

Digital Transformation

THE PATH OF CHANGE TO INTEGRATED OPERATIONAL TECHNOLOGY (IOT)

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Senior Maximo/EAM Consultant
JFC & Associates



- Master Electrician's license for Delaware in 2002 and Maryland in 2006.
- Certified Reliability Leader certification - 2019
- Certified Educational Facilities Professional - 2020
- Certified Maintenance & Reliability Professional - 2021
- IBM Certified Deployment Professional - Maximo Asset Management v7.6 Functional Analyst - 2022
- Previously held NABCEP certification for Solar Installation from 2009-2013
- 12 years functional Maximo experience

JFC & Associates

What is Digital Transformation?

A behavioral change management process of going from an analog base of operational maintenance to a digital base of operational maintenance



Connecting The Unconnected



Phase 1

Initiation

Discovery, data review, and client expectations



Phase 2

Development

Coordinate all needs to load into Maximo and populate the system with data integrity



Phase 3

Testing

Use the system create test scripting to better train those who will be using it making sure data is accurate.



Phase 4

Implementation

Criteria of the data and project expectations are agreed upon and put into place



Phase 5

Support

JFC's commitment is to support the client with the expectation of continuous improvement

Project Methodology



4 Automation

Establishment of ITTT protocols to automate optimization & response.



3 Optimization

Analysis of data to make optimization decisions



1 Monitoring

Monitoring the connected device



2 Control

Ability to make changes/updates to the connected device remotely



CONNEX

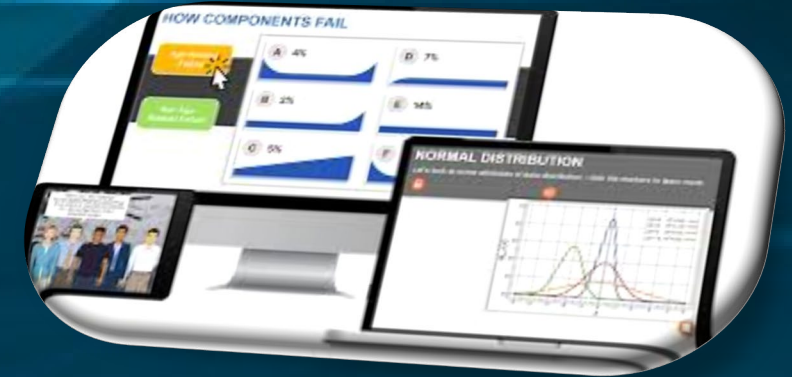
IoT Cycle
Alignment of Components

Leveraging Maximo and Gain Results

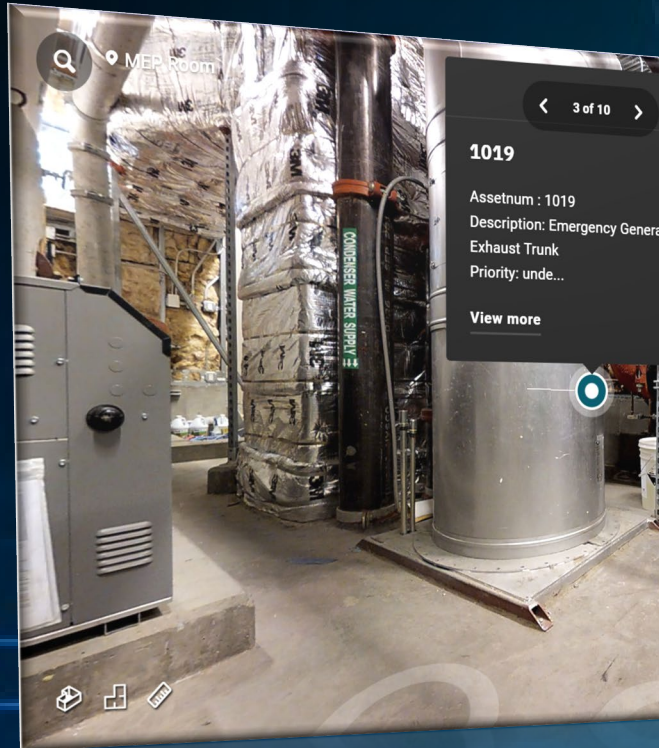
- Pull from multiple data sources
 - CONNEX IoT
 - SCADA systems
 - BAS Systems
 - Financial Systems
 - Time Keeping
- Real time records integrated with Maximo
- Optimize decision making
- Predictive analytics

CONNEX

IBM
maximo



Digital Twin Capabilities



3 of 10

1019

Assetnum : 1019
 Description: Emergency Generator
 Exhaust Trunk
 Priority: unde...

[View more](#)

← List View Asset Spare Parts Safety **Meters** Specifications Relationships Work Service Address Map

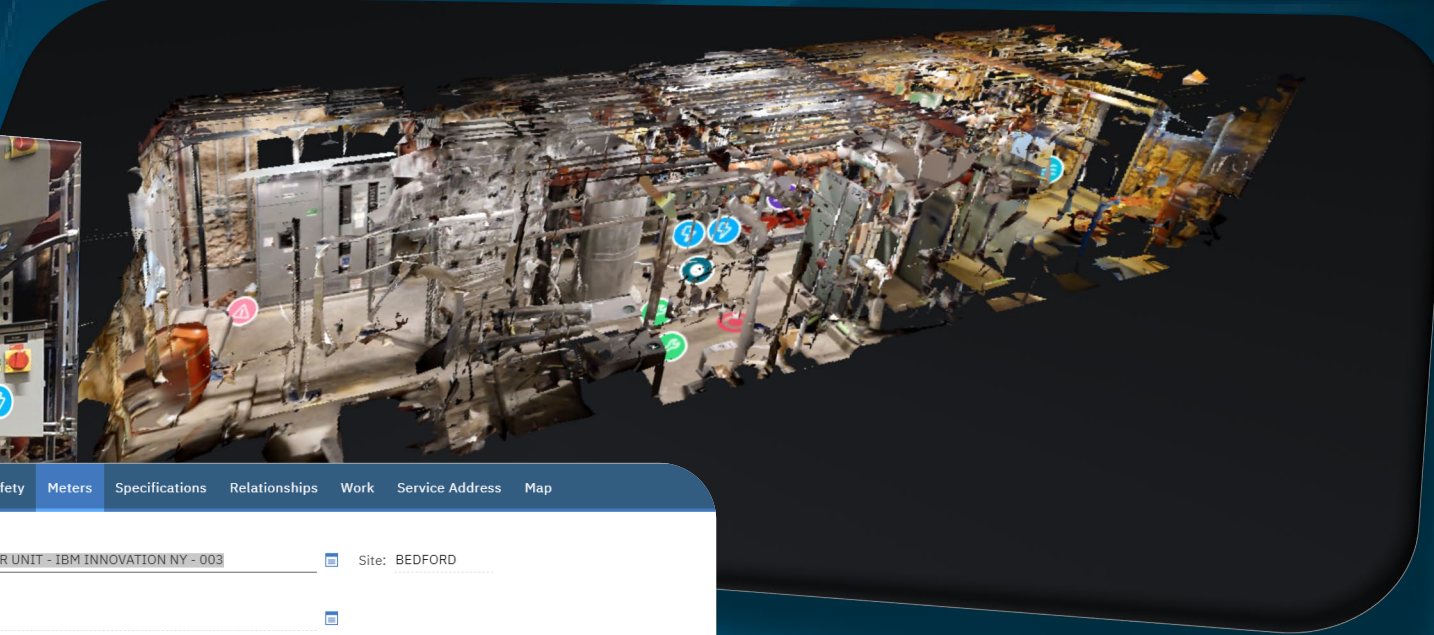
Asset: 2900 AIR HANDLER UNIT - IBM INNOVATION NY - 003 Site: BEDFORD

Meter Group: >

Meters Filter > 1 - 7 of 7

Sequence	Meter	Description	Meter Type	Unit of Measure	Active?
>	TEMP-F	> Temperature in Fahrenheit	GAUGE	DEG F	🔍 ✓ 🗑️
>	BUTTON	> BUTTON PRESSED	CHARACTERISTIC		🔍 ✓ 🗑️
>	AIRSPPEED	> AIR SPEED IOT	GAUGE		🔍 ✓ 🗑️
>	VOLTAGE	> VOLTAGE	GAUGE	VOLTS	🔍 ✓ 🗑️
>	WATER	> WATER DETECTION	CHARACTERISTIC		🔍 ✓ 🗑️
>	VIBMETER	> Vibration Meter	GAUGE		🔍 ✓ 🗑️
>	HUMID	> HUMIDITY	GAUGE		🔍 ✓ 🗑️

[New Row](#)



Integrate Your Digital Twin with Maximo

The screenshot displays the Maximo Assets interface. The top navigation bar includes a home icon, a menu icon, the text "Assets", and a user profile icon labeled "MAXADMIN". Below the navigation bar is a search bar labeled "Find Asset" and a toolbar with various icons. The main content area is divided into three sections:

- Left Panel:** A sidebar menu with sections for "Find Navigation Item", "Go To Applications", "Available Queries", "All Records", "All Bookmarks", "Assets with devices", "Demo IoT Asset 2", "IOT Demo Assets", "IT Stock in Stock Locations (non-Storero...", "Matterport Demo", "Common Actions" (including New Asset, Save Asset, Clear Changes, Change Status, Move/Modify Assets, Swap Assets, Associate Users and Custodia...), and "More Actions" (including Asset Details, Report Downtime, Manage Downtime History, Create, Open Drilldown, Apply Item Assembly Structure, Associate Services, View, and Unit of Measure and Conversion).
- Center:** A 3D model of an MEP room. A data overlay for asset 1005 is visible, showing: "1005", "Assetnum : 1005", "Description: P3 Motor Control", "Priority: 3", "Location: BOILER", "Status: OPERATING", "Add WorkOrder", and "Add ServiceRequest".
- Right Panel:** An "Asset hierarchy list" containing a scrollable list of assets with expand/collapse icons and status indicators. The list includes: "1001 Hot Water Mixing Valve 1 1", "1002 Fire Extinguisher", "1003 Hot Water Heater 1", "1004 Fire Extinguisher", "1005 P3 Motor Control", "1006 Fire Extinguisher - TEST", "1007 Fire Extinguisher", "1008 Hot Water Heater 2", "1015 Hot Water Storage Tank 2", "1017 P3 Motor", "1019 Emergency Generator Exhaust", "1020 Boiler 3", "1021 Boiler 1", "1022 Boiler 2", "1034 Hot Water Mixing Valve 2", "1035 P1 Discharge Valve", "1036 P1 Suction Valve", "1037 Power Transformer", "1100 P4 Motor Control", "12222 P6 Condensate Pump - Ce", "2077 P5 Centrifugal Pump 100 G", "2078 Centrifugal Pump 100 GPM", "2079 Centrifugal Pump 100 GPM", and "2080 Centrifugal Pump 100 GPM".

Questions

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