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DELIVERING BUSINESS APPLICATION INNOVATION WITH GIGASPACES SMART DIH AND IBM'S IIDR

The Digital Transformation Data Architecture Challenge

Many organizations use a traditional integration architecture to make data accessible to their digital applications from underlying systems. In this architecture data APIs are typically coupled with the SoRs. With no unified data model and limited cloud integrations, data silos are scattered across multiple SoRs, causing delays in the retrieval of up-to-date data. Digital applications also lack a 360° view of the customer or other relevant business entities. As a result, it is difficult to introduce new competitive digital services that rely on complex enterprise data, and also to protect overloaded SoRs from bottlenecks.

THE DIGITAL TRANSFORMATION DATA ARCHITECTURE CHALLENGE

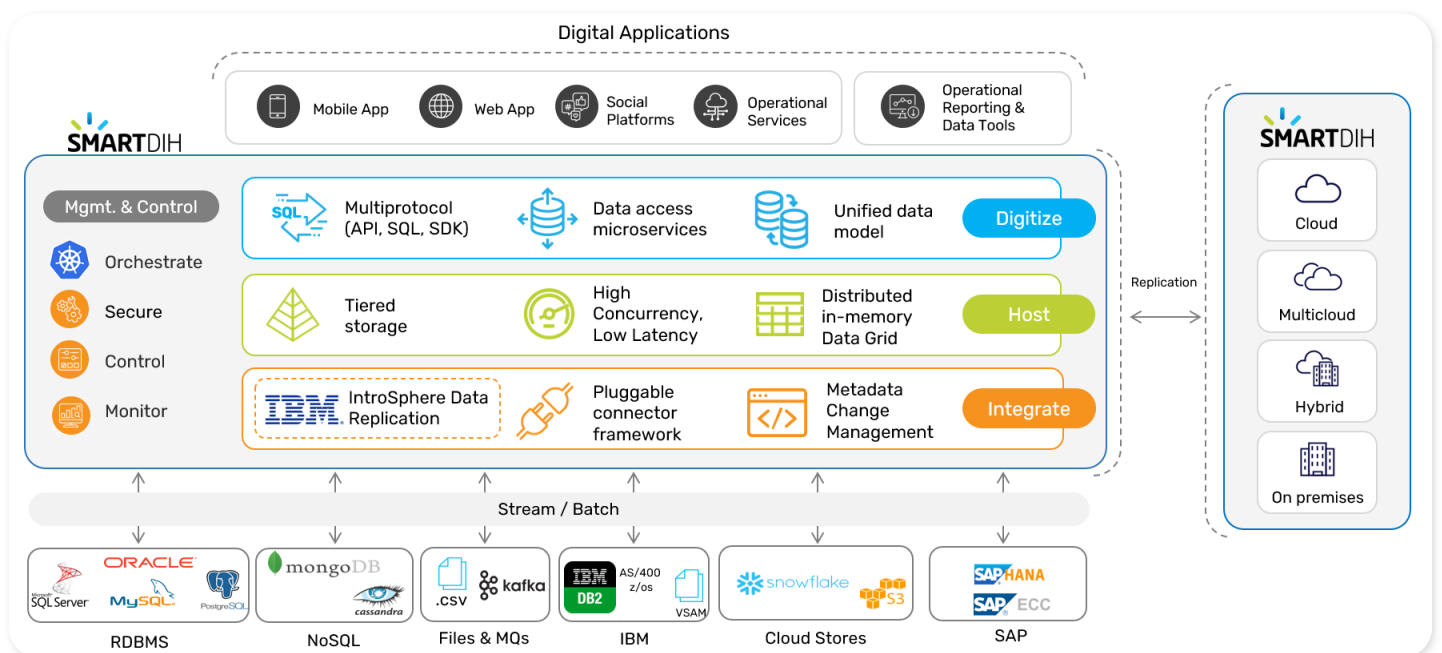
Answering the Data Architecture Challenge with GigaSpaces Smart DIH

Sitting at the intersection of data and application integration, the GigaSpaces Smart DIH, is an operational data hub that accelerates digital innovation by aggregating multiple back-end systems into a low-latency, scalable, high performance data layer that exposes APIs and events to consuming applications and services. By decoupling systems of record from digital applications, Smart DIH enables enterprises to drastically shorten the development and deployment cycle for new digital services, and rapidly scale to serve millions of concurrent users – no matter which IT infrastructure or cloud topologies they rely on – cloud, on-prem or hybrid.

Smart DIH offers extreme in-memory performance, elasticity and scale, business policy-driven tiered storage, low code microservices creation, no-code data source integration, and always-on services.

Ensuring Data is Always up to Date

To ensure data is always synchronized with back-end data stores and is always fresh, GigaSpaces has integrated IBM's Infosphere IIDR data synchronization software. Operating seamlessly with the Smart DIH pluggable connector framework which drives the creation of data pipelines from back-end systems to the Smart DIH highly performant data layer, the IBM Data Replication captures database changes as they occur, ensuring that data is always up to date and continuously fresh.



Smart DIH is available as-a-service, and can be installed on-premises, and hybrid or multi-cloud topologies, accelerating downstream hybrid cloud application development.



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Benefits of GigaSpaces Smart DIH

- ✓ **Leverages an organization's data assets:** with hybrid and multi-cloud environments that **integrate** data from on premises and multi cloud environments - eliminating the need for rip and replace
- ✓ **Integrates core SoRs with new applications and channels running in cloud environments:** offers efficiency and flexibility without disrupting critical business operations
- ✓ **Facilitates digital acceleration:** uses event mediation and aggregation in the interactions between cloud applications and SoRs, resulting in speedy introduction of new data services and the ability to respond quickly to business requirements
- ✓ **Increased efficiency:** simplified and standardized no code and low code construction of data processes and microservices reduce the number of user personas required for launching such processes and maintaining them over time
- ✓ **Provides scale, high throughput and low latency:** uses the GigaSpaces in-memory data grid (IMDG) that serves data to digital applications in near real-time
- ✓ **Unified data model:** reduces the complexity of joining, composing, aggregating, and computing information from multiple SoRs.

Accelerating Enterprise Modernization Initiatives on Hybrid Cloud

Smart DIH provides a centralized platform for data consolidation, transformation, real-time delivery, and integration with analytics. It utilizes IBM IIDR's CDC capabilities, ensuring support for near real-time transactional and operational workloads, as well as operational analytics.

About GigaSpaces

GigaSpaces is building on its in-memory computing and operational data store technologies to offer one of the market's first Operational Data Hubs, an out-of-the-box unified real-time data platform that empowers organizations' digital transformation, by unlocking data that resides in legacy and cloud systems. Whether you need to accelerate one application with cache, or modernize your architecture, GigaSpaces can future-proof your investment. Never before has it been this straightforward to accelerate API-powered digital applications and democratize access to data across your enterprise.

For more information visit www.gigaspace.com.