



Outside of the Box Integrations

Improve Asset Management with Localization

September 8, 2017

2107 Esri GeoConX Conference



Introductions

Jason Dietrich | CoServ

- GIS Analyst
- SDE Administration
- ArcGIS Online Administration
- Served as a Geospatial Engineer in the US Army for 8 years
- At CoServ for 3.5 years
- Enjoys walks on the beach and sunsets

Joaquin Madrid, PhD | SSP Innovations

- Senior Consultant
- GIS – ESB Integrations
- GIS Workflows & Applications

Butch Berlemann | Starboard

- Technical Consultant
- Maximo and GIS

Outside of the Box Integrations

ABOUT CoServ



LOCATED: North of DFW Metroplex - Texas

MAY 1937: Denton County Electric Cooperative is chartered.

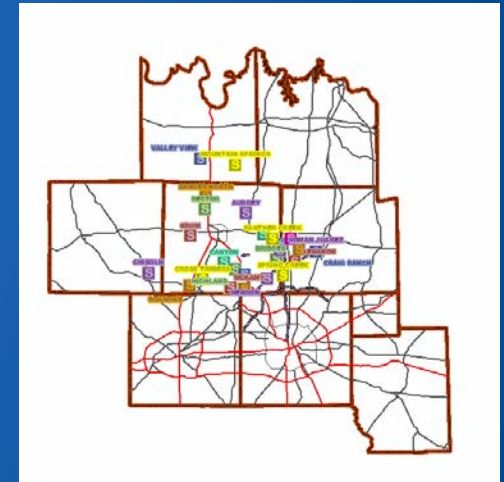
JANUARY 1998: Denton County Electric begins doing business as CoServ, an abbreviation of "Cooperative Services."

JULY 1998: CoServ Gas established.

APRIL 2004: 100,000th meter installed, making CoServ the second-largest electric cooperative in Texas.

SEPTEMBER 2015: Official dedication ceremony held for CoServ Solar Station. CoServ begins offering Members a solar rate option.

In July this year: we exceeded a combined total of 300,000 electric and gas meters.



- Established in 1937
- Headquarters: Corinth, TX
- Serve several Counties in North Central Texas

ABOUT STARBOARD



- IBM Gold Partner – IBM Reseller and L1/L2 Support
- Dedicated IBM Maximo Consulting Practice
- 20+ Years Implementing Maximo
- Starboard's Staff offers 300+ years of Maximo experience
- Works in Utilities, City and County Governments, Public Works, Airports, Higher Education, Manufacturing Facilities
- Based in Longwood, FL
- Recognized implementer of Maximo Spatial and GIS Integrations
- Esri Silver Partner



ABOUT SSP



- Eleven-year old GIS consulting company
- 100% of our work at U.S. utilities & telecoms; 80+ clients
- 100% aligned with Esri platform strategy
- Team of ~50, mostly based in the Denver area
- 150+ combined years working with Esri software
- Industry-leading reputation for quality, successful solutions to requirements



esri

Partner Network
Platinum



ArcGIS Online
Specialty



Esri Partner Conference
2015 Award Winner
Initial Operating Capability
Services Implementation



Esri Partner Conference
2016 Award Winner
Excellence in Web GIS Expansion

BUSINESS DRIVERS



1. Adopt Asset Management System
Minimize asset attribution within GIS
2. Improve Asset Management Usability
By Assets Localization
3. Capitalize on Previous Integrations
Maximo/Designer™ **Legacy WMS/GIS Integration**
4. Maximize OOTB Functionality
Maximo Spatial ↔ ArcGIS Server

SOLUTION:

Maximo Spatial ↔ ArcGIS Server



Maximo

- System of Record for Assets
Asset Management Capabilities

ArcGIS Enterprise

- System of Record for Geographic Localization
ArcFM™ Designer™ facilitates Spatial Placement

Maximo Spatial ↔ ArcGIS Server

- Endpoints for Integration

SOLUTION:

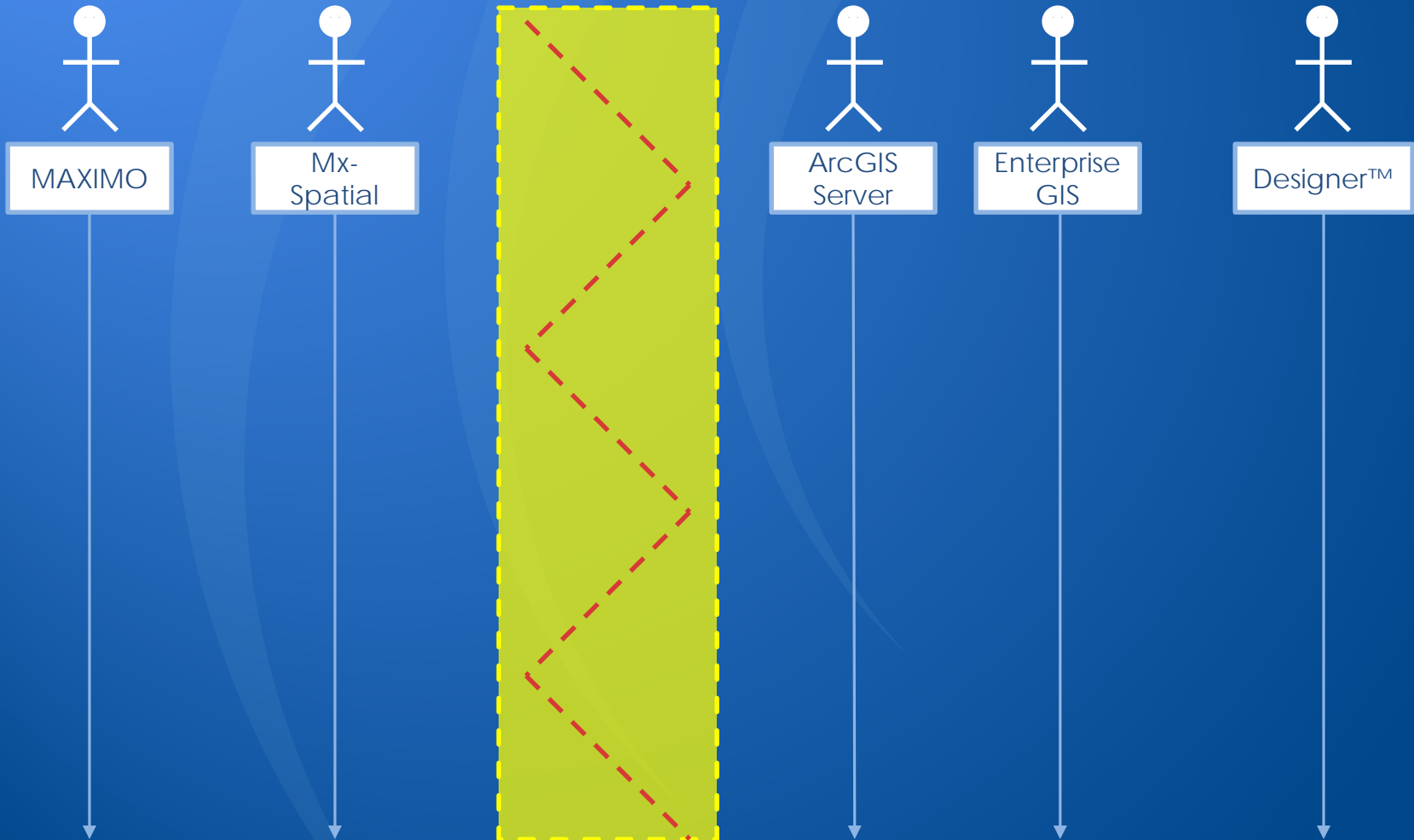
Workflow Overview



1. **Legacy:** Mx-WO ⇒ GIS-WR [Link](#)
2. **Pre-Posting:** Design to DEFAULT ⇒ [Expose](#)
3. **CRON:** Mx-Location/GIS-Feature [Link](#)
4. **Move Transaction:** Asset to Mx-Location
5. **Federation:**
 - Asset/GIS Unit [Link](#)
 - Asset Information into GIS Unit

Maximo Spatial ↔ ArcGIS Server

The Players

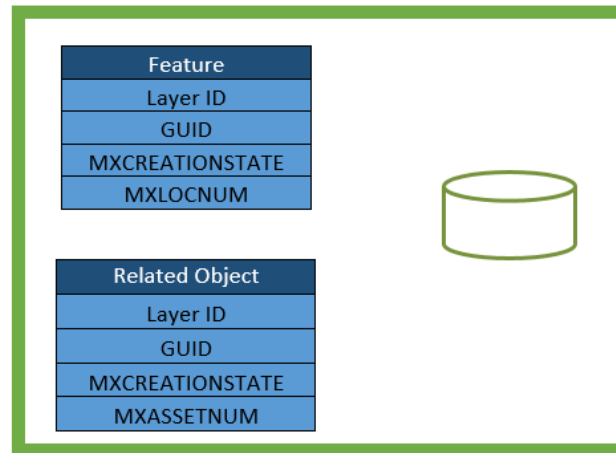


Maximo Spatial ↔ ArcGIS Server

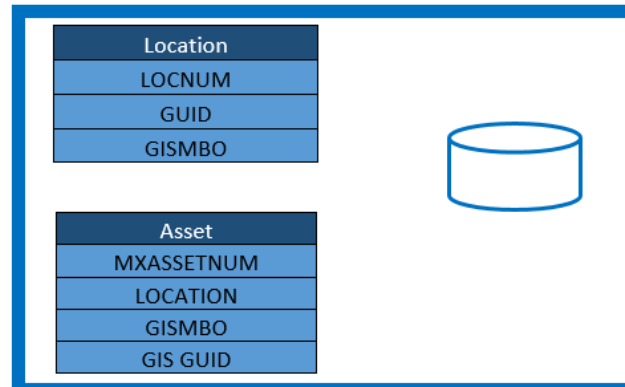
The Players



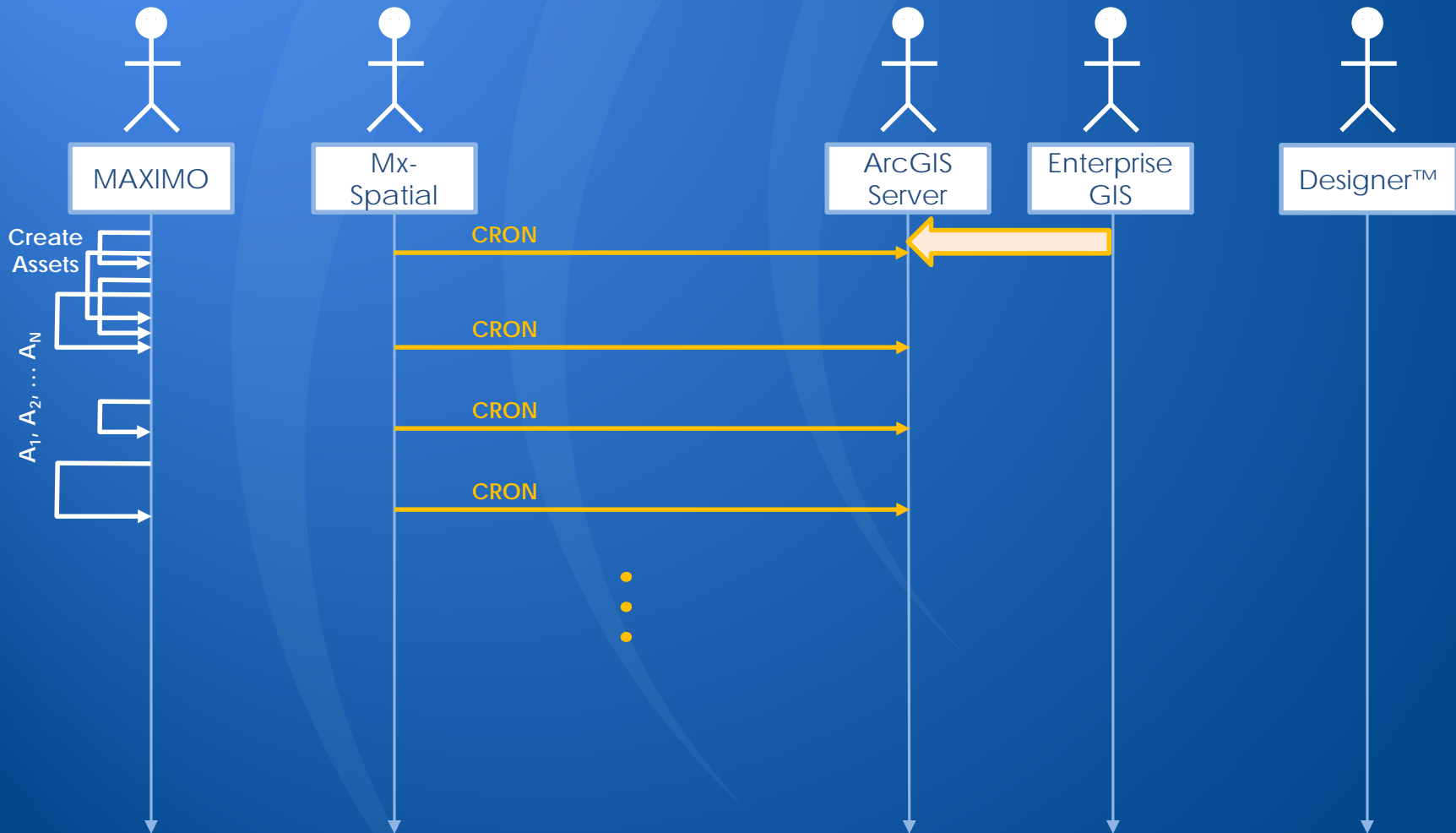
GIS



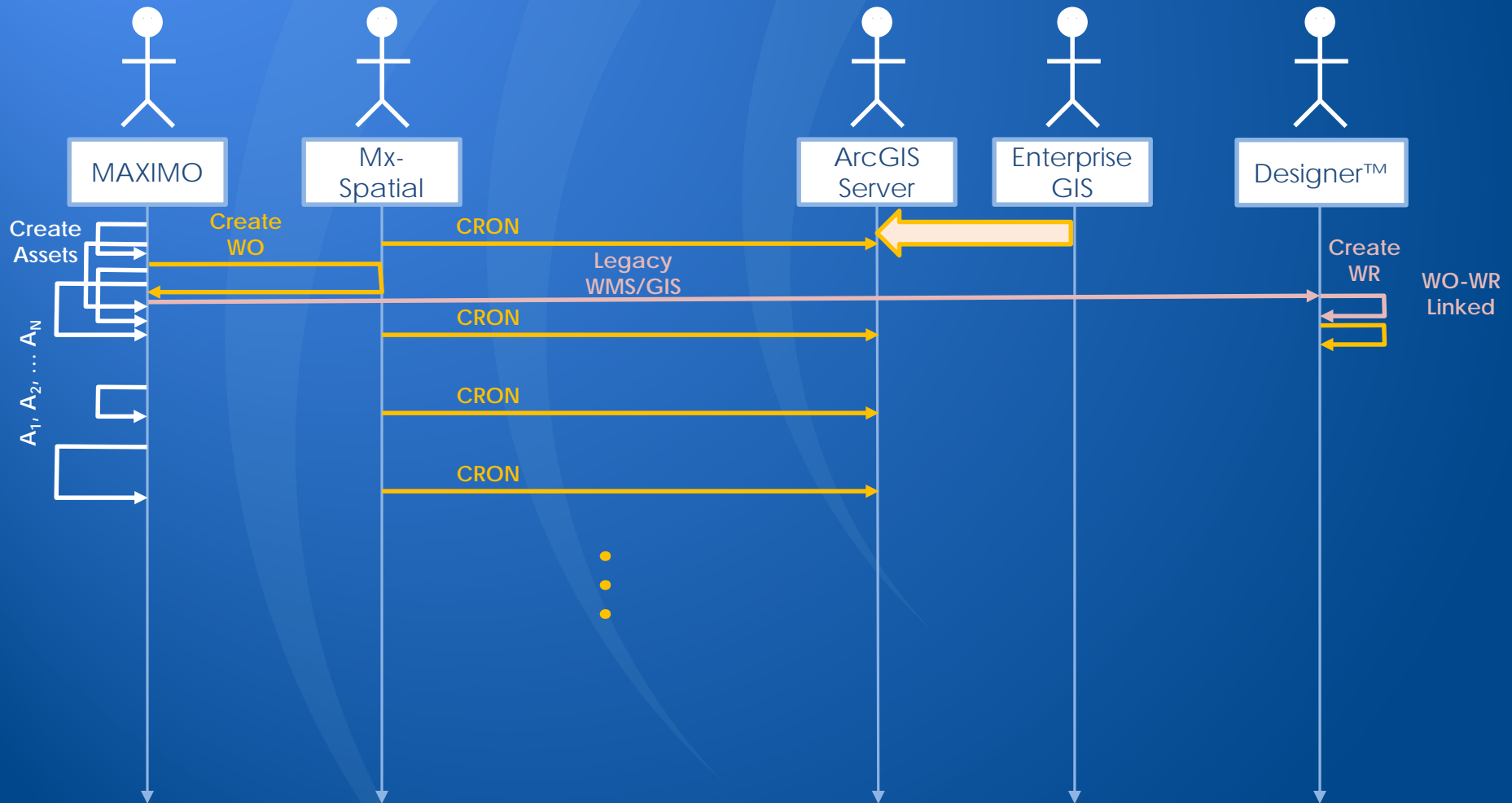
Maximo



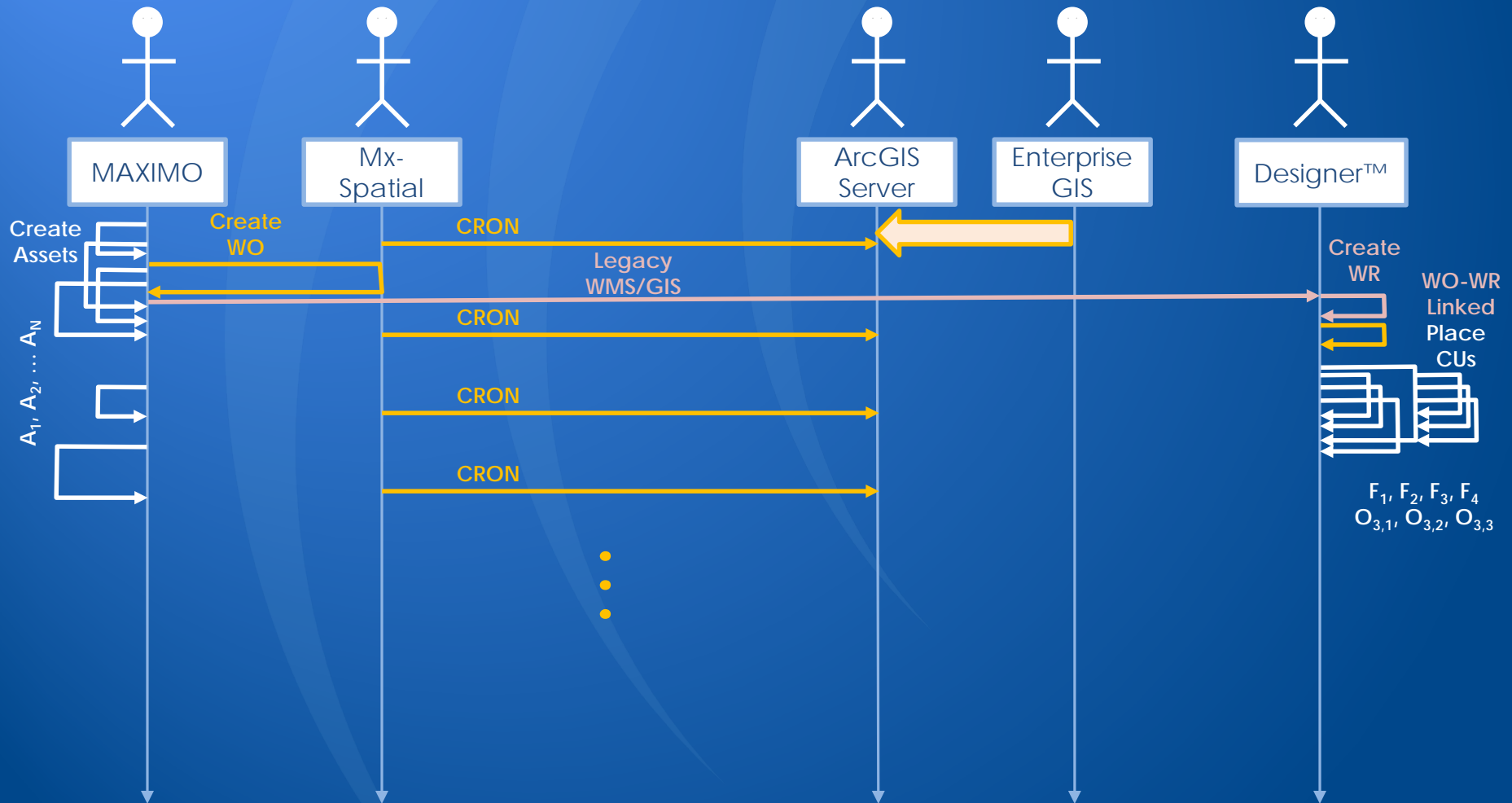
Maximo & ArcGIS: Regular Activities



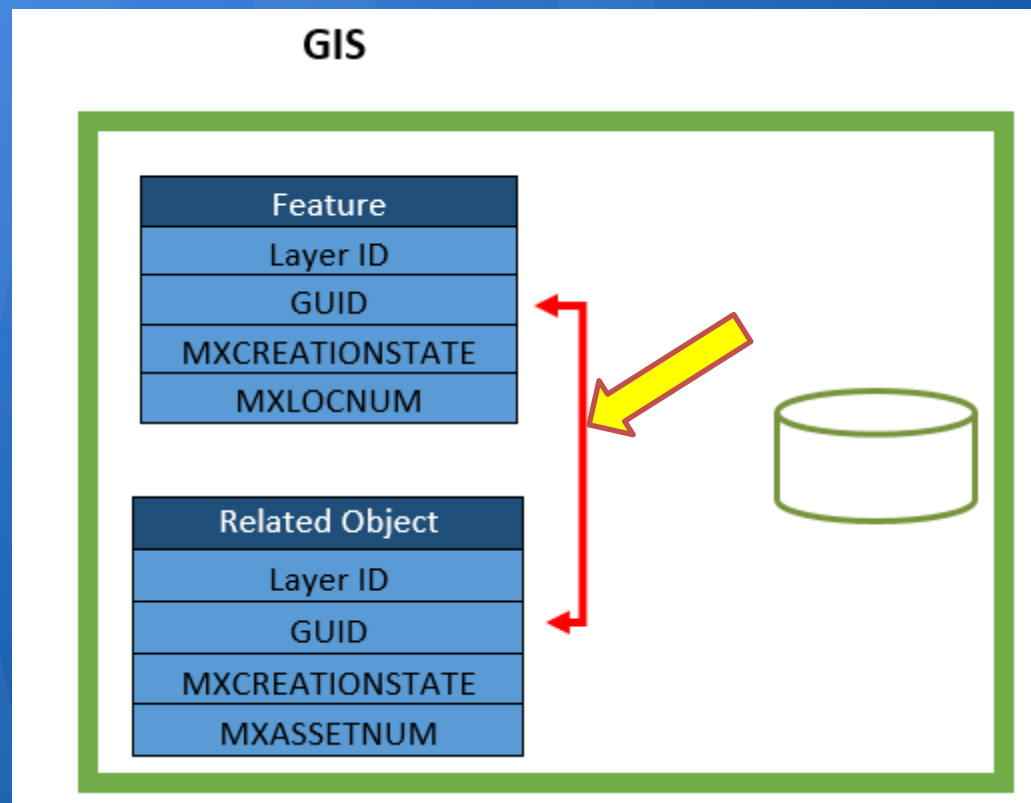
LEGACY Mx-WMS/GIS: Mx-WO \Rightarrow GIS-WR Linked



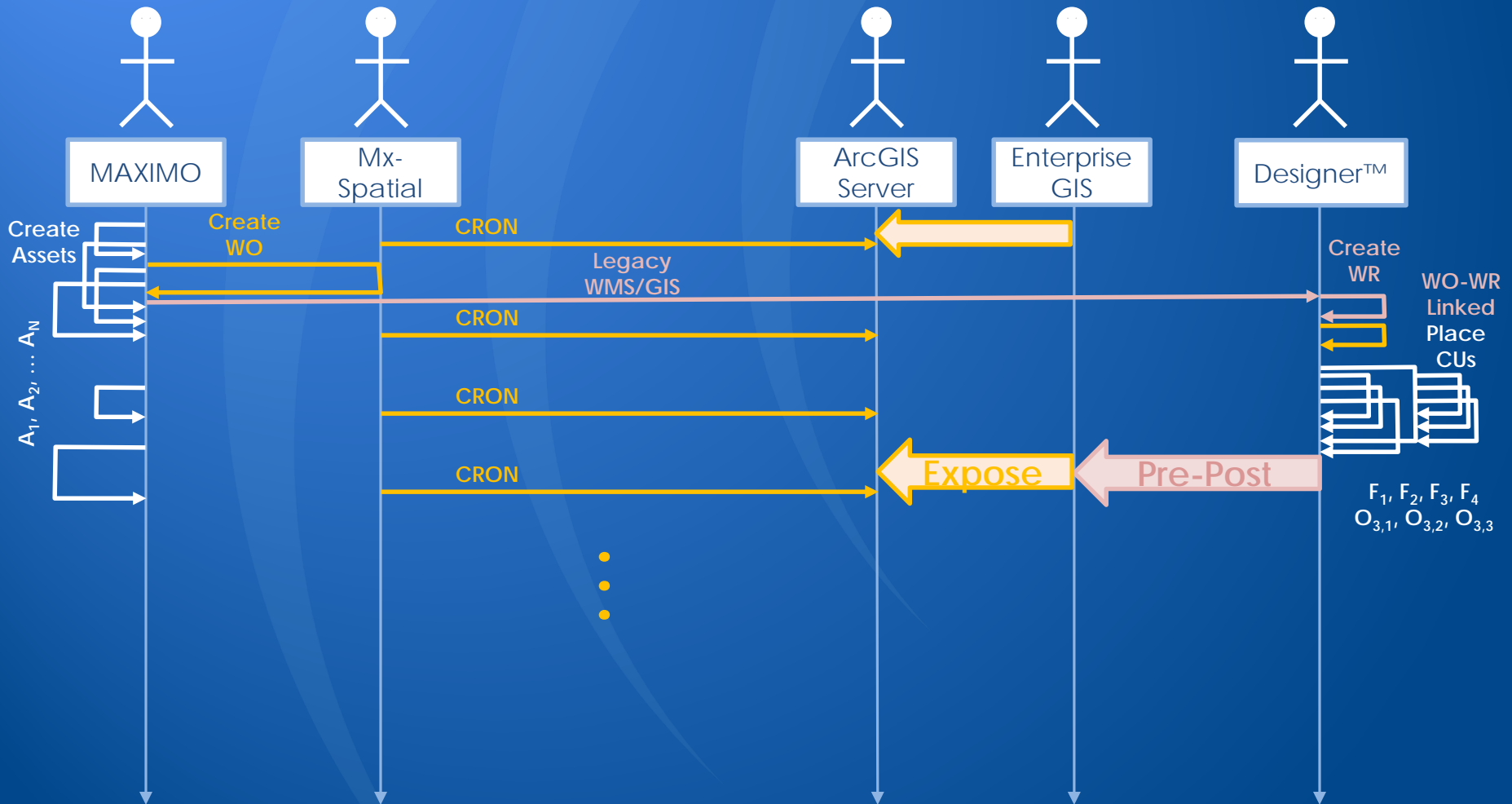
DESIGN: Feature/Unit Link



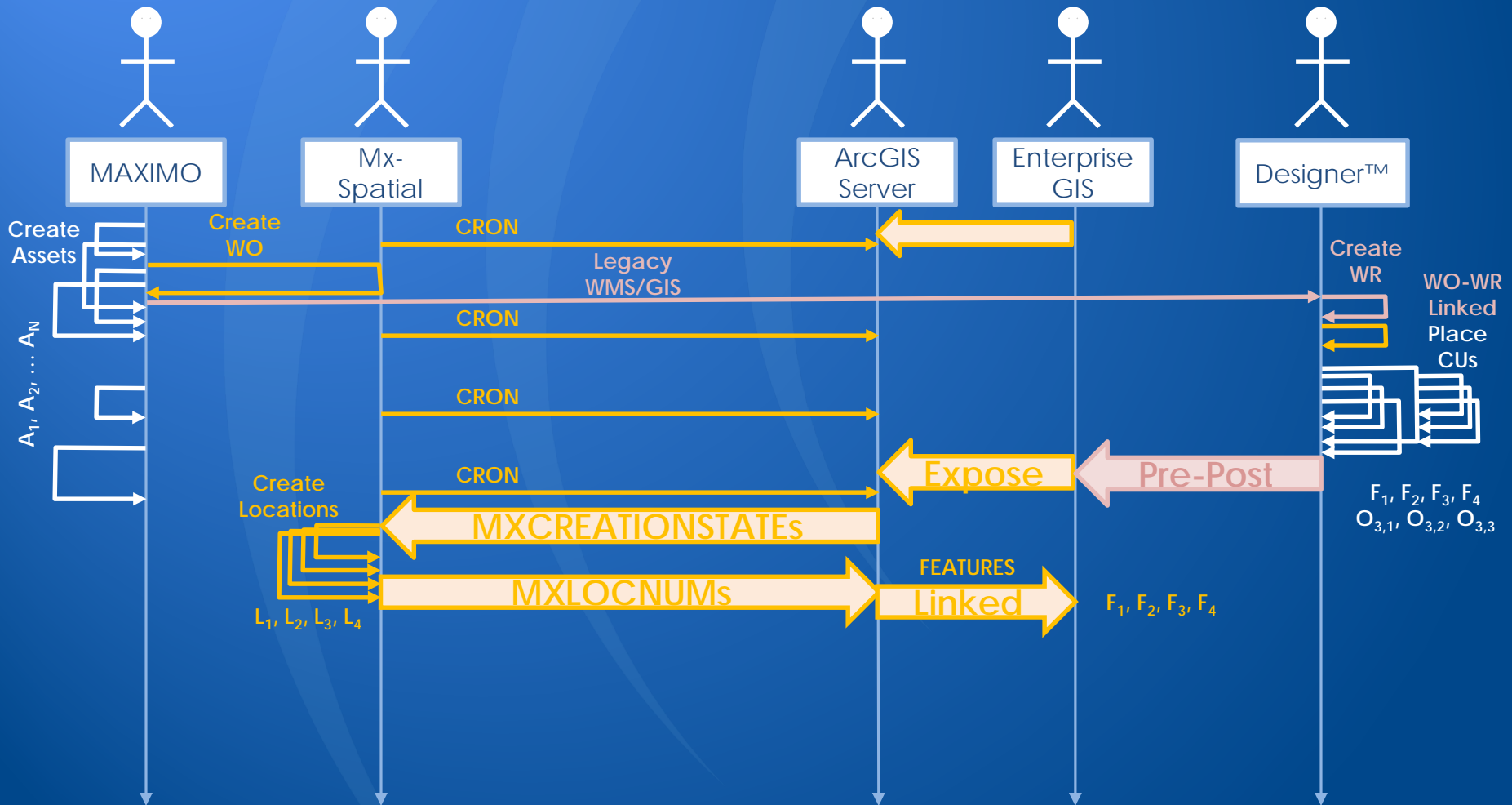
DESIGN: Feature/Unit Link



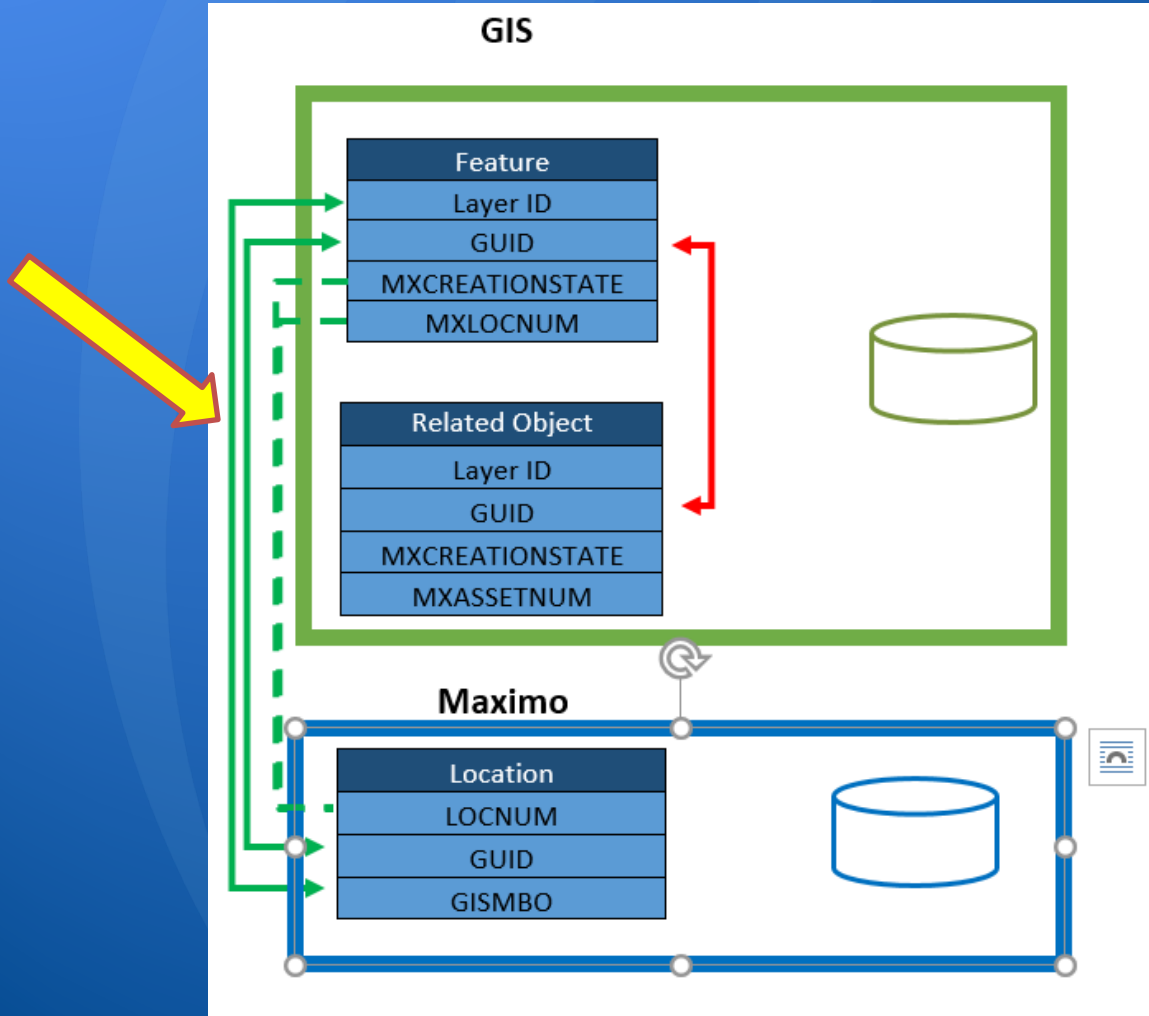
PRE-POST: Expose



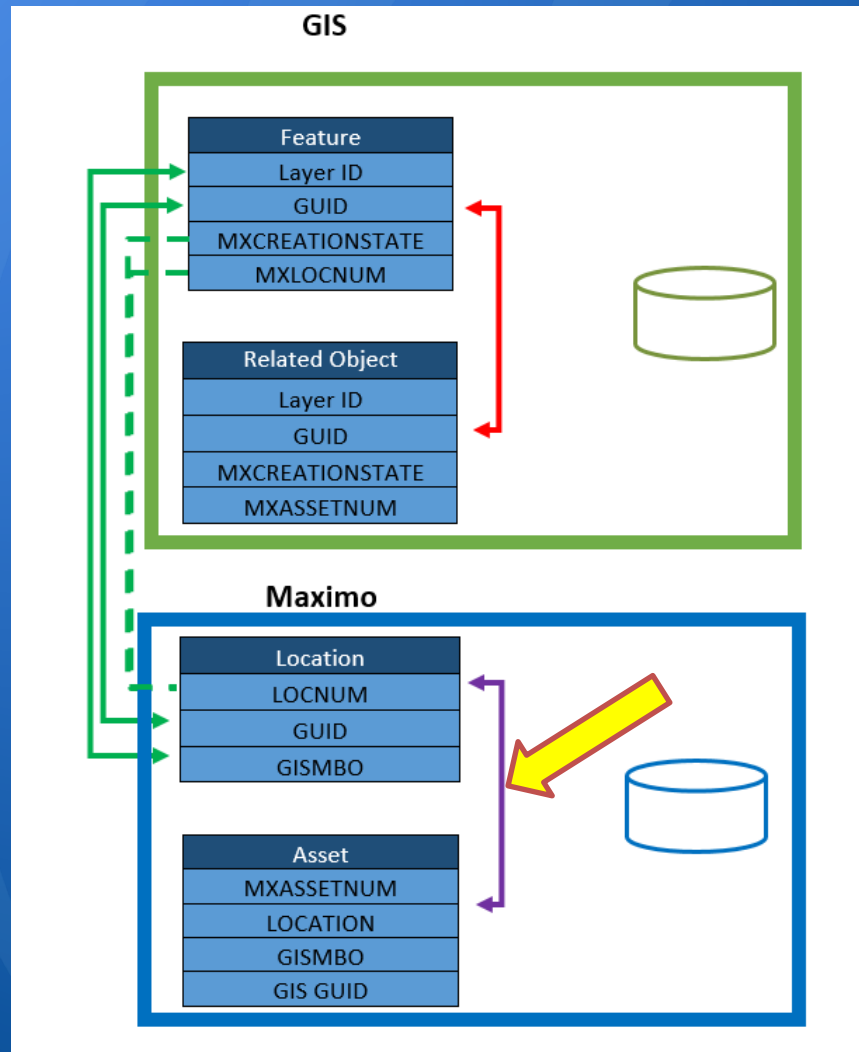
CRON: Mx-Location/GIS-Feature Linked



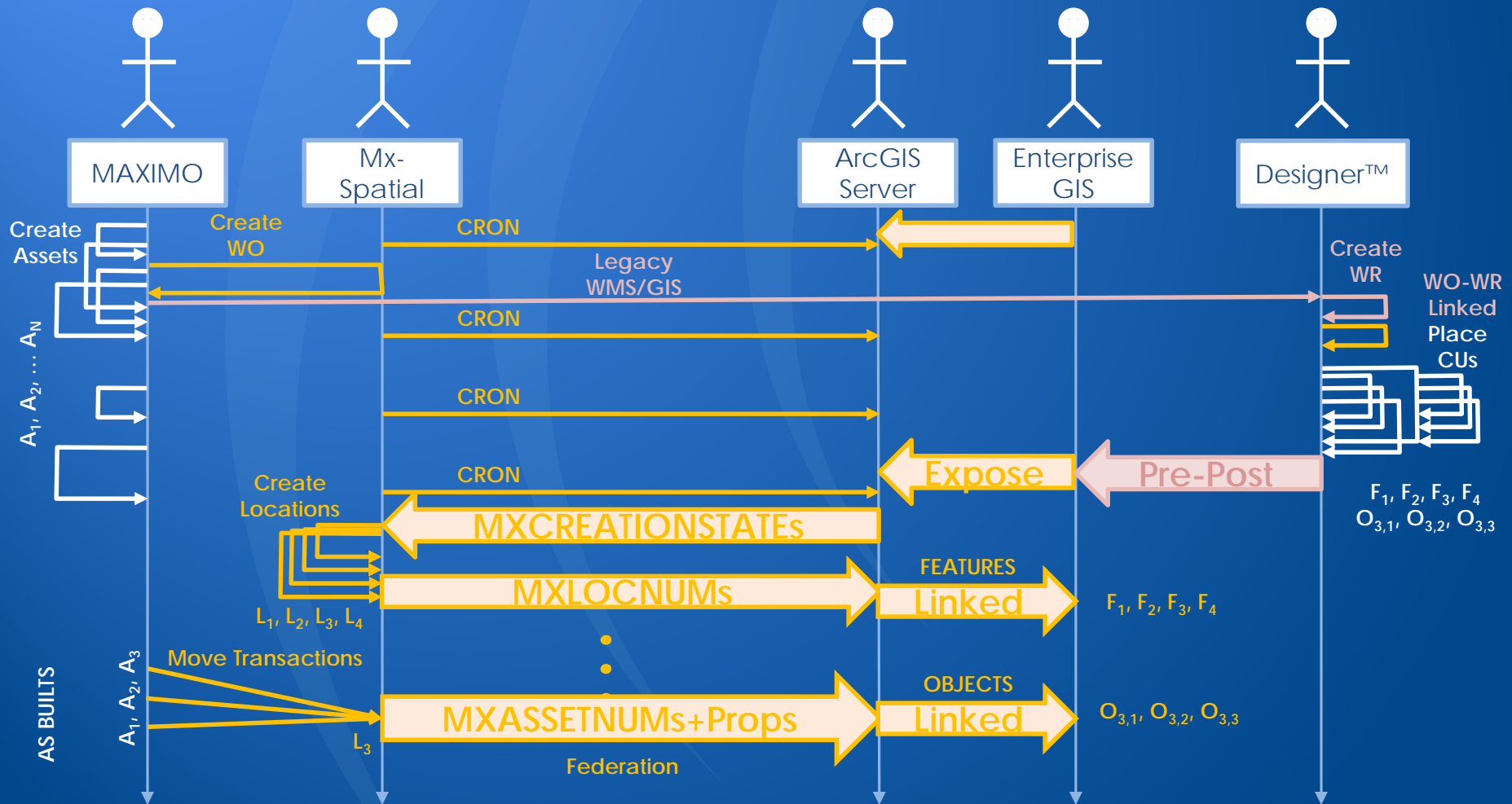
CRON: Mx-Location/GIS-Feature Linked



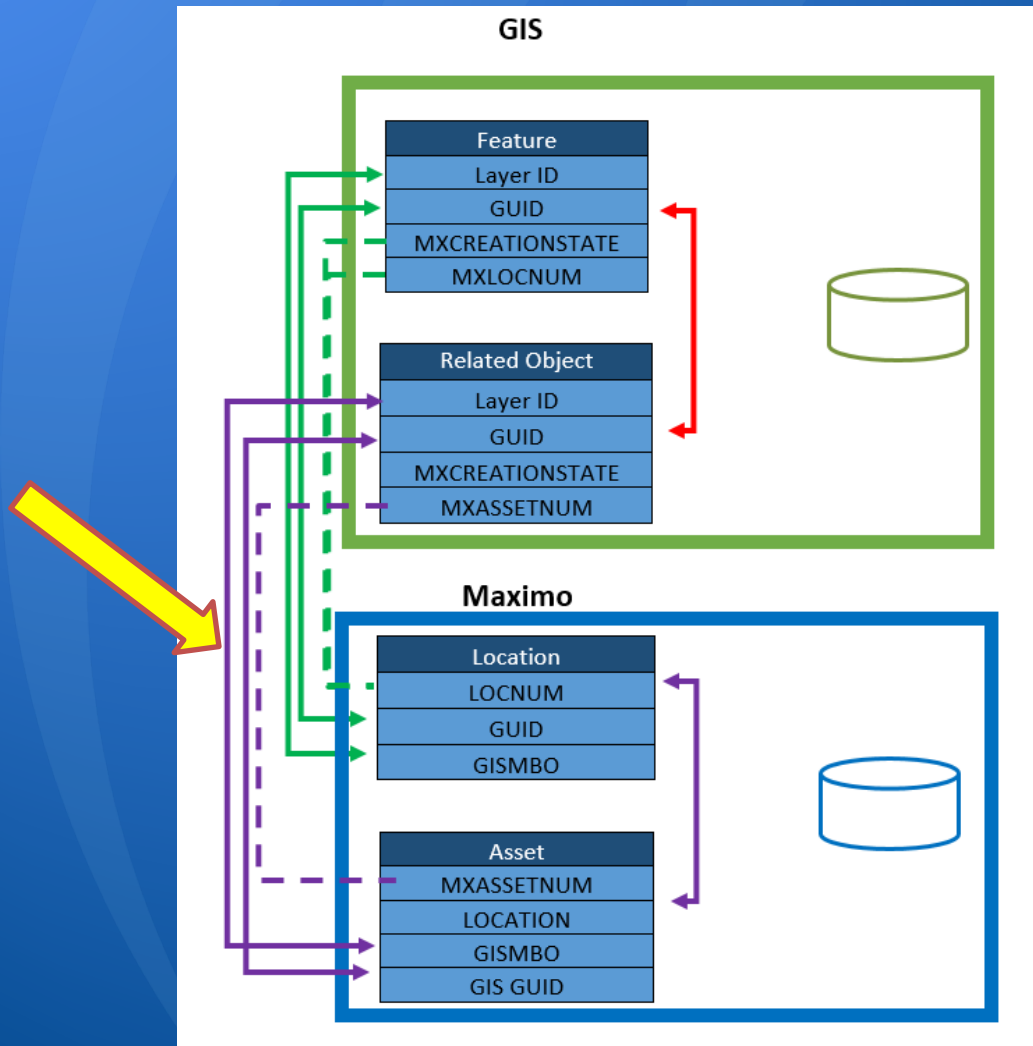
MOVE TRANSACTION: Asset to Mx-Location



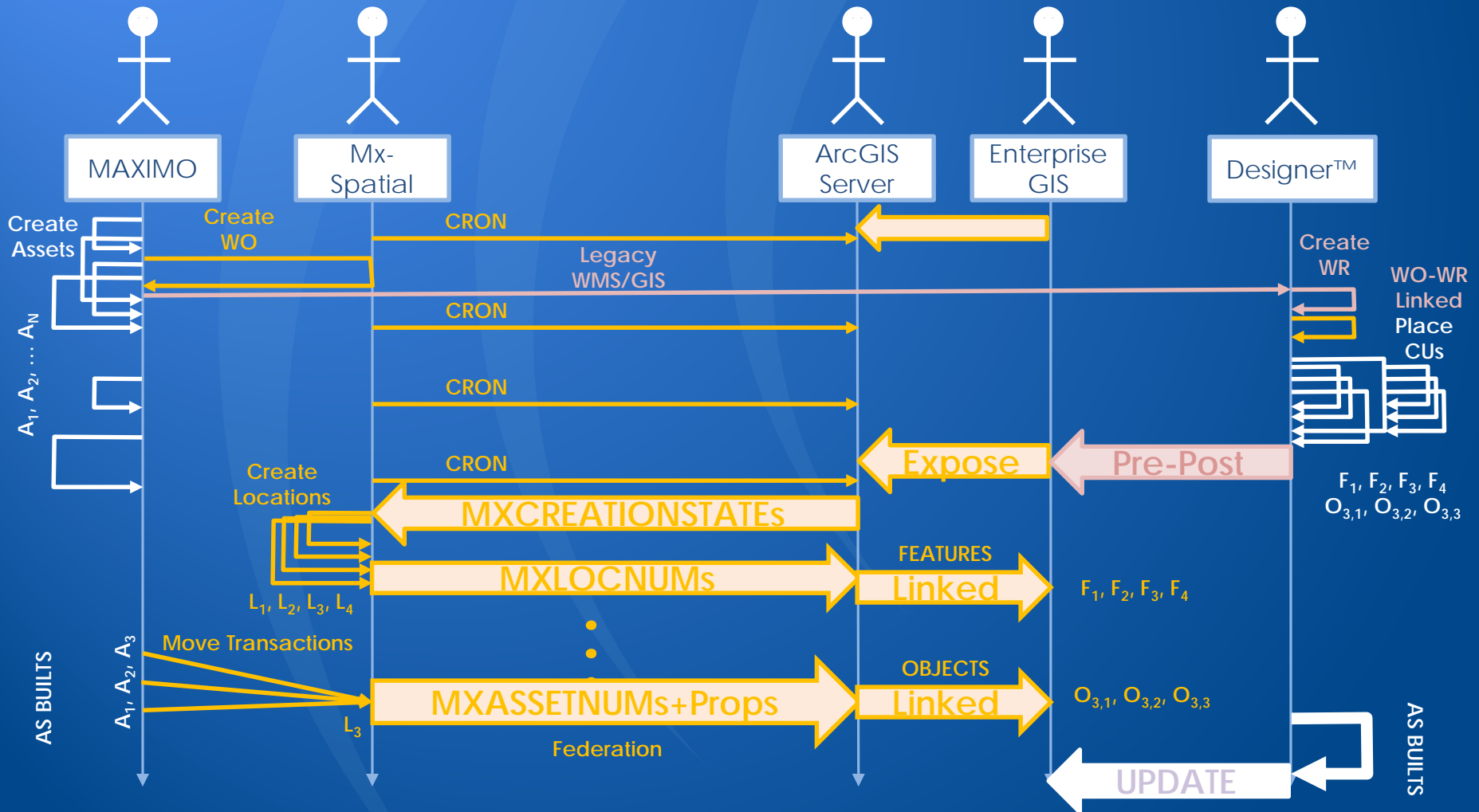
FEDERATION: Asset/GIS-Units Synced



FEDERATION: Asset/GIS-Units **Linked**



AS-BUILT: GIS Update



SUMMARY:

Maximo Spatial ↔ ArcGIS Server



Workflow: Sequence Diagram

Maximo

- Assets and their Life Cycle

ArcGIS

- Spatially Distributed Features and Related Units

Legacy Integration ⇒ Mx-WO/GIS-WR [Linked](#)

Maximo Spatial ↔ ArcGIS Server

- REST Endpoints Integration ↔ Feature Services
- **Cron:** Mx-Location/GIS-Feature [Linked](#)
- **Move Transaction + Federation:** Asset/GIS-Unit [Linked](#)

BUSINESS BENEFITS



1. Adopt Best Practices:
 - a. Keep users in their home system
 - b. Leverage the core functions of each system for what they do best
2. Minimize duplication of data among systems
3. Full utilization of WMS-AMS-GIS (functions+processes)
4. OOTB streamlined and simple interfaces; limiting customizations

QUESTIONS?



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