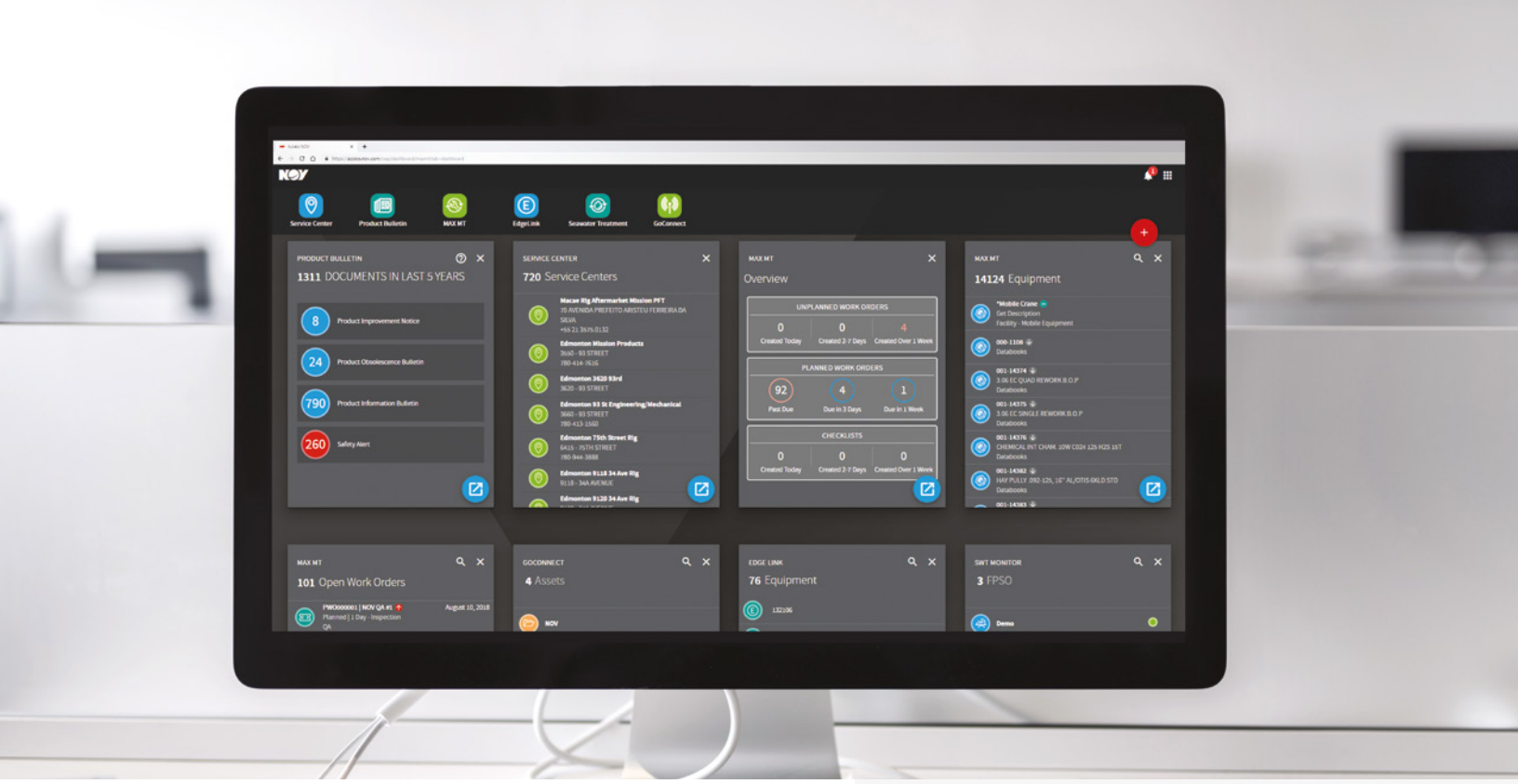
Max™ Ready

MAX MT Industrial Maintenance Platform

NOV Completion & Production Solutions



Data visibility drives operational efficiency

MAX™ MT is a next-generation maintenance product that integrates with our Industrial Internet of Things (IIoT) data platforms to allow customers to better understand their equipment and more effectively use the preventive, predictive, and condition-based maintenance (CBM) practices we've developed through data collection and analysis.

NOV has been using and developing the MAX MT platform for internal maintenance optimization for years, proving its value. Building on this success and now accessible to external customers, the legacy platform's UI has been updated to Access NOV Portal for increased ease of use and integration with other NOV technology products. The MAX MT interactive dashboard allows real-time visualization of maintenance-related data by using notifications for asset condition and performance, providing the customer with data to make critical operational decisions. MAX MT is not a bolt-on to an existing ERP, but offers immediate benefits as a standalone application.

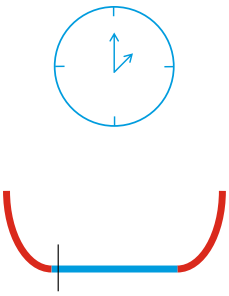
Any time a MAX application is integrated, that data can also flow through MAX MT, offering near limitless levels of customization. Ultimately, using MAX MT as part of our broader condition-monitoring, CBM, and total-cost-of-ownership programs positively impacts your organization's equipment economics and enables you to move away from less effective forms of maintenance.

Key functionality includes:

- Planned/Unplanned Work Orders
- Task Request Module
- Time/Use/Condition-Based Scheduling
- Periodic Checklists Module
- Maintenance KPIs & Analytics
- Maintenance Reporting
- Failure Reporting
- Inspection Management
- Digital Document Library
- Industrial Internet of Things Integration
- Material Transfer Module
- Campaign Management for Fleet Initiatives
- RFID/NFC/QR Code/Bar Code Asset Identification for Serialized Assets
- Asset Location Mapping/Tracking
- Structured Asset Hierarchy/Taxonomy
- Inventory/Parts/Supplier Management
- Failure Mode Effects and Criticality Analysis
- Mobile Device Support
- Total Cost of Ownership Reporting

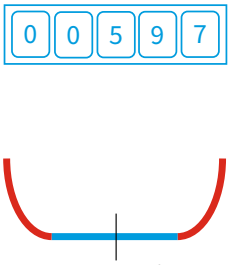
Levels of maintenance

Time based



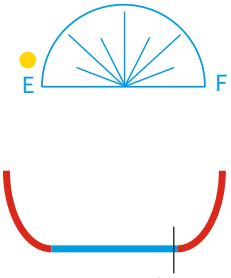
MAX MT

Usage based



MAX MT with GoConnect Link

Condition based



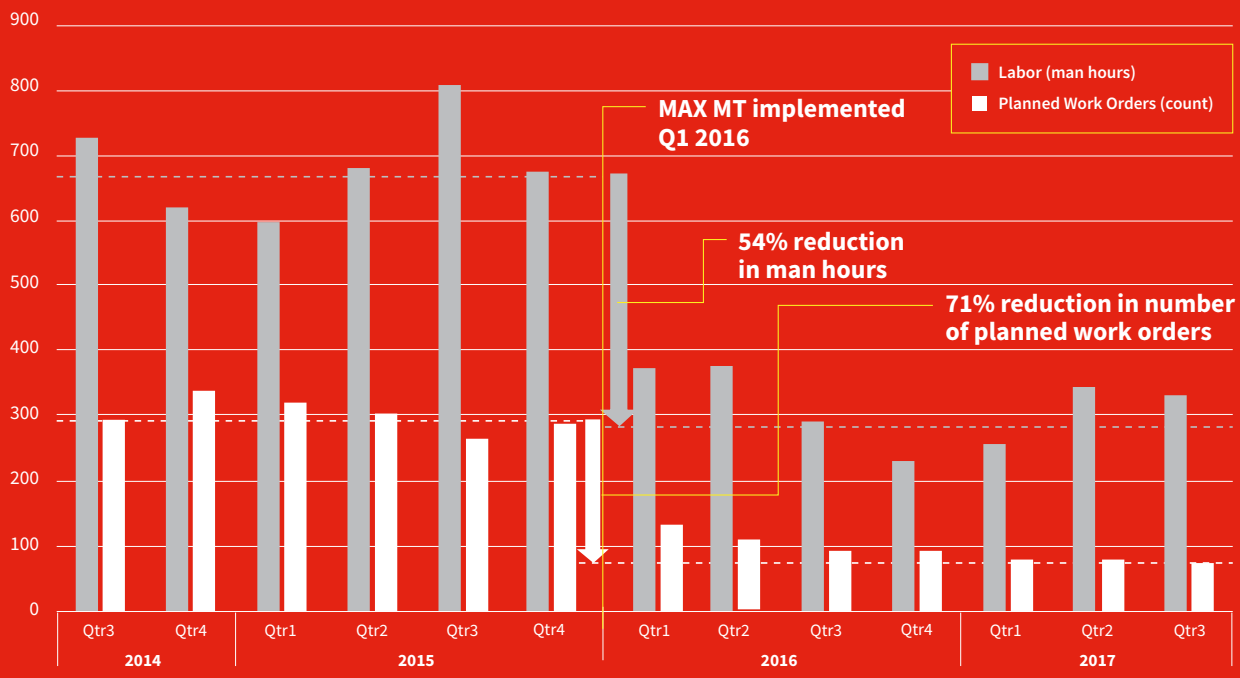
MAX MT with GoConnect Optimization

GoConnect WISE - April 2018

MAX MT- built for purpose

- Compatible with your organizations asset management strategy
- Partnership for the journey through the levels of maintenance
- Adoption of CBM can decrease maintenance costs 10-40% compared to programs only utilizing time or usage based maintenance strategies

Impact of MAX MT on planned work orders at a large NOV facility



MAX MT implementation was performed in January 2016; and the site had previously been tracking maintenance manually before implementing MAX MT.

54%

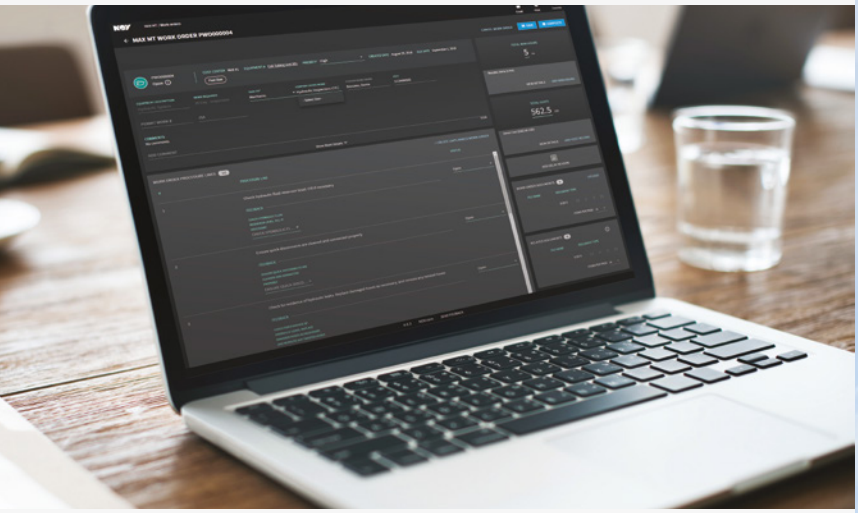
Reduction in man hours

71%

Reduction in number of work orders

Features and Benefits

- Enables seamless system integration and easy information access via a single portal.



- Access to product line SMEs, data scientists, analysts, and maintenance and reliability teams included.
- Eliminates the need for third-party service and integration while providing the expertise and know-how of the OEM.
- Asset identification technology - RFID, NFC, QR codes, and bar codes for field use with remote devices.

- Helps users build more robust asset management and equipment lifecycle programs, by developing maintenance and inspection reports and setting health and performance KPIs.
- Maintenance is now at the user's fingertips, providing real- time data on equipment health.
- Allows companies to transition away from calendar- and usage-based maintenance to CBM.
- Simplification of regulatory compliance and audits
- Provided to customers on a per-project basis with system implementation, training program, and configuration included.

used in over

400

NOV facilities

$1B USD

of maintenance
completed

1,500

active users

700+

daily users

Advanced features enabled through NOV MAX:

- Seamless integration with NOV's IIoT and cloud platform including Edge analytic technolgy suite (hardware and software stacks), real-time data, and insights into asset performance and status
- Provide real-time equipment status and data for building a condition-based maintenance strategy
- Adjust schedules with predictive maintenance to further reduce cost of maintenance while maximizing equipment availability based on models developed by data scientists; develop models for predicting the future instead of only analyzing historical data
- Alignment with NOV advanced condition sensor packages such as GoConnect for seamless integration without third-party implementation
- Utilize data and analytics to drive the optimal asset management plan, enhancing OEM recommendations and increasing overall operational efficiency

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