

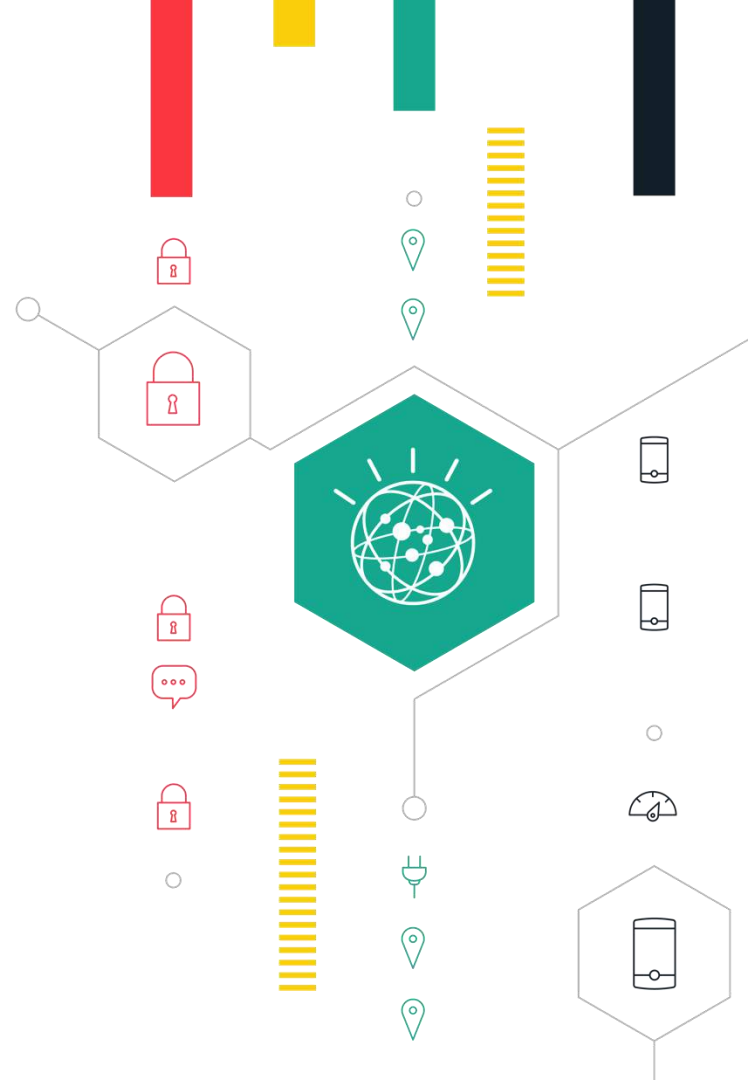
IBM **Watson IoT**

Maximo Anywhere Product Update

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August 2017



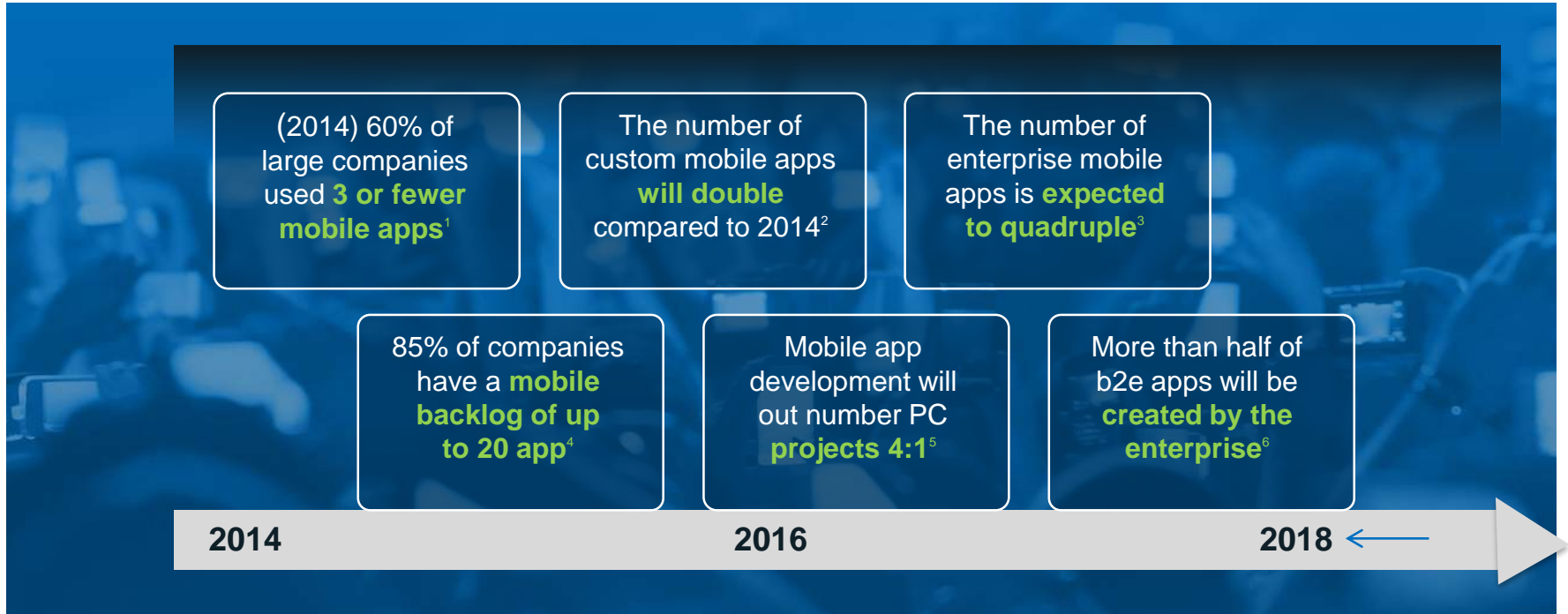
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Our Mobile Strategy and Product Update

Mobile continues to explode in the enterprise



Maximo Anywhere Strategy

Maximo Mobility Solution from IBM

Connected, Unplanned and Planned Offline support

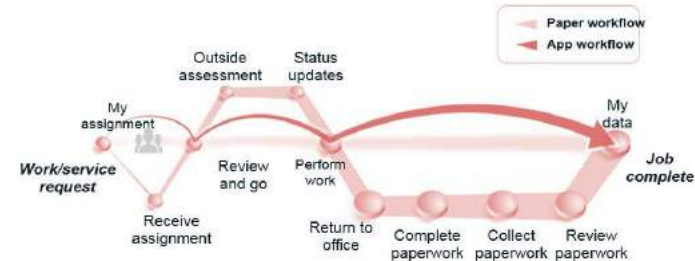
Ready Apps + Extensible Platform

Major Mobile OS - iOS, Android, Windows Tablet

Available On-Premise and as SaaS

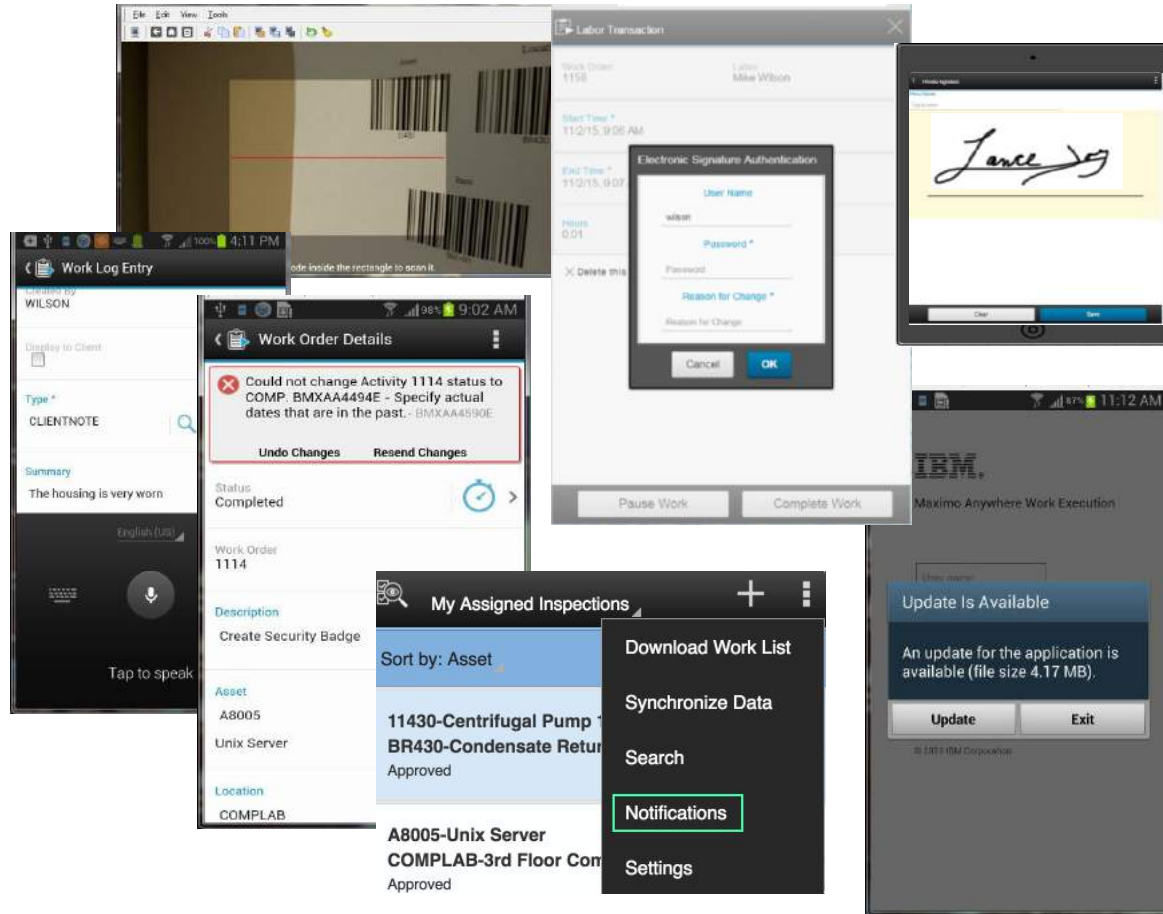
Available in 19 languages

Maximo Based Administration



Platform Features - available with every Anywhere App

- ✓ Camera and Voice to Text
- ✓ Barcode/ QR Code support
- ✓ RFID support
- ✓ GPS Support
- ✓ Push Notification
- ✓ Attachments
- ✓ E-Signature / Real Signature
- ✓ Error Handling
- ✓ App Version management
- ✓ Online and Offline Map Support



Out of the Box Ready Apps

Work Management	Inventory Management	Asset Management	Industry Solutions
Work Execution	Physical Count	Asset Data Manager	Work Exec for Calibration
Inspection	Issue & Returns	Asset Audit	Incident Reporter (O&G, HSE)
Approval	Transfer & Receiving		Work Exec for Complex Assets (ACM/ Aviation)
Service Request			E Flight Log Book (Aviation/ACM)
			Operator Rounds (Nuclear)

Maximo Based Anywhere Administration Application

Maximo Based Anywhere Administration Application

- **List Data:** Create & manage queries
- **Lookup Data:** Control/limit data downloaded to device
- **Settings:** App level enablement settings
- **Notification Events:** Push Notification
- **Global Properties:** All app level settings, like control attachment download limit...

Global Properties

Filter > 1 - 15 of 20

Property	Description	Value
si.att.proxy.maxfilesize	The max file size of the attachment files to download, anything larger is skipped. 5 Mbytes	5242880
si.attach.doclink.doctype.default	Attachments upload path	anywhere.doclinks
si.attach.upload.maxsize	Default 10 MB. Upload limit for the file attachment to the server, make sure size configured here is equal or less than server size	10485760
si.attachment.basedirectory	Controls the location of the folders that are created by multiple users. If you share a mobile device, the attachments could reside in multiple user directories.	anywhere
si.device.connectivity.timeout	Timeout to be used when connecting with adapter to get working data (in milliseconds)	10000
si.device.connectivity.timeout.interval	Waiting time before try to access the remote system after a timeout error (in milliseconds)(use 0 for no interval)	5000
si.device.connectivity.timeout.stablepagination	Timeout to be used when downloading large sets of data like lookup data using stable pagination (in milliseconds)	30000
si.device.download.AttachmentsWithBulkDownload	Should we automatically download the attachment files when the worklist is being downloaded	true
si.device.onlyBulkDownloadPrintWithReportAttachments	Should we only download attachment files whose print with report tag is set to true	true
si.map.directions.PathColor	Configure the color of path used on directions. The pattern is: AARRGGBB	7F0000FF
si.map.directions.PathWidth	Configure the thickness of path used on directions	5
si.map.esri.authentication.isEnabled	When set to 1, this property defines that authentication support is enabled	0
si.map.esri.isGetMethodEnabled	The method that will be used to generate token for directions routes	0
si.map.esri.password	The password for accessing esri server services	
si.map.esri.refererService	The url used as parameter for the server that will be used to generate the token	http://www.arcgis.com

OK Cancel

List View | List Data | Lookup Data | Settings | Notification Events

Maximo Anywhere Work Execution Filter > 1 - 2 of 2

Resource	QueryBase ID	Query Description	Group	Sequence
woHistory	woHistoryFilter	Query to filter Worker Order result by on		10
workOrder	getMyAssignedWor	My Assigned Work		20

New Row

Maximo Anywhere: 19 Supported Languages

- English
- Brazilian Portuguese
- Czech
- Danish
- Dutch
- French
- Finnish
- German
- Hungarian
- Japanese
- Korean
- Norwegian
- Polish
- Russian
- Simplified Chinese
- Spanish
- Swedish
- Traditional Chinese
- Italian

Maximo Anywhere: Licensing and Migration Options

Authorized and Concurrent User Licensing metric

Includes use of ALL Anywhere applications*

- 1. Mobile Only:** Requires only the Maximo Anywhere licensing to use the Anywhere mobile apps. Users only access Maximo via Anywhere apps.
- 2. Mobile & Desktop:** Requires Maximo Anywhere and appropriate Maximo core entitlement. Sold/priced as an Add-on to Maximo license
- 3. Existing Maximo Mobile customers:** May migrate their licenses (in whole or in part) to Maximo Anywhere at no charge when similar functional apps exist
- 4. Trade-up from Maximo Everyplace:** Can purchase trade-up licenses to move from Maximo Everyplace to Maximo Anywhere

Maximo Anywhere: SaaS Offering



Available Now ...

- Available with Maximo SaaS and SaaS Flex
- Mobile Only and Add-on Licenses
- Authorized and Concurrent Users
- Android and iOS Support

Benefits of IBM SaaS Offering

- ✓ Lower cost of ownership
- ✓ Faster time to value
- ✓ Scalability
- ✓ Less strain on IT resources
- ✓ Shift costs from CAPEX to OPEX

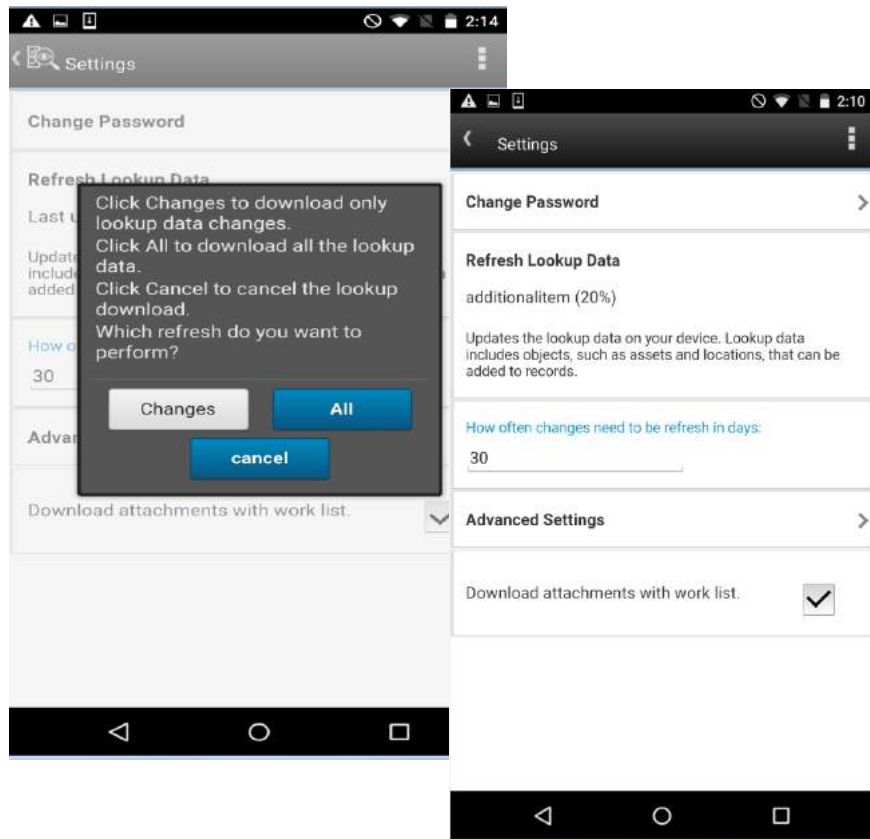


What's new in Maximo Anywhere 7.6.2

Data Download Enhancements

Data Download Modes

- ❑ Asynchronous download of lookup data.
- ❑ Retry Capability based on Tracking lookup/system data failure
- ❑ Selective refresh data capability based on Delta
- ❑ Auto sync capability in background based on Settings



Platform Enhancements (Contd.)

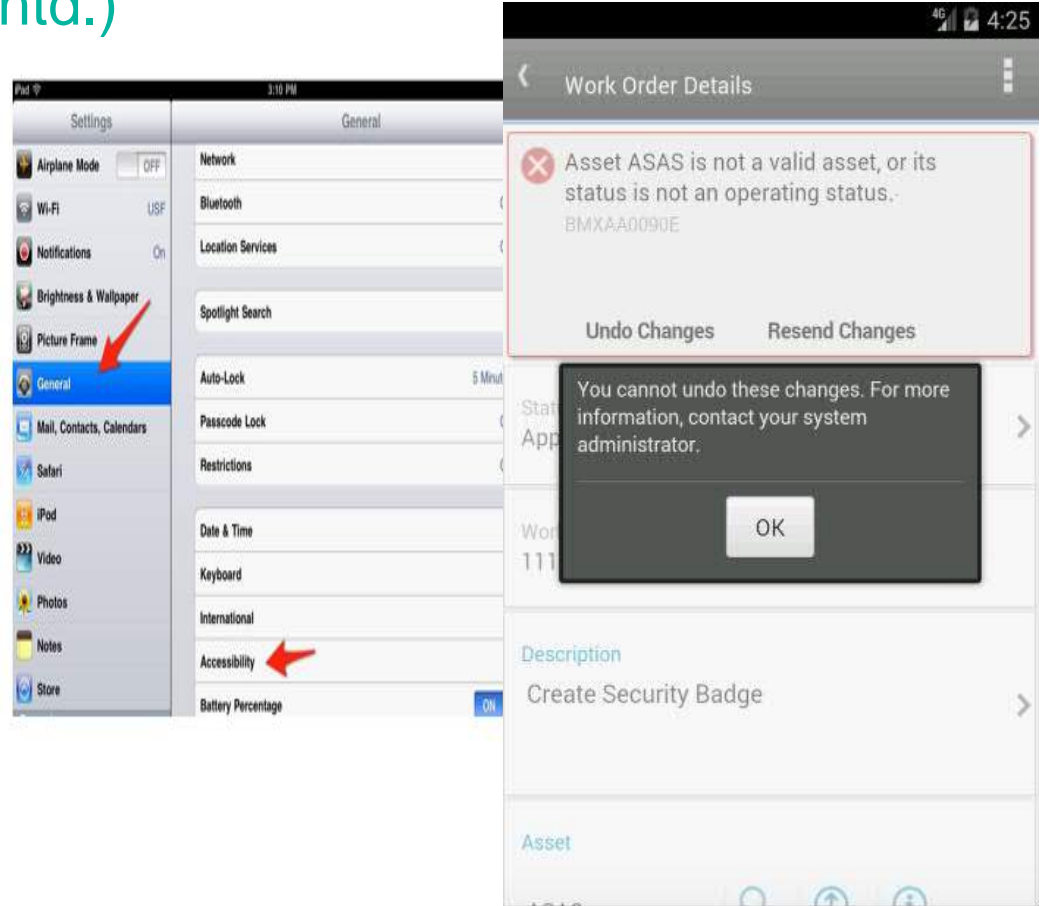
Accessibility Support

Undo Process

- ❑ New Setting to allow Administrator to Control Undo process

Simplified Build and Deploy

- ❑ Configurable option to do a Web Build for Android and iOS
- ❑ Simplified build when there are no Native changes
- ❑ Eliminates need for Android or iOS SDK
- ❑ App get the updates Over the Air (OTA)



Work Execution App – Now Available on Apple App Store

The screenshot shows the Apple App Store page for the IBM Maximo Work Execution app. The browser address bar shows the URL <https://itunes.apple.com/us/a>. The page title is "IBM Maximo Work Execution" by IBM. The description states: "IBM Maximo Work Execution (Work Execution) provides maintenance technicians and supporting staff members with access to the work order data that is most relevant to completing their tasks. Work Execution is compatible with IBM Maximo Anywhere 7.6.2.x. Users can review task details, report labor actuals, tool or material usage, and maintain...". The app is free, in the Business category, and was released on August 12, 2017. It is compatible with iPhone, iPad, and iPod touch. The screenshots section shows three mobile device views: a list of work orders, a detailed view of a work order, and an attachment screen.

IBM Maximo Work Execution
By IBM
Open iTunes to buy and download apps.

Description
IBM Maximo Work Execution (Work Execution) provides maintenance technicians and supporting staff members with access to the work order data that is most relevant to completing their tasks. Work Execution is compatible with IBM Maximo Anywhere 7.6.2.x. Users can review task details, report labor actuals, tool or material usage, and maintain...

Screenshots

Work Orders for My To...
Sort by: Work Order 309

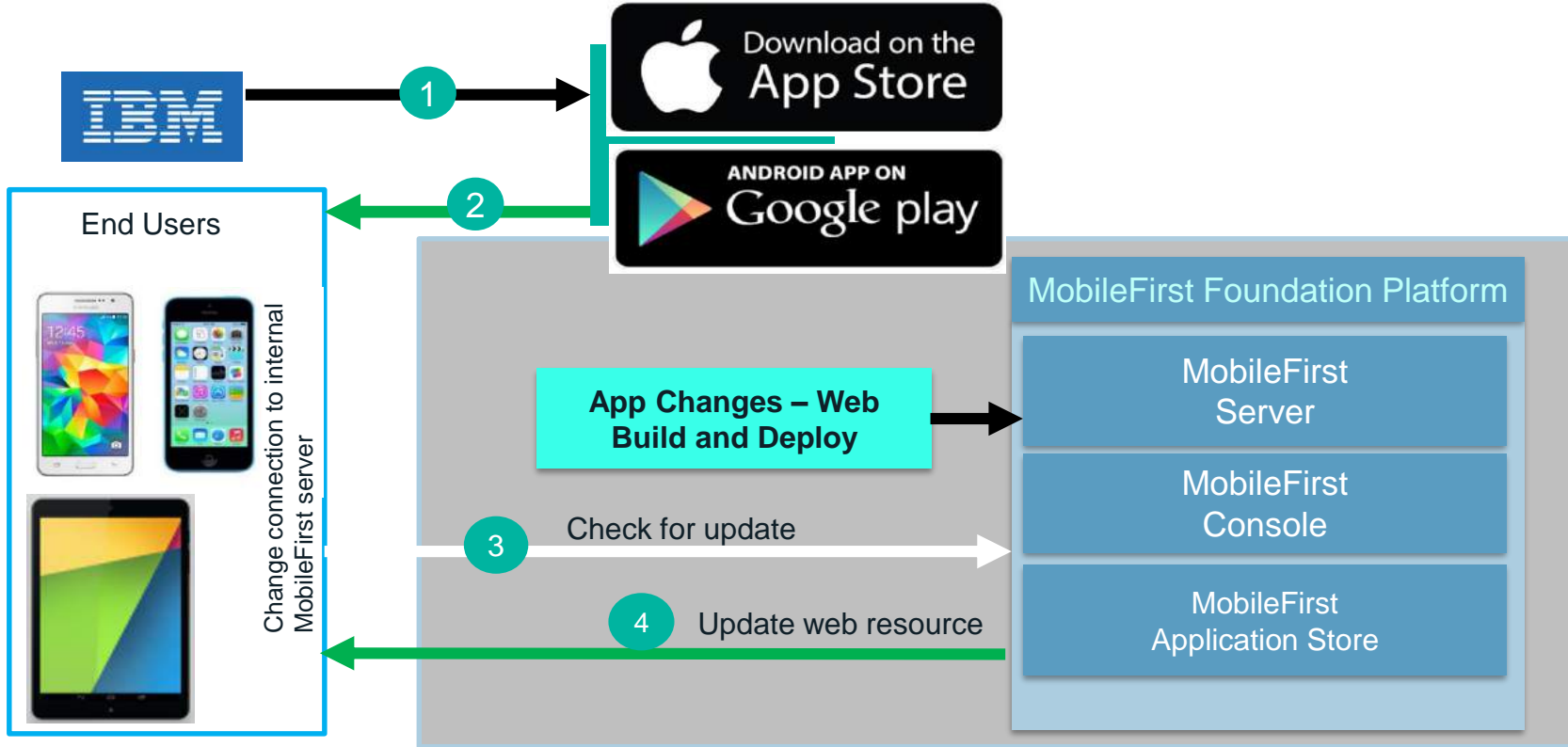
Work Order ID	Status	Due Date	Shift
12 Month Service on Shippin... 1001	In Progress	3/30/16, 4:00 PM	12600-Conveyor ...
Rebuild Feedwater Pump 1002	Approved	7/21/17, 5:00 PM	11450-Two Shift ...
Check for Plumbing Problem 1003	Approved	3/30/16, 4:00 PM	
Generator Overhaul 1004	In Progress	11230-Emergen...	

Work Order Details
Status: Approved
Work Order: 1002
Description: Rebuild Feedwater Pump
Asset: 11450
Two Shift Operation

Attachments
Sort by: Created
CAMERA1.JPG
IMAGE1.PNG



Faster Time to Value : Deployment in hours



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Advanced Map Capabilities – Map Manager

- Enhanced Map Manager to handle all Anywhere specific configurations - Offline areas, Layer filtering and Offline map estimation.

The screenshot displays the Map Manager application interface, which is used for configuring maps and offline areas. The interface is divided into several sections:

- Map Manager Header:** Includes a home icon, a hamburger menu, and the title "Map Manager".
- Find Map:** A search bar with a magnifying glass icon.
- Find Navigation Item:** A search bar with a magnifying glass icon.
- Go To Applications:** A button with a magnifying glass icon.
- Available Queries:** A section with a magnifying glass icon.
- All Records:** A section with a magnifying glass icon.
- All Bookmarks:** A section with a magnifying glass icon.
- Common Actions:** A section with a magnifying glass icon.
- More Actions:** A section with a magnifying glass icon.
- Map Provider Options:** A section with a magnifying glass icon.

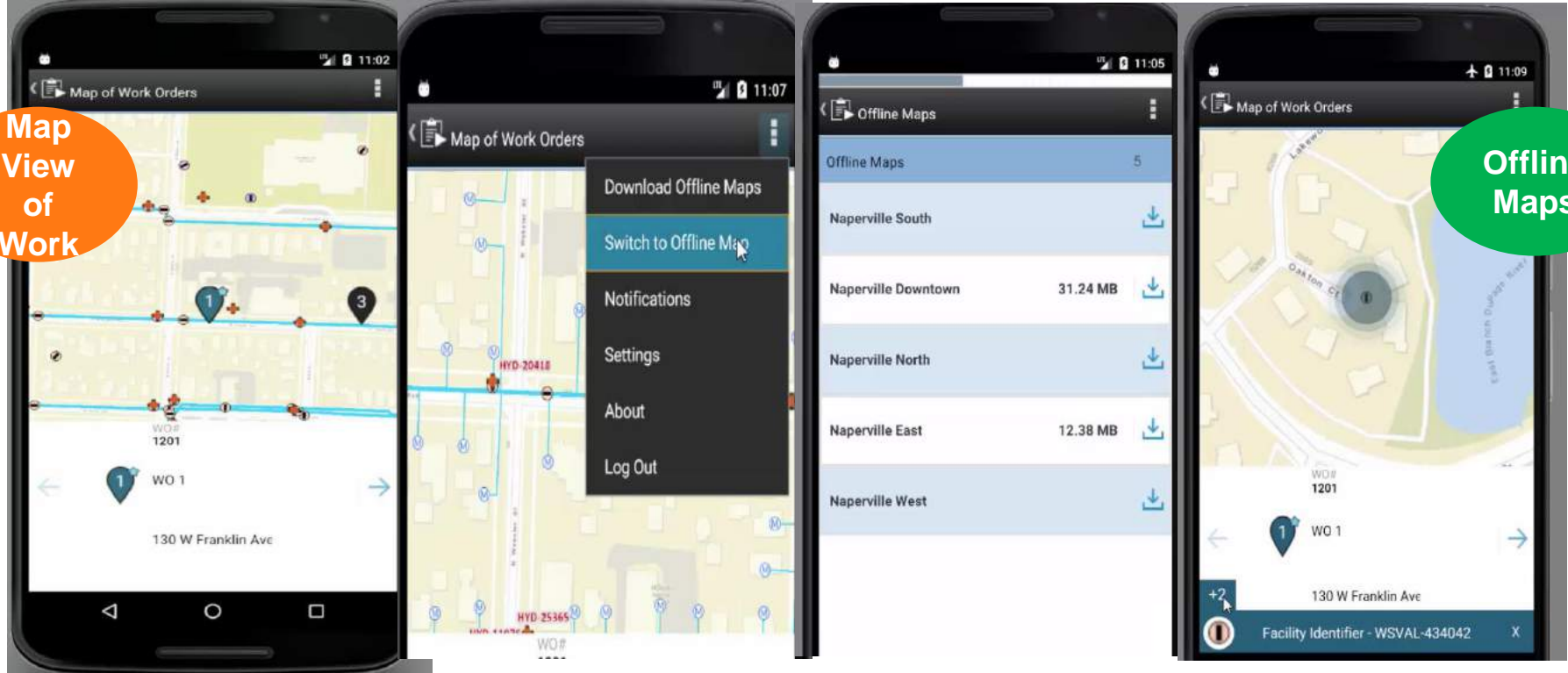
The main configuration area is titled "Sites" and shows a table with columns for "Site", "Zoom level", and "Latitude (Y)". The table contains one entry for "NAPERVIL". Below the table, there are sections for "Map Initial Extent" and "Map Full Extent", each with input fields for "Zoom level", "Latitude (Y)", and "Longitude (X)", and a "Map Initial Extent" or "Map Full Extent" button. There is also a "Configure areas in the map that are accessible by offline mobile devices" section with a "Configure" button.

The "Offline Mobile Map Area" section is currently empty, showing "0 - 0 of 0" rows. It has a "Filter" button and a "New Row" button. The "Area Name" column is currently empty.

On the right side, there is a "Select Location" dialog box showing a map of Naperville, Illinois. The map includes a scale bar (0.2 to 0.4 miles) and a "City of Naperville, County of DuPage, Esri, HERE, Garmin..." label. The dialog box has "OK" and "Cancel" buttons at the bottom.

Advanced Mapping Capability – Online and Offline Maps

- Map View of Work - Online and Offline with GIS data
- Ability to Download and Switch to Offline Map



Advanced Map Capabilities

- Identify Action on GIS features to display feature attributes from GIS system
- Updates the Asset associated with the Workorder from Identify menu

The image displays a mobile GIS application interface with three main panels and a smartphone overlay.

Map of Work Orders: Shows a map with various GIS features. A specific feature is highlighted with a red circle and a red '1' icon. Below the map, a white box displays 'WO# 1201' and 'WO 1'. At the bottom, a blue bar shows a zoom level of '+10', the address '130 W Franklin Ave', and the 'Facility Identifier - HYD-7887'.

List of Features: A table listing various GIS features with their Facility Identifiers.

Features	Facility Identifier
Water Hydrants	HYD-7887
Water System Valves	WSVA-7887
Water System Valves	WSVA-7887
Water Hydrants	HYD-7887
Water Mains	WMN-7887
Water Mains	WMN-7887
Water Mains	WMN-7887
Water Lateral Lines	WLL-7887
Water Lateral Lines	WLL-7887

Feature Attributes: A table displaying the attributes for the selected feature.

Attributes	Value
OBJECTID	1
MXSITEID	NEWY0
MXASSETNUM	WM-7
MXCREATIONSTATE	
layerName	Water M
layerId	
Facility Identifier	WMN-7
Install Date	2999808000
Material	
Diameter	
Water Type	Pota
Enabled	
Active Flag	
Owned By	
Managed By	
Last Update Date	12876159860
Last Editor	CHRISVM2008S\XPMU
GlobalID	99A-B95F-4850-8FD3-A29C400010

Smartphone Overlay: Shows the 'Feature Attributes' screen with a context menu open. The menu options are: 'Update Work Order Asset', 'Notifications', 'Settings', 'About', and 'Log Out'. The 'Update Work Order Asset' option is highlighted.



Our Path Forward

Enhancements Themes for Coming Releases

Location Based Services and Advanced Map Capabilities

- Enhance map control - ESRI, Google
- Send device position to Maximo.
- Modify work on a map
- Query work, assets, locations, labor based on device position.
- Redlining and mark ups.
- Linear Asset Management

Application Enhancements

- Crews & Crew Management
- Time Sheet Reporting
- Request Material
- Inspection Enhancements
- Updates to current applications

Industry Solution Applications

- Clearance Field Tagging (Nuclear)
- Permit Request (O&G, HSE)
- Hazard Checklist (O&G, HSE)
- CU In Progress Enhancements (Utilities)

Platform

- Simplified Build and Deploy
- Data download modes
- OS Currency
- Additional Authentication Support
- Configurability
- Performance Improvements
- Style and Usability Enhancements
- Serviceability



Mobile Product Consolidation Plan

2013

Maximo Anywhere

Maximo Mobile
Work Mgr

Maximo Mobile
Inventory Mgr

Maximo Mobile
Asset Mgr

Maximo Everyplace

2015

Maximo Anywhere

Maximo Mobile
Work Mgr

Maximo Mobile
Inventory Mgr

Maximo Mobile
Asset Mgr

Maximo Mobile customers can opt to migrate to Anywhere or stay on current technology

Maximo Everyplace

Maximo Everyplace has been merged into core Maximo

2017+

Maximo Anywhere

End of Market

Maximo Mobile
Work Mgr

Maximo Mobile
Inventory Mgr

Maximo Mobile
Asset Mgr

Maximo Mobile customers entitlement will be mapped to Maximo Anywhere.

Field Service Management with Maximo

Completion of Work

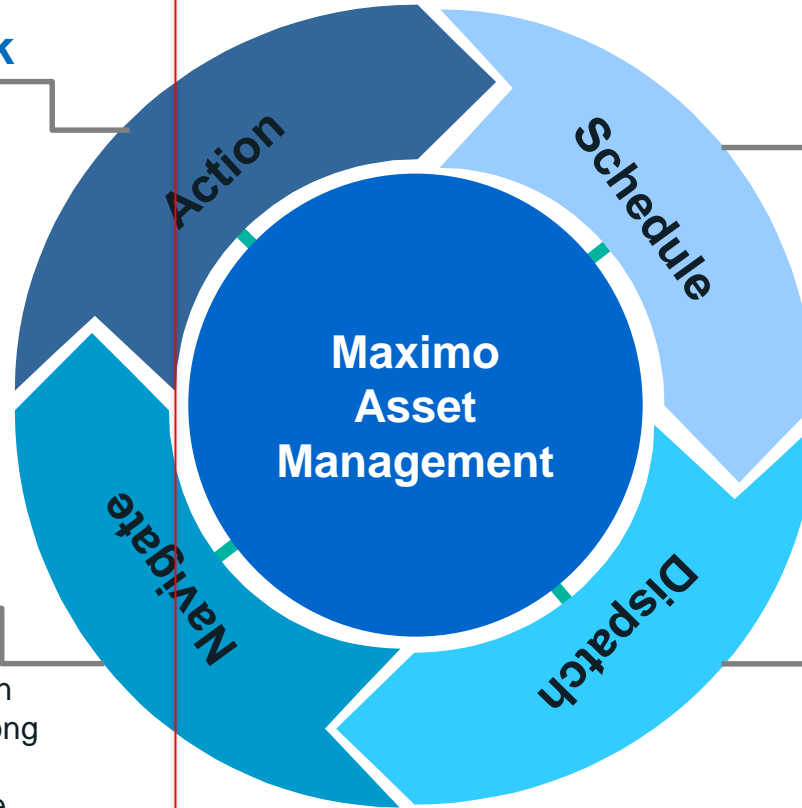
Anywhere

- Technician receives work orders in the field
- Provides real-time status updates to dispatcher and the back-office

Mapping of Work

Spatial/Anywhere/Plus

- Optimization of work route on an Esri/Google/Bing map along with turn-by turn directions displayed on a mobile device
- Incorporate real-time traffic



Planning of Work

Scheduler/Scheduler Plus

- Forecast and schedule work
- Incorporate weather data
- Optimization of work via resource leveling or capacity planning
- Plan and schedule appointments

Assignment of Work

Scheduler/Scheduler Plus

- Optimize resource assignment based on geolocation, craft, skill, weather
- Monitor work and adjust based on real-time field progress



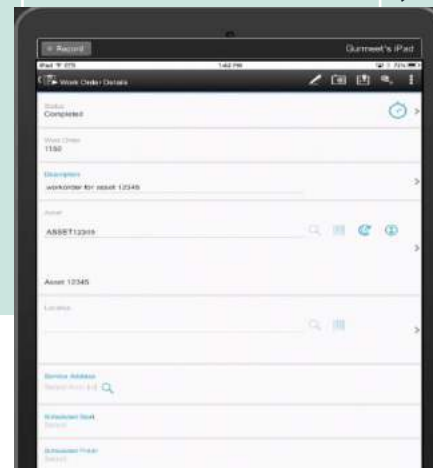
Maximo Anywhere Apps Overview



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Work Execution App Features

2013	2014	2015	2016	2017 (Planned)
<ul style="list-style-type: none"> ✓ List of Work Orders ✓ Work Order Details ✓ Tasks ✓ Plans and Actuals ✓ Work Log ✓ Change Status ✓ Record Labor with Start/Pause/Stop Timer ✓ Create Follow-up Work Order ✓ Work Order on Maps (Offline) 	<ul style="list-style-type: none"> ✓ Multi Asset / Location ✓ Capture Failure Code ✓ Meters ✓ Attachments + Take Photo ✓ Materials Checklist 	<ul style="list-style-type: none"> ✓ Classification / Specifications ✓ Create Actuals from Plans ✓ Asset / Location Work History ✓ Work Order on Maps (Online) 	<ul style="list-style-type: none"> ✓ eSignature ✓ Real Signature ✓ Push Notification ✓ Report Downtime 	<ul style="list-style-type: none"> ✓ Advanced Map Capabilities ✓ Crew Management ✓ Request Material

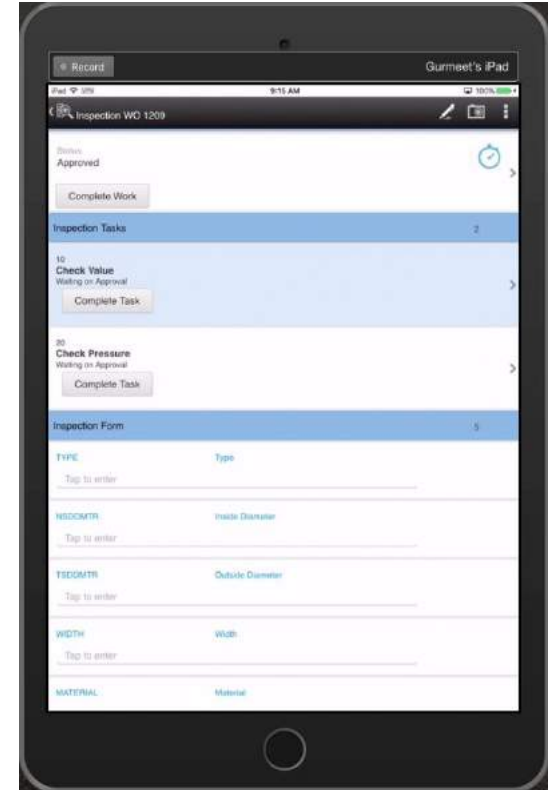


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Inspection App Features

- ✓ Inspection (Work Order) List
- ✓ Inspection Details
- ✓ Create a follow-up Work Order
- ✓ Change Status
- ✓ Start/Pause/Complete Work
- ✓ Work Log
- ✓ Actual Labors / Tools
- ✓ Attachments + Take Photo
- ✓ Inspection Task and Form
- ✓ Real Signature
- ✓ Push Notifications





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Work Approval App Features

- ✓ List of Work Order Waiting Approval
- ✓ Approve/Cancel from List Page
- ✓ View Work Details
- ✓ Multiple Asset / Locations
- ✓ View Planned Labor / Material / Tools / Services
- ✓ Update Work Log
- ✓ View Cost

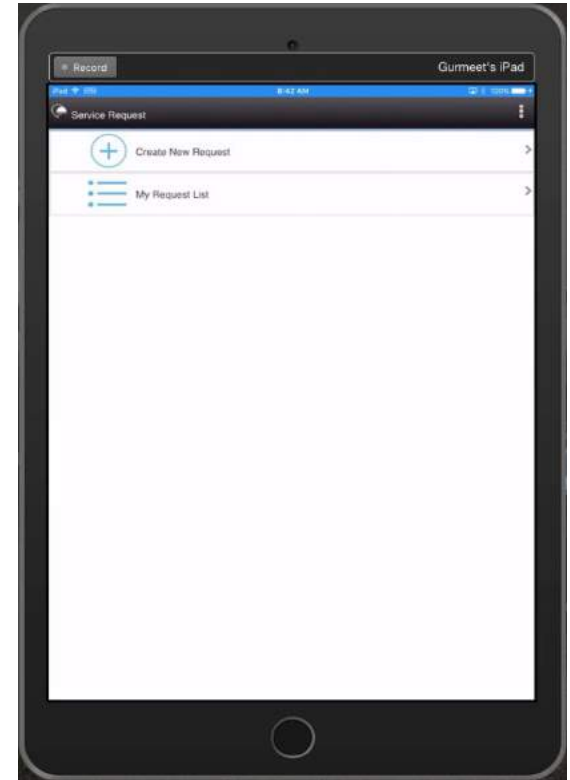


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Service Request App Features

- ✓ Create Service Request
- ✓ View Service Request
- ✓ Add Asset / Location
- ✓ Attachments and Take Photo
- ✓ Capture GPS Coordinates
- ✓ Update Work Log

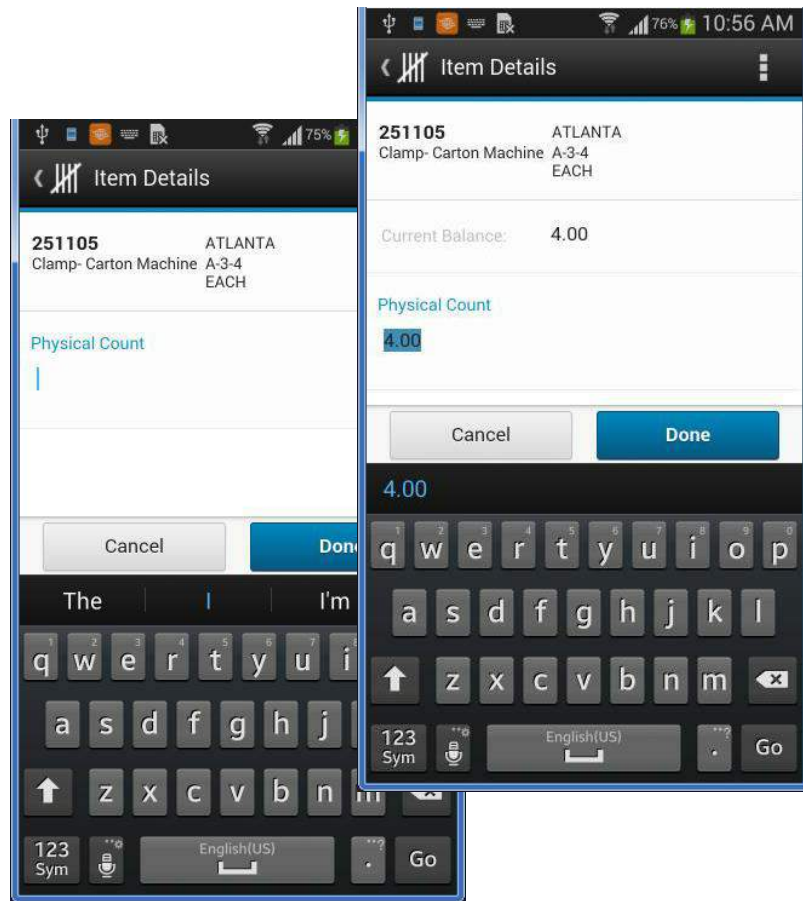




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Physical Count App Features

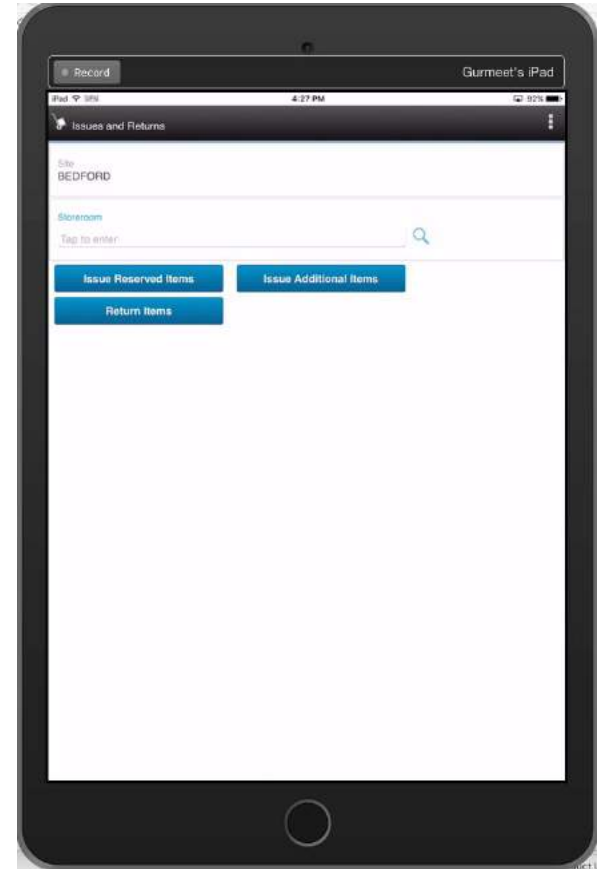
- ✓ Item Physical Count
- ✓ Blind and Non-Blind Physical Count
- ✓ Recount / Ad hoc Count





Issues and Returns App Features

- ✓ Issue Reserved Items
- ✓ Issue Additional Items
- ✓ Returns Items

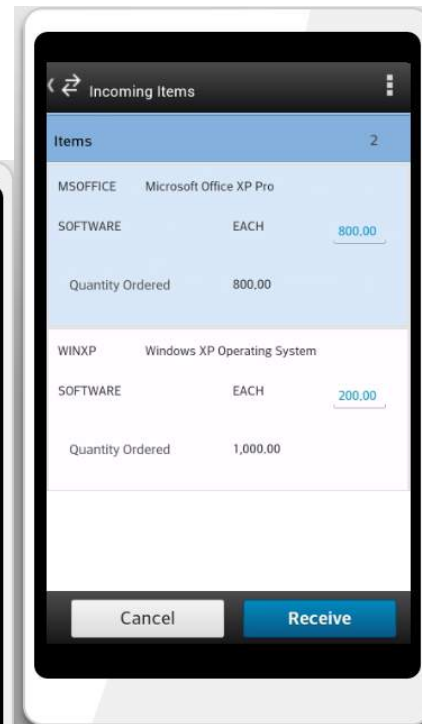
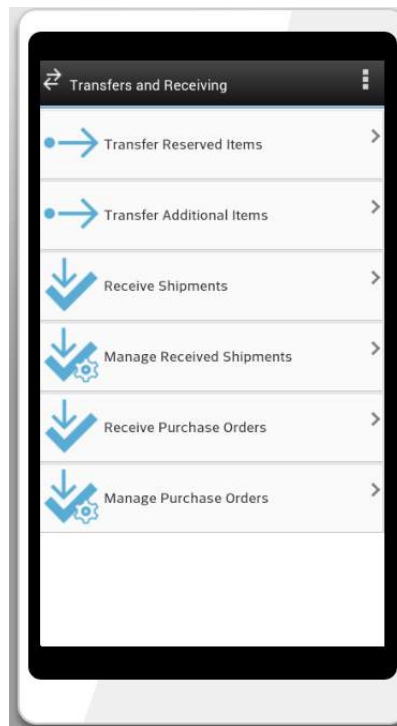




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Transfers and Receiving App Features

- ✓ Transfer Reserved Items
- ✓ Transfer Additional Items
- ✓ Receive Shipments
- ✓ Manage Received Shipments
 - Inspect Items
 - Return Items
- ✓ Receive Purchase Orders
- ✓ Manage Purchase Orders

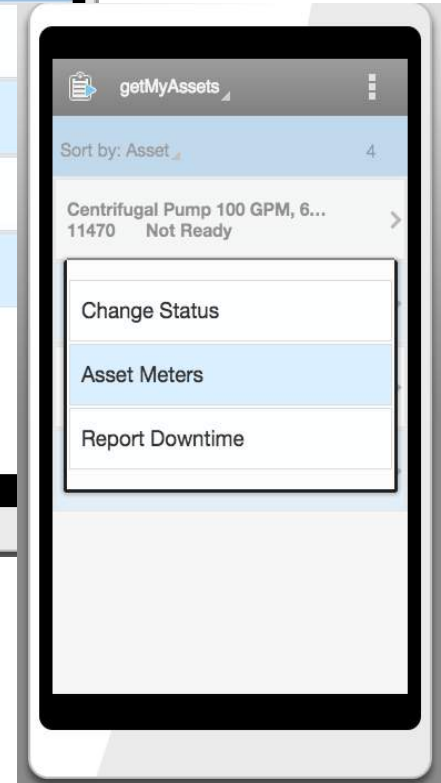
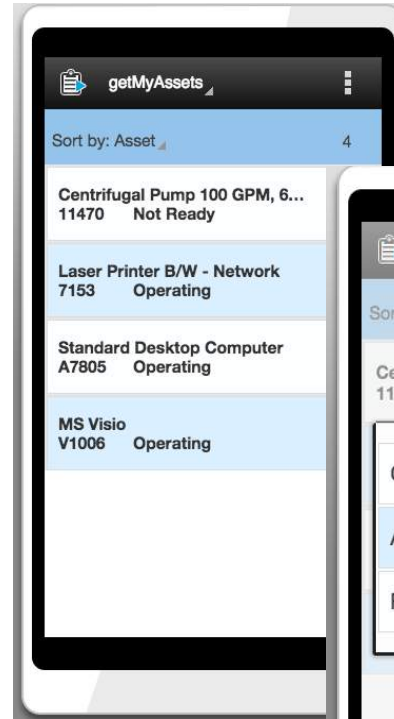


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Asset Data Manager App Features

- ✓ List of Assets
- ✓ Asset Details
- ✓ Create an Asset
- ✓ Change Status
- ✓ Attachments + Take Photo
- ✓ Meters + Enter Meter Readings
- ✓ Report Downtime
- ✓ Move
- ✓ Classification / Specifications

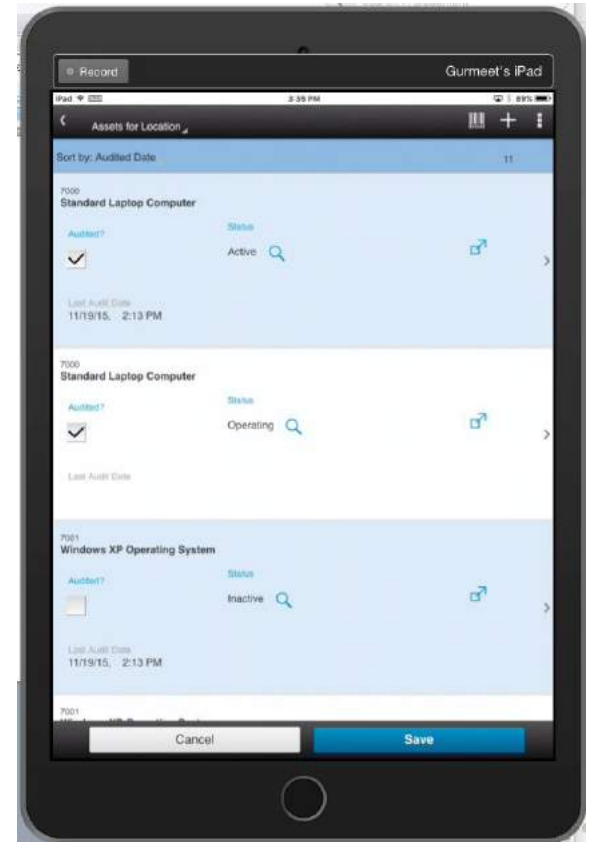




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Asset Audit App Features

- ✓ List of Locations to be Audited
- ✓ List of Assets in a Location to be accounted.
- ✓ Asset Details
- ✓ Audit an Asset
- ✓ Change Status
- ✓ Move an Asset
- ✓ Audit using Barcode Scanner
- ✓ **Audit using RFID Scanner**

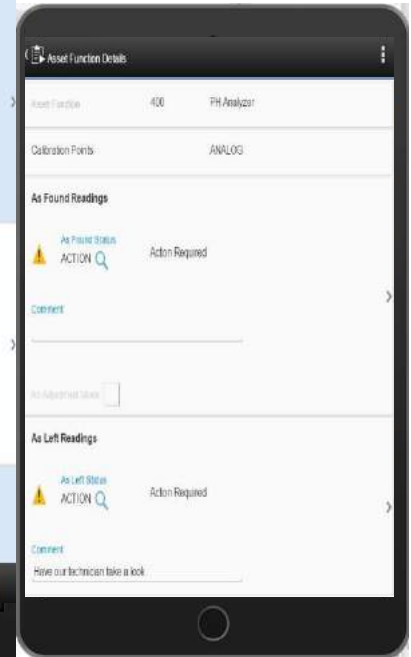
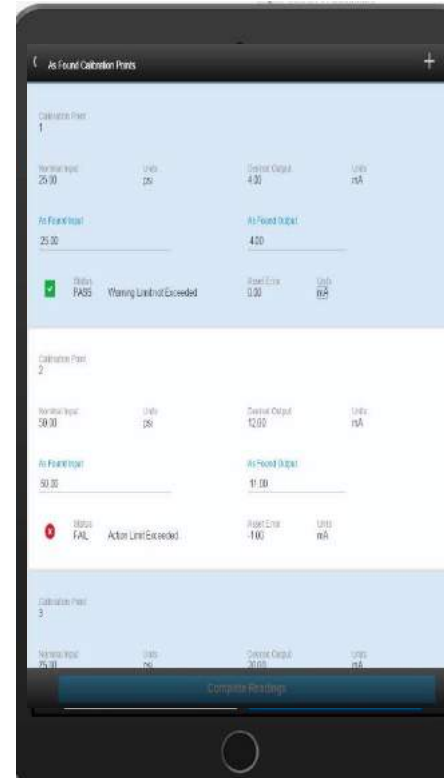


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Calibration

Calibration capabilities:

- ✓ Receive calibration work orders
- ✓ Handles connected and disconnected use cases scenarios
- ✓ Filter via barcode
- ✓ Completing data sheets for analog devices, discrete devices
- ✓ Completing data sheets with calibration points, function checks, and dynamic checks
- ✓ Repeatables
- ✓ Looped calibrations
- ✓ Validating tools
- ✓ Online work order creation



Thank You!!

Resources:

Product Page

<http://www-03.ibm.com/software/products/en/maximo-anywhere>

Maximo Anywhere Knowledge Center

<https://www.ibm.com/support/knowledgecenter/en/SSPJLC>

Developer Works Wiki

<https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/IBM%20Maximo%20Asset%20Management/page/Maximo%20Anywhere>