# Application Lifecycle Management

## Elevate your teams with modern ALM.

**Modern application lifecycle management** practices help **teams** eliminate delivery impediments and **deliver continuous value** with software. Modern app lifecycle management extends beyond source code management and version control to encompass full lifecycle practices that **integrate teams and functions, eliminate waste**, and **reduce cycle times** across every aspect of software development from ideation to production operations.

**Visual Studio ALM** is a comprehensive solution that makes it simple for any team to adopt and apply modern app lifecycle management practices at their own pace to eliminate delivery impediments and transition to a continuous delivery cadence:

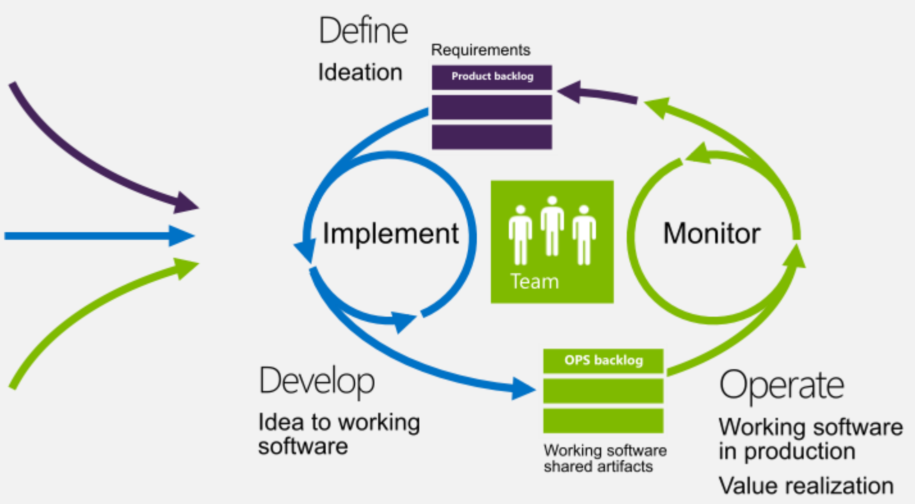
### From delivery impediments

Define
Misunderstood requirements
Conflicting priorities

Develop
Quality afterthought
Managing dev and test environments
Integrating x-platform teams
Unmet user expectations
Operations readiness requirements not met

Operate
Isolated tools and workflows
Production incidents are hard to debug and resolve
Can't get actionable feedback

### To continuous delivery



Waste elimination | Cycle time reduction | Continuous delivery

### Business value

- Reduce end-to-end software delivery cycle times (ideation to production operations)
- Break down team and functional barriers
- Deliver continuous value with your software investments

Visual Studio

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## Agile planning and management

Agile project planning and management tools keep teams aligned and informed. Key capabilities include product backlog management, release/sprint planning, team capacity management and forecasting, traceability through integrations with team tools (requirements, development, testing, and feedback management tools), and real time visibility of delivery status and risks.

## Team development

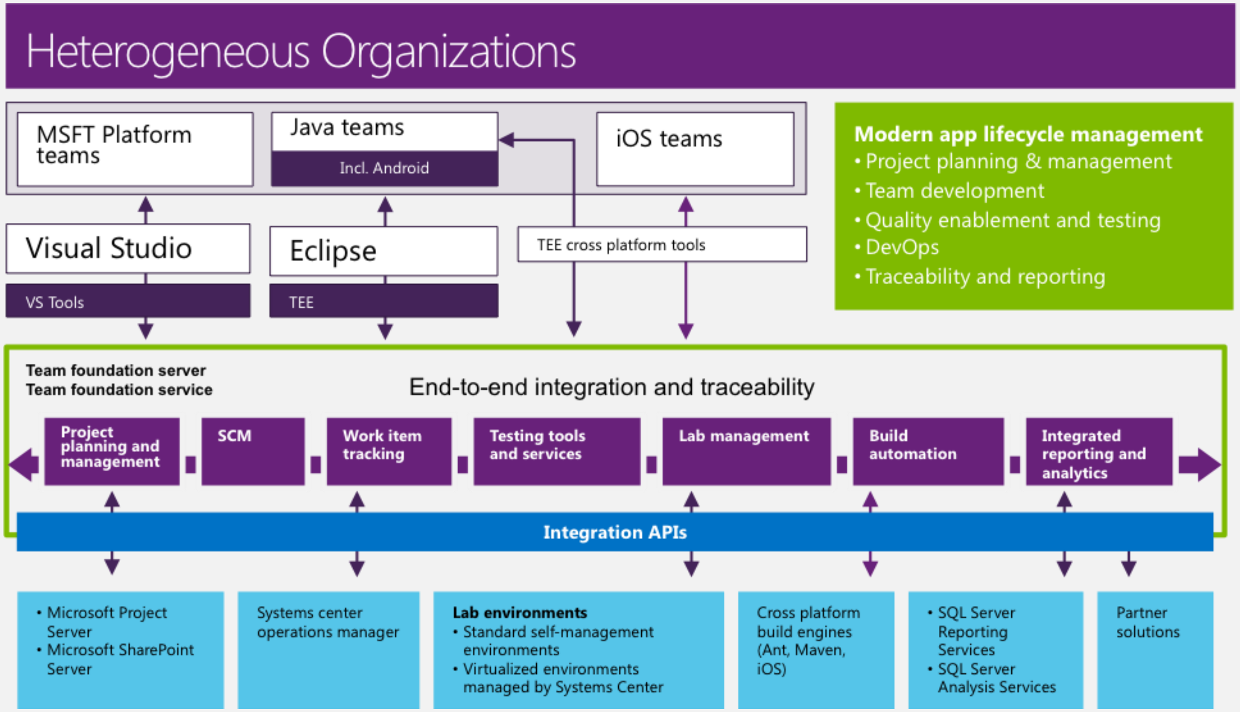
Tools and workflows break down team and functional integration barriers. User and stakeholder integration enable early and frequent feedback on product functionality and direction, developer productivity and collaboration, developer-tester integration to reduce cycle times in defect detection and resolution, and development-operations (DevOps) integration for end game velocity and MTTR (mean time to repair) reduction.

## Quality enablement

Tools and workflows enable full lifecycle quality practices—actionable requirements, acceptance test driven development, flexible testing tools and frameworks, continuous feedback, continuous integrations, and integrated quality metrics reporting.

## DevOps

Tools and workflows integrate development and operations teams for end game velocity in deploying software and to reduce MTTR in production environments.



Heterogeneous Organizations

MSFT Platform teams

Java teams

Incl. Android

iOS teams

Visual Studio

VS Tools

Eclipse

TEE

TEE cross platform tools

**Modern app lifecycle management**
- Project planning & management
- Team development
- Quality enablement and testing
- DevOps
- Traceability and reporting

**Team foundation server**
**Team foundation service**

End-to-end integration and traceability

**Project planning and management**

**SCM**

**Work item tracking**

**Testing tools and services**

**Lab management**

**Build automation**

**Integrated reporting and analytics**

**Integration APIs**

- Microsoft Project Server
- Microsoft SharePoint Server

Systems center operations manager

**Lab environments**
- Standard self-management environments
- Virtualized environments managed by Systems Center

Cross platform build engines (Ant, Maven, iOS)

- SQL Server Reporting Services
- SQL Server Analysis Services

Partner solutions

Microsoft

Visual Studio