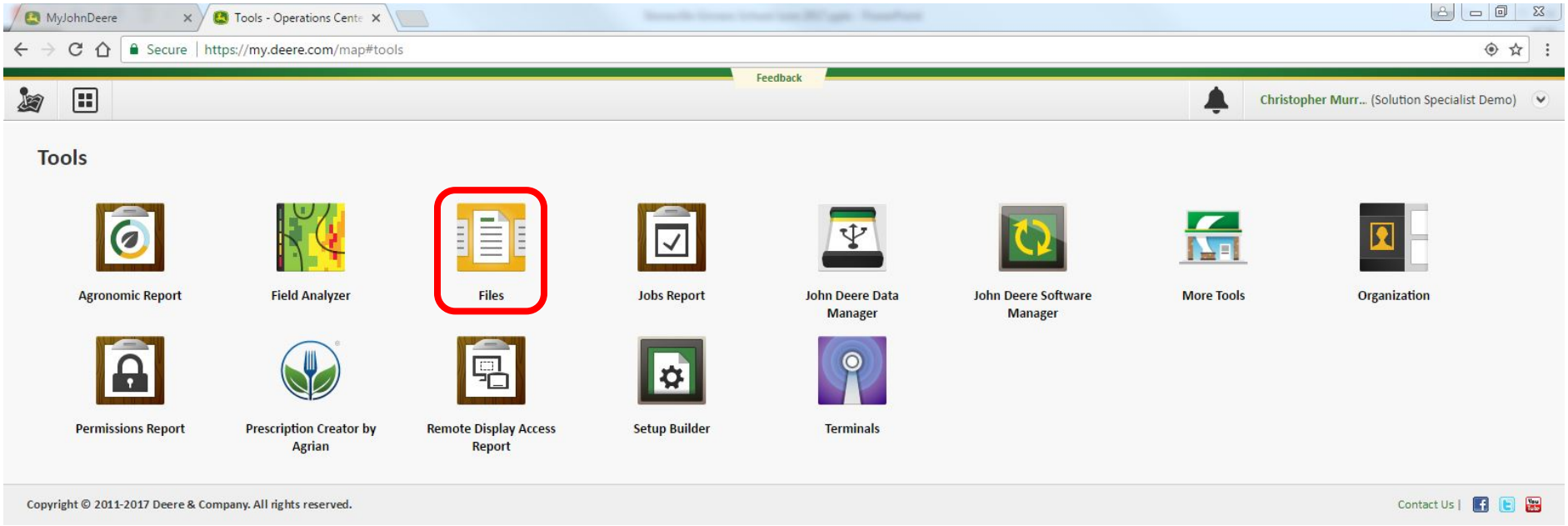

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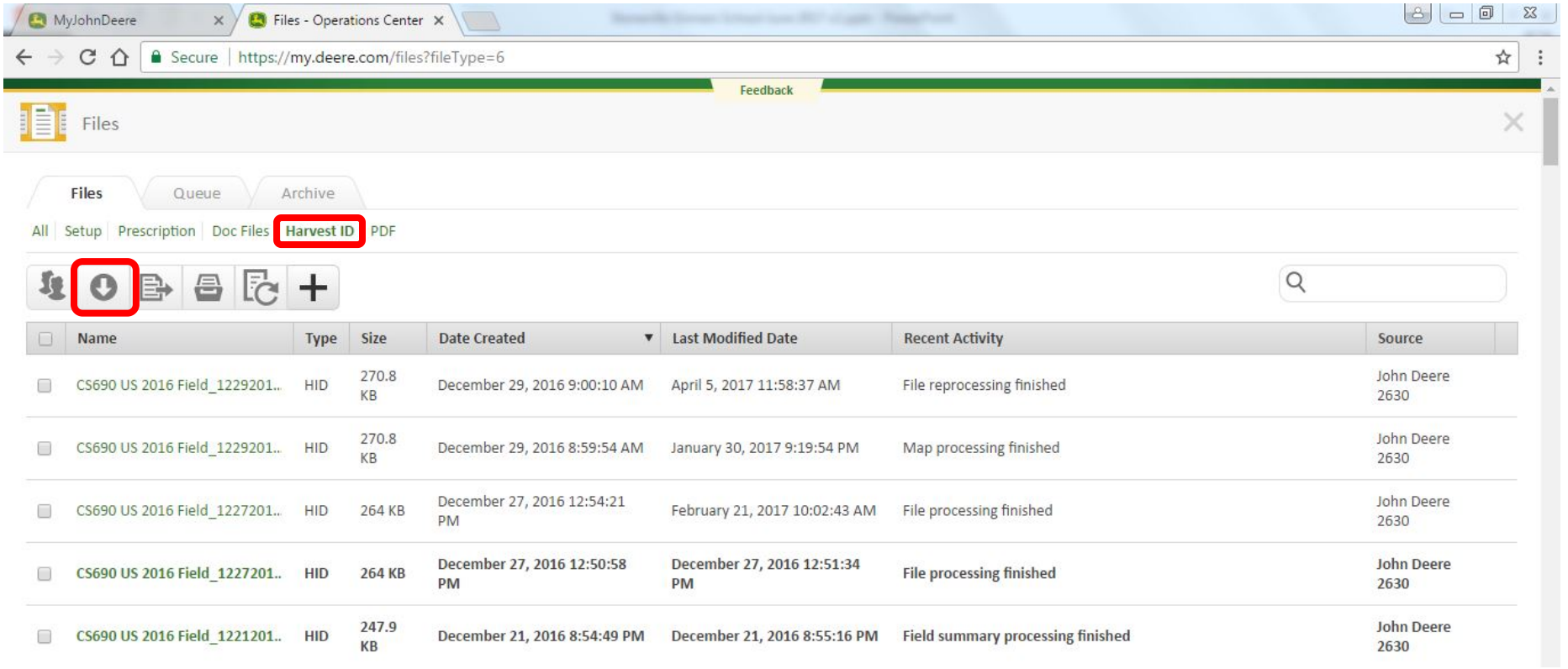

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