



Application Lifecycle
Management (ALM) for
Microsoft Sustainability Manager

Goksel Oral Principal Solution Architect Customer and Partner Success



Goksel Oral

Principal Solution Architect linkedin.com/in/gokseloral

Ask me about...

- Power Platform
- CRM
- Well-Architected for Industry





Agenda

- Why: ALM for MSM
- What: ALM for MSM
- How: Continuous Integration
- How: Continuous Delivery
- Comparison of CI/CD Tools
- Key takeaways
- Q&A



Prerequisites for level 300 session

- Power Platform Environment Strategy
 https://aka.ms/ppalmbasics
- Power Apps Solution Concepts, Lifecycle https://aka.ms/ppalmsolutions
- Microsoft Sustainability Manager Architecture https://aka.ms/wai-msm-architecture
- Power Platform ALM Developer Tools
 https://aka.ms/ppalmdevtools



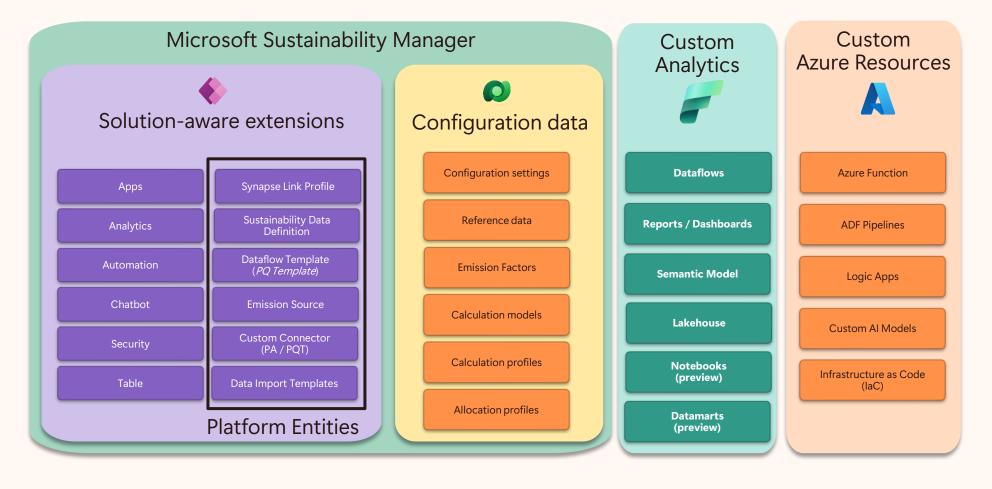
Why ALM for MSM?

- Moving tested configuration to production
- Solution and configuration versioning
- Reducing regression with automated testing
- Reduce deployment errors and operations
- Align environments solutions and data
- Empower developers to work on multiple branches
- Traceability between work items (feature, bug) back to solution or configuration items
- Solution quality (gate reviews, pull requests, solution checker)

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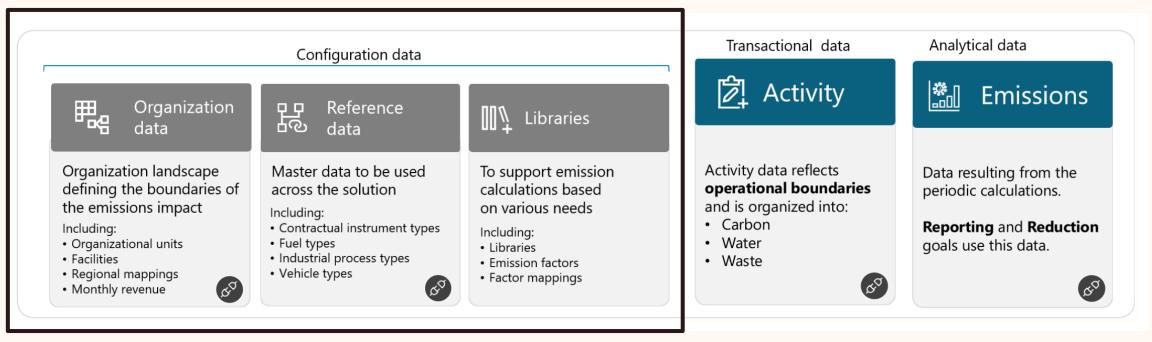
What: ALM Scope for MSM Implementations



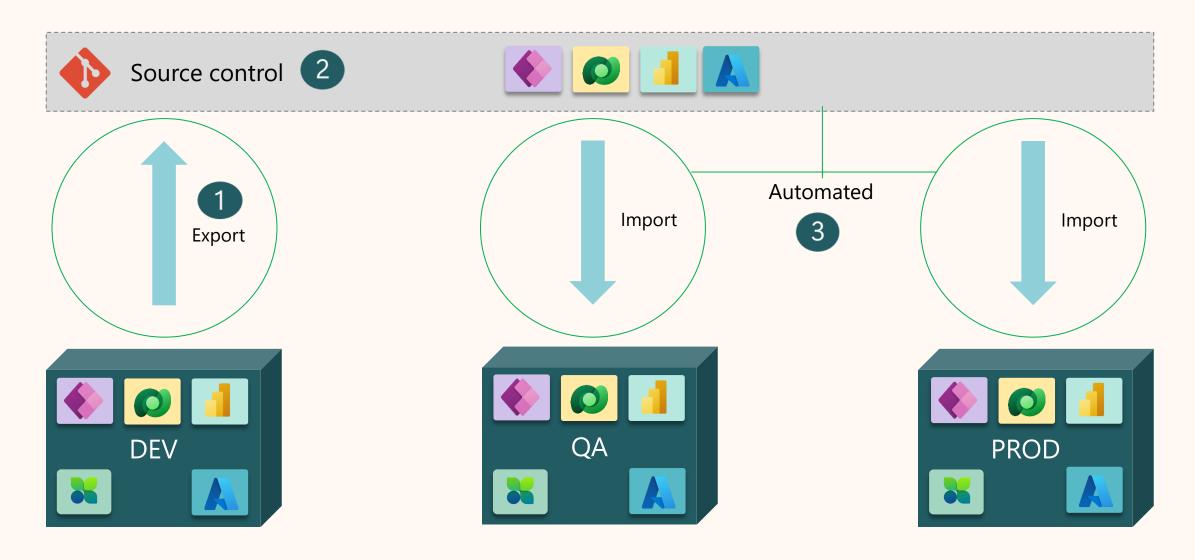


What: Promoting Data Between Environments

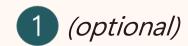
ALM SCOPE



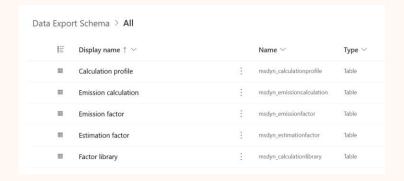
How: Continuous Integration & Delivery



Prerequisite: Creating Data Export Schema

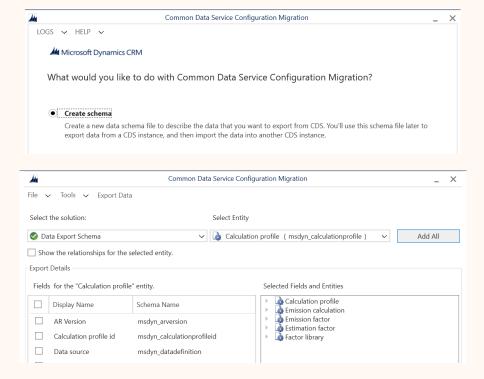


Create an unmanaged solution to select entities for export



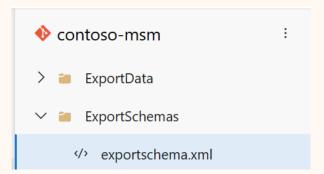


Run Configuration Migration tool, create schema for selected entities



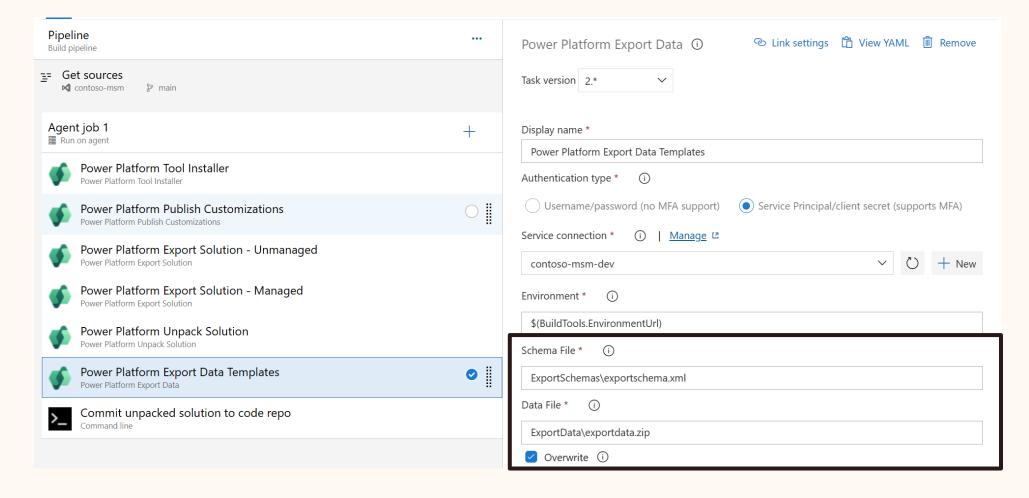


Save schema to code repository



How: Continuous Integration

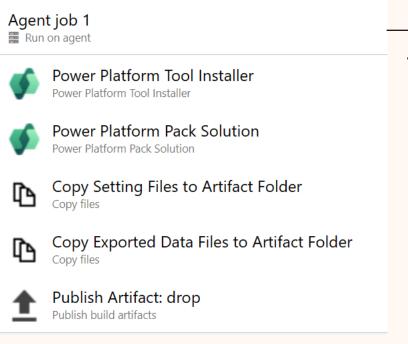
1 Solution Export



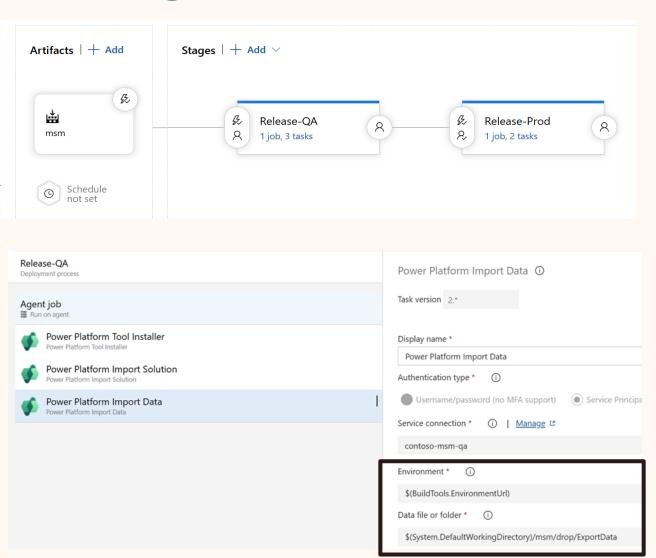
How: Continuous Delivery

3 Release Pipeline

2 Build from Code Repo



Triggers Release



Comparison of CI/CD options

| Capability | Power Platform Pipelines | DevOps/GitHub | ALM Accelerator | |
|--|--------------------------|--|---|--|
| IT/Developer involvement | Not required | Required for every project | Up-front setup | |
| Source code integration | No, but planned | Yes | Yes | |
| Maker requires elevated privileges in target environment | Yes | No, service principal is supported | No, service principal is supported | |
| Quality control | Minimal | Unlimited | Best practices | |
| Move Config Data | No | Yes | No | |
| In-product experience | Yes | No | Canvas app provided, but not in the maker experience | |
| Support | Microsoft-supported | Microsoft-supported and GitHub issues | Power CAT support through GitHub issues and discussions | |
| Customization | Yes | Yes | Yes | |
| Code-first development supported | No | Yes | Yes | |

Quick Start Long-Term Managed Env.

Key takeaways

- Use source code for versioning both solution and configuration data and plan code branching
- Move configuration and reference data using Configuration Migration Tool (automated/manual), XRM Toolbox Data Transporter plugin (manual)
- Move operation data using data import
- Invest further by adding gate reviews, automated unit/integration testing
- Add additional steps such as security scanning, solution checker and static code checker for customizations

Related sessions

| Session code | Title | Abstract | Speaker | Date |
|--------------|---|--|--------------|---------------|
| SUS02M | Deployment and license management of Microsoft Sustainability Manager | As organizations globally strive to meet their sustainability commitments, the deployment and management of Sustainability Manager stand as critical components in achieving these goals. This technical session will provide a step-by-step guide on how to effectively deploy Sustainability Manager within your organization and manage its licenses to ensure compliance and optimization. | Shelly Bakke | Monday, May 6 |



Thank you!

- How was the Summit? Share your feedback! <u>aka.ms/MCfSTSFeedback</u>
- Power Platform ALM with Azure DevOps aka.ms/ppalmstep
- Join the Sustainability Community! aka.ms/MCfSCommunity
- Learning Resources

 <u>aka.ms/CloudforSustainabilityLearnCollection</u>





Please type your questions **in the chat** and we will answer them during the Q&A session.

