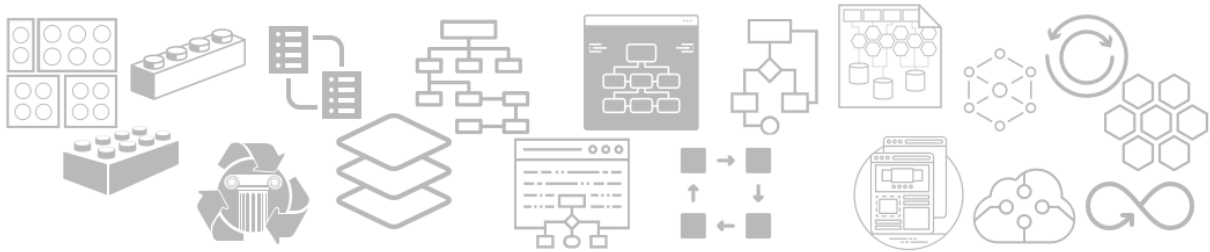

Emerging Reference Architectural Patterns & Guides



A proven approach to helping every development organization become an integration agile organization. The Reference Architecture for Agility is a technology neutral logical architecture based on a disaggregated cloud-based model. It can be applied in incremental stages to create an integration agile foundation for any digital enterprises - deployable in private, public or hybrid cloud environments.

We welcome and appreciate any feedback, changes, or contributions. Please send a pull request, create a github issue.

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Cell-based Architecture (CBA) - *Decentralized, Cloud native, Microservice compliant*

Functional capabilities grouped in an architecture unit based on scope and ownership. It is decentralized where data moves within and across cells and governance are transparently applied through a control plane embedded within cells.

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Layered and Segmented Architecture - *API-centric centralized architectures*

The focus of the enterprises moved to API-driven with the digital transformation became the strategy. As a result, the business and the technical architecture moved from service-orientation to API-centric. The primary focus of this specification is to look at the architecture approaches taken by the industry and represent those patterns as generic reference architectures. We identified two reference architectures, layered and segmented which we will be discussing in detail in this paper.

- **Segmented Reference Architecture:** Functional capabilities sub-grouped within layers based on organizational ownership. It is a centralized system where data flow moves from layer to layer.

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- **Layered Reference Architecture:** Functional capabilities grouped in layers by following a System of Systems view. It is a centralized system where data moves from layer to layer.

Architectural Guides & Concept Papers

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Platformless - Improving Enterprise Software Engineering with Platformless Computing

This paper introduces the ‘Platformless’ concept, emphasizing its intersections with APIs, cloud native middleware practices, and platform engineering in the context of modern enterprise software engineering.

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Internal Developer Platform (IDP) - A Technical Reevaluation

Explore a comprehensive redefinition of the Internal Developer Platform, covering its scope beyond CI/CD and infrastructure automation. This guide offers in-depth architectural insights aimed at technical decision-makers and software architects.

Technology Specific Reference Architectural Patterns

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API-driven Microservice Architecture

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Cloud Native Architecture

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CIAM - A WSO2 Reference Architecture

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Event-driven APIs in Microservice Architectures

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A Cloud Native Digital Enterprise