

Next-Gen Databases: RDBMS for On-Premises

On-premises deployments of relational databases offer steady innovation for building next-generation apps

2025 CONSTELLATION SHORTLIST

The Constellation ShortList™ presents vendors in different categories of the market relevant to early adopters. In addition, products included in this document meet the threshold criteria for this category as determined by Constellation Research. This Constellation ShortList of vendors for a market category is compiled through conversations with early adopter clients, independent analysis and briefings with vendors and partners.

ABOUT THIS SHORTLIST








Although there is a lot of talk about the use of public cloud, enterprise database loads have been sticky for on-premises deployments. With a major vendor announcing a key piece of ERP automation releasing on-premises in 2023 (with support until at least 2030), crucial applications will run on-premises for longer than expected. At the core of the critical systems are relational databases, which CxOs will now have to plan to run for at least another decade.

At the same time, solutions must run on a more global scale, and CxOs will try to consolidate similar or the same solutions across fewer database installations. Next-generation application needs will be addressed on-premises for reasons including data residency, compliance and performance. This list aims to help CxOs choose the right resources for their needs.

With AI being omnipresent in 2023 and 2024, vendors in this Constellation ShortList had to react as well, practically almost all have offered vector DB support to their offerings. CxOs should look out in 2024 at more AI induced capabilities will be offered by these vendors.

7 SOLUTIONS TO KNOW

Constellation evaluates over 20 solutions categorized in this market. This Constellation ShortList is determined by client inquiries, partner conversations, customer references, vendor selection projects, market share, and internal research.

-  IBM DB2
-  MICROSOFT SQL SERVER
-  MONGODB
-  ORACLE DATABASE
-  SAP ASE
-  SAP HANA
-  TERADATA VANTAGE

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To learn more about Constellation Research Shortlists visit: www.constellationr.com/ShortList



THRESHOLD CRITERIA

Constellation considers the following criteria for these solutions:

- Over 25K production installations of critical applications
- Customers in five or more continents
- Vendor directly present with sales and service in five or more continents
- Public cloud deployment option
- On-premises and public cloud-based deployments (by vendor and/or partner)
- New AI triggered capabilities

BUSINESS THEMES



Data to Decisions



New C-Suite



Technology Optimization

ABOUT CONSTELLATION RESEARCH

As an award-winning Silicon Valley-based strategic advisory and futurist analyst firm, Constellation Research serves leaders and organizations navigating the challenges of digital strategy, business-model disruption and digital transformation. Constellation works closely with solution providers, partners, C-suite executives, board of directors, and its Constellation Executive Network of buy-side leaders to lead the way in research coverage and advise clients how to achieve valuable business results.

FREQUENCY OF EVALUATION

Each Constellation ShortList is updated at least once per year. Updates may occur after six months if deemed necessary.

EVALUATION SERVICES

Constellation clients can work with the analyst and the research team to conduct a more thorough discussion of this ShortList. Constellation can also provide guidance in vendor selection and contract negotiation.



Holger Mueller

Vice President & Principal Analyst

Holger Mueller focuses on the synergies between people and software. As the hand-to-machine ratio radically changes over the next decade (primary factors: age dynamics and technology innovation), enterprises need to find the appropriate balance between changes in a dynamic workforce and the creation and adoption of next-generation applications, all determining the Future of Work and helping enterprises accelerate. Mueller provides strategy and counsel for key clients, including CTOs, CHROs and CIOs as well as investment analysts, VCs, PE firms and technology buyers.

