

Solving the technical challenges while upgrading Maximo 6 to 7.5 for ATCO Electric



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Agenda

- Introductions
- Overview of ATCO I-Tek
- Pre-upgrade Maximo 6.2.3 Architecture
- Upgrade to 7.5 objectives
- Upgrade Strategy
- Challenges and Solutions
- Results and Conclusions
- Future plans
- Discussion, Q & A

Corporate Overview of ATCO I-Tek

- End-to-end IT service provider with over 730 professionals that specialize in solutions focused on:
 - Asset Management
 - Meter Data Management
 - Utilities
 - Managed Technology Infrastructure & Cloud Solutions
 - Based in Edmonton, Alberta, Canada
- ATCO I-Tek is a member of the ATCO Group:
 - More than 8,800 employees
 - Assets of approximately \$12 billion
 - Corporate Office: Calgary, Alberta, Canada



Maximo Deployment at ATCO Electric

- 850 users
- 92 custom reports
- Cluster environment
- Custom Interfaces
 - WFM (Work Force Management)
 - OMS (Outage Management System)
 - CIS (Customer Information System)
 - GIS (Geospatial Information System)



Pre-Upgrade Architecture

- Maximo 6.2.3
- Maximo Transportation 6.2.1
- TRM Rules Manager
- Syclo (Maximo Mobile)
- Integration using MQ Series Message Broker
- Oracle 10g
- Custom applications (Team Developer/SQLBase)



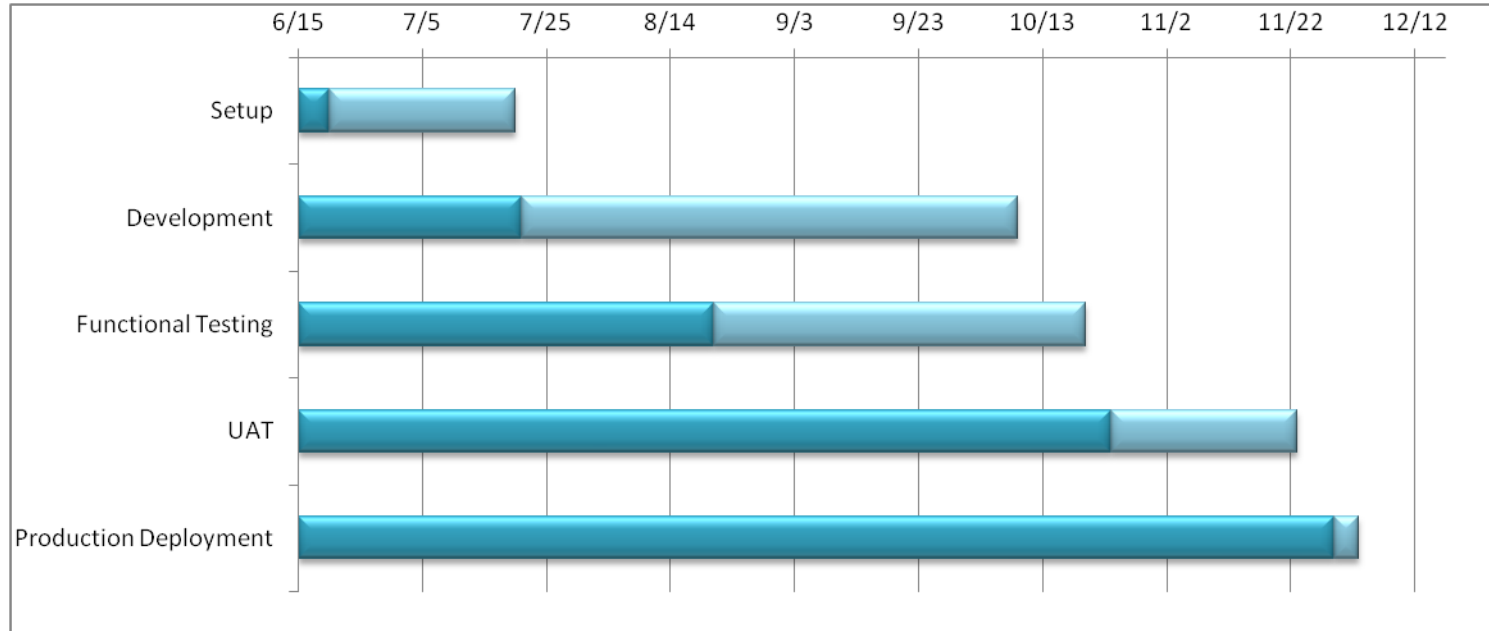
Upgrade Objectives

- Upgrade to 7.5
- Ensure supportability: use the IBM upgrade tools
- Keep Actuate reports
- Keep Syclo
- Keep Rules Manager
- Keep existing integration with MQ Series
- Keep custom applications

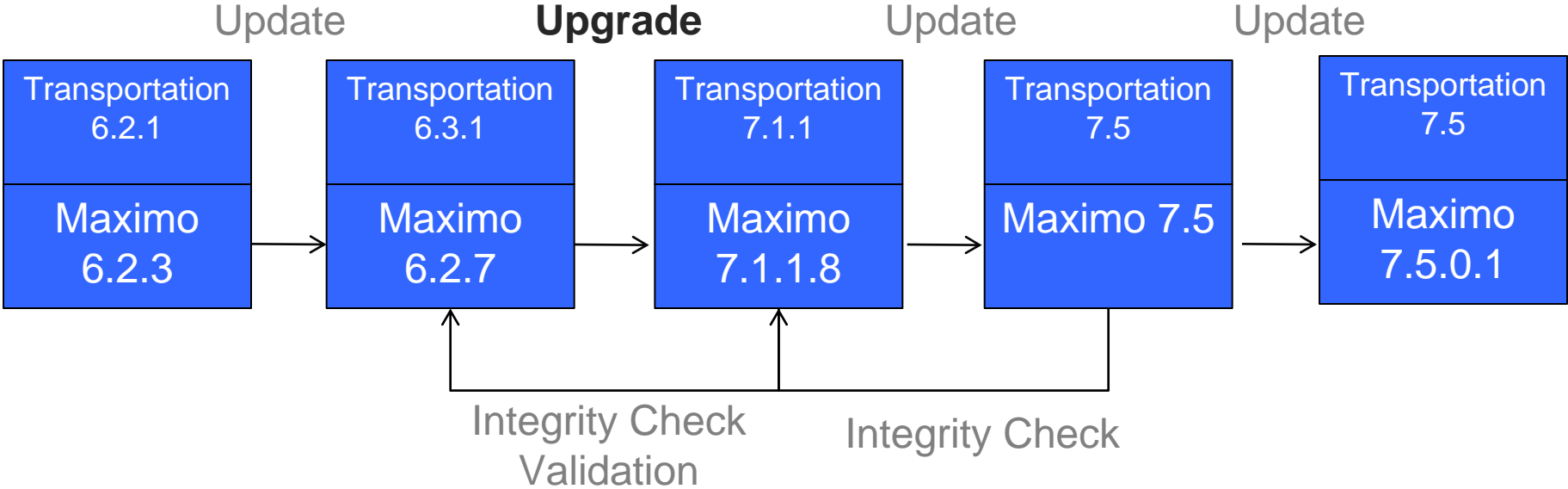
Systems to be Upgraded

- Maximo – 6.2.3 to 7.5
- Oracle – 10 to 11
- WebSphere – 6 to 7
- TRM – 3.4.7 to 4.9.1
- Syclo – 4.4.2.6 to 6
- Actuate – 8 to 11
- Team Developer/SQLBase - 8 to 11

Schedule/ Approach



Upgrade Strategy



WebSphere 6

WebSphere 7

Oracle 10g

Oracle 11g

Challenges

- Long upgrade run-time
 - Size: 24 Million rows in a table
 - Performance
 - Each YORN field added requires complete rebuild of table
- Customization of integration with MQ Series
- Actuate Reporting
- New versions of Syclo and Rules Manager for 7.5



Solutions

- Upgrade performance
 - Database server upgrades improved performance by up to 100x
 - Truncate of ASSETSPEC table before upgrade and then rebuilt after the upgrade
- Customizations
 - Refactored integration messaging v6 to v7
 - Refactored the custom MDB



Results and Conclusions

- Results
 - Upgrade time reduced to 28 hours, easily managed over an outage-weekend
 - Compiled Actuate reports deployed in 7.5
 - Rules Manager upgraded and working in 7.5
 - Syclo upgraded and working in 7.5
- Conclusions
 - Utilize best application and database servers for upgrade process
 - Use core Maximo functionality whenever possible

Future Plans

- Implement a map interface between GIS system and Maximo
- Replace custom applications with Maximo functionality
- Use Maximo for new business work types
- Active Directory Integration



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