

# Overview of MarkLogic 9

The best database in the world for data integration is now even better with MarkLogic 9, our most ambitious release yet. MarkLogic 9 includes major new features to improve data integration, security, and manageability—all designed to make integrating data from silos easier and faster, and to ensure that your integrated data is well-governed and managed.



## Faster, Easier Data Integration

MarkLogic 9 introduces a suite of new features that makes data integration easier and more iterative. You can bring all your siloed data – whether relational or non-relational – into a single unified platform and then expose your data however you want. You can view it as documents, as a graph, or as relational data by leveraging the new SQL capabilities. You can even combine models. With this unprecedented multi-model database flexibility, you can better manage the entities and relationships that your business works with.

- **Entity Services** – Provides the means to develop a model and vocabulary to describe real-world concepts, or entities. With Entity Services, you can better manage the messy, changing data from which entities are derived.
- **Optic API** – A revolutionary new query mechanism that unites the relational world and the NoSQL document world by performing joins and aggregates across documents.
- **Template Driven Extraction** – Define a relational lens over your document data, so you can query your data using SQL or the new Optic API. Templates let you specify which parts of documents make up rows in a view.
- **SQL Enhancements** – Integrate data from MarkLogic with existing SQL tools to make Business Intelligence and other functionalities powerful, fast and effective.
- **Data Movement SDK** – The Data Movement SDK is a Java library for applications that need to move large amounts of data into, out of, or within a MarkLogic cluster.



## Industry-Leading Data Security

For over a decade, organizations have run MarkLogic in mission-critical environments, and new security features further solidify MarkLogic's position as the most trusted NoSQL database for data governance. MarkLogic 9 is bigger than that though—it is a major step towards making MarkLogic the most secure database, period.

- **Advanced Encryption** – Protects data from hackers and insider threats using standards-based cryptography, advanced key management, and granular separation of duties.
- **Element Level Security** – Allows specific properties or elements in JSON and XML documents to be hidden from particular users, providing an even more granular level of security than document-level security.
- **Redaction** – Remove specific information such as social security numbers or replace it with other values in JSON and XML documents in order to prevent leakage of sensitive data.



## More Manageable. More Productive.

MarkLogic 9 introduces new features that provide a more unified platform for managing globally distributed MarkLogic database clusters throughout their lifecycles. With a clear picture of the system and improved admin tools, DBAs can increase automation and focus more time on tasks that add value to the business.

- **Ops Director\*** – Eases management for system administrators across multiple clusters, across cloud and on-premises systems, and across production, test and development environments. It is a single pane of glass for an organization's entire MarkLogic infrastructure. (\*Note: The initial release of Ops Director will follow the 9.0-1 server release)
- **Telemetry** – Helps provide better and faster support by automating the data collection process required on most support tickets. When Telemetry is enabled, it collects, encrypts, and sends diagnostic and anonymized system-level information about a MarkLogic cluster to a secure MarkLogic destination.

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## Continued Enhancements

In addition to the many major feature areas, there are many more enhancements in MarkLogic 9, including:

- **Compliance Archive** NEW
- **Azure Cloud Support** NEW
- **Geospatial**
- **Search**
- **Enhanced Tiered Storage**
- **JavaScript**
- **Query Console**
- **Node.js**

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## Getting Started

- [Download the White Paper](#), What's New In MarkLogic 9
- [Download MarkLogic 9](#) from the MarkLogic Developer site
- [Take a MarkLogic University course](#) covering all of what's new or just on the new data integration features

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## About MarkLogic

MarkLogic is the world's best database for integrating data from silos, providing an operational and transactional Enterprise NoSQL database platform that integrates data better, faster, with less cost. Visit [www.marklogic.com](http://www.marklogic.com) for more information.