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Turbocharging iPaaS
How Smart DIH Boosts Application Integration

Boomi and GigaSpaces have seamlessly integrated Boomi's AtomSphere and GigaSpaces Smart DIH, providing a solution that maximizes performance, availability and scalability.
Smart DIH ensures that your Boomi implementation can quickly access all the data it requires, at any time, and in any format.

BUSINESS CHALLENGE

iPaaS solutions offer recognized value for discovering, moving, managing, governing and orchestrating data across application and data repositories. At the same time, the rapid growth in both number and heterogeneity of underlying data sources has exposed some limiting factors with iPaaS implementations:

- Performance is capped by the backend systems and system load; the platform can only perform as well as its poorest performing component.
- To overcome latency issues, iPaaS may use a cache. However, as a cache solution stores recently requested data just for a limited time window (TTL - time to live), the Cache Hit Ratio metric is inconsistent by design, leading to issues with the predictability of performance and data accuracy.
- The iPaaS workload often impacts core business systems by overloading the systems of record during peak demand, leaving these systems less protected.
- Excessive calls can cause the system to reach its maximum capacity, which may result in degraded performance and potential downtime due to system overload.

SOLUTION DESCRIPTION

The GigaSpaces Smart DIH is an out-of-the-box, in-memory Digital Integration Hub (DIH) that decouples and isolates the iPaaS from the underlying data sources and serves the iPaaS-based applications with accurate, fresh and complete data from the systems of record (SoRs).

Smart DIH delivers a high performance, ultra-low latency and an always-on digital experience for iPaaS-dependent applications. Data from various sources is integrated into the Smart DIH's distributed, scalable, in-memory data grid, into a unified data model. This powerful solution offers application leaders responsible for integration architecture a way to improve architectural agility and deliver high-throughput, responsive and reliable APIs, while minimizing the workload hitting their SoRs, providing:

- Efficient and effective data hosting, persistence and management, with event-driven consolidation of different data models from any SoRs
- Ultra-low latency and high concurrency response rates, optimized for highly demanding digital channels according to applicative requirements and cost considerations
- Always-on digital services, even when an SoR is down as they are fed from the highly available replica provided by the Smart DIH
- Architecture that facilitates streamlined development, deployment and maintenance of data services, offering digital acceleration and faster time-to-market for new digital applications

SMARTDIH
supercharges your iPaaS

Ensures ultra low latency and high concurrency response rates

Ensures SmartDIH data is always fresh (thanks to the CDC)

Ensures event-driven consolidation of data models from all SORs