

MarkLogic 10 Upgrade Accelerator

DATA SHEET

Introduction

Progress® MarkLogic® 10 Upgrade accelerator is designed to help our existing customers put the powerful features of MarkLogic 10 into action and to educate you on the art of the possible with this significant release. MarkLogic 10 is a free upgrade to all customers with an active support contract.

The accelerator starts with a collaboration between the MarkLogic Consulting team and your team to determine which new features apply to your business and how they can best benefit you. Then we will work together to plan and implement your upgrade.

The MarkLogic Consulting team has been working with MarkLogic 10 throughout the product development lifecycle and is uniquely positioned with deep reachback capability to MarkLogic engineering. This ensures our customers will have access to the most extensive and current information to take full advantage of MarkLogic 10.





Gain All the Benefits of MarkLogic 10

MarkLogic 10 includes a variety of robust new features that we can help you take advantage of. The following focus areas highlight some, but not all, of the new capabilities in MarkLogic 10.

- 1 Embedded Machine Learning**

MarkLogic 10 ships with a complete machine-learning toolkit. This enables data scientists to develop and train machine-learning models in MarkLogic. The machine learning modules are deeply embedded into the MarkLogic engine, meaning inference models can be woven into the fabric of our MarkLogic application and run as part of an ACID-compliant transaction, close to the data for optimal performance and under the best-of-breed security of the MarkLogic database. MarkLogic 10 also includes NVIDIA's CUDA libraries, enabling GPU acceleration for machine learning training and execution.
- 2 Entity Level Security in the Triples Index**

In MarkLogic 10, we have extended support for element-level security (ELS) to include the triple index, meaning it can now be leveraged by semantic graphs and SQL. In semantics, individual triples can be protected. In SQL, this allows you to enable column-level security by protecting specific columns in a template driven extraction (TDE).
- 3 JavaScript Engine Upgrade**

MarkLogic Server integrates the Google V8 JavaScript engine, a high-performance open source C++ implementation of JavaScript. In MarkLogic 10, the JavaScript engine has been upgraded and now offers some of the newer ECMAScript 2015 features. This upgrade delivers better overall performance and allows for server side JavaScript.
- 4 Built-In Advanced Security**

MarkLogic Server offers a powerful combination of granular access control, document and element level security, encryption at rest and in transit, external authentication support and auditing, as well as advanced security controls to help meet stringent security requirements and answer regulators.

With the addition of automated provenance tracking, SAML 2.0 and continued enhancements to the role-based access control (RBAC), MarkLogic provides the security that enterprises need. While others move the responsibility for security up the stack, MarkLogic implements data security where it belongs—close to the data.



The Accelerator Process

During the MarkLogic 10 Upgrade accelerator, we will:

- Assess your application architecture and application code for opportunities to leverage new features mentioned above (as well as other new or existing features that will improve your operations).
- Review the current features in use in your MarkLogic implementation, and the business needs being served by your system.
- Determine which new (or existing) features will particularly benefit your organization.
- Provide a much deeper overview of the new features, with a focus on those determined to be most applicable.
- Evaluate your MarkLogic cluster's operational configuration and its optimization for upgrade.
- Identify any upgrade impacts on the organization, processes, and related technologies.
- Deliver an upgrade plan identifying activities, resources, timelines, and a risk mitigation plan.

For customers who would like hands-on technical support to execute the upgrade plan, MarkLogic consulting services offers the most cost-effective, lowest-risk choice. We are available to complete the migration for you or work side-by-side with your technical team, including providing hands-on training, best practice advice, and validation of the implementation.








Get in touch with your account representative
or our professional services team

About Progress

Progress (Nasdaq: PRGS) provides software that enables organizations to develop and deploy their mission-critical applications and experiences, as well as effectively manage their data platforms, cloud and IT infrastructure. As an experienced, trusted provider, we make the lives of technology professionals easier. Over 4 million developers and technologists at hundreds of thousands of enterprises depend on Progress. Learn more at www.progress.com

© 2024 Progress Software Corporation and/or its subsidiaries or affiliates.
All rights reserved. Rev 2024/01 | 1205234492766946

 /progresssw
 /progresssw
 /progresssw
 /progress-sw
 /progress_sw_