

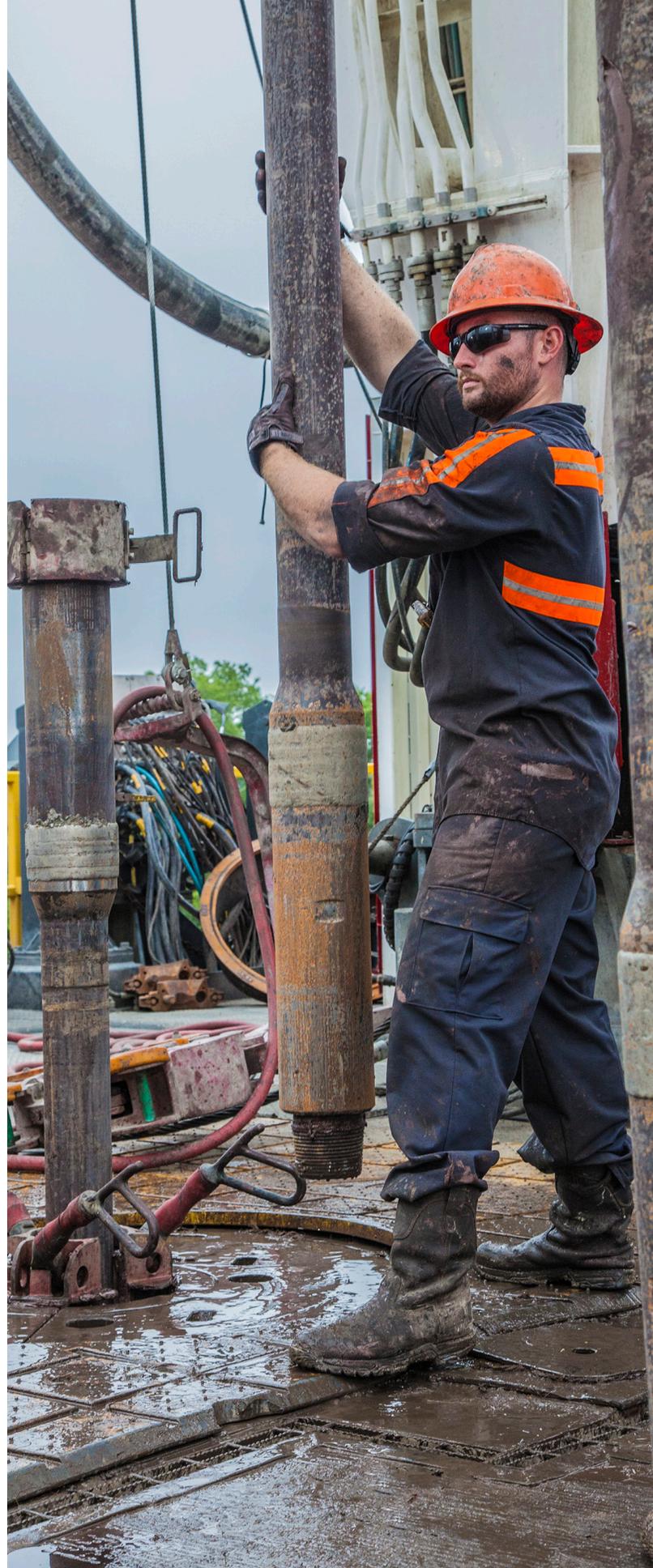
# Max Tracker

Cloud-based tracking software  
to confidently manage assets



## Choose with Confidence: NOV Asset-Tracking Enabled by Radio-Frequency Identification (RFID)

Max Tracker allows you to make the most of your assets by accurately tracking their specifications, location, and history by serial number. Record information of any type, from any source, with anywhere anytime access through our cloud-based web and mobile applications that make asset information available when you need it. Rugged and reliable low-frequency RFID tags are a superior alternative to tracking assets by stamped serial numbers. Proven to survive downhole, RFID tags deliver precise readability, enabling you to identify your assets accurately and efficiently.



## Make the most of your assets with Max Tracker asset-tracking software

Max Tracker makes asset information by serial number available wherever you are. Know what assets are, where they are, and where they've been so you can use them well and use them often.

**Know what assets are.** At its most basic, Max Tracker is an asset register, listing items by serial number to sort, search, and filter. Items appear color-coded to indicate readiness so it's clear which ones are good to use, need service, or should be avoided. Selecting an item opens an individual asset record that includes the asset's specifications, availability, location, and history. Format records to include any type of information relevant to that asset or asset type, including documents, images, and comments. Share records with anyone who interacts with your assets, limiting them to a read-only view or allowing them to work with you to update information and ensure it is current.

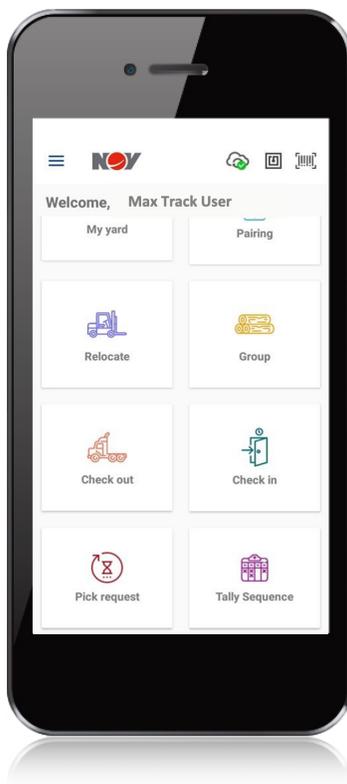
**Know where assets are.** Max Tracker tracks asset location by serial number, not quantity, so you know what assets are where. Follow assets as they move across geographic and organizational boundaries, scanning as they move or manually relocating to reflect in-field changes. Check items out when they leave a location and checking back in when they return. Manage dispersed assets from the office and the field, tailoring responsibilities to roles. For example, use the mobile application to identify groups of assets then review and update information for those groups from the web.

**Know where assets have been.** Max Tracker chronicles the history each asset, listing individual asset histories to provide insight into the asset's condition. Asset histories include all transactions performed within the application and any events logged for what's occurred outside it. Log basic details about what happened when, and where. For service events, include individual results and measurements, attaching complete inspection or maintenance reports for more detail. Asset records update automatically to reflect recorded changes.

## Max Tracker supports administrative and field operations through distinct web and mobile applications.

Access the web application through NOV's Access portal or download the mobile application to any Android device (v 7.0 or higher). (An Apple iOS version will be available later this year.) The mobile application works entirely offline with information current as of the last cloud synchronization, updating any offline changes when next connected.

Max Tracker is cloud-based, so it's always current and completely secure; it's configurable, designed to track assets to users' desired level of detail; and it's compatible, capable of supporting any type of asset or tag. Optionally, assign one or more unique machine-readable codes to asset records so that asset information appears upon scanning from the mobile application. Max Tracker supports proprietary RFID tags scanned with Bluetooth-paired readers and bar and QR codes or NFC tags scanned with the built-in camera on the device running the mobile application. Users can even create unique bar and QR codes from within the application and assign directly to individual assets.



## Identify assets accurately with TracID RFID tags

TracID™ low-frequency RFID TracTags are a machine-readable alternative to stamped serial numbers. The only RFID tag proven to survive downhole, they are ideal for identifying drillstring components.

TracID tags deliver 99.5% readability over a ten-year service life, despite exposure to harsh downhole conditions. Cased in PEEK plastic, they can withstand temperatures of -58° to +400°F (-40° to +200°C) and pressures up to 22,500PSI (1550 bar). Installed securely on the pin end at manufacture or retrofit, tags have no impact on equipment integrity or rating. Installation involves drilling and tapping the tool joint, recessing the tag into a mill slot, screwing into the tapped hole, and securing with a locking adhesive. There have been no recorded detachments downhole. Should a tag ever require replacement, NOV can remove and replace in the original slot.

Inherently void of asset information, tags display only their unique identifier (UID) when scanned. They will only pull up other information once assigned to a specific asset or location record within a dedicated software, like Max Tracker.



## Max Tracker's mobile application supports two types of handheld RFID readers.

**M500 Android Mobile Computer:** Rugged tablet with 5.0-in. Gorilla Glass touchscreen and integrated reader is well-suited for yard environments. Download the mobile application directly to the device.

**Tectus Multipen 4030:** Pen-shaped reader that transfers RFID tags' UID via Bluetooth to a connected device running the mobile application. Available in industrial, Class 1 Division 1, Class 2 Division 1 configurations. Compatible Android ECOM tablet meets most stringent requirements.



## Investing in drillstring component tracking often begins with a decision to install tags

Adding tags to drillstring components during the manufacturing process is more cost-effective than retrofitting since installation is easier on loose tool joints than tubulars. Any customers interested in drillstring component tracking should include tags in their purchase of pipe (often seven months or more prior to delivery) even if they have yet to decide what information they want to track since they can acquire required software later.

## Choose with confidence

For offshore customers, NOV offers two levels of RFID-supported asset-tracking.

**Identification.** View read-only asset information, including asset serial number, specifications, original documentation, and other identifying information in Max Tracker by searching or scanning assigned tags.

**Management.** Identify, locate, evaluate, and manage globally dispersed assets with Max Tracker, capturing specifications, tracking locations, logging events, and recording changes in custody and control.

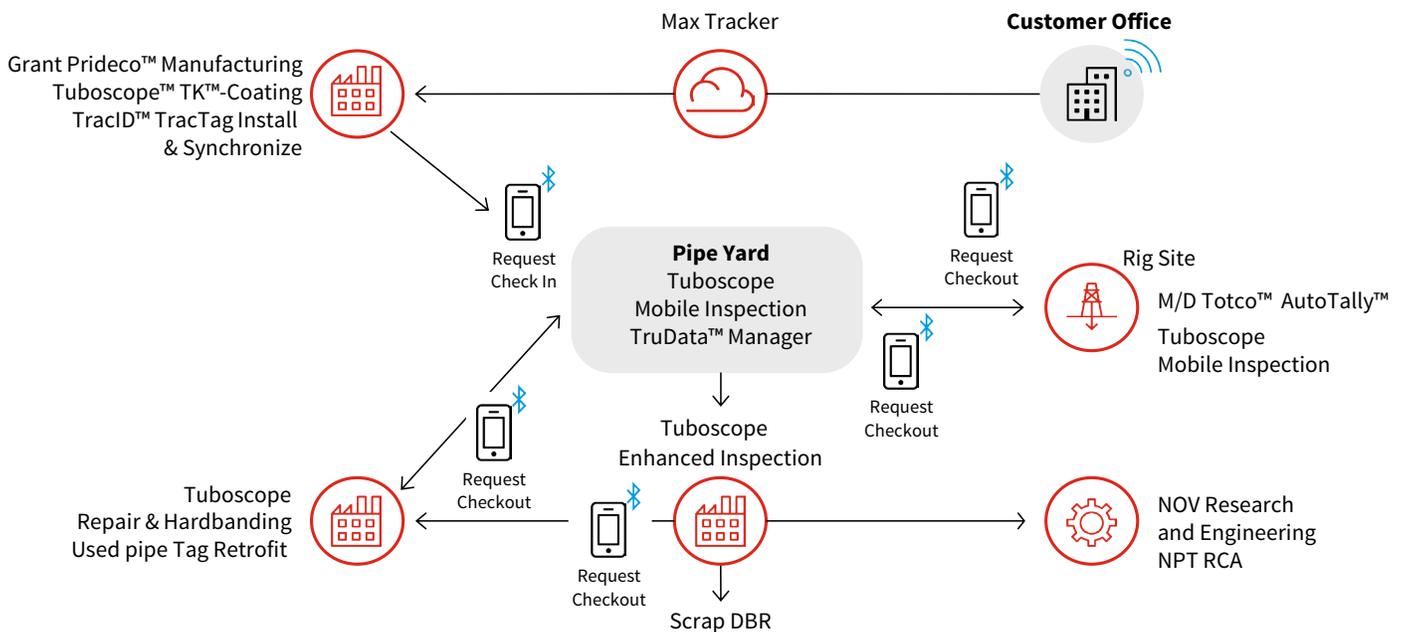
# NOV asset-tracking summary

Identify assets accurately, record their details and history, and capture their usage. Install TracID RFID tags, then begin with Max Tracker and advance to AutoTally. NOV's tracking technologies build on each other – delivering value individually and even more combined.

	TracID RFID tags	Max Tracker cloud-based asset-tracking software	AutoTally real-time pipe-tally system
WHY	Identify assets accurately	Make the most of your assets	Manage pipe more efficiently
HOW	Machine-readable alternative to stamped serial numbers	Ability to track specifications, location, and history by serial number	Detailed downhole usage by serial number
WHAT	Rugged, reliable low-frequency RFID tags are proven to survive downhole and deliver near-perfect readability	Cloud-based web and mobile applications make asset information available wherever you are, enhanced by optional use of machine-readable identification codes and compatible readers	A ring-shaped RFID antenna and accompanying reader scan tagged assets as they enter and exit the well to record drillstring position and time in well

## Inventory Management

### Max Tracker™ LCM Enablement



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