

API Service Bus

Microservices Integration Platform

ASB: Asynchronous API Bus

Technically speaking, an asynchronous application does not wait for slower tasks to complete while processing fast moving tasks. This allows the application to handle much larger workloads than a synchronous multi-threaded application with very low CPU and memory requirements.

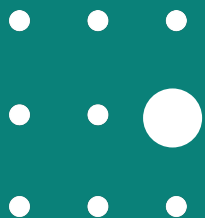
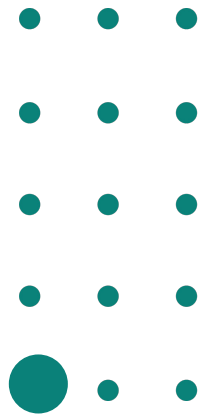
Nginx, an Asynchronous HTTP Server, can handle 10,000 plus connections per core while synchronous Apache can handle only 300.

TekMonks ASB is an asynchronous integration bus which can handle gigabytes of data, fast moving API calls and hundreds of independent event based flows per second. Meanwhile, traditional XML based Synchronous ESBs not only slow down the Enterprise, but also can not handle more than two or three flows per core.



The asynchronous task model is also very well suited to multi-core processors, as the application can scale and utilize all the cores completely and fairly without wasting CPU cycles by waiting on slower tasks.
Benefits of ASB

- Very High Scalability
- Flexibility
- Message Driven Flows Versus Old Document Driven Flows
- Independent and Decoupled Business Microservice APIs
- JSONata for Rich Data Transformations



Problems with traditional ESBs

- Fat, heavyweight and monolithic
- Based on synchronous, XML document based flows
- Made for the SOAP/XML Web Service Era
- Incompatible with REST/API Microservices architecture
- Very slow, very hard to use

TekMonks ASB is the first (and so far only) API Integration Bus, specifically built for modern API based applications and the API economy

- Asynchronous, fast and lightweight event based flows
- JSON data model not complex, heavy XML
- Natively support REST APIs
- Convert anything into a REST endpoint
- Easily consume external APIs
- Create and orchestrate APIs
- Secure by design – HTTPS, OAuth, API Keys

Built for modern AI Based applications, moving large amounts of data and events for machine learning and AI processing engines. Transform data and events from any format to JSON / APIs required by such AI systems.

TekMonks ASB Advantages

We at TekMonks believe that with APIs and the massive advantages of asynchronous programming, the future of enterprise application architecture is asynchronous.

Lightweight and High Performance

Due to the asynchronous I/O based architecture, and the lightweight JSON data model, ASB can process, and route millions of messages an hour using very few cores and memory

Modern Message Driven vs Document Driven

Message Driven Flows versus Old Document Driven Flows - As opposed to synchronous complex flows, which primarily dealt with documents, the modern application architecture uses light weight message driven micro-flows. TekMonks ASB is designed ground up for routing, transforming and orchestrating such message driven flows.



Convert Anything to A REST API

Transform legacy applications and databases to Managed API endpoints.

Rich Transformations with Lightweight JSON

JSON data Support - for high-speed, rich JSON transformations, right on the ASB.

And Open Source!

Go ahead and simplify your enterprise architecture and achieve massive performance increases by using common sense logic-based middleware. Try out our open source ASB for free.

(<https://github.com/TekMonksGitHub/ASB>)



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