

COMPOSABLE ARCHITECTURE

Adapt to change

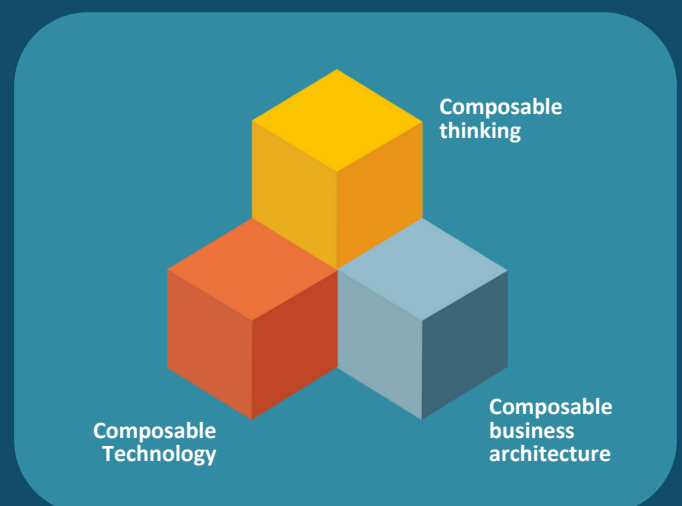
What is Composable Architecture and why does your business need it?

Typically, organizations invest in monolithic architecture like CRM, ERP, PIM, eBusiness, or Transportation. Then, it becomes difficult to deliver new capabilities to incorporate business needs after a while.

This results in long complex projects moving to new systems, all focused on monolithic thinking. Composable architecture focuses on flexible building blocks that allow changes, scaling and dynamically supporting business requirements.

How does it work?

It is all about imagining how your business is structured. If you would have gotten the doll house but wanted to move the entrance, you might need a different doll house or do lots of work on the doll house to move the door. If you would have gotten a box of Legos you could change some blocks, maybe need a specific new block, and recompose it. Resulting in more agility, flexibility, and meeting requirements.



Building blocks of composable business

“Composable business means creating an organization made from interchangeable building blocks”

- Gartner Group

Building blocks of composable business



Composable thinking keeps you from losing your creativity. Anything is composable. When you combine the principles of modularity, autonomy, orchestration and discovery with composable thinking, it should guide your approach to conceptualizing what to compose, and when.



A composable business architecture ensures that your organization is built to be flexible and resilient. It's about structure and purpose. These are structural capabilities — giving you mechanisms to use in architecting your business.



Composable technologies are the tools for today and tomorrow. They are the pieces and parts, and what connects them all together.

MACH Architecture

What is MACH?

Microservices: Individual pieces of business functionality that are independently developed, deployed and managed.

API-first: All functionality is exposed through an API, making it possible to tie together two or more applications or services.

Cloud-Native SaaS: Software-as-a-Service that leverages the full capabilities of the cloud, beyond storage and hosting, including elastic scaling of highly available resources. Functionality is updated manually, eliminating the need for upgrade management.

Headless: The front-end user experience is completely decoupled from the back-end logic, allowing for complete design freedom in creating the user interface and for connecting to other channels and devices (i.e. existing applications, IoT, A/R, Vending Machines, sensors, etc.).

Why MACH?

MACH drives best-of-breed products in today's date, making sure the Lego blocks are flexible, reusable, and scalable. They can connect using API's allowing the Lego block to fit on each other.

When all components in a composable architecture are built using MACH principles basically anything can be constructed or reconstructed. MACH is almost a requirement in the digital journey.

M



A



C



H



Conclusion

ERPs like JD Edwards, NetSuite, and Oracle Fusion still fit in and will expose microservices to other platforms like Nextbot, CRM, PIM or others.

Looking at architecture with the above principles includes the whole landscape of applications and tools and helps to leave the monolithic view and embrace composable architecture.

This results in quick turnarounds on changes and omitting dependencies on a single monolithic system. Many companies are already doing some of these and can greatly benefit from these principles in their vision for the future to gain more traction in their digital journey.



Johan Teekens
Technology Director at Steltix



UNLOCK THE BENEFITS OF COMPOSABLE ARCHITECTURE

