



SAP Asset Manager

Tamas Molnar, SAP
March 27th, 2019

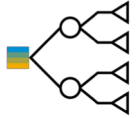
Customer

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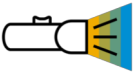
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SAP Enterprise Asset Management Portfolio – Business Capabilities



State-of-the-art business processes

Leverage new technologies to enable new asset management business processes anywhere and anytime



Real-time insights

End-to-end visibility on strategic, tactical and operational level



Connected assets

Bring together information from operational and business systems using IoT for scalable transparency



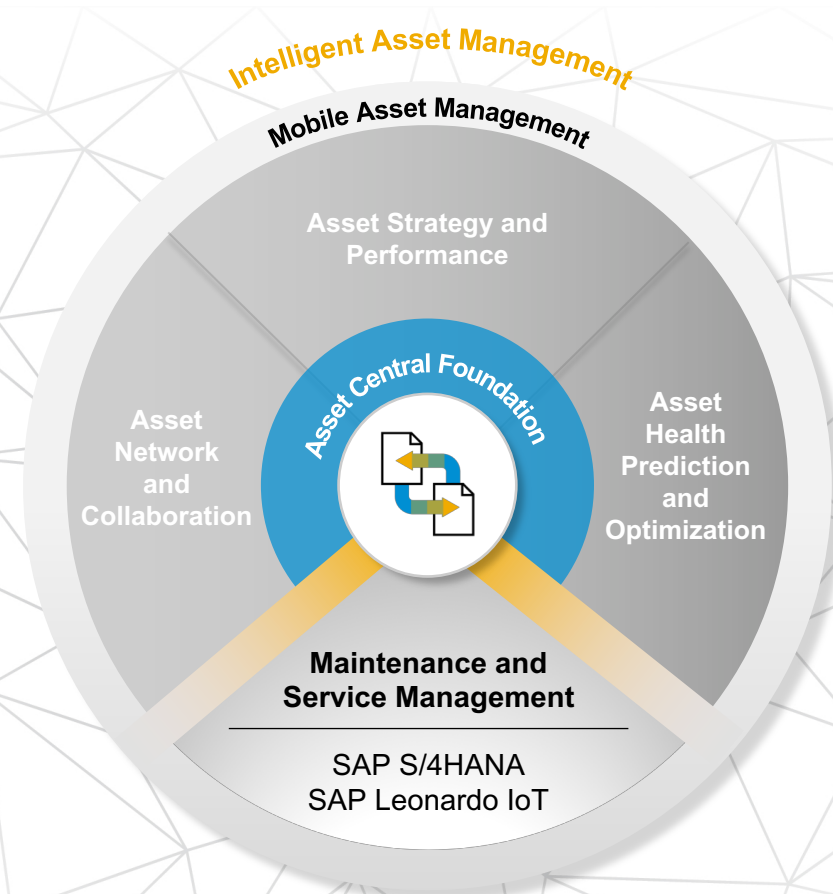
The power of prediction, optimization and simulation

Drive smarter decisions, improve reliability, and reduce outages



Collaboration throughout the asset lifecycle

Share asset information, access one version of the truth, and collaborate on a cloud-based business network with integrated processes



SAP Intelligent Asset Management

Mobile Asset Management



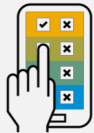
Eliminate paperwork while reducing downtime and maintenance backlog



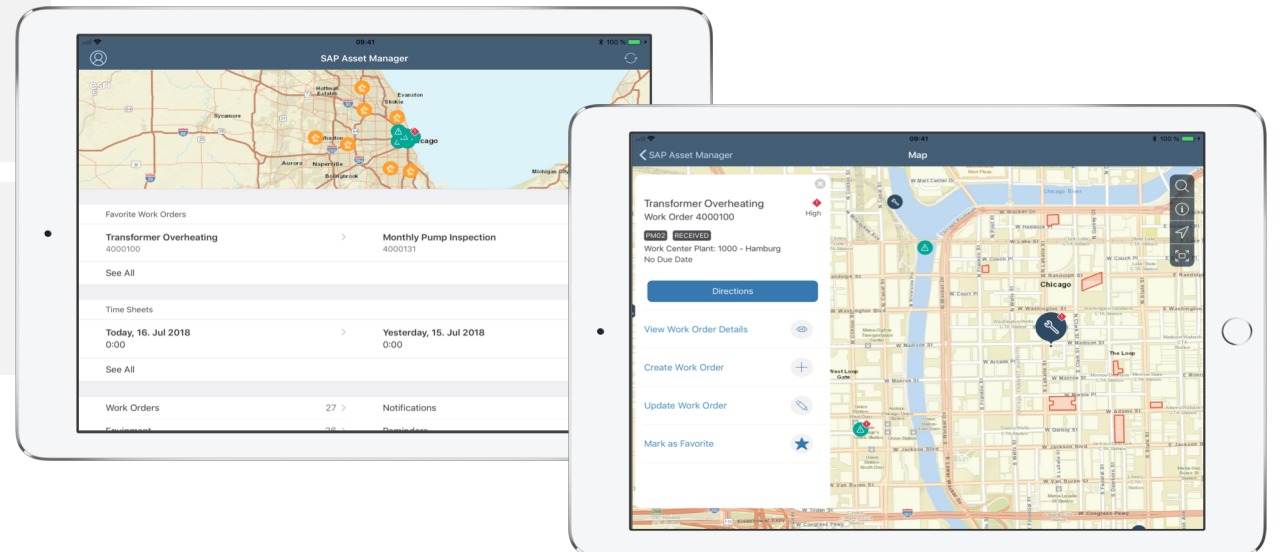
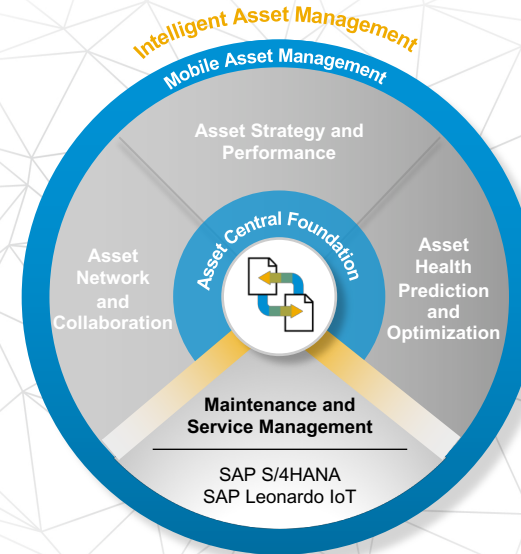
Extend and improve asset life and reliability by shortening work cycles



Turn capital spending into operational investments using cloud deployment



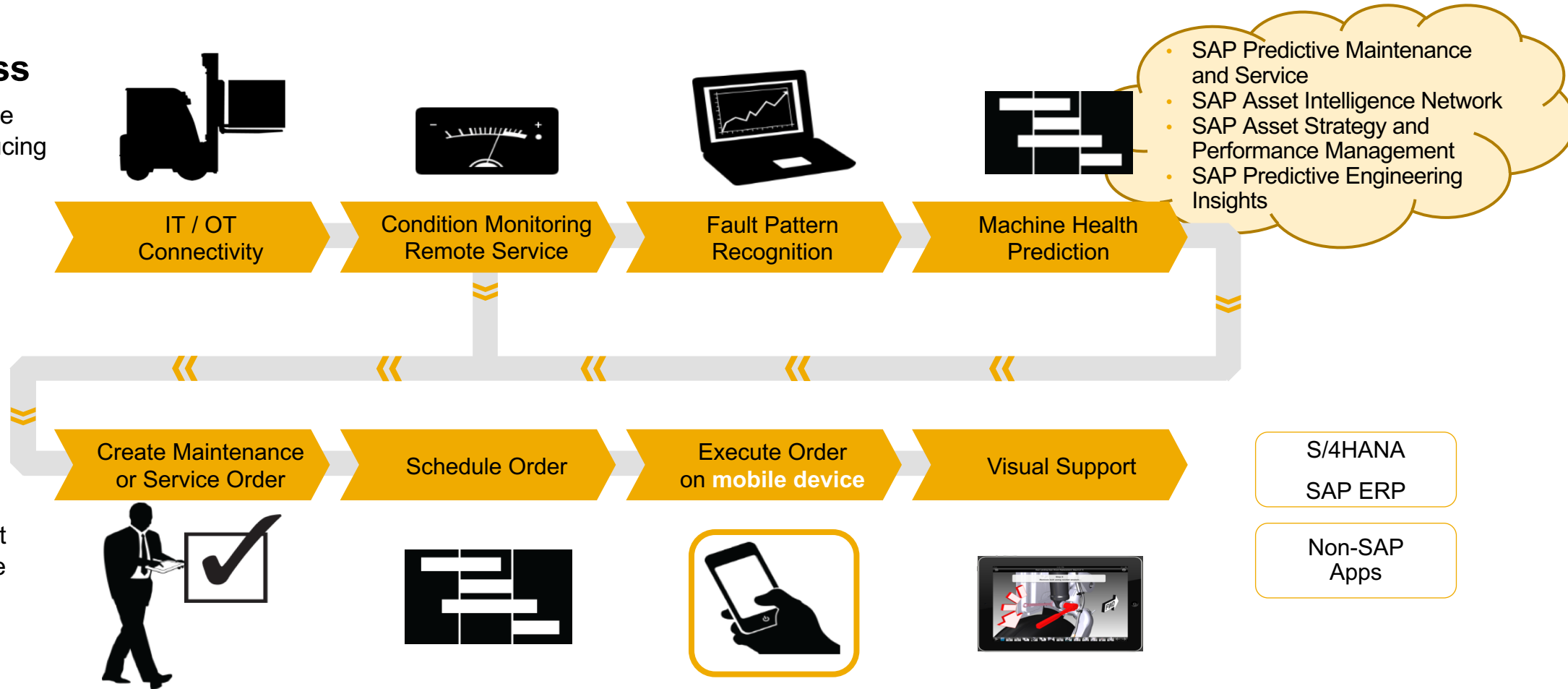
Manage existing work and asset data whether you're online, offline, or occasionally connected



Mobility as Part of the digital business process chain

Increase effectiveness

Effectiveness is the capability of producing a desired result



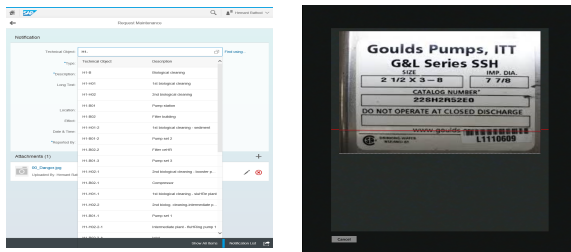
Increase efficiency

Time, effort or cost is well used for the intended task or purpose

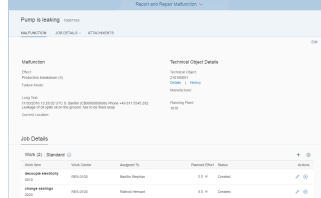
SAP Fiori vs. True Online/Offline Mobile Asset Management

SAP Asset Management Fiori Apps

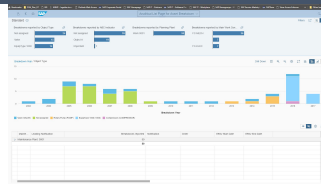
Request Maintenance



Respond to Breakdown



Break Down Analysis



Designed for online usage only
Available for S/4HANA only

Current Generation Mobile Apps

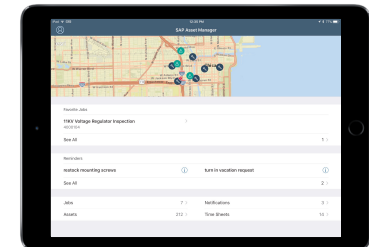
SAP Work Manager



On Premise, SAP Cloud Platform and HEC

Next Generation Mobile Apps

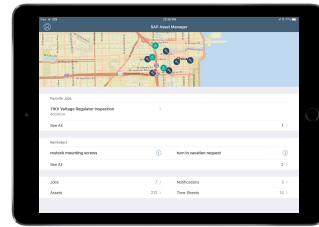
SAP Asset Manager



SAP Asset Manager 3.0
released November 2018

SAP Asset Manager and SAP Work Manager - Side by side comparison

SAP Asset Manager



Backend Support

ERP and S/4HANA

Device Support

iOS; Android*

Feature Set

Increasing parity to Work Manager
Additional features planned for subsequent releases
Integrates with IoT and predictive capabilities
Best native user experience on modern devices

Deployment Options

Cloud only

Connectivity

Complex offline capabilities for asset-intensive industries

Architecture

Metadata driven technical architecture enabling configurability and extensibility

Licensing

Subscription

Platform

Mobile Development Kit

SAP Work Manager



ERP and S/4HANA

iOS, Android, Windows

Mature product; fully developed feature set
Additional features planned for subsequent releases

Cloud and On-Premise

Complex offline capabilities for asset-intensive industries

Metadata driven technical architecture enabling configurability and extensibility

Subscription and On-Premise

Agency on SAP Platform or SAP Cloud Platform

*limited feature set

This is the current state of planning and may be changed by SAP at any time.

SAP Asset Manager Architecture



SAP Cloud Platform Mobile Services: Mobile Development Kit

Build, customize, and administer native mobile applications in a highly productive, metadata-driven model

Benefits

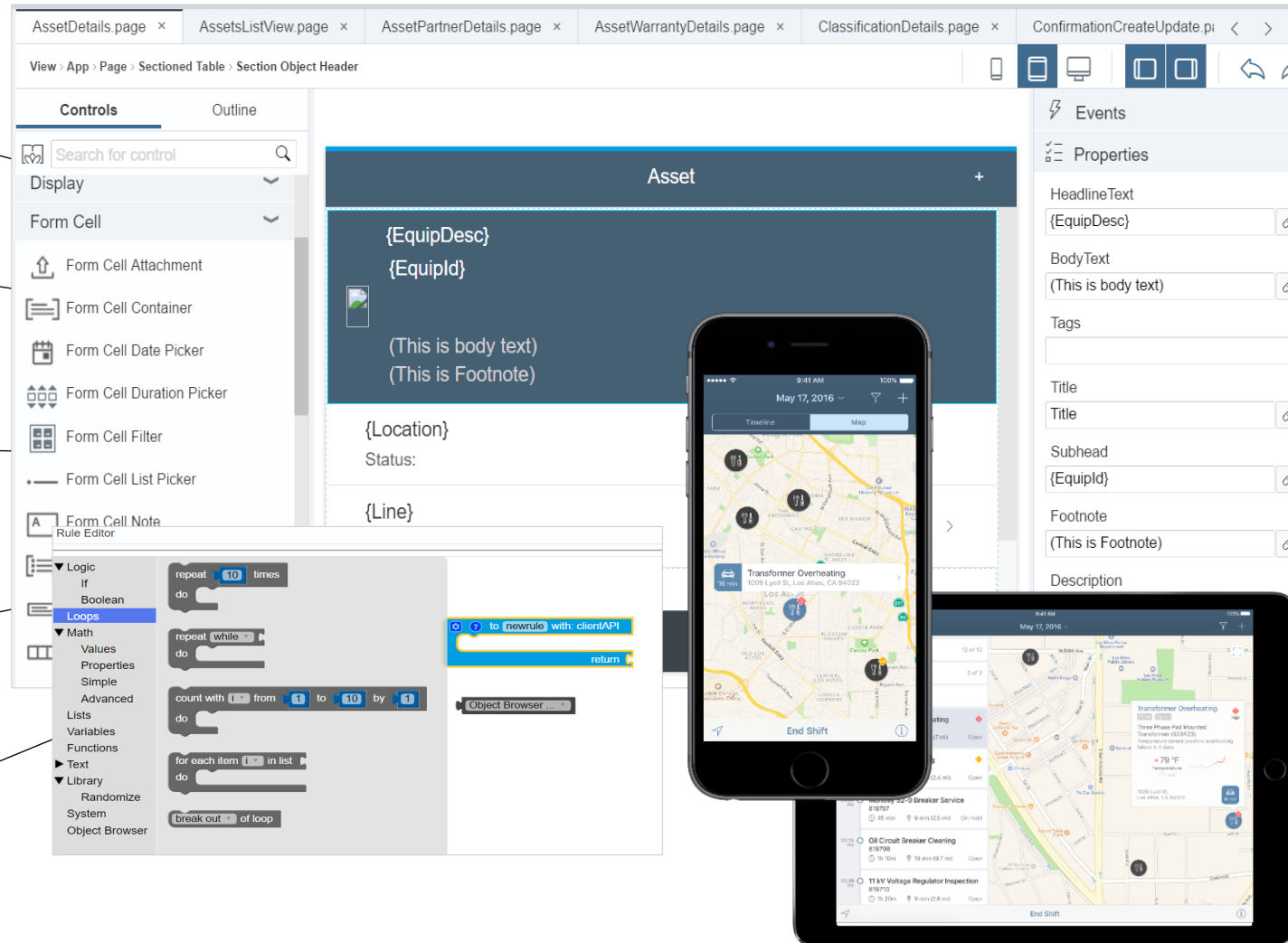
Reduce app development costs by leveraging drag and drop simplicity of no code tool

Increase capacity to meet mobile app demand without professional developers

Build apps with native look and feel and native performance

Relieve maintenance burden by simplifying lifecycle mgmt without re-installing apps

Customize pre-built SAP apps (SAP Asset Manager, etc.) to meet unique business needs



Capabilities

Tool that speeds the process of creating applications for mobile platforms

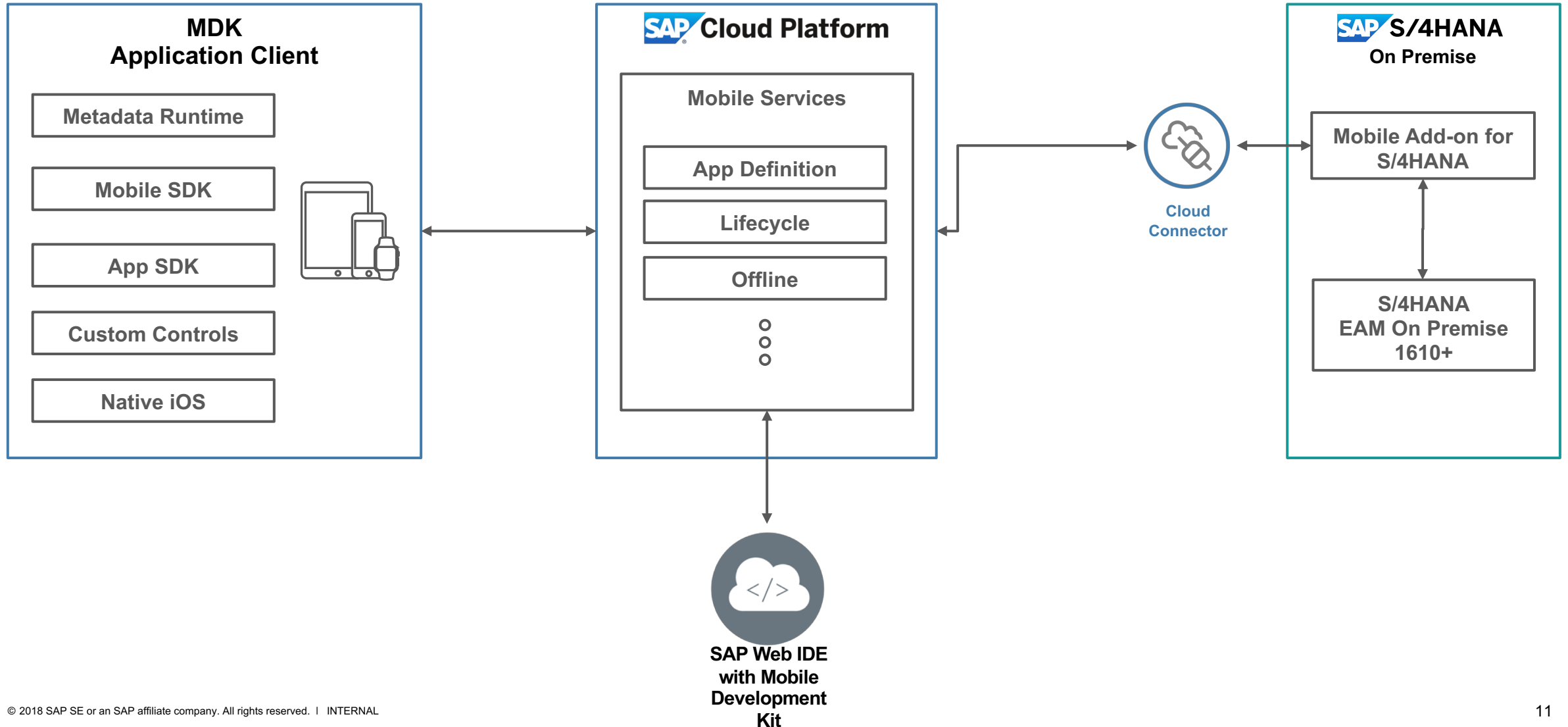
WYSIWYG Editor, Web IDE Plugin, extensible via Plug-ins

Drag and drop UI elements, app templates and codeless building blocks

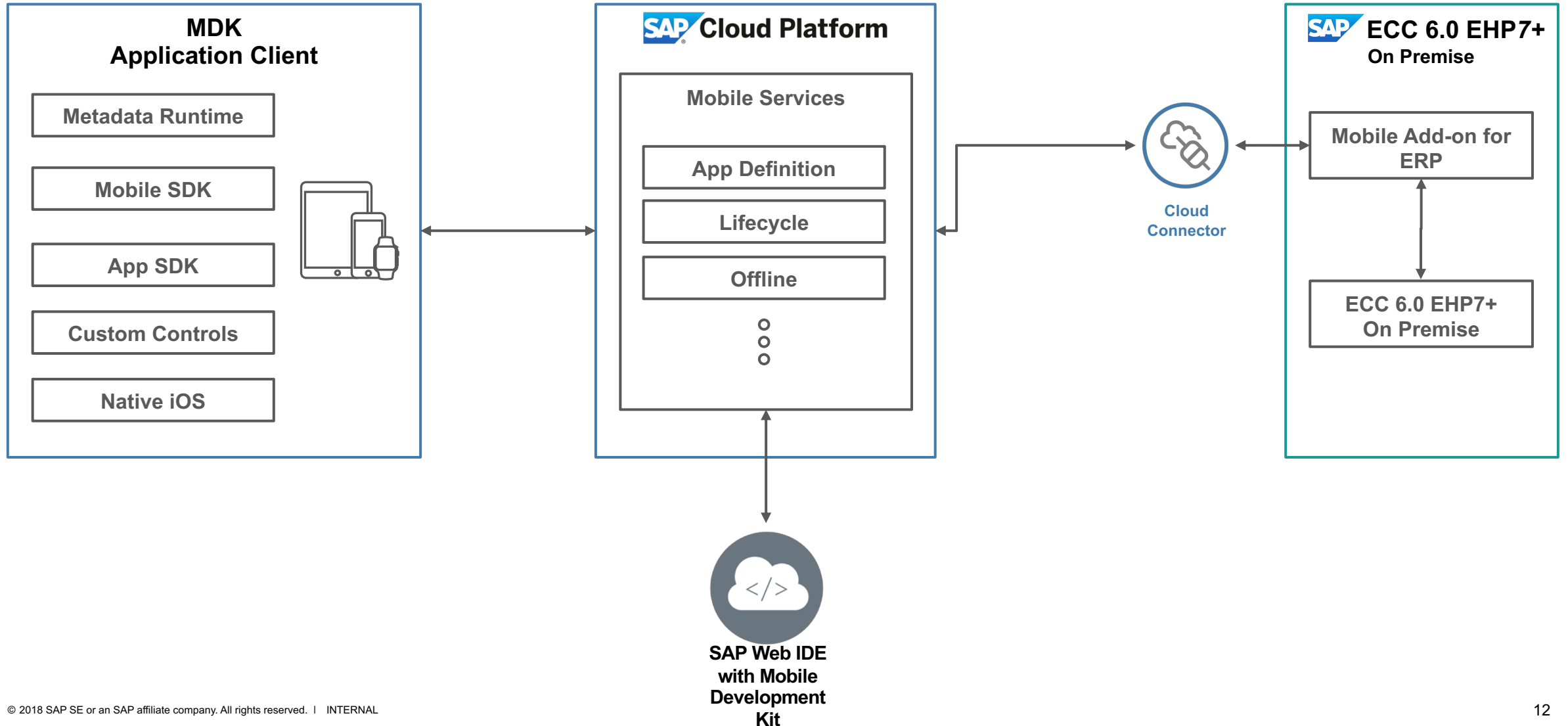
Action Editor and Rule Editor based on Google Blockly

Application definitions represented using metadata which is dynamically interpreted on the client to render the native UI

SAP Asset Manager with S/4HANA On Premise Architecture



SAP Asset Manager with SAP ECC Architecture



SAP Asset Manager Demo



SAP Asset Manager Capabilities

SAP Asset Manager 3.0

Capabilities

Manage work orders, notifications, and timesheets

- Core asset management functionality

SAP Fiori for iOS User Interface

- New look and feel, co-designed through the Apple + SAP partnership
- Works on iPad and iPhone

SAP S/4HANA and ERP 6.0 EhP7+ Support

- Native integration

Robust offline functionality

- Full business logic available, even when disconnected

Attachment handling

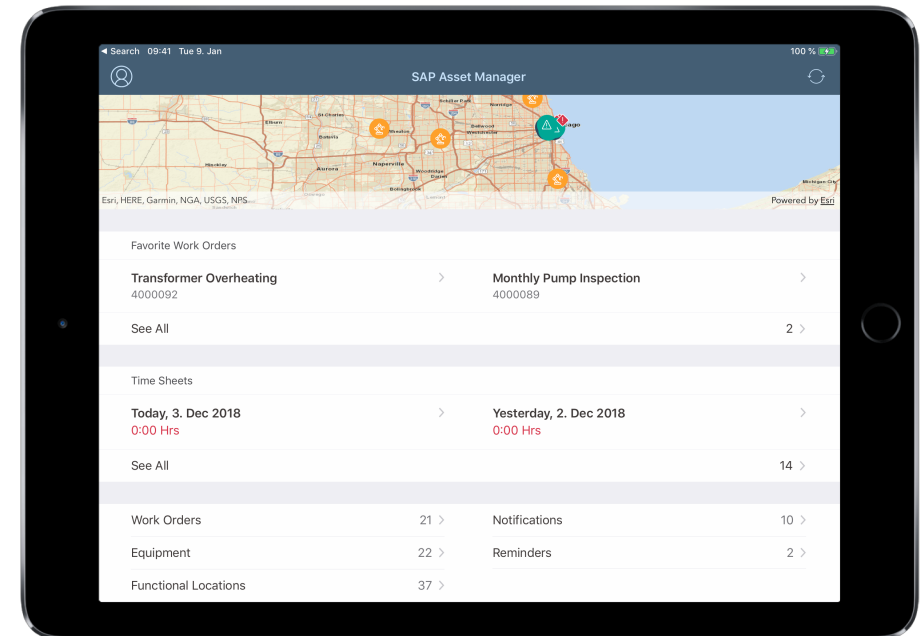
- Create and manage documents

Single sign-on support

- Using SAP Cloud Identity Access Governance

SAP Cloud Platform support

Esri ArcGIS integration



SAP Asset Manager 3.0

Capabilities (continued)

Enhanced user profile screen

- Sync
- Reset
- Set log levels
- Contact support
- Set TouchID and passcode

E-mail onboarding

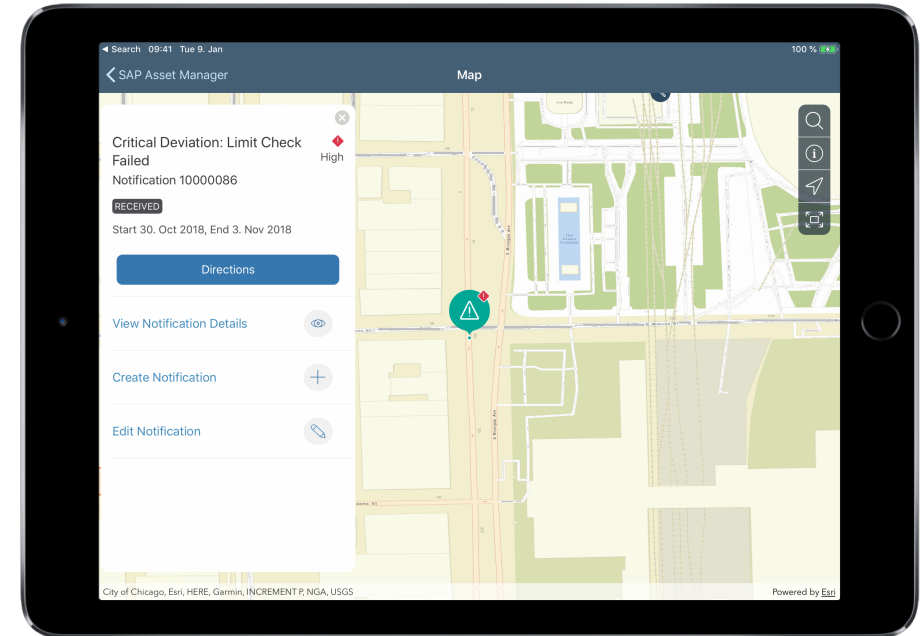
- The app ID and client ID can be set from a URL that can be accessed through e-mail or a Web page

Brandable client

- Override settings at build time

Component Approach

- Components can be added to the application to add or modify features.
- Meter Management, Crew Reporting, and Field Operations Worker, Customer Service component delivered with SAP Asset Manager 3.0



SAP Asset Manager 3.0

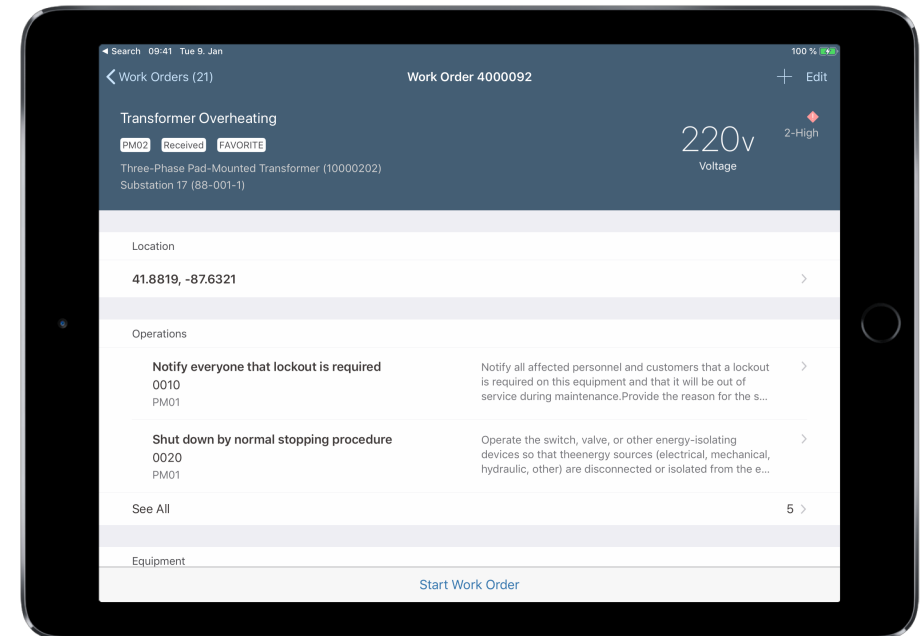
Capabilities (continued)

Support for all eight WM Assignment Types

- Customers have a variety of data distribution options for having mobile data sent to the technician, as well as a framework for creating their own if the built-in options are not sufficient.

Additional capabilities

- Push notifications
- PM confirmations (submit time entries using CATS or PM confirmations)
- Equipment warranties
- Work order history
- Field data capture control for quick entry of multiple measuring point and meter readings
- View and edit characteristics (editable info for classes and characteristics.)
- Enhanced document support – DMS and BDS
- Business Partners for assets and functional locations
- Production resources and tools
- Language and localization



SAP Asset Manager

Meter Management

Supports the following tasks:

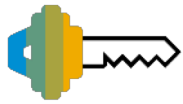
- Meter installation
- Meter removal
- Meter replacement
- Aperiodic meter readings
- Periodic Meter readings
- Disconnect/Reconnect orders
- Meter repair Orders



SAP Asset Manager

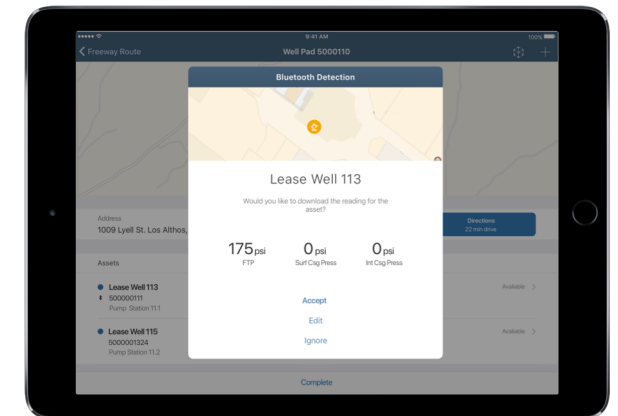
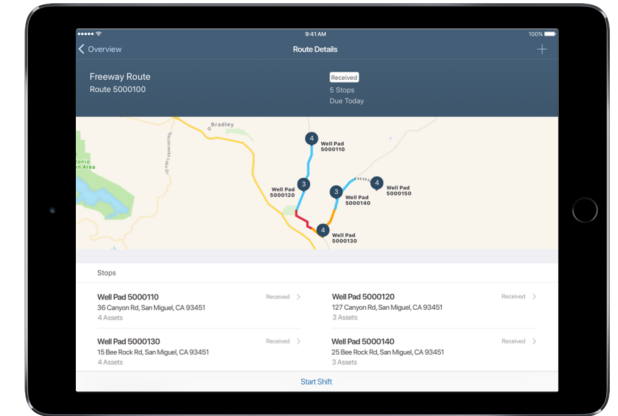
Field Operation Worker role

SAP Asset Manager for the field operations worker is a role leveraging the digital core with SAP S/4HANA and SAP ERP for task-driven activities and rounds. It supports workers who perform asset inspections and checks with a focus on measurement points and on smaller services and repairs.



Key capabilities

- **Access to different sources of enterprise data and capabilities**
Provides timely, relevant, and accurate information such as asset health, inventory, maintenance, meters, and safety checklists
- **Ready-to-use, extensible iOS native app – integrated with native features and services**
Enables the worker to be more productive and seamlessly take advantage of the platform ecosystem
- **Intuitive UI: SAP Fiori (for iOS design language)**
Provides context-rich visualization and actionable insights
- **Mobile-enabled processes integrated with enterprise systems**
Enables easy and timely execution of end-to-end asset management on the go
 - Discovering assets regardless of location
 - Taking measurements made easy
 - Enabling repair work by providing task lists and management of parts and tools
 - Worker safety functionality included

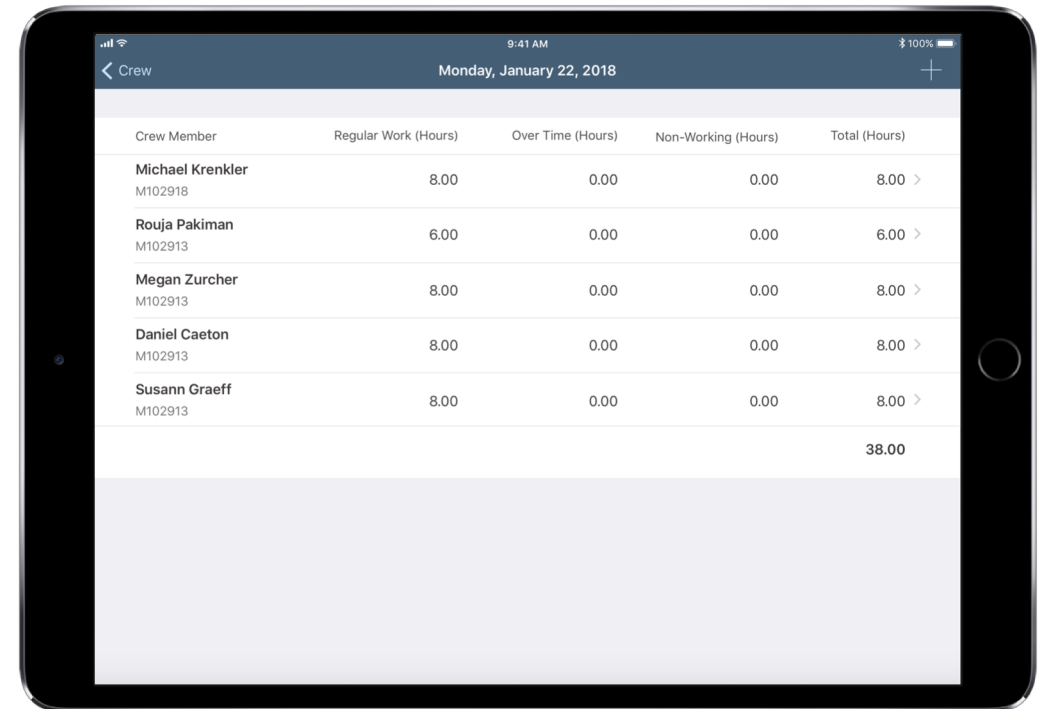


SAP Asset Manager

Crew Reporting

Allows team leads to manage crews

- Crew list management with add/remove crew members
- Add/remove vehicles
- Edit vehicles (odometer reading)
- Manage crew timesheet



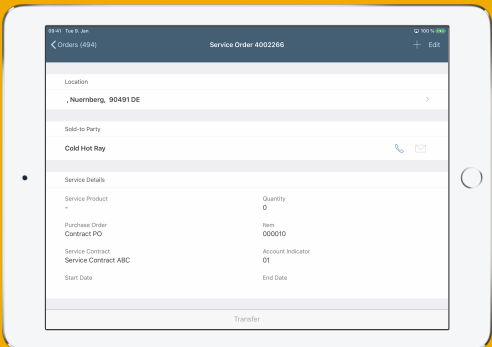
Crew Member	Regular Work (Hours)	Over Time (Hours)	Non-Working (Hours)	Total (Hours)
Michael Krenkler M102918	8.00	0.00	0.00	8.00 >
Rouja Pakiman M102913	6.00	0.00	0.00	6.00 >
Megan Zurcher M102913	8.00	0.00	0.00	8.00 >
Daniel Caeton M102913	8.00	0.00	0.00	8.00 >
Susann Graeff M102913	8.00	0.00	0.00	8.00 >
				38.00

SAP Asset Manager

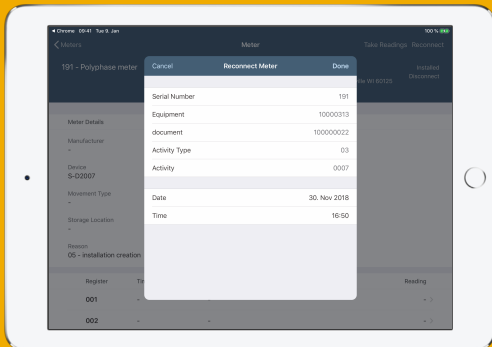
What's new in 3.0

SAP Asset Manager – 3.0 Overview

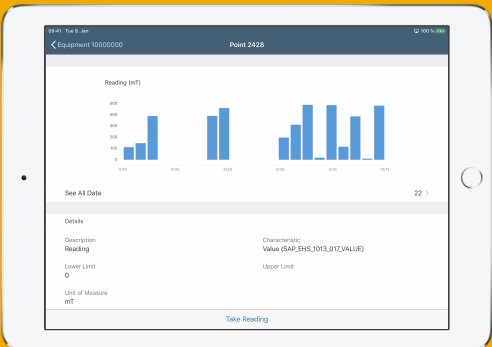
Customer Service



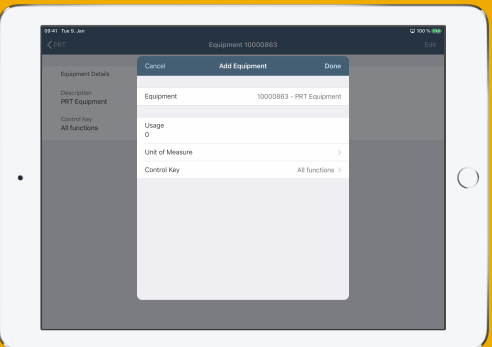
Meter Management



Enhanced measuring point chart support



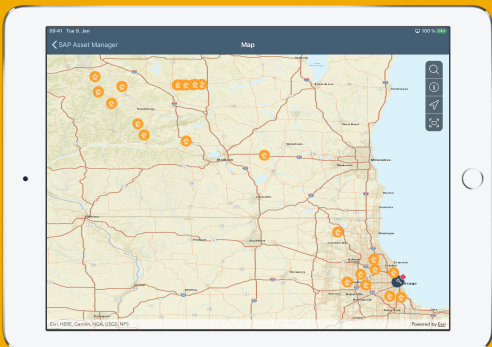
PRT Equipment



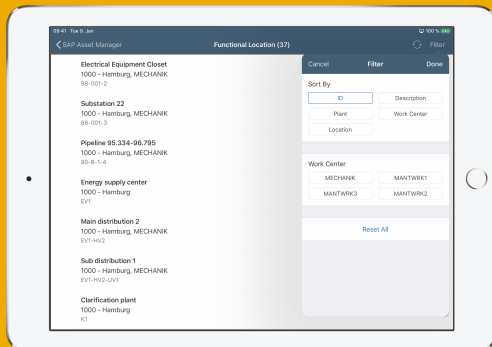
PdMS Indicators (Health Scores)

Indicator	Value	Status
Acceleration x-axis SensorTag	-	-
Gyro Y	-	-
Acceleration Z	-	-
Temperature	-	-
Acceleration y-axis SensorTag	-	-
Pressure SensorTag	-	-
Temperature SensorTag	26. Jun 2018 17:42	27 °C
Gyro X	-	-
Acceleration z-axis SensorTag	-	-
Relative Humidity	-	-
Gyro Z	-	-
Luminosity SensorTag	-	-
Humidity SensorTag	26. Jun 2018 17:42	36.7

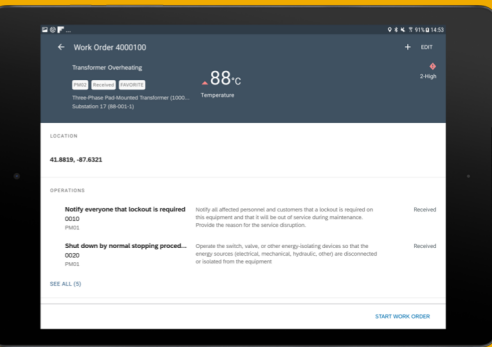
Authenticated GIS Support



Functional Location Search

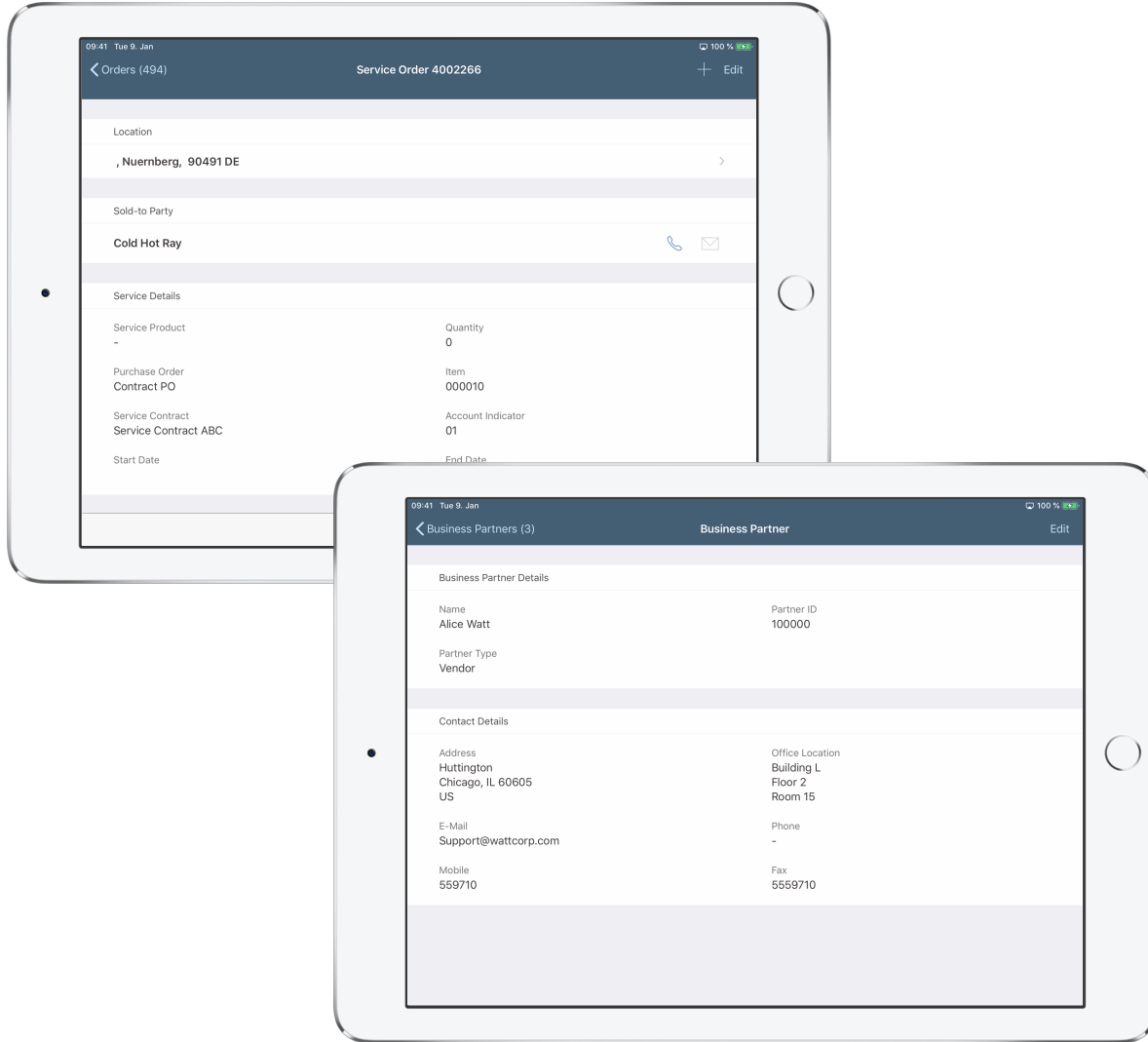


Android Support



SAP Asset Manager

Latest Innovations – SAM 3.0 – Customer Service Component



Scope:

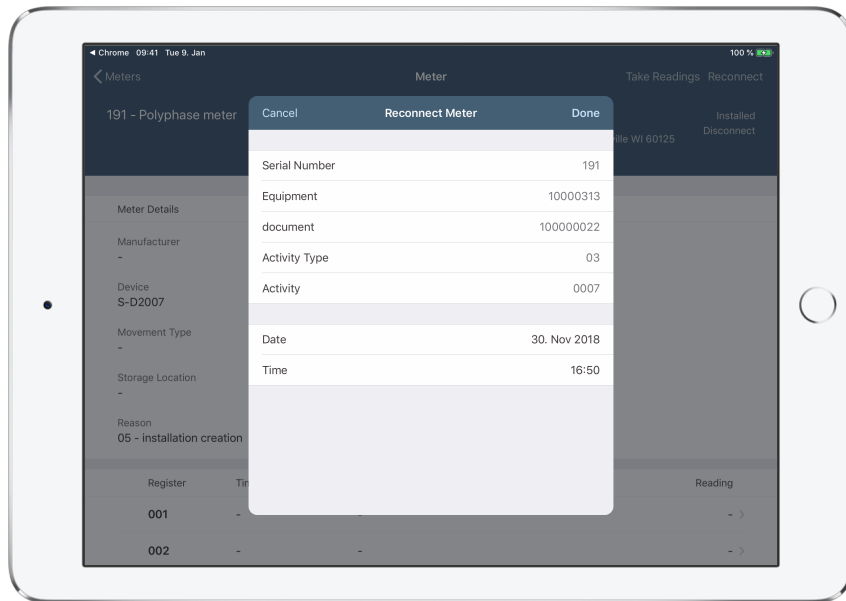
Enables to maintain or perform service to equipment under contract at sites for customers or other third parties.

Using Customer Service:

- Details of service engagements of the technician with the customer
- Details of business partner information associated with the customer
- Details of contract and warranty information for the customer
- Online mapping functionality for both customer addresses and partner address

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Latest Innovations – SAM 3.0 – Meter Management Component



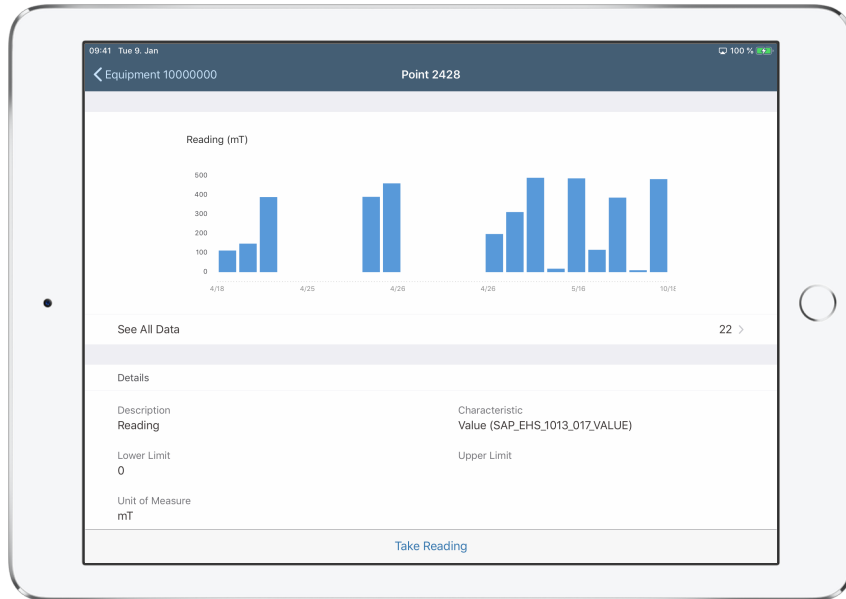
Scope:

The following enhancements have been added to the Meter Management component:

- Periodic readings
- Disconnect and reconnect meter orders
- Meter repair orders

SAP Asset Manager

Latest Innovations – SAM 3.0 – Enhanced Measuring Point Chart Support

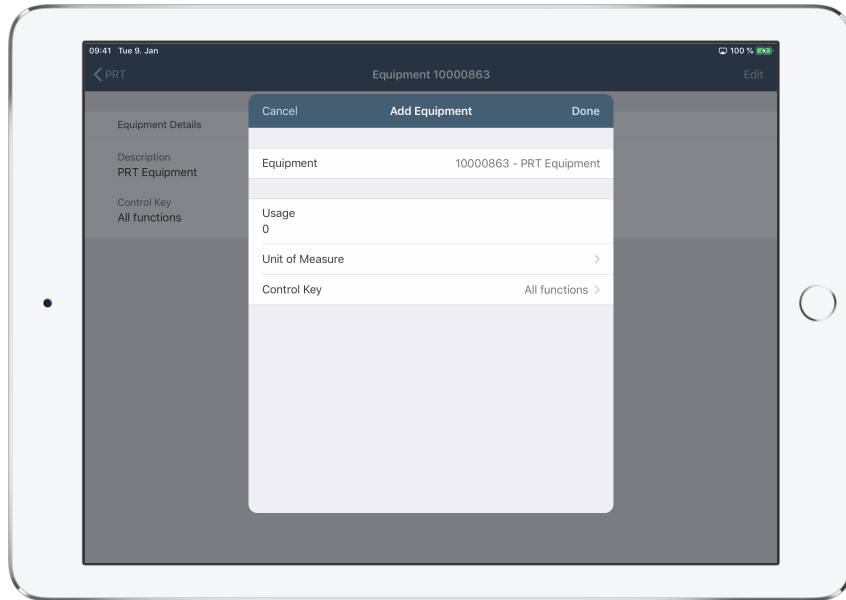


Scope:

Bar chart support has been added for counter type measuring points. Thumbnail charts added for valuation code only measuring points.

SAP Asset Manager

Latest Innovations – SAM 3.0 – PRT Equipment

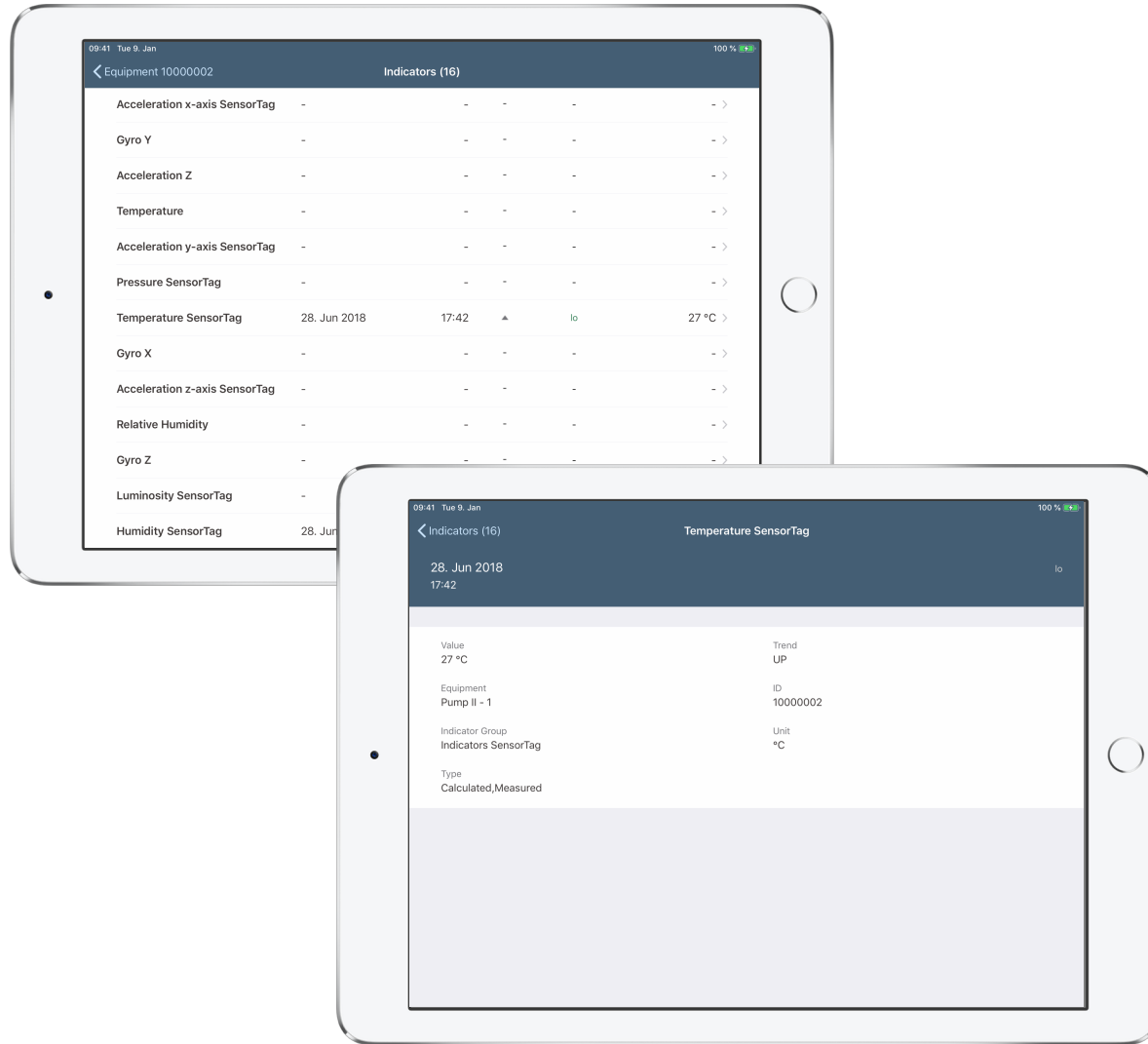


Scope:

Support to add and edit PRT equipment details on an operation or a suboperation.

SAP Asset Manager

Latest Innovations – SAM 3.0 – PdMS Indicators (Health Scores)

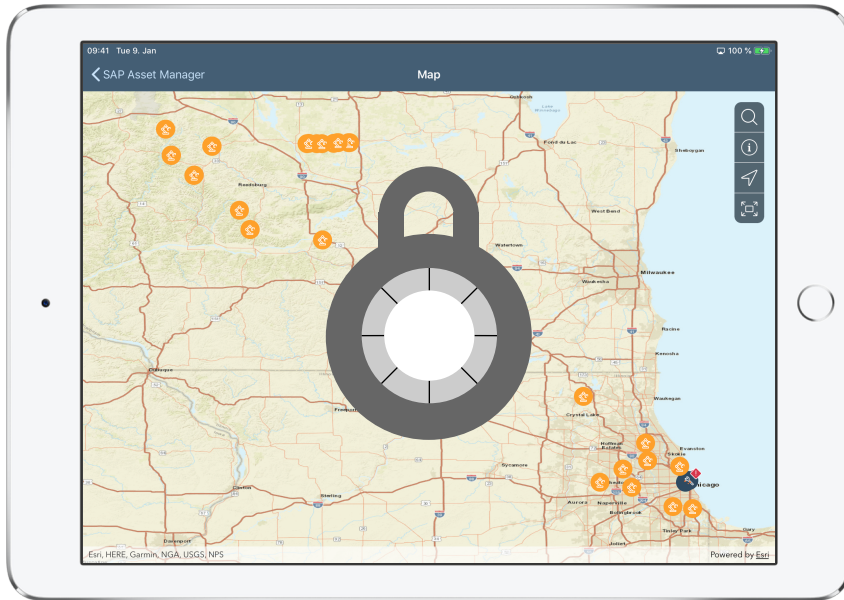


Scope:

Integrate to PdMS to show key indicators for equipment such as health score.

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Latest Innovations – SAM 3.0 – Authenticated GIS Services Support

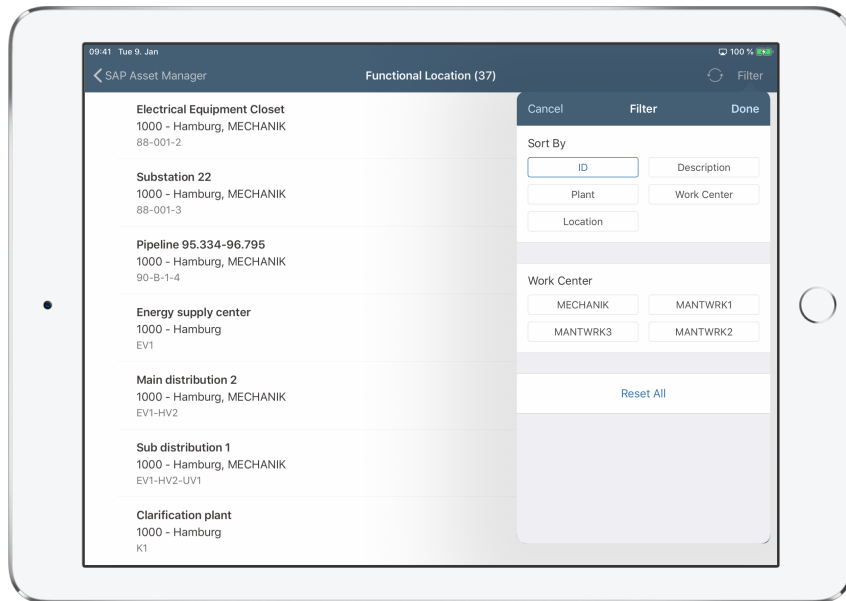


Scope:

Viewing token-based authenticated basemaps on the mobile client. The client ID and client secret strings now can be configured by using the ConfigPanel.

SAP Asset Manager

Latest Innovations – SAM 3.0 – Functional Location Search

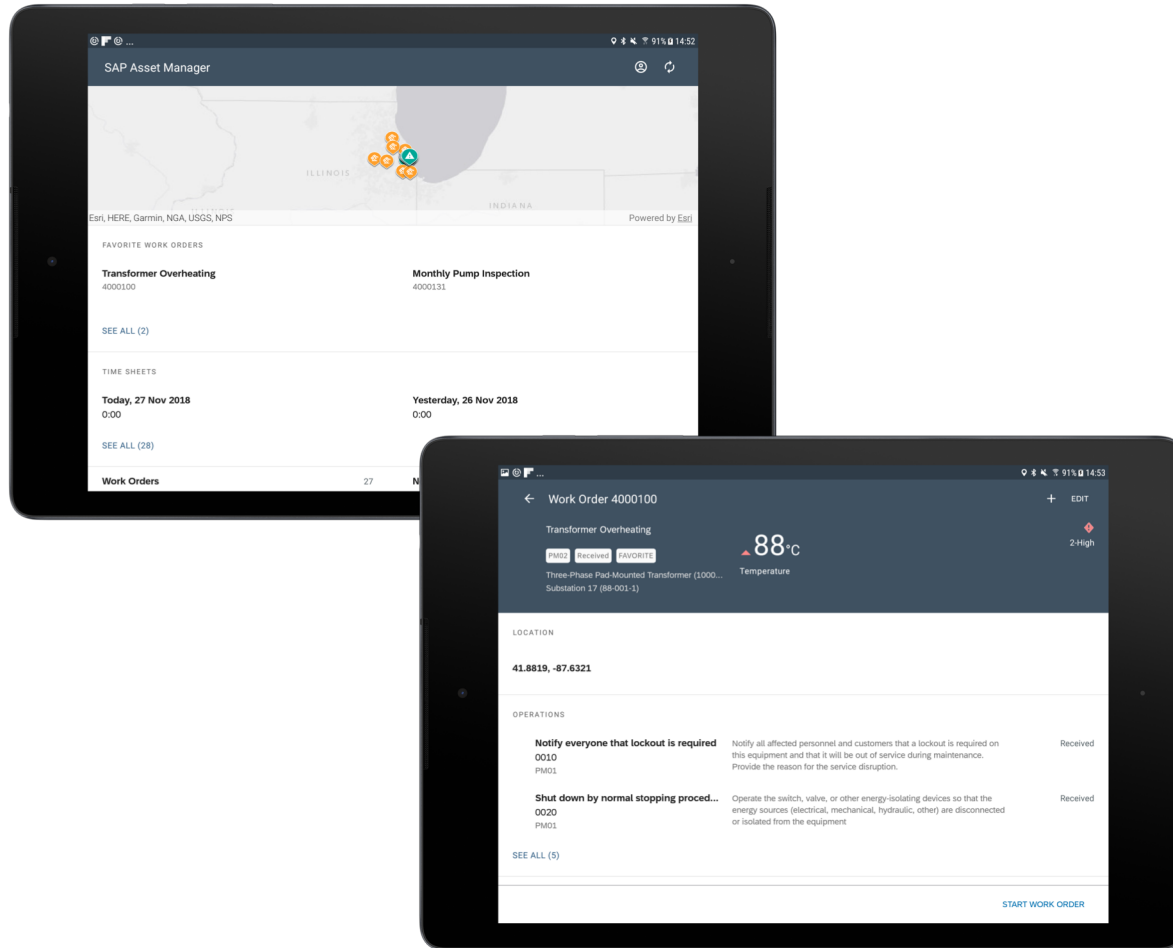


Scope:

Possibility to search functional locations with assigned work orders or notifications.

SAP Asset Manager

Latest Innovations – SAM 3.0 Android Support



Scope:

SAP Asset Manager is now available in restricted release on Android mobile devices



Mobile Apps for Asset Management Road Map

'February 2018

SAP Work Manager / SAP Asset Manager Comparison Matrix

SAP Asset Manager and SAP Work Manager – Feature Comparison

Feature	SAP Asset Manager		SAP Work Manager
	iOS	Android	iOS/Android/Windows
Work Order Management	Y	Y	Y
Notification Management	Y	Y	Y
Measuring Point Management	Y	Y	Y
Timesheets	Y	Y	Y
PRTs	Y	View: Y Edit: Q2/2019*	Y
Classification Data	Y	Y	Y
Technical Object View	Q4/2019*	Q4/2019*	Y
Equipment Install/Uninstall	Q2/2019*	Q2/2019*	Y
Warranty View	Y	Q2/2019*	Y
Partner View	Y	Y	Y
PM Confirmations	Y	Y	Y
Localization	Today: en-US, DE, FR, NO, DA, SP**, PT** Q2/2019*: HU, IT, JP, KR, NL, zh-CN Q4/2019*: HE, PL, RO, RU, SH, SK, SV, TR		CZ, DE, EN, en-US, FR, HE, HU, IT, JP, KR, PL, PT, RO, RU, SH, SK, SV, TR, zh-CN

*This is the current state of planning and may be changed by SAP at any time.

SAP Asset Manager and SAP Work Manager – Feature Comparison

Feature	SAP Asset Manager		SAP Work Manager
	iOS	Android	iOS/Android/Windows
Push Notifications	Y	Q2/2019*	Y
Geospatial Map View	Y	Y	Y
Geospatial Feature Layers	Y	Y	Y
Add/Edit Geospatial Objects	Q2/2020*	Q2/2020*	Y
Geospatial Offline Caching	Q2/2020*	Q2/2020*	Y
GEF Integration	Q4/2019*	Q4/2019*	N
Crew Reporting	Y	Q2/2019*	Y
Customer Service	Y	Q2/2019*	Y
Linear Asset Management	Q4/2019*	Q4/2019*	Y
Meter Management	Y	Q2/2019*	Y
Vehicle Stock	Q2/2019*	Q2/2019*	Y
Field Operations Worker / Rounds	Y	Q2/2019*	Y
Attachment Upload	Photo only Other document types: Q4/2019*	Photo only Other document types: Q4/2019*	Y
Attachment Download	Y	Y	Y

*This is the current state of planning and may be changed by SAP at any time.

SAP Asset Manager and SAP Work Manager – Feature Comparison

Feature	SAP Asset Manager		SAP Work Manager
	iOS	Android	iOS/Android/Windows
Inbound Transaction Queue	Q2/2019*	Q2/2019*	<u>Y</u>
Visual Enterprise Support	Q4/2019*	Q4/2019*	Y
Asset Hierarchy View	Q2/2019*	Q2/2019*	N
Location Hierarchy View	Q2/2019*	Q2/2019*	N
Analytics (Line Charts/Bar Charts)	Y	Y	N
Dynamic Forms	client side only	Q2/2019*	N
PdMS Indicators	Y	Q2/2019*	N
ASPM Questionnaires	Q2/2019*	Q2/2019*	N
Attachment Upload	Photo only Other document types: Q4/2019*	Photo only Other document types: Q4/2019*	Y
Attachment Download	Y	Y	Y
Single Sign-on Support	Y	Y	N

*This is the current state of planning and may be changed by SAP at any time.

Thank you.

Contact information:

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