Maximo Mobile v8.x

Watson IoT.

Agenda

Day - 1

– Overview of Maximo Mobile v8.x

– Maximo Mobile application demonstration

  • Technician Walkthrough

  • Inspection Walkthrough

– Hands-on lab on Mobile OOB application

Day - 2

– Discuss Maximo App Configurator

  • App configurations

  • XML Elements

– Hands-on lab for app configurations

  • Real-life use cases

– Discuss Security access configuration

  • Security Templates

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Prerequisites

Skills

- Basic understanding on Maximo (https://www.ibm.com/training/collection/maximoconsultant)
- Maximo Corrective Maintenance Badge (https://learn.ibm.com/course/view.php?id=6431)
- Other technology skills required:
  - XML
  - JavaScript
  - Docker

Infrastructure

- Must have IBM IDs created to access IBM resources
- Docker ID essential to pull images from IBM repo
- Maximo Mobile environment for hands-on lab (MAS or Maximo EAM 7.6.1.2)
  - Have your own environment (preferred)
  - Reserve an instance from IBM Technology Zone (https://techzone.ibm.com/collection/maximo-7612-maximo-spatial-761-maximo-mobile-for-eam-87)
- Workstation with Docker and WSL setup. (OS – Win10/MacOS)
- Active IBM entitlement key

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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

Maximo Mobile

Next generation user experience

1 application, 1 role-based interface

Intelligent workflows = blue button

Intelligent forms = configurability

Connected and disconnected

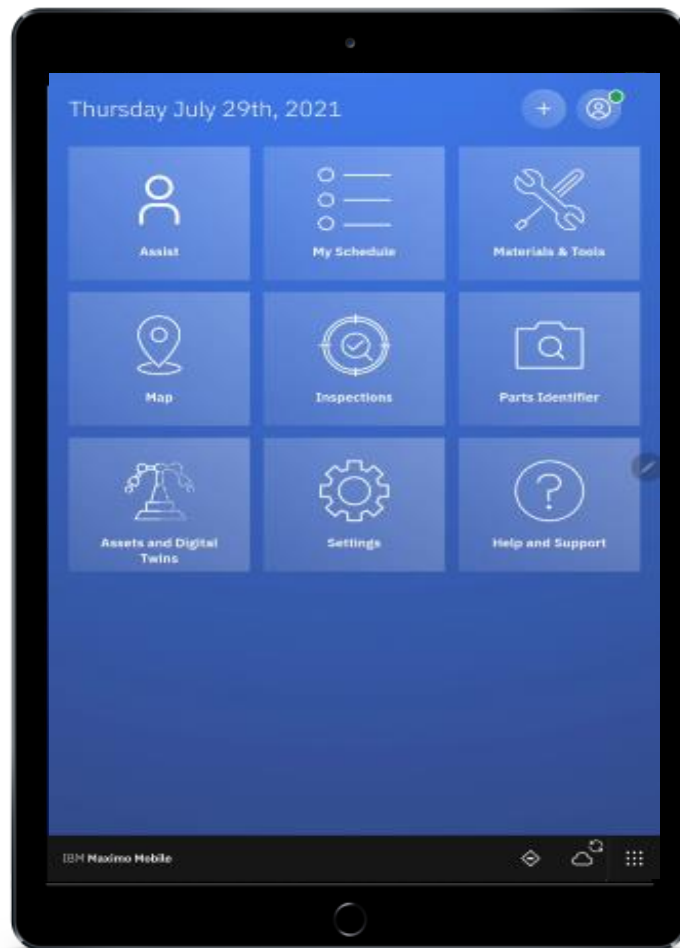Trustworthiness: data quality is higher, and real-time updates

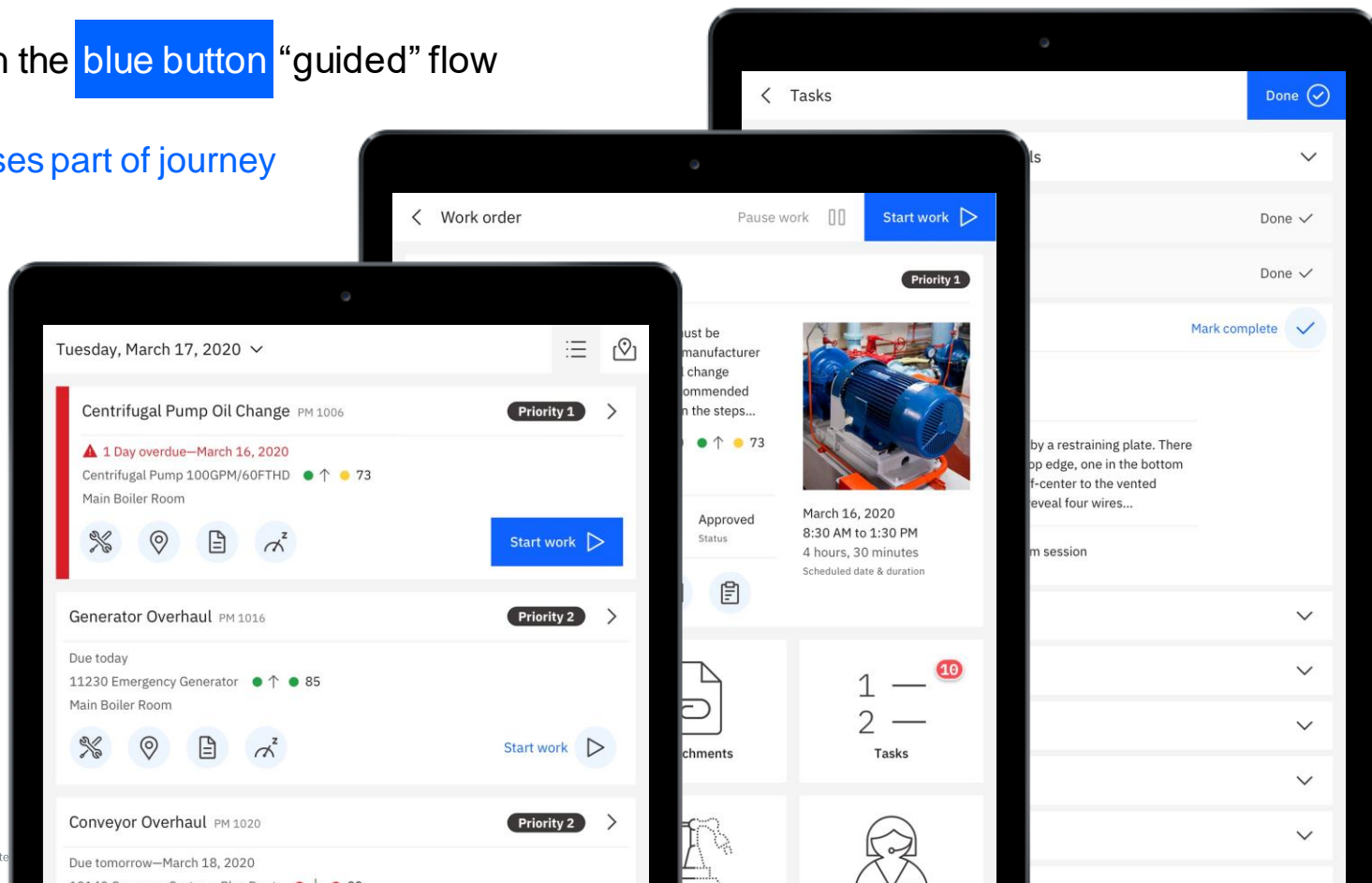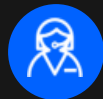Downloadable from:

Apple App Store

Google Play Store

Thursday July 29th, 2021

Assist	My Schedule	Materials & Tools
Map	Inspections	Parts Identifier
Assets and Digital Twins	Settings	Help and Support

IBM Maximo Mobile

Simplicity

Just click on the <mark>blue button</mark> "guided" flow

New use cases part of journey

Touchpoints

The right information at the right time

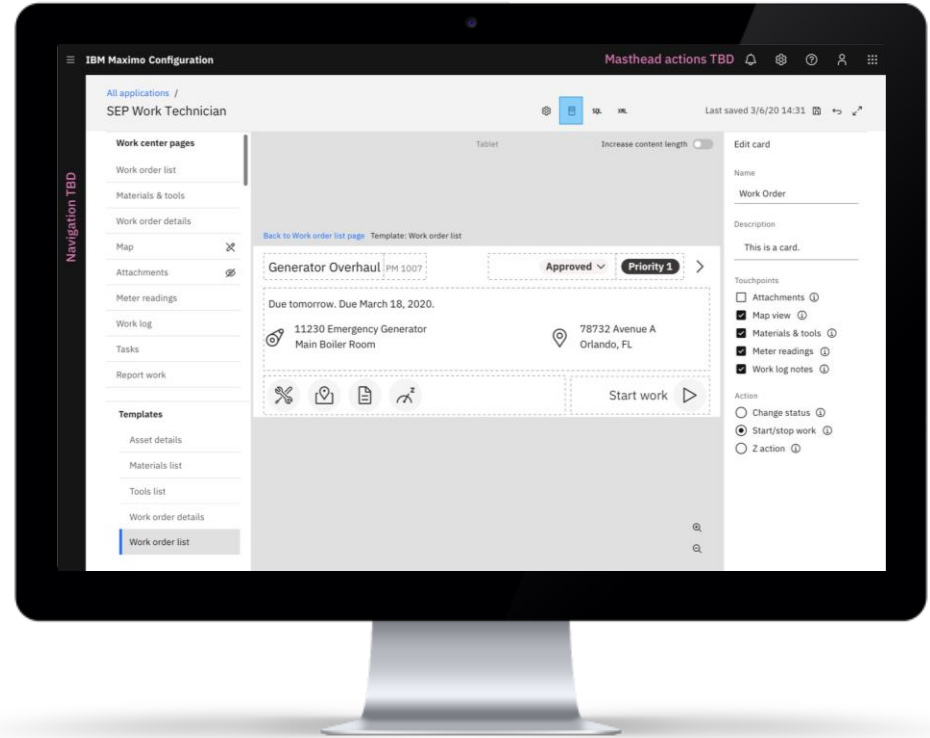|			
Assist	Materials & tools	Inspection	Expand
Safety	Map	Digital twin	Information
Scan	Photos and identify parts	Report work	Layers (map)
Meter readings	Tasks	Work log notes	Attachments
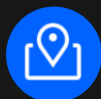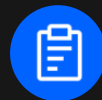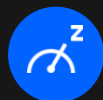
Configuration

Drive efficiency at scale
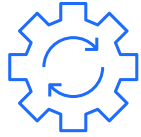
 Accelerate technician adoption

 Protect your investment

 Quicker time to value

This is not just a work order application

Upskill with AI and remote human-based assistant

Disconnected mode

True mobile native

Use AI to identify assets and parts immediately and correctly

Digital twin and parts identification

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Why Maximo Mobile?

- Improve technician productivity

- Boost first time fix rates

- Reduce mean time to repair

- Reduce training costs

- Reduce troubleshooting time

- Increase asset availability

- Reduced overall maintenance costs

- Improve data quality and reporting

Roadmap to Expand Maximo Mobile
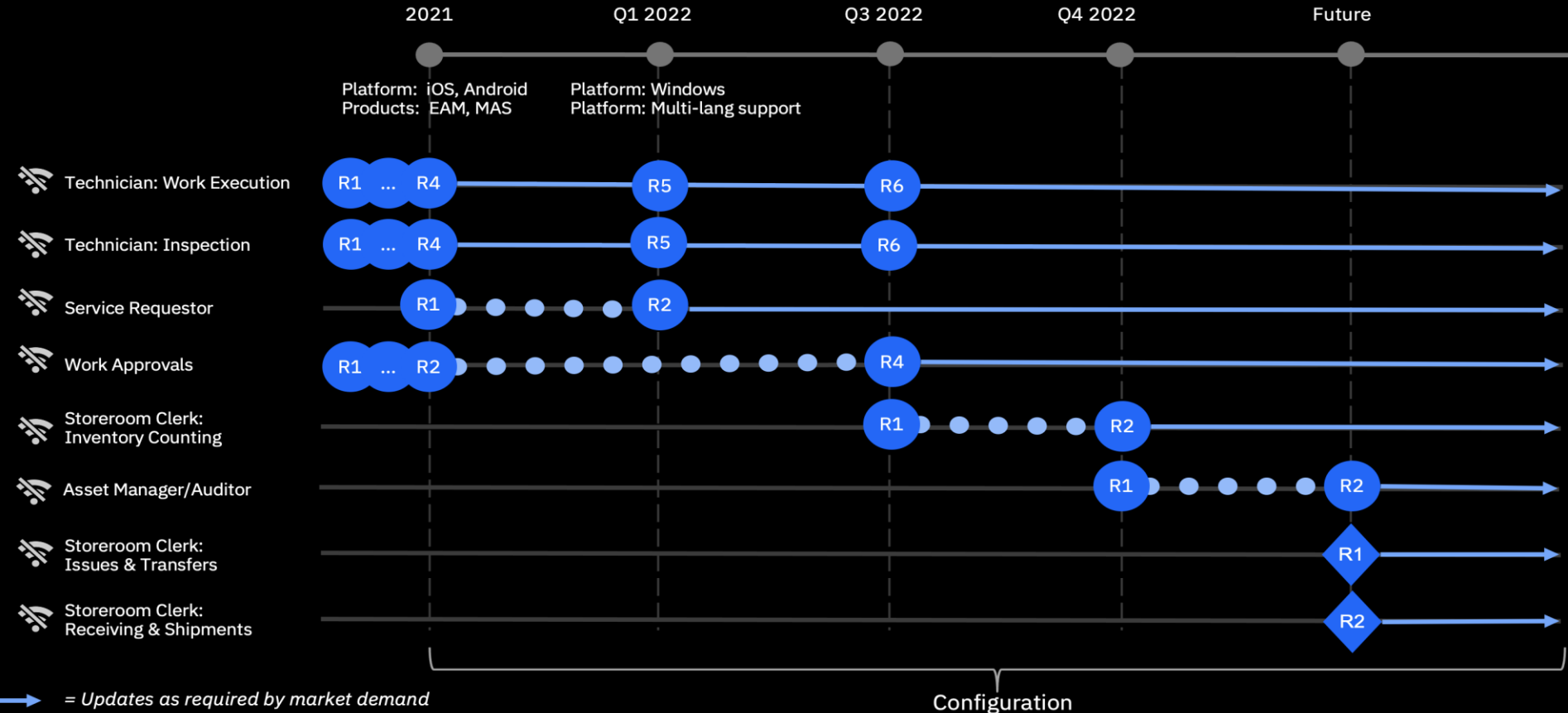
Roadmap to Expand Technician: Work Execution and Approvals

2021	Feb 2022	July 2022	Nov 2022	Future

Technician: Work

R1 ... R4   R5   R6

Platform: iOS, Android

- Access to multiple work views
- Change status of WO
- Check off issued materials and tools
- Confirm asset on a work order via barcode or Qrcode scan
- Create/edit work
- Create follow-up work
- Enter meter readings
- Launch inspections
- Navigate to work
- Report failures
- Report labor time
- Issue materials actuals
- Material requests
- Report Asset status
- Filter work
- Multi-asset/location
- Start/stop/pause timer
- View and complete tasks
- View planned materials and tools
- Viewing attachments and adding photos
- Work logs

- Physical signature
- Enhanced labor reporting
- Tool actuals
- View asset and location work history
- Report downtime

Maps
- View my location
- X, Y conversion for navigation
- Online/Offline maps
- Capture GPS
- Identify feature capabilities

Maximo Application Suite only:
AI tooling
- Part identifier

Assist
- Launch Assist (navigator, work order, and tasks)

- Server side configurations for:
  - Field completion status
  - Status to collect signature
  - Usage of timer
- Asset and location lookups for work order create/edit
- Work log type
- Support for task assignments, as well as to report actuals in the task level
- Issue materials from reserved items

Maximo Application Suite only:
- Support for push notifications

- Enhanced offline database support
- Drill down in a WO hierarchy
- Details around historical work orders
- Support for flow control
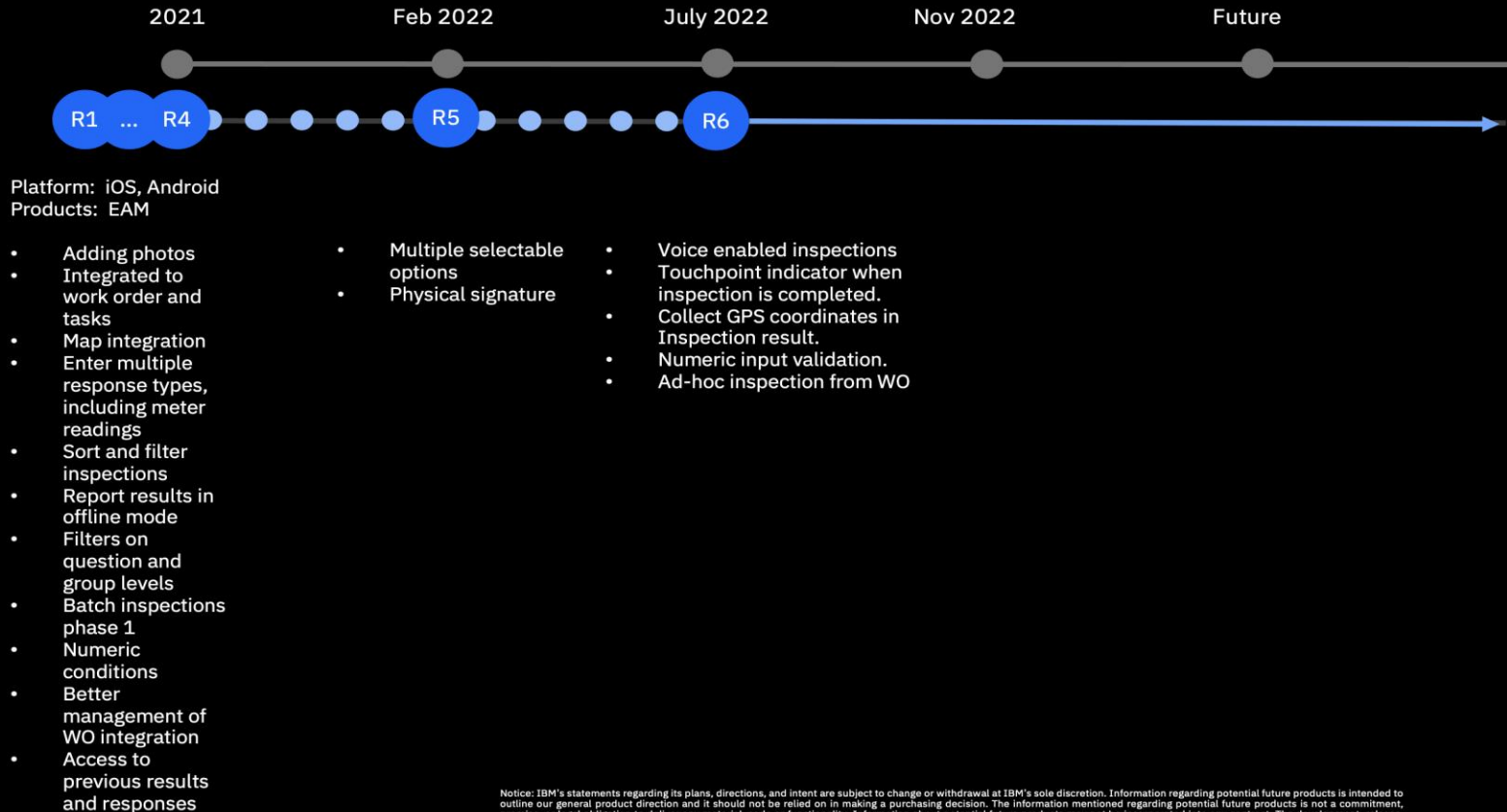- Safety Plans / Hazards and Precautions support

- Calibration WOs
- Workflow integration

Roadmap to Expand Technician: Inspections

2021   Feb 2022   July 2022   Nov 2022   Future

Technician: Inspection

R1 … R4   R5   R6

Platform: iOS, Android
Products: EAM

- Adding photos
- Integrated to work order and tasks
- Map integration
- Enter multiple response types, including meter readings
- Sort and filter inspections
- Report results in offline mode
- Filters on question and group levels
- Batch inspections phase 1
- Numeric conditions
- Better management of WO integration
- Access to previous results and responses

- Multiple selectable options
- Physical signature

- Voice enabled inspections
- Touchpoint indicator when inspection is completed.
- Collect GPS coordinates in Inspection result.
- Numeric input validation.
- Ad-hoc inspection from WO

Roadmap to Expand Technician: Service Requestor

2021   Feb 2022   July 2022   Nov 2022   Future

Service Requestor   R1 ● ● ● ●   R2

Platform:
iOS, Android, Windows

Products:
Manage, EAM

R1 – October 2021

- Create new Service Requests
  - Selectin category/subcategory
  - Capture photo/video during creation
  - Cancel new Service Requests
- View Active Service Requests
  - Add comments
  - Add attachments
- View Completed Service Requests History

R2 – February 2022

- Select Asset/Location
  - Searching
  - Bar/QR code scanning
  - Selecting from Map
  - **Web Only** – Advanced Filtering
- Common request types selection driven off request category
- Follow-up questions driven off common request type

Future

- Offline maps
- Show nearby
- Capture GPS
- Work log type
- Drill down selection for Assets/Location
- **Mobile only** – Advanced filtering for Asset / Location
- Quick filtering – My Assets/Locations
- Owner groups assignment displayed for active request
- Guest service requests
- Self-service user registration
- Configurable hub flow
- Follow-up questions with table domains
- Follow-up questions with radio buttons
- Cleanup result set columns

Maximo Application Suite only:
- Support for push notifications

Roadmap to Expand Storeroom Clerk: Inventory Counting

2021   Feb 2022   July 2022   Nov 2022   Future

Storeroom Clerk:
Inventory Counting

R1   R2

Platform:
 iOS, Android, Windows

Products:
Manage Only

R1 – July 2022

- New Manage Inventory Count Book application
  - Create count books and group items for counting
  - Define count tolerances f
  - Reconcile inventory balance

- New Mobile Inventory Counting app
  - Perform physical counts of count books items
  - Conntected/Disconnected
  - Preview count variances
  - Reconcile counts
  - Mismatch alters and recount options for more accurate counts

- Support customer RFE
  - Count books for Manage
  - MASM-I-314 - Allow physical count for assets in inventory
  - MASM-I-556 – Easy method to recount
  - MASM-I-Cycle counting batch

R2 –November 2022

Hands-On Exercise #1

Client Story

M-Energy Inc is a crude oil drilling and extraction company having oil rigs and refineries across the globe. They are using Maximo EAM to manage, track and maintain their assets. They are planning to expand their business into offshore drilling, and they are looking for offline Maximo Work Management capabilities for their offshore rigs. They are also looking forward to incorporate inspection capabilities along with work management.

Hands-On Contd.

Use Maximo Mobile to demonstrate the following:

1. Download and install Maximo Mobile on a mobile device
2. Login to access the Work Order data
3. Associate an asset or a location to an existing Workorder
4. Perform an inspection in Maximo Mobile
5. Request for materials from Maximo Mobile
6. Complete tasks of a Workorder
7. Add meter readings
8. Complete a WO
9. Create a follow-up WO
10. Create an SR

MAF Visual Configuration Tool

We've built the "MAF Configuration Application" (aka the Config-App) to provide visual configuration functionality for Graphite applications

The Config-App allows us to:
- Configure applications using an xml editor
- Easily edit, duplicate and delete applications
- Drive MAS adoption and sales

Target audience includes:
- Customers (technical and non-technical)
- Business partners
- IBM Application Developers & Designers

Customers and business partners are using it today:
- Woolworth's, John Wayne Airport, Coca Cola, Sund & Baelt, BoM, Gelnex, Sandvik, Targa, Highstep, Migros, SoCalGas, etc.
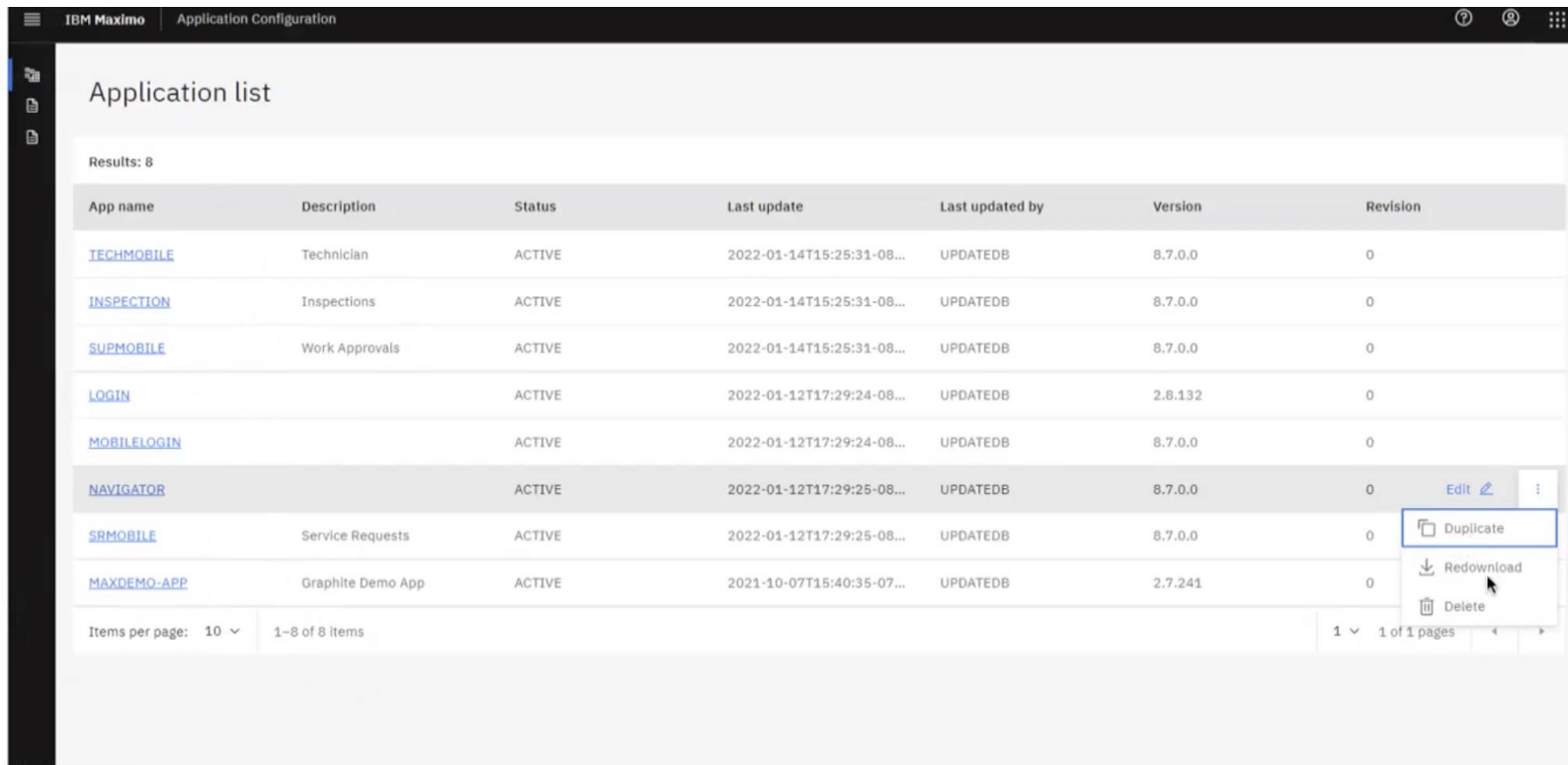
How does it work?

The Config-App is currently deployed as a self-contained Docker image with everything it needs to configure a Graphite application.
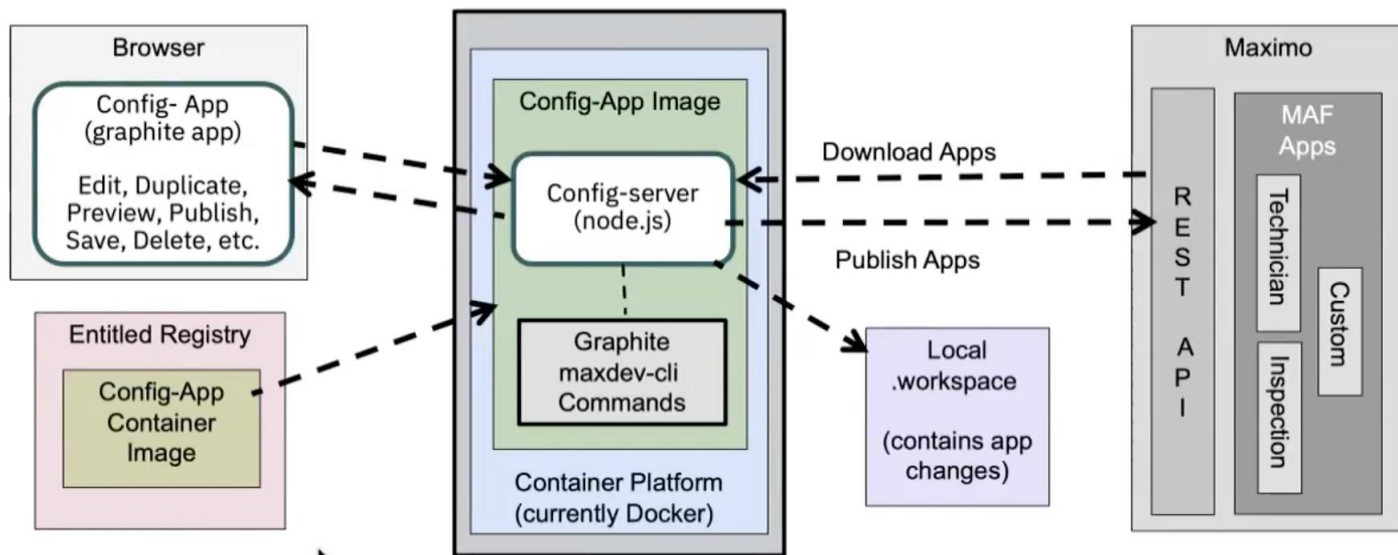
Where are we now... Config-App (app list page)

Where are we now... Config-App (edit page)

Where are we now… Config-App (custom JS editor)
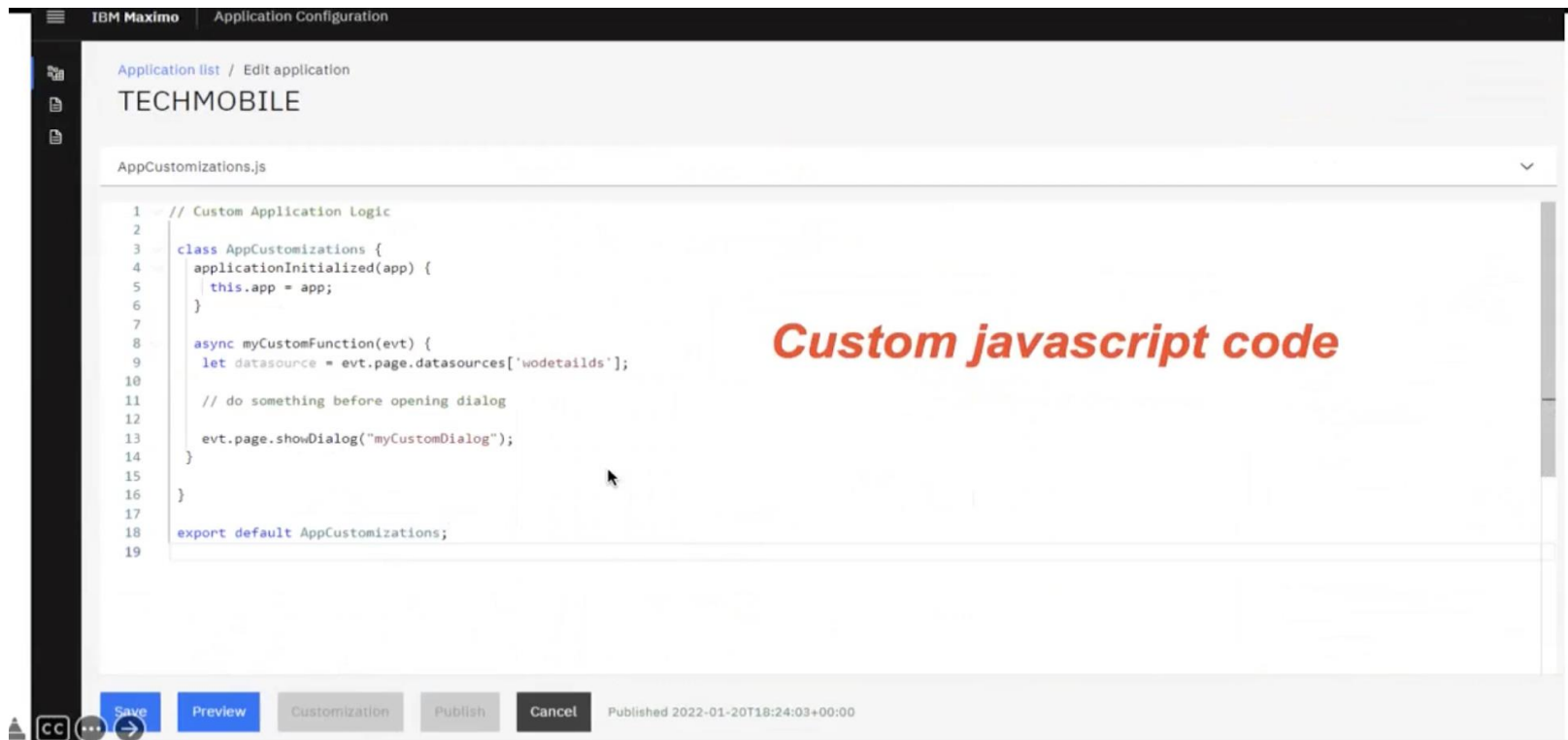
Maximo Mobile – App Configurations and Customizations

Setup development workstation

1. Ensure you have docker service setup on your system

2. Ensure you have an IBM Entitlement key to fetch the docker image for MAF

3. If using a Windows system, setup WSL and get a Linux environment to run on Windows

4. Login and download the MAF docker image into your local registry

5. Use the docker run command to access the MAF tool in your browser

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Hands-On Exercise #2

Client Requirements

1. Edit a label
2. Add a new field
3. Change existing fields
4. Change color of a field based on a condition
5. Hiding an XML element based on a signature option

Maximo Mobile – App Configurations and Customizations

Useful Links

1. Maximo Mobile overview
2. Configuring and customizing IBM® Maximo® Mobile
3. Maximo Mobile Customization Samples

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