Rosemount™ TankMaster™ Mobile Inventory Management Software

March 2021

EMERSON

Emerson Confidential

Some history…

2000: First USB Flash Drive

2007: First iPhone released

2009: 4G was introduced

2012: 1.1 Billion smartphone users

2000 | 2007 | 2009 | 2021

2004: Facebook launched

2008: Apple's AppStore launched

2010: First iPad launched

2021: 3.8 Billion smartphone users

Today, people expect that data shall be available anytime anywhere…

How does that affect Tank Gauging customers?

Operations and Field Personnel

- ***Access tank data from anywhere***, jetty, pump house, control valves, operate pumps…
- ***Verify*** that ***batches*** are handled to/from correct tank(s).
- ***Control flow rate*** to/from ships
- ***Keep track of*** all current ***movements***

Up to date information – supports faster decision and less task delays

Management

- Stay on top of critical assets and make ***better and faster decisions***, regardless of time and place
- Get ***better and faster insight*** into local tanks and operations
- Get ***consolidated data*** from multiple sites ***directly from the headquarter***
- Print or save ***reports***, scheduled or ad-hoc

Consolidated Data From Multiple Sites Directly to the Headquarter

Head Quarter

Finance and Administration

- ***Supply chain knows when re-stock should be scheduled***, without risking running out or having oversupply
- ***Business and operations planning*** are certain that available room and product stock is sufficient to ***accept transfers without interruption***
- ***Finance*** gets ***immediate inventory overview*** for monthly closing of the books and other routine tasks
- ***Minimized manual data collection*** work overall

External Stakeholders

Terminal operators will benefit from sharing selected inventory data to external stakeholders

- ***Product owners*** using ***third party terminals*** can keep track of their tanks and products
- ***Traders*** can see ***which and how much product is available***
- ***Reporting obligations to customs*** and ***authorities*** can be fulfilled without having inspection personnel at site
- ***The administrator has full control*** of precisely which tanks and data points that can be viewed by each user.

How You Would Benefit From Always Available Inventory Data

What If You Could…

- Access live inventory data – when and where you need it
- Get instant overview of all tanks and one click to details for each tank
- Easily share data to others – internal and externally
- Get all this in an easy-to-use app optimized for computer, tablet, and phone

EMERSON

How to solve this?

EMERSON

What a classic Tank Gauging Setup looks like today…

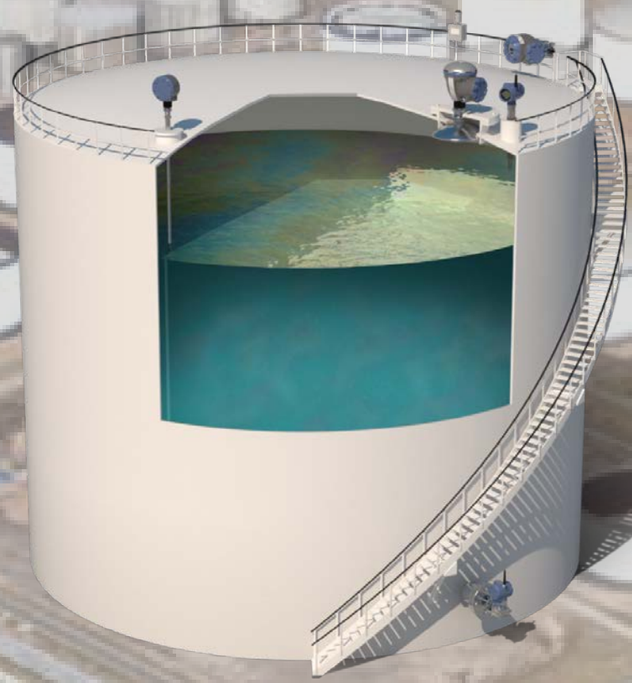
What a classic Tank Gauging Setup looks like today…

Communication with ships

Blends

Batches

Loading - unloading



EMERSON

What a classic Tank Gauging Setup looks like today…

Communication with ships

Blends

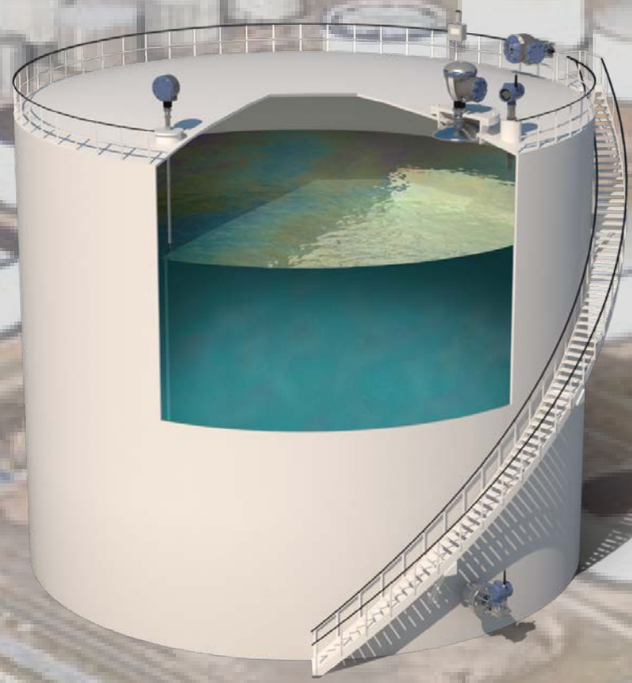
Start/Stop of pump

Batches

Loading - unloading

Control Flow

Instrument Engineers



EMERSON

What a classic Tank Gauging Setup looks like today…

Communication with ships

Blends

Start/Stop of pump

Batches

Loading - unloading

Control Flow

Instrument Engineers

Instant updates on inventory to finance

EMERSON

What a classic Tank Gauging Setup looks like today…

Communication with ships

Blends

Start/Stop of pump

Batches

Loading - unloading

Control Flow

Instrument Engineers

Planning

Management

Reports

Instant updates on inventory to finance

EMERSON

… and what it can look like tomorrow

Communication with ships

Blends

Start/Stop of pump

Batches

Loading - unloading

Control Flow

Instrument Engineers

Planning

Instant updates on inventory to finance

Management

Reports

EMERSON

… and what it can look like tomorrow

Start/Stop of pump

Control Flow

Instrument Engineers

Planning

Instant updates on inventory to finance

Management

Reports

EMERSON

… and what it can look like tomorrow

Planning

Management

Reports

Instant updates on inventory to finance

EMERSON

… and what it can look like tomorrow

Planning

Management

Reports

EMERSON

… and what it can look like tomorrow

EMERSON

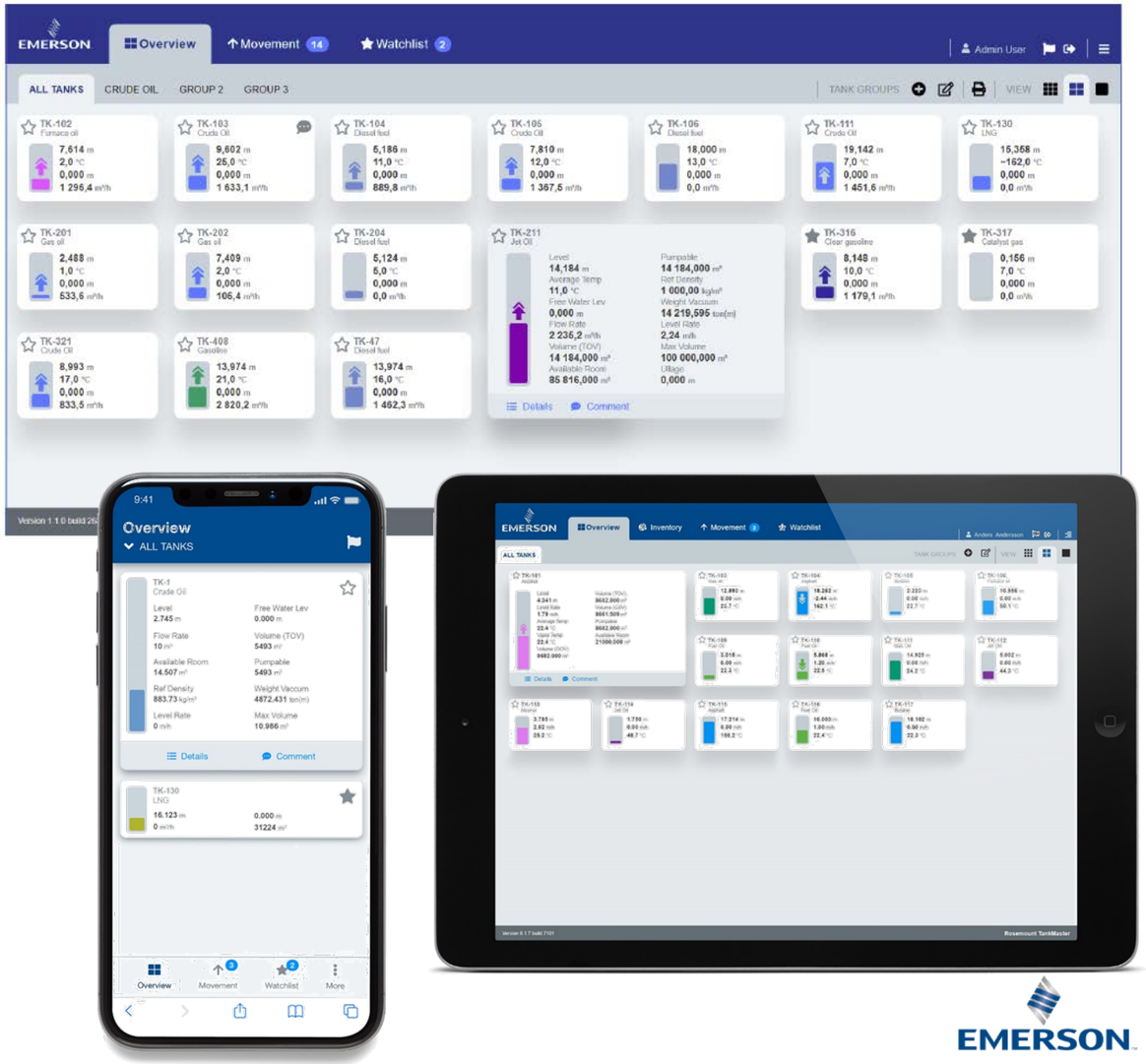
Introducing TankMaster Mobile Inventory Management Software

- For ***computers***, ***smartphones*** and ***tablets***
- Latest ***Web technology***
- ***Cyber Secure***
- ***Integrates*** with ***existing*** Rosemount ***TankMaster installations***

EMERSON

Simple yet Powerful Interface

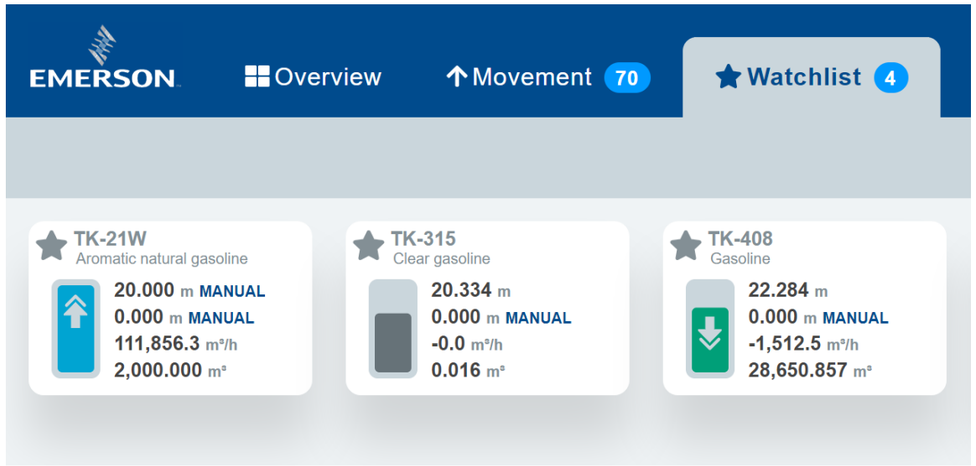
- ***Desktop*** and ***Mobile*** version
  - ***Responsive*** design – Optimized for touch screens
- ***Tank Card*** Layout
  - Small – Medium – Large
- ***Customizable***
  - Tank Data – Tank Groups – Product Color – Tank Notes
- ***Reports***
  - On demand – Scheduled – Various types
- ***Automatic Grouping*** Of Tanks
  - Movement – By Product

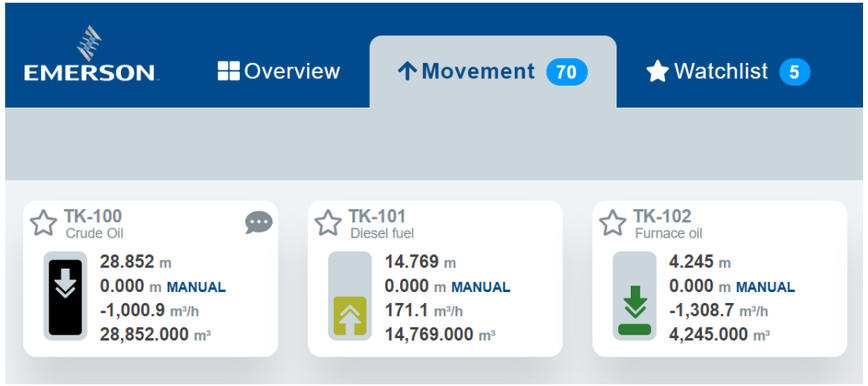


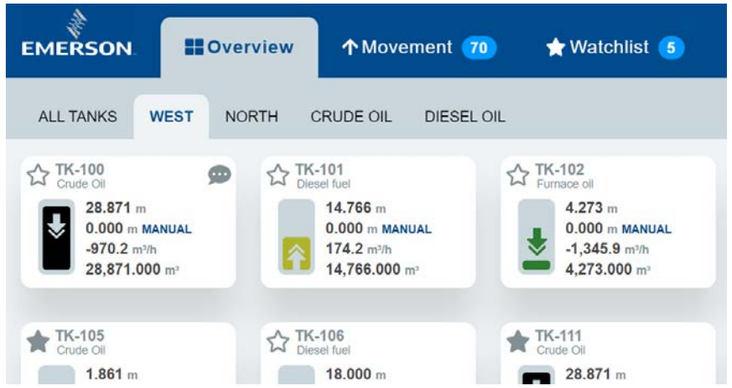
EMERSON

Easy to Create Tank Groups

- ***Watchlist***
  - ‘bookmark’ tanks for quick viewing
- ***Movement*** group
  - Shows tanks filling and emptying
- ***User-defined*** groups
  - Organize any way you like – Specific User Profile



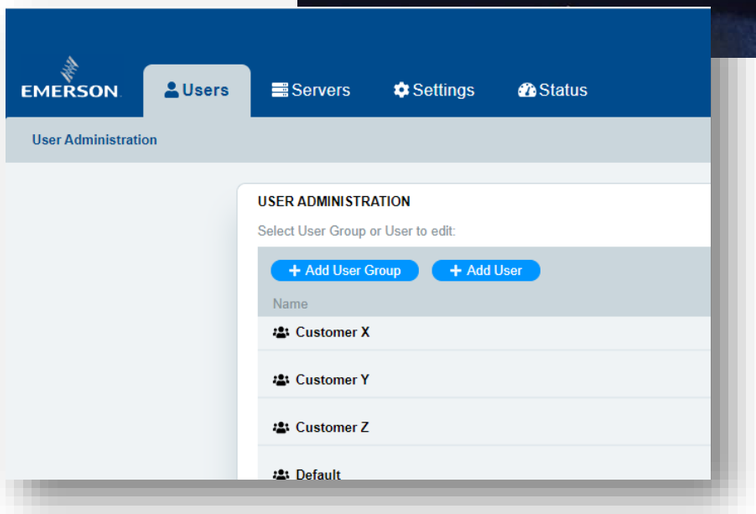




EMERSON

Simple User Management

- ***User Groups***
  - Tanks – Users – Validity (date/time)
- ***Tank Information***
  - Data – Views – Notifications
- ***Permissions***
  - Reports – Movements – Accessibility

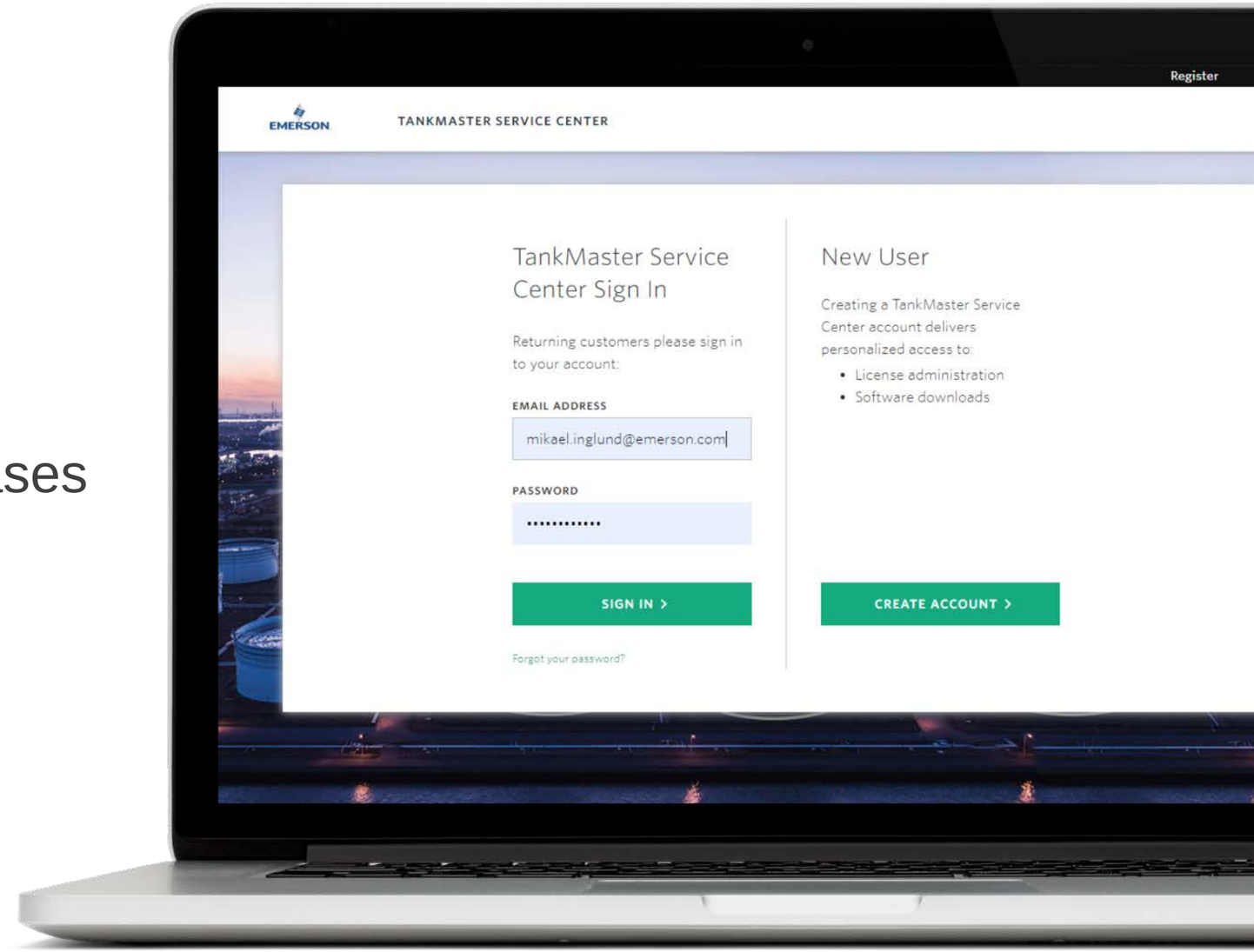


Cyber Secure

- Compliant with ***IEC 62443-3-3***
- ***3-tier*** architecture
- ***2-factor*** sign-in
- ***Encrypted*** communication

TankMaster Service Center

- ***Registration*** of software
- License ***activation*** and ***transfer***
- ***Download*** latest software version
- Automatic ***notification*** of new releases
- ***Upgrade*** guide



Summary – TankMaster Mobile

- ***Instant overview*** of your tank farm
- ***Fast*** drill down to details
- For ***smartphone***, ***tablet*** and ***computer***
- ***Any time, any place***
- ***Quick*** and ***easy*** to use
- Share ***internally*** and/or ***externally***
- ***Cyber secure***

Insights delivered. Right away.

ROSEMOUNT™ TANK GAUGING SYSTEM

Insights delivered. Right away.