XAP

The In-Memory Computing Platform

GIGASPACES OPEN SOURCE STRATEGY

For the past 16 years, GigaSpaces has been solving some of the toughest mission-critical scenarios and use cases in terms of performance and scalability, ranging from financial trading systems to intelligent call center routing, rail network scheduling and planning.

With the release of XAP version 12, GigaSpaces introduces the core in-memory data grid engine of XAP as an open source edition of the product. Our goal from this move is two-fold: First, to provide the community with a battle-tested and leading in-memory data grid that is capable of addressing mission critical use cases ranging from real-time analytics, to extreme transaction processing, internet of things, and high-performance computing. Second, just as in-memory data grids accelerate performance by an order of magnitude, we strongly believe that opening the core of our platform will accelerate the diversity of scope in our products to serve feature sets to our customers in the fastest and most agile means possible.

Hundreds of GigaSpaces customers have already started to adopt XAP as their primary choice for in-memory computing to better capitalize on high performance computing workloads and cross the chasm from ad-hoc scalability fixes to true real-time digital business. Where it has already been used, the XAP in-memory data grid has reduced TCO by 300x, reduced processing from hours to seconds, and increased business continuity to 100% uptime. Now, with the open source edition of XAP, anyone can test-drive the power of in-memory computing throughout any development and/or staging environment. Once users are ready to deploy their application to production, they can enjoy all the benefits of enterprise-grade monitoring and management, security, high availability, multi-tiered data storage, and cross data center replication through commercial XAP editions.

WHAT PARTS OF XAP ARE BEING OPEN SOURCED?

All of the core XAP data grid API will be available for free in the open source edition. The following is a detailed description of what's available:

- **Space Data Models:** POJOs, Document API, Map, JDBC, JPA, and Memcached API
- **Space Operations and Queries**: Space Interface, SQL Queries, Indexing, and Transaction Support
- **Processing:** Events & Messaging, Task Execution, Remoting, and Aggregators
- **Persistence:** Direct Persistence, Async, Pre-Loading, and Hibernate Support
- **In-Memory Data Grid Core:** Clustering, Replication, Partitioning, and Memory Management

Only commercial editions of XAP will provide:

- Management and monitoring features
- High availability, auto-healing (GSM/GSA), and deployment management features
- Security
- GigaSpaces enterprise-grade support
- Multi-data center replication for disaster recovery (XAP Enterprise)
- MemoryXtend for fast initial data load (XAP Enterprise)

I'M AN EXISTING CUSTOMER, WHAT DOES XAP OPEN SOURCE MEAN FOR ME?

Absolutely nothing changes for our commercial customers. Therefore, if you already have a support contract with GigaSpaces, you will continue receiving the same exemplary support services you have come to expect. Existing customers are welcome to either try out the XAP open source edition, or upgrade to Premium/Enterprise Editions.

HOW CAN I CONTRIBUTE TO THE XAP OPEN SOURCE DATA GRID?

All contributions will be evaluated and approved before being added to the open source code base. First, you'll need to have signed the GigaSpaces Contributor Agreement available at http://xap.github.io. Once signed and accepted, GigaSpaces will consider accepting pull requests from committers.

WHO IS CONTRIBUTING TO XAP OPEN SOURCE?

Principal contributions to the XAP Open Source code base have been carried out by the GigaSpaces R&D team, who have been building XAP for almost a decade. In addition, an active group of GigaSpaces product engineers, partners, and users have been involved in bug fixes and feature enhancement proposals.

HOW DO I OBTAIN SUPPORT FOR GIGASPACES XAP OPEN SOURCE?

XAP Open Source users will enjoy the availability of a development community, comprised of internal GigaSpaces R&D developers as well as public committers, that can address the most critical questions. Users may reach out and engage the community through the channels below:

Developer Forums: http://ask.gigaspaces.org
GitHub: http://xap.github.io
StackOverflow: #gigaspaces
E-mail: oss@gigaspaces.com

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                                                                             + 972-9-952-6751