IBM Location Based Services – What's New for 761 release

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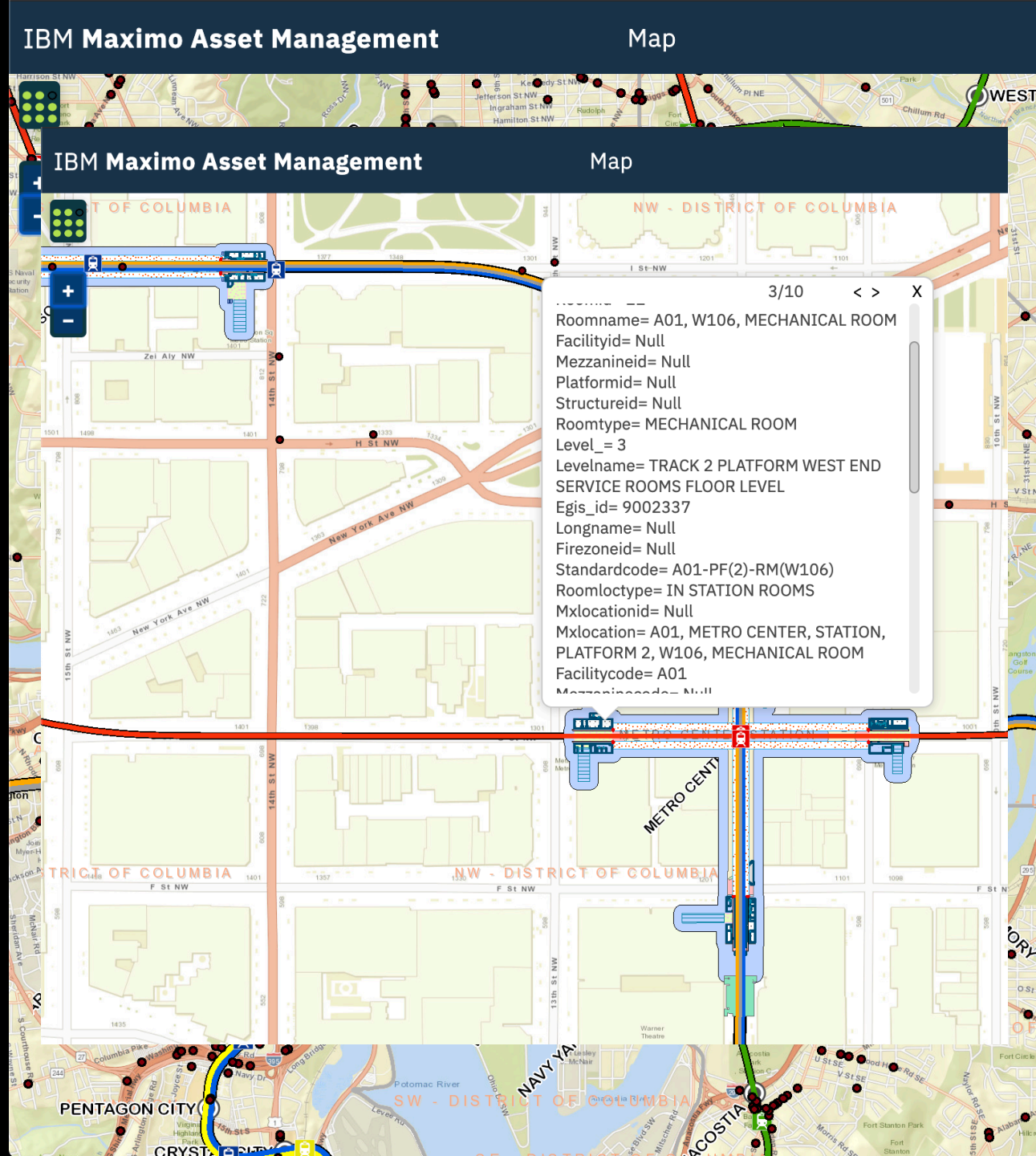
Agenda

- Quick Overview of LBS
- What's new in 7.6.1
- Road Ahead
- References
- QA

IBM Maximo Location Based Services (LBS)

- Provides a GIS solution that allows users to visualize, query, analyze, and interpret EAM data to understand relationships, patterns and trends.
- Creates a level of awareness and insight that tabular systems without graphics cannot provide



IBM Maximo: LBS Offerings

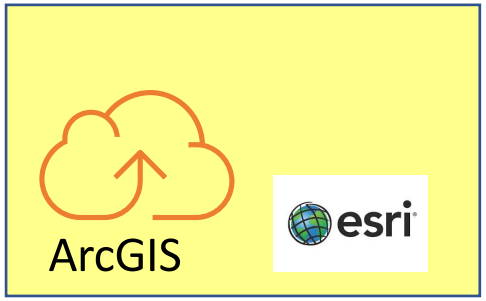
Anywhere

Work Centers

Scheduler/Plus

Industry Solutions

Maximo Location Based Services



Maximo Spatial

*Customers must purchase Esri ArcGIS Server/ArcGIS online and any required analyst desktop licenses separately from Esri or an authorized agent.ng and Pricing

Positioning Spatial into EAM…

Service Request

Incident

Problem

Condition Monitoring

Meter Readings

IoT

SCADA Ext. System

Ticket based

Job Plan

Preventive Maintenance

Resources

Labor

People

Work Management

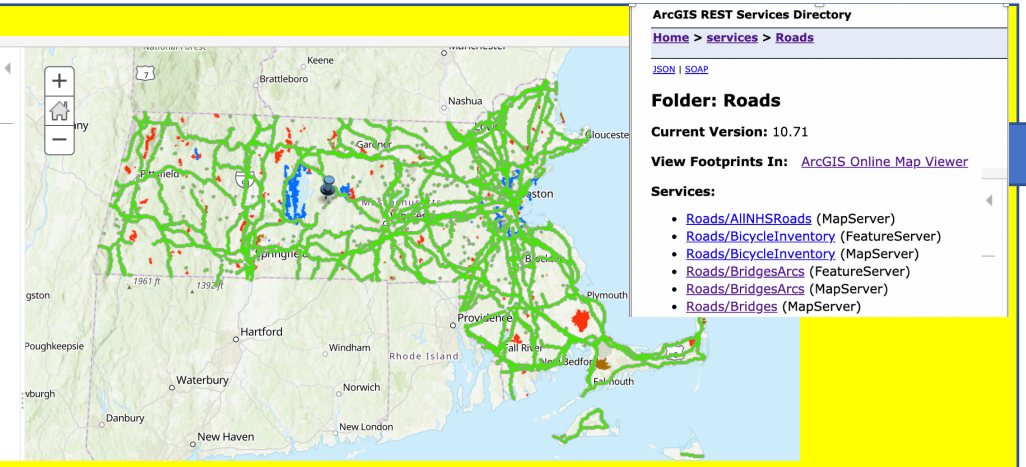
Assets and Locations

Material

Item

Inventory

Example - How LBS works?



ArcGIS REST Services Directory

Home > services > Roads

JSON | SOAP

Folder: Roads

Current Version: 10.71

View Footprints In: ArcGIS Online Map Viewer

Services:

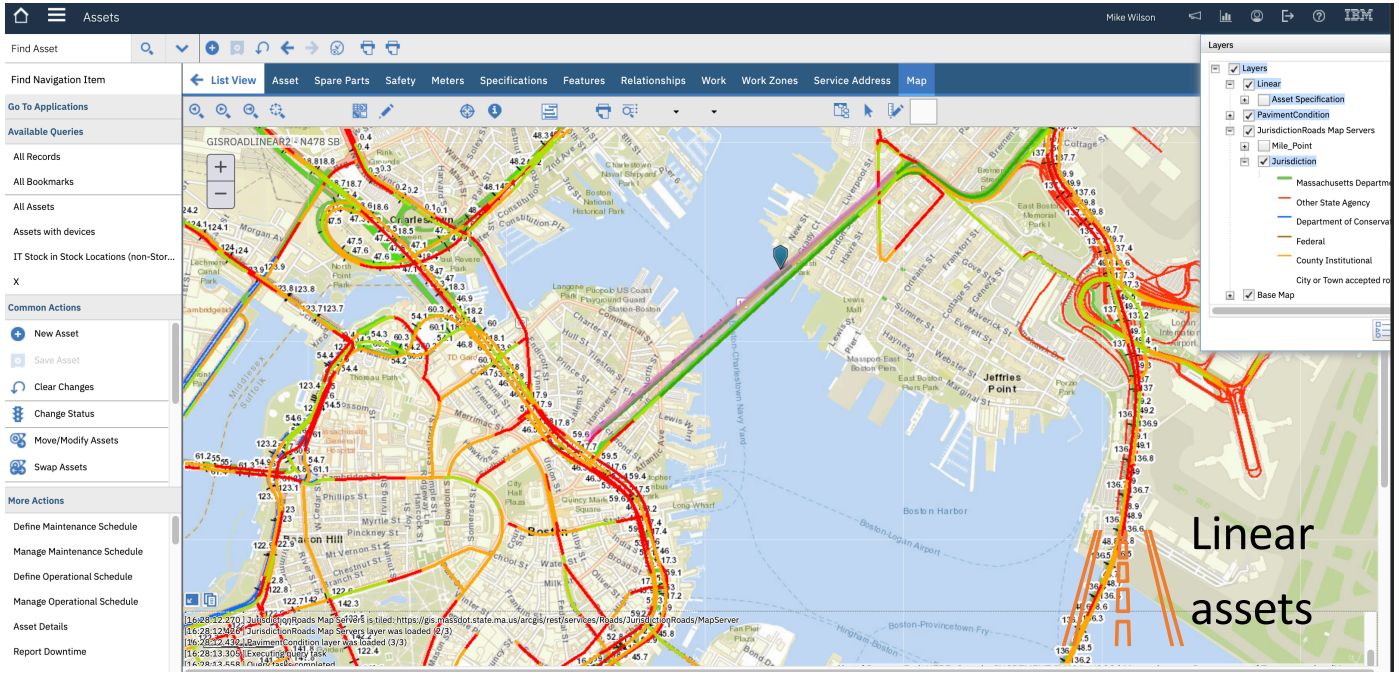
- Roads/AllNHSRoads (MapServer)
- Roads/BicycleInventory (FeatureServer)
- Roads/BicycleInventory (MapServer)
- Roads/BridgesArcs (FeatureServer)
- Roads/BridgesArcs (MapServer)
- Roads/Bridges (MapServer)

ArcGIS
on line / portal / on-prem server
APIs

esri

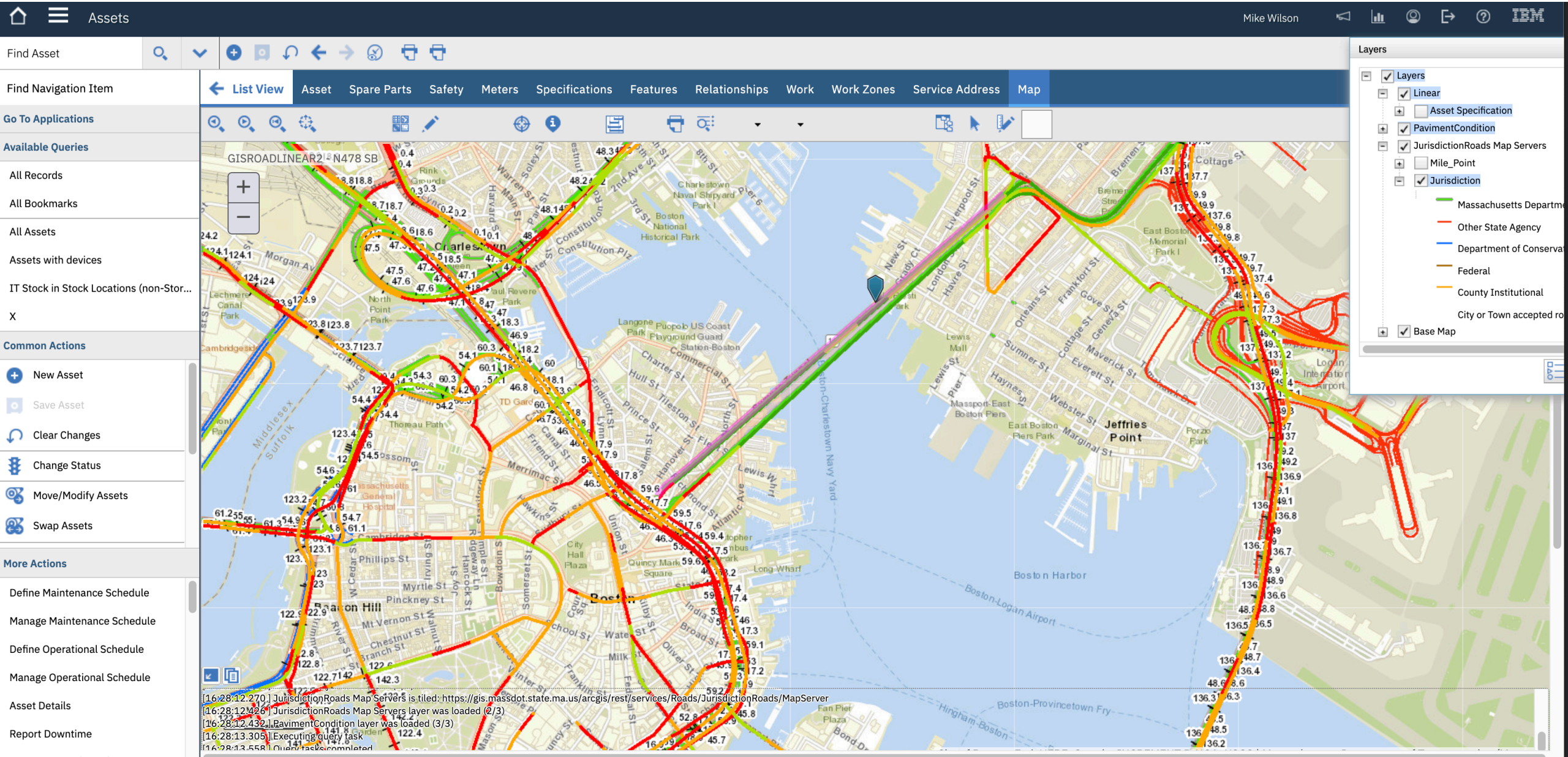
Maximo Map Manager
- Map Services
- Feature Services
- Link to Maximo Objects

Maximo Integration (MIF)
Data synchronization

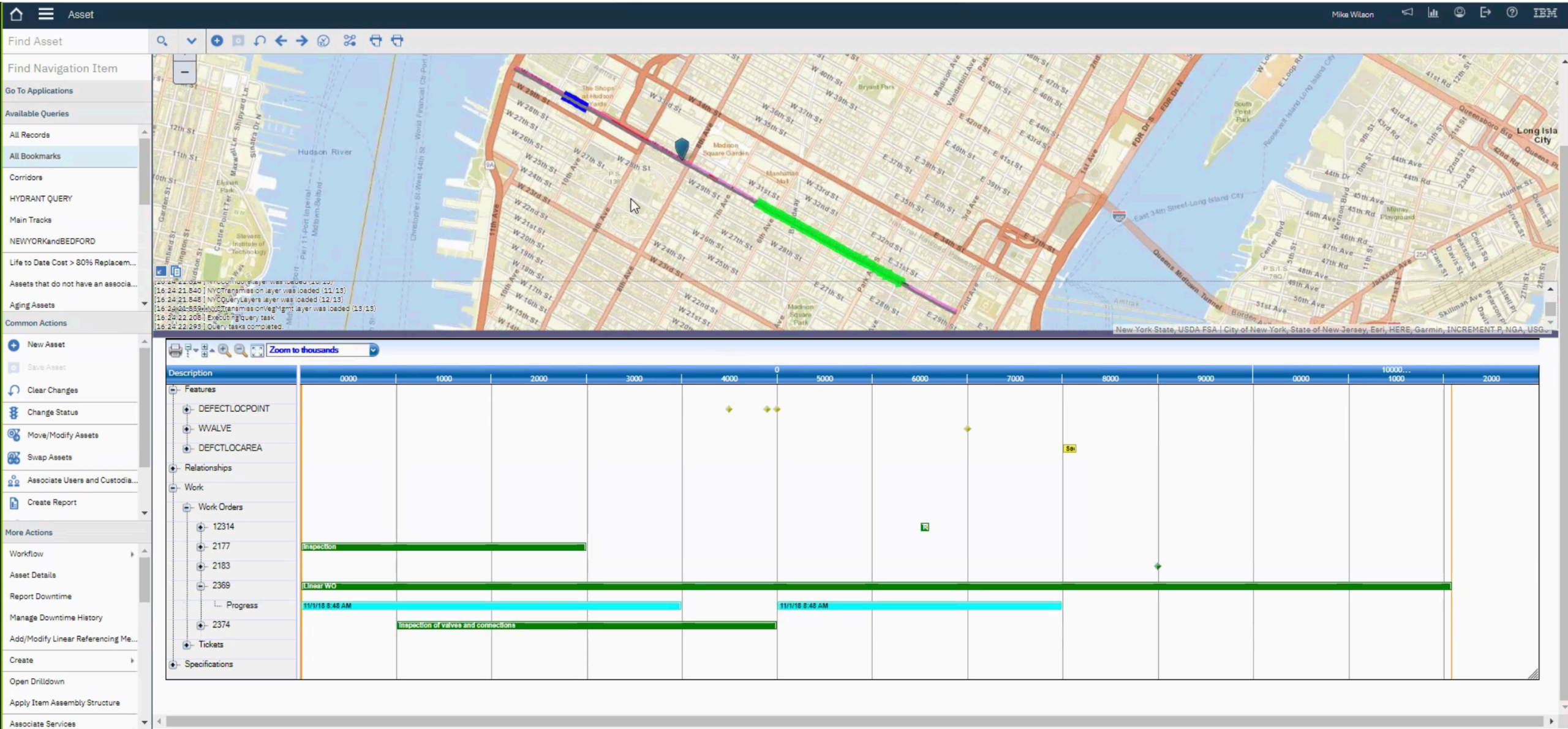


Linear assets

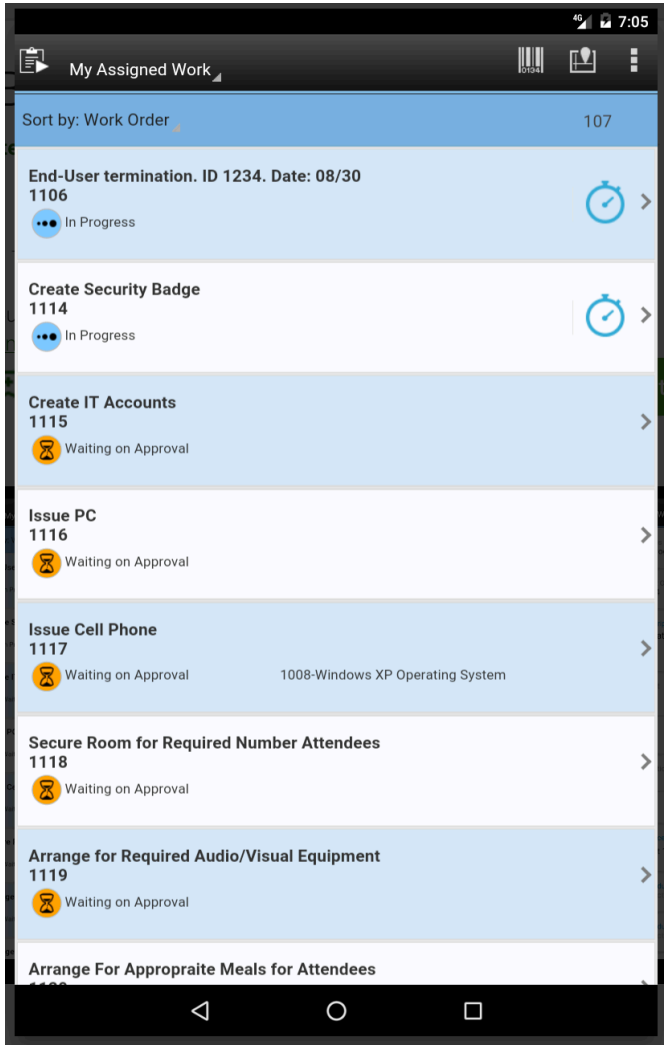
Asset/Locations/WO/SR Applications – Map Tab

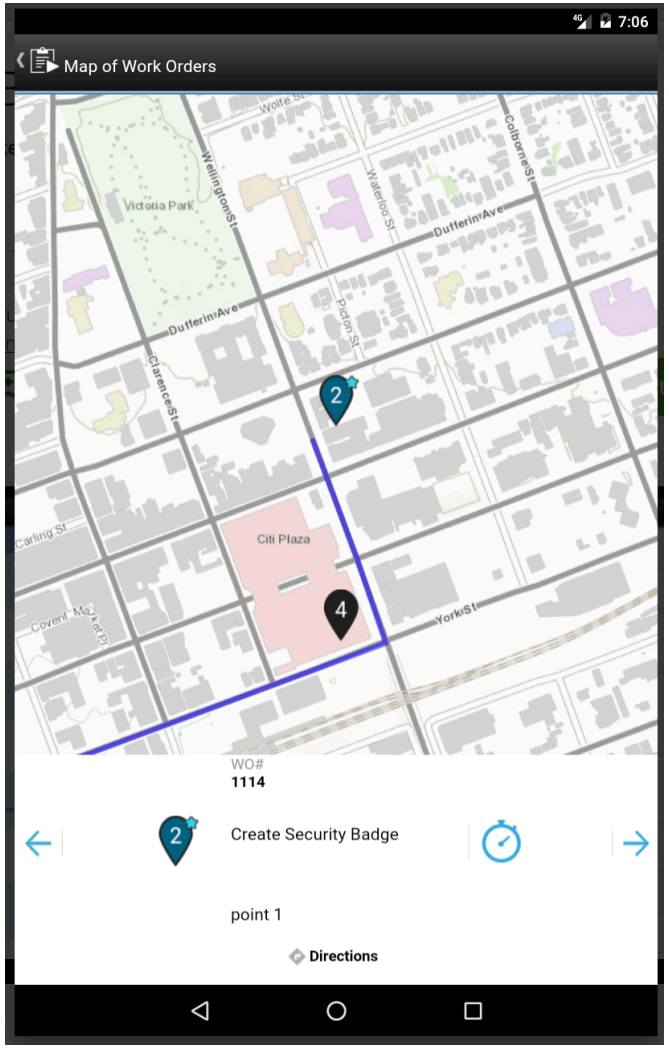


Linear Assets and Maps

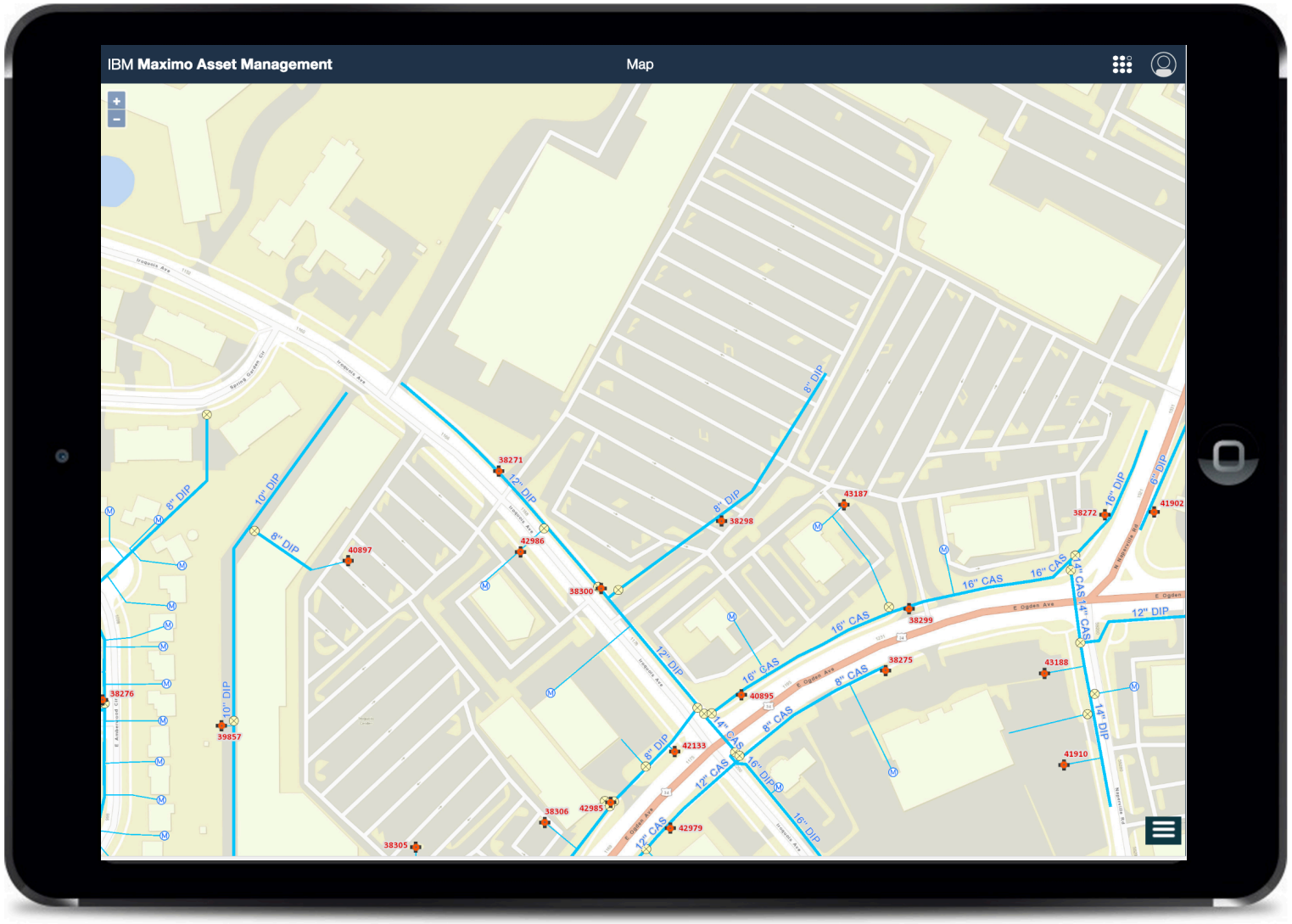


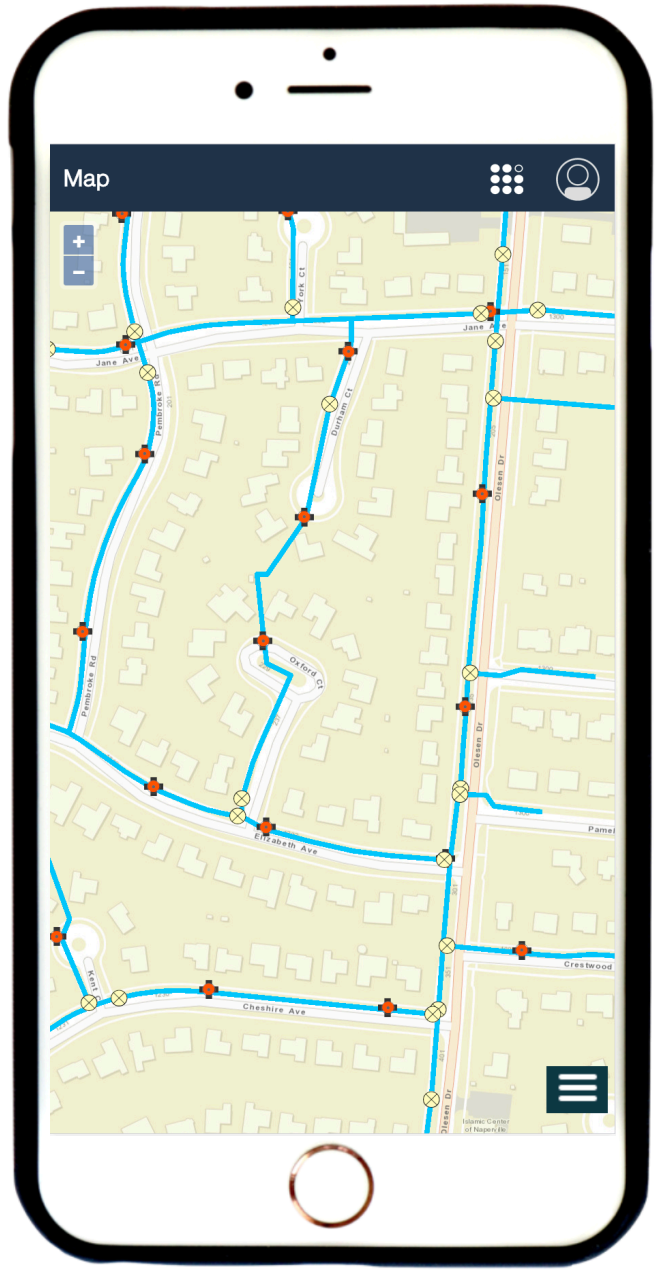
Anywhere: Work Execution –> Support Offline Map





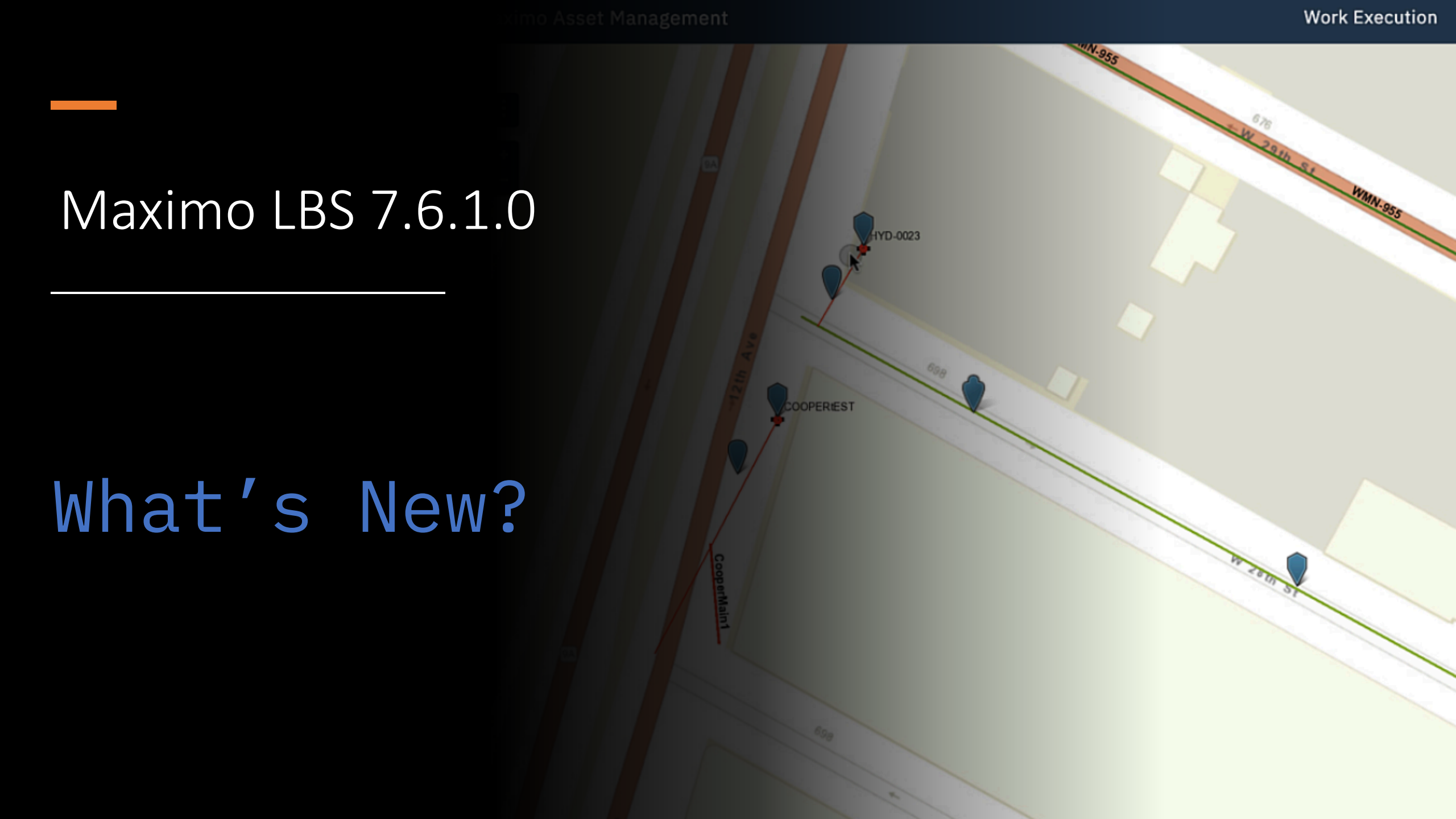
Map Work Center





Maximo LBS 7.6.1.0

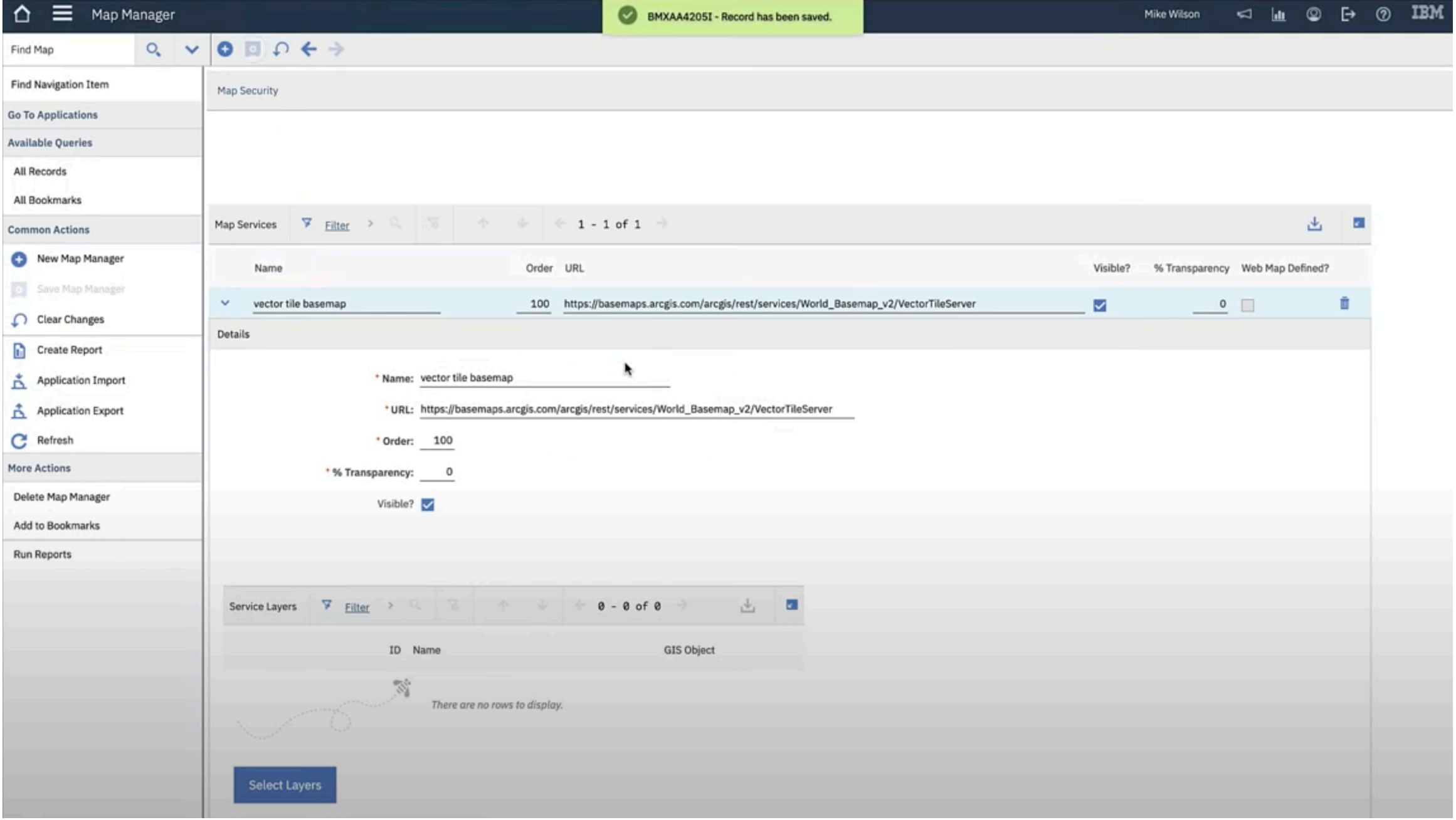
What's New?



Support Updates

- **ArcGIS API for JavaScript version 3.29**
  - System administrators can now take advantage of ArcGIS API for JavaScript features introduced in version 3.29.
- **Discontinuation of DBLINK support**
  - System administrators can integrate with ArcGIS servers exclusively through feature services.

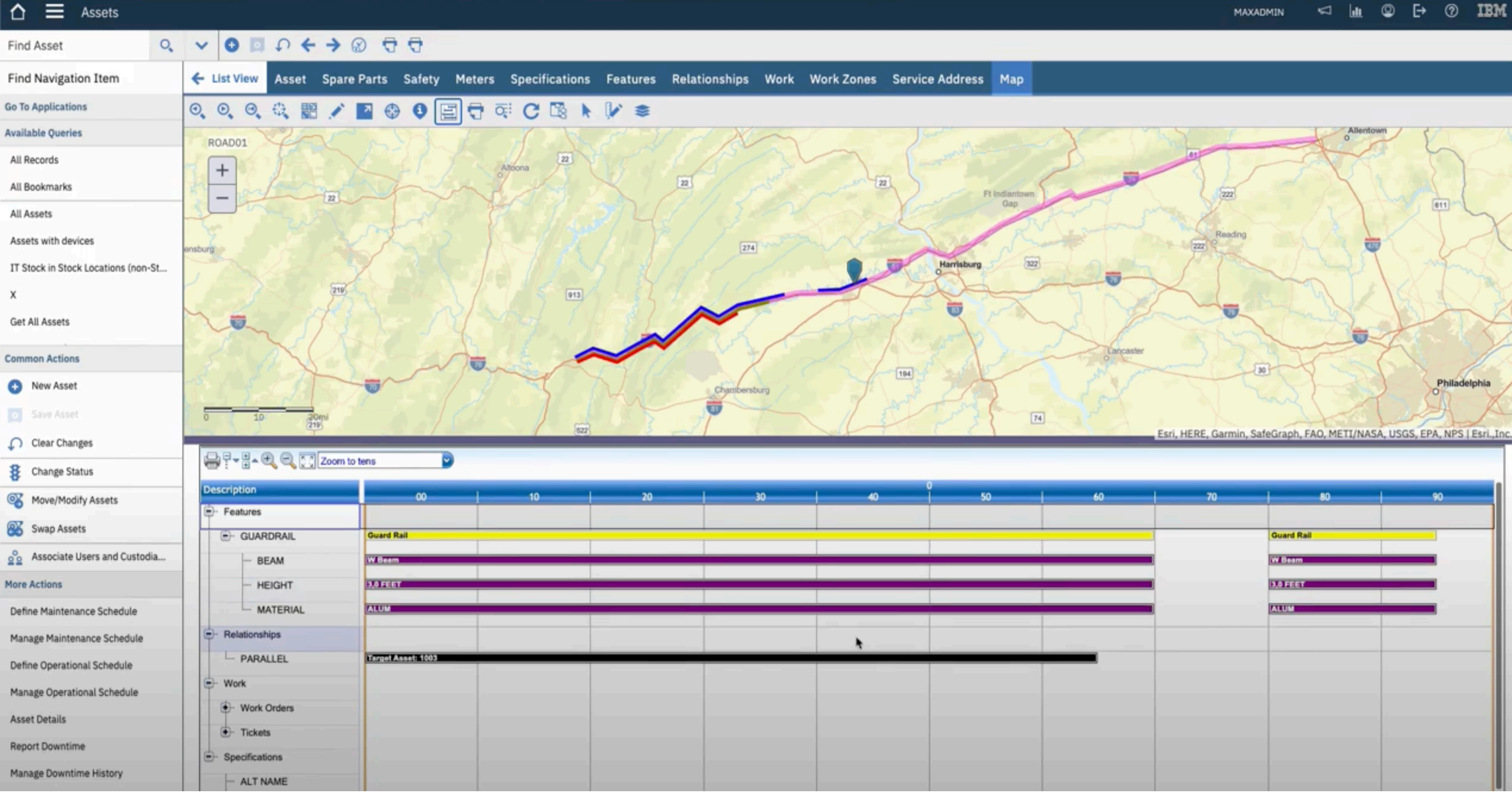
  https://www.ibm.com/support/pages/node/6220318
- **Vector tile layers**
  - System administrators can include vector tile map layers to display in maps. Vector tile layers store map objects as vector data that can be rendered as an image. Storing information this way decreases the time that it takes to access map data and saves space for storing map information.



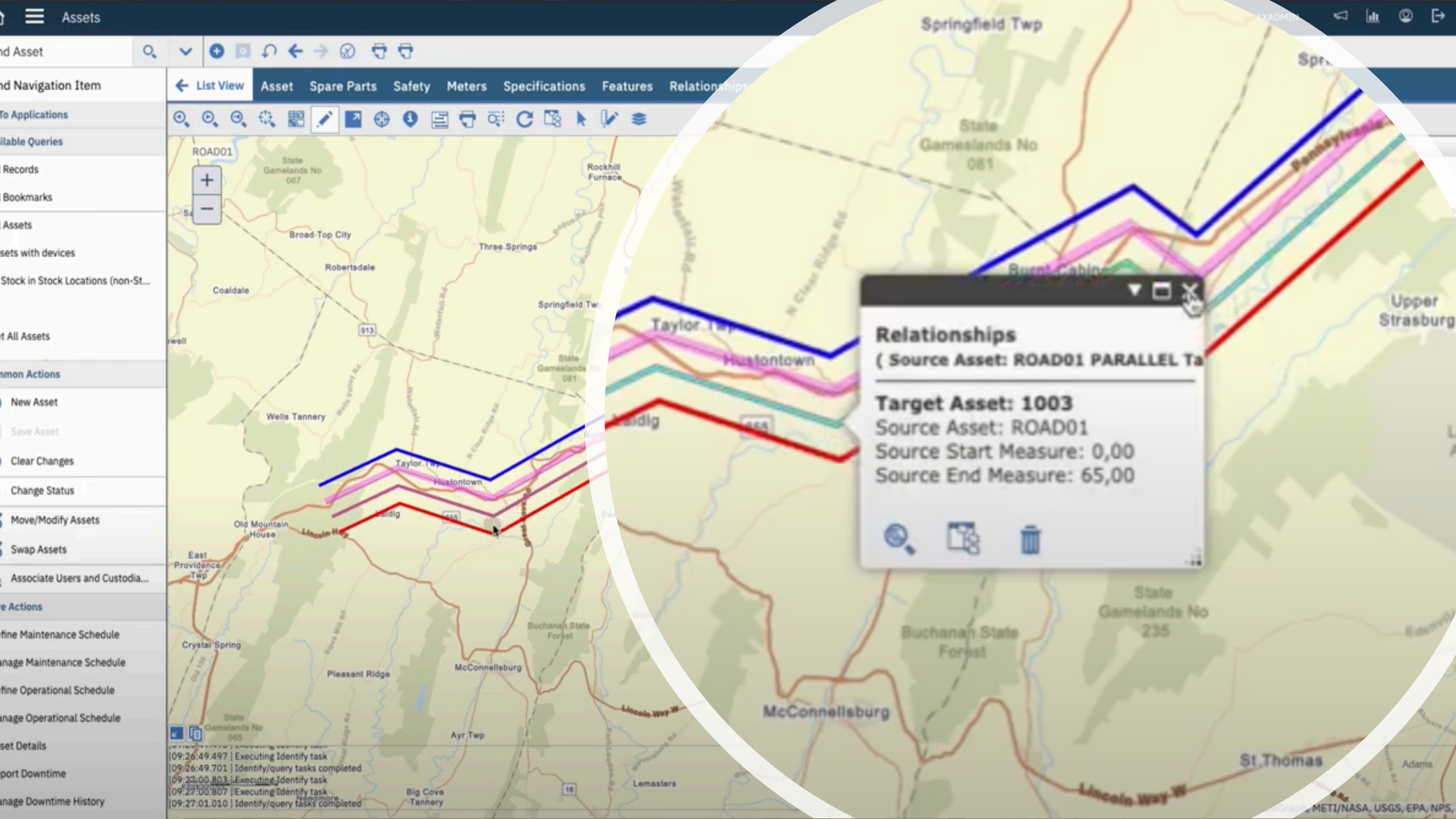
https://www.youtube.com/watch?v=SqDgS46DsaA

Linear Objects Updates

- **Visually identify linear segments that overlap on the map**
  - Overlapping linear segments are offset, so you can identify them more easily on the map.
- **Performance improvements when viewing linear data in the Linear Visual Controller**
  - The response time for filtering and viewing large sets of linear assets on the Linear Visual Controller has improved.



https://www.youtube.com/watch?v=QD-3NgkJIDU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Target Asset: 1003
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Broad Top City
Three Springs
Robertsdale
Coaldale
Wells Tannery
Old Mountain House
East Providence Twp
Crystal Spring
Pleasant Ridge
Ayr Twp
Big Cove Tannery
Lemasters
Adams
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[09:26:49.701] Identify/query tasks completed
[09:27:00.803] Executing Identify task
[09:27:00.807] Executing Identify task
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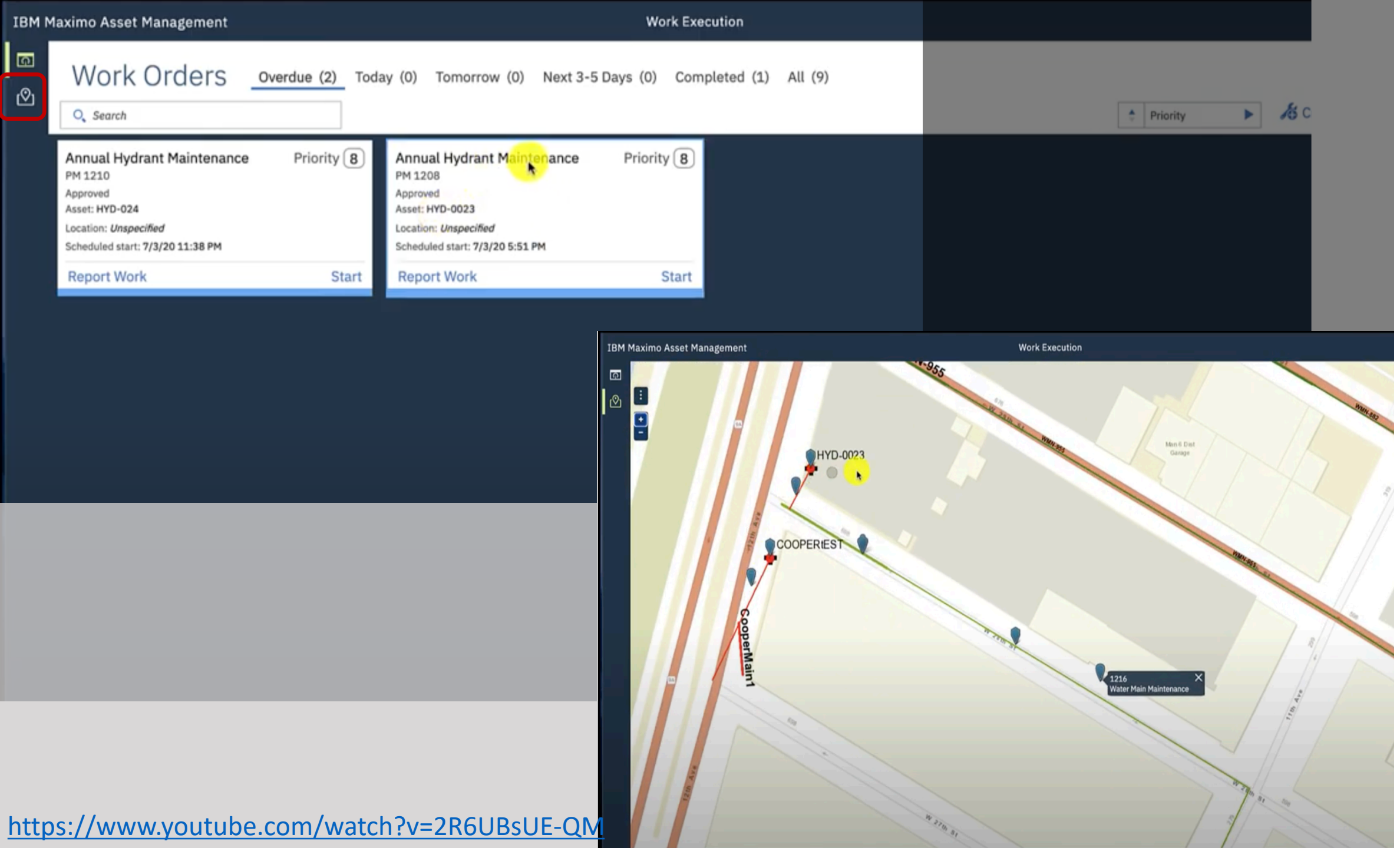
METI/NASA, USGS, EPA, NPS,

Maps in Work Centers

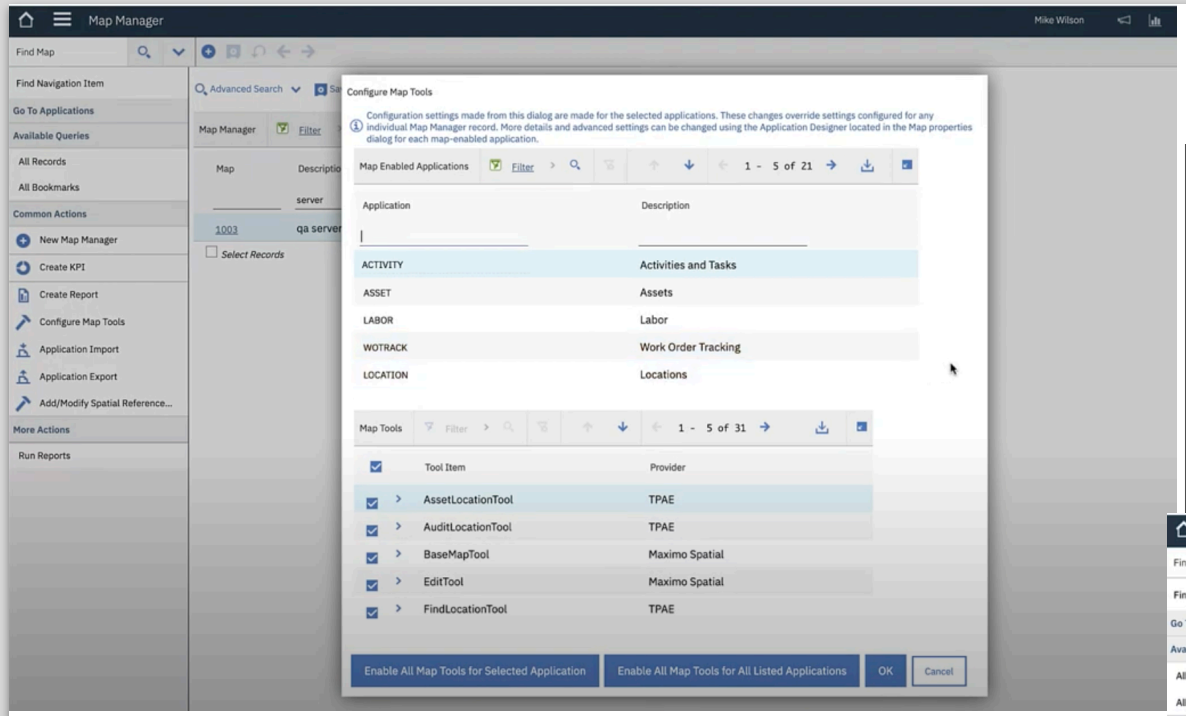
- **Display a map within the Maximo Work Centers**
  - You can now display maps and use map tools in Maximo Work Centers such as Supervisor and Technician.

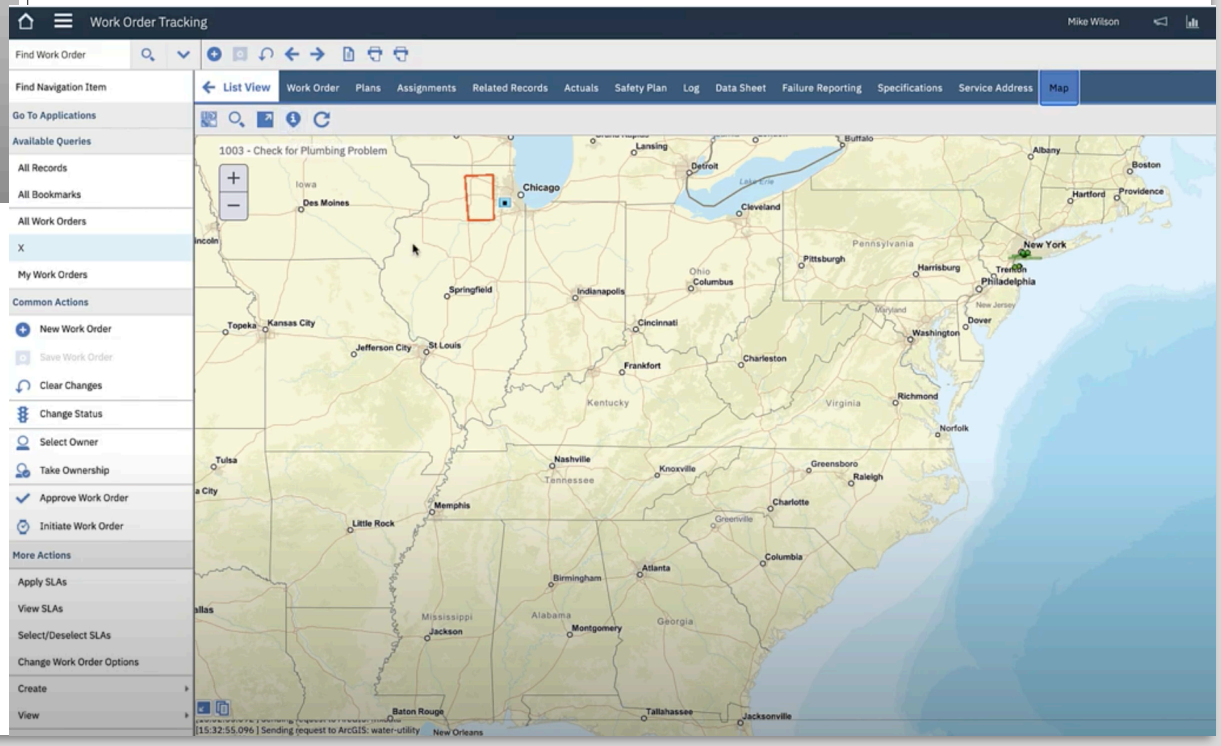


https://www.youtube.com/watch?v=2R6UBsUE-QM

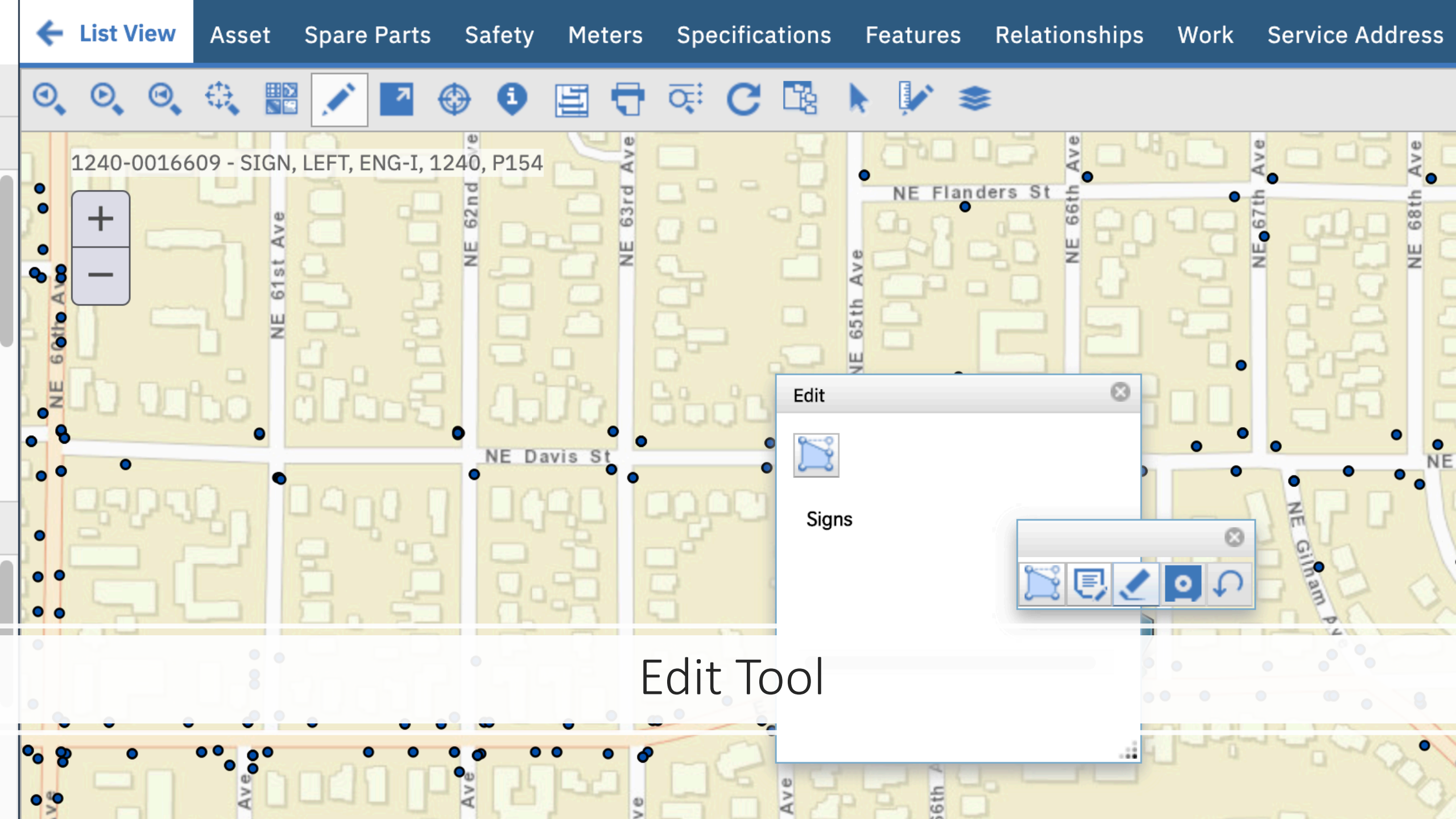
Map Tool Enhancements

- **Map tools now display feature information in side card format**
  - View feature attributes in a side card that can be expanded or hidden from the map. This enhancement provides a view of the map without windows obstruction.
- **Enable map tools from Map Manager**
  - (Not just from App Designer as before)
- **More options for managing map features**
  - Configure properties to adjust the initial zoom level when you edit a feature.
  - Delete linked features from the edit tool and common actions menu.





https://www.youtube.com/watch?v=goNWta68Nag


List View
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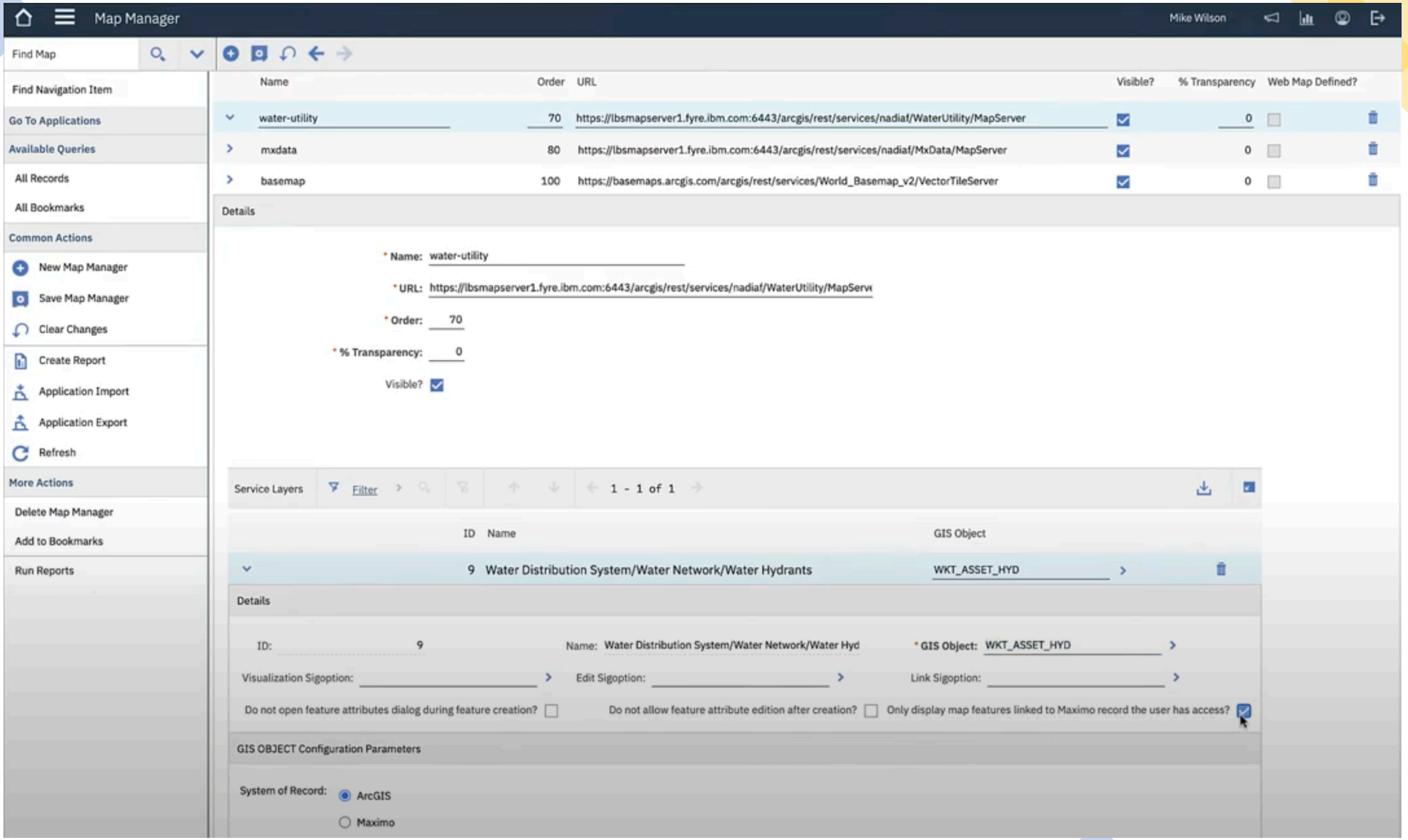
Edit
Signs

Edit Tool

Filtering Map Features

- **Filter data in Maximo Asset Management according to the filters configured in GIS**
  - Data that is filtered and restricted in GIS layers can be applied to linked records in Maximo.
- **Restrict data at the map layer level**
  - Signature options can be configured for each map layer from the Map Manager application. This feature gives system administrators finer control over the features that are displayed on multi-layer maps.



https://www.youtube.com/watch?v=Ji4Yt97Kfys

Data synchronization

- **ArcGIS online data synchronization support**
  - Synchronization between Maximo and ArcGIS is extended to online maps.

https://www.youtube.com/watch?v=aNDfjn7RxwA

Offline Mapping

- Offline map data on mobile devices is now synchronized directly with the IBM Maximo Asset Management server.
  - Downloading data from the Maximo server improves the time that it takes for map data to reach mobile devices. This enhancement also greatly increases the number of offline areas and features that can be managed.
  - System administrators can now manage replicas directly from the Map Manager application.

https://www.youtube.com/watch?v=xRDwDr1ZlG8

https://www.youtube.com/watch?v=sAk91WspgP0

Road Ahead

LBS

- OGC Compliance (OpenGIS standard for map services)
- Migration to Maximo Application Suite
- RFEs and general enhancements

Work Centers

- **New UI / UX (Graphite/Carbon)**
- **Map componente for technician applications**
  - **Work Execution**
  - **Inspections**
- **Configurable actions over map component**

Mobile

- Support to vectorized files (VTPK)
- **Workcenters in diconnected mode**

References:

What's New in 761 Knowledge Center:
https://www.ibm.com/support/knowledgecenter/SSG2D3_7.6.1/com.ibm.spl.doc/intro/c_new_features.html

Maximo Spatial Community:
https://community.ibm.com/community/user/communities/community-home?CommunityKey=a00221b0-8301-4644-8dbe-0d26b988ea0b&S_TACT=C43003RW

Map Manager Application:
https://www.ibm.com/support/knowledgecenter/SSG2D3_7.6.0/com.ibm.spl.doc/plussmngr/t_create_config_map.html

Manage Map Tools
https://www.ibm.com/support/pages/maximo-spatial-7601-series-3-getting-your-maps-ready

Requirement Traceability Matrix:
https://w3-connections.ibm.com/files/form/anonymous/api/library/7fe020bb-d2a3-450d-abe1-549545263036/document/be42a2d4-a55d-47bb-8406-1b44cd6d6bbf/media/LBS%20-%20Requirement%20Rastreability%20Matrix.mm.html

Installers, Bin, Licenses….
https://w3-connections.ibm.com/wikis/home?lang=en-us#!/wiki/W4114c208f0c6_4e68_a0f5_00e1bfe93a3e/page/LBS%20Installers%2C%20Bin%20and%20License%20Files

Mobile:
https://www.ibm.com/support/pages/how-configure-maximo-spatial-maps-mobile-devices

ArcGIS Documentation:
https://enterprise.arcgis.com/en/server/latest/get-started/windows/about-arcgis-server-documentation.htm

Map Toolbar
https://www.ibm.com/support/knowledgecenter/SSG2D3_7.6.0/com.ibm.spl.doc/maps/r_map_toolbar.html

YouTube:
https://www.youtube.com/playlist?list=PLv72XUMPeVgM_SNwu9HoRjxp1xZPeCZT8
https://www.youtube.com/channel/UCJGFt9QBL4_HWyVdXMjLLWg/

Obrigada!