Operational Data Platforms Buyers Guide

Software Provider and Product Assessment







Bend, Oregon

June 2024

The information contained in this Ventana Research Buyers Guide provides a baseline of knowledge that enterprises can use to evaluate the sophistication of software providers and products in the area of operational data platforms. Our findings are drawn from thorough, research-based analysis of product and customer experience categories that best represent how an enterprise should evaluate software providers.

Nothing in this report or our research is intended to imply that one software provider or product is the right choice for any one particular enterprise. Rather, our goal is to provide an objective rating of software providers and products related to the operational data platforms of this Buyers Guide using our research methodology and blueprint for successful evaluation and selection. We performed this research independent of any external influence, charged no fees for any software provider to participate in the research and invited all relevant providers that met our inclusion criteria. This report includes products generally available as of May 10, 2024.

The complete Buyers Guide report and research is available to be licensed for use across an enterprise or the internet. We provide insights on the technology industry, software categories and providers related to this Buyers Guide to enterprises through our Ventana On-Demand research and advisory service. We also offer assessment services using this research to help discover and provide guidance on software provider selection.

We certify that Ventana Research performed this research to the best of our ability, that the analysis is a faithful representation of our knowledge of software providers and products, and that the ratings are our own.





Operational Data Platforms

Operational data platforms provide an environment for organizing and managing the storage and processing of data generated by applications targeted at business users and decision-makers to run the business, including finance, operations and supply chain, sales, human capital management, customer experience and marketing. In contrast, analytic data platforms are typically deployed to support applications used by data and business analysts to analyze the business.

Operational data platforms include relational and non-relational databases (including NoSQL) as well as the increasing convergence of relational and non-relational approaches. They play a

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fundamental role in enabling enterprises to operate efficiently, to the extent that they are completely dependent upon the platforms to do so. Without operational data platforms, enterprises would be reliant on a combination of paper records, time-consuming manual processes, and huge libraries of physical files to record, process and store business information. The extent to which that is unthinkable highlights the extent to which modern enterprises, and society as a whole, are reliant on operational data platforms.

Data platforms are complemented by data operations platforms and tools, which are used by data professionals to apply agile development, DevOps and lean manufacturing to data production, as well as data intelligence platforms and tools, which facilitate the understanding of how, when and why data is produced and consumed across an enterprise.

Since the 1980s, the operational data platforms market has been dominated by the relational data model and relational database management systems. However,

non-relational data models that pre-date relational, such as the hierarchical model, remain in use today. Recent decades have also seen the proliferation of non-relational data platforms as the use of NoSQL databases using key-value, document and graph models has increased.

Almost all enterprises will ultimately need to use a combination of operational data platforms. The initial adoption of non-relational database offerings is typically driven by the need to serve very specific requirements associated with the individual data model. As such, the various data models continue to be important considerations for non-relational database use cases. However, while a few specialist databases remain, a period of evolution and functional consolidation has resulted in most products supporting multi-model capabilities.



Many non-relational databases are now able to support a combination of data models, blurring the lines between the appropriate use cases. Additionally, non-relational database software providers have also added capabilities and features that have previously been the

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Enterprises use a variety of operational data platforms to fulfill the spectrum of requirements for a myriad of applications.

preserve of the incumbent relational databases, including relational database concepts and even the SQL query language. Furthermore, we have seen adoption driven by requirements that transcend the data model. Developer agility is one such driver, as is horizonal scalability, which is increasingly important given the growing requirement for cloud-agnostic data platforms that support availability and scalability across multiple regions and data centers/cloud providers. One approach does not suit all use cases, and enterprises use a variety of operational data platforms to fulfill the spectrum of requirements for a myriad of applications.

While there have always been general-purpose databases that could be used for both analytic and

operational workloads, traditional architectures have involved the extraction, transformation and loading of data from the operational data platform into an external analytic data platform. This enables the operational and analytic workloads to run concurrently without adversely impacting each other, protecting the performance of both.

This dynamic has been altered by the recent growth in the development of intelligent applications infused with contextually relevant recommendations, predictions and forecasting driven by machine learning (ML) and generative AI (GenAI). The emergence of these intelligent applications impacts requirements for operational data platforms to support real-time analytic functionality, albeit without eradicating the need for complementary analysis of data in a separate analytic data platform. The need for real-time interactivity means that these applications cannot be served by traditional processes that rely on the batch extraction, transformation and loading of data from operational data platforms into analytic data platforms for analysis. Instead, they rely on analysis of data in the operational data platform itself via hybrid data-processing capabilities to accelerate decision-making or improve customer experience. The popularization of GenAl has had a significant impact on the requirements for operational data platforms in the last 18 months, particularly in relation to support for storing and processing vector embeddings. These are multi-dimensional mathematical representations of features or attributes of raw data, which are used to support GenAl-based natural language processing (NLP) and recommendation systems. Vector search can also improve accuracy and trust with GenAl via retrieval-augmented generation, which is the process of retrieving vector embeddings representing factually accurate and up-to-date information from a database and combining it with text automatically generated by a large language model (LLM).



At Ventana Research, we assert that through 2027, more than three-quarters of data platform use cases will have functional requirements that encourage the use of specialized analytic or

operational data platforms. The Operational Data Platforms Buyers Guide reflects this by assessing software providers and products positioned as operational data platforms on their ability to serve the specific requirements of operational use cases. Separately, we have also created the Analytic Data Platforms Buyers Guide, which excludes dedicated operational functionality and data platforms. Additionally, the Data Platforms Buyers Guide assesses a software provider's ability to serve a combination of both operational and analytic workloads with either a single data platform product or a set of data platform products, taking into account the analytic processing capabilities of operational data



platforms, and vice versa. Our assessments also considered whether the functionality in question was available from a software provider in a single offering or as a suite of products or cloud services.

Ventana Research believes a methodical approach is essential to maximize competitiveness. To improve the performance of an enterprise's people, process, information and technology components, it is critical to select the right software provider and product. Many enterprises need to improve in this regard. Our research analysis places fewer than 1 in 5 enterprises (18%) at the highest Innovative level of performance in their use of analytics and data. However, caution is appropriate here — technology improvements alone are not enough to improve the use of data in an enterprise. Doing so requires applying a balanced set of upgrades that include efforts to improve both people skills and processes. The research finds that fewer than 1 in 6 enterprises (15%) are at the highest Innovative level of performance for process in relation to analytics and data, and fewer than 1 in 8 (12%) are at the Innovative level of performance for people.

To be considered for inclusion in the Operational Data Platforms Buyers Guide, a product must be marketed as a general-purpose data platform, database, or database management system. The primary use case for the product should be to support worker- and customerfacing operational applications. The product should provide the following functional areas at a minimum: data persistence, data management, data processing and data query; database administrator functionality; developer functionality; data engineering functionality; and data architect functionality.

This Buyers Guide report evaluates the following software providers which offer products that are considered operational data platforms as we define it: Actian, Aerospike, Aiven, Alibaba Cloud, AWS, Cloudera, Cockroach Labs, Couchbase, DataStax, EDB, Google Cloud, Huawei



Ventana Research Buyers Guide 2024: Operational Data Platforms

Cloud, IBM, InterSystems, MariaDB, Microsoft, MongoDB, Neo4j, Oracle, Percona, PingCAP, PlanetScale, Progress Software, Redis, Salesforce, SAP, ScyllaDB, SingleStore, Tencent Cloud, TigerGraph, VMware by Broadcom and Yugabyte.



Buyers Guide Overview

For over two decades, Ventana Research has conducted market research in a spectrum of areas across business applications, tools and technologies. We have designed the Buyers Guide to provide a balanced perspective of software providers and products that is rooted in an understanding of the business requirements in any enterprise. Utilization of our research



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methodology and decades of experience enables our Buyers Guide to be an effective method to assess and select software providers and products. The findings of this research undertaking contribute to our comprehensive approach to rating software providers in a manner that is based on the assessments completed by an enterprise.

This Ventana Research Buyers Guide: Operational Data Platforms is the distillation of over a year of market and product research efforts. It is an assessment of how well software providers' offerings address enterprises' requirements for operational data platform software. The index is structured to support a request for information (RFI) that could be used in the request for proposal (RFP) process by incorporating all criteria needed to evaluate, select, utilize and maintain relationships with software providers. An effective product and customer experience with a provider can ensure the best long-term relationship and value achieved from a resource and financial investment.

In this Buyers Guide, Ventana Research evaluates the software in seven key categories that are weighted to reflect buyers' needs based on our expertise and research. Five are product-experience related: Adaptability, Capability, Manageability, Reliability, and Usability. In addition, we consider two customer-experience categories: Validation, and Total Cost of Ownership/Return on Investment (TCO/ROI). To assess functionality, one of the components of Capability, we applied the Ventana Research Value Index methodology and blueprint, which links the personas and processes for operational data platforms to an enterprise's requirements.

The structure of the research reflects our understanding that the effective evaluation of software providers and products involves far more than just examining product features, potential revenue or customers generated from a provider's marketing and sales efforts. We believe it is important to take a comprehensive, research-based approach, since making the wrong choice of operational data platform technology can raise the total cost of ownership, lower the return on investment and hamper an enterprise's ability to reach its full performance potential. In addition, this approach can reduce the project's development and



Ventana Research Buyers Guide 2024: Operational Data Platforms

deployment time and eliminate the risk of relying on a short list of software providers that does not represent a best fit for your enterprise.

Ventana Research believes that an objective review of software providers and products is a critical business strategy for the adoption and implementation of operational data platform software and applications. An enterprise's review should include a thorough analysis of both what is possible and what is relevant. We urge enterprises to do a thorough job of evaluating operational data platforms systems and tools and offer this Buyers Guide as both the results of our in-depth analysis of these providers and as an evaluation methodology.



How To Use This Buyers Guide

Evaluating Software Providers: The Process

We recommend using the Buyers Guide to assess and evaluate new or existing software providers for your enterprise. The market research can be used as an evaluation framework to establish a formal request for information from providers on products and customer experience and will shorten the cycle time when creating an RFI. The steps listed below provide a process that can facilitate best possible outcomes.

1. <u>Define the business case and goals.</u>

Define the mission and business case for investment and the expected outcomes from your organizational and technological efforts.

2. Specify the business needs.

Defining the business requirements helps identify what specific capabilities are required with respect to people, processes, information and technology.

3. Assess the required roles and responsibilities.

Identify the individuals required for success at every level of the enterprise from executives to frontline workers and determine the needs of each.

4. Outline the project's critical path.

What needs to be done, in what order and who will do it? This outline should make clear the prior dependencies at each step of the project plan.

5. Ascertain the technology approach.

Determine the business and technology approach that most closely aligns to your enterprise's requirements.

6. Establish software provider evaluation criteria.

Utilize the product experience: Adaptability, Capability, Manageability, Reliability and Usability, and the customer experience in TCO/ROI and Validation.

7. Evaluate and select the technology properly.

Weight the categories in the technology evaluation criteria to reflect your enterprise's priorities to determine the short list of software providers and products.

8. Establish the business initiative team to start the project.

Identify who will lead the project and the members of the team needed to plan and execute it with timelines, priorities and resources.

The Findings

All of the products we evaluated are feature-rich, but not all the capabilities offered by a software provider are equally valuable to types of workers or support everything needed to manage products on a continuous basis. Moreover, the existence of too many capabilities may be a negative factor for an enterprise if it introduces unnecessary complexity. Nonetheless, you may decide that a larger number of features in the product is a plus, especially if some of them match your enterprise's established practices or support an initiative that is driving the purchase of new software.

Factors beyond features and functions or software provider assessments may become a deciding factor. For example, an enterprise may face budget constraints such that the TCO evaluation can tip the balance to one provider or another. This is where the Value Index methodology and the appropriate category weighting can be applied to determine the best fit of software providers and products to your specific needs.

Overall Scoring of Software Providers Across Categories

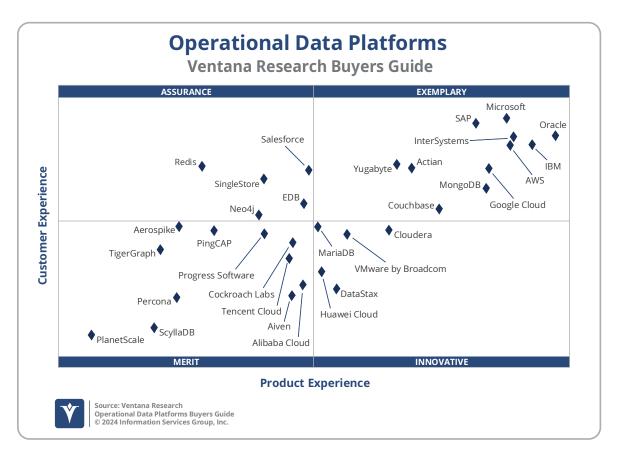
The research finds Oracle atop the list, followed by IBM and Microsoft. Companies that place in the top three of a category earn the designation of Leader. Oracle has done so in five categories, SAP in four, AWS and Microsoft in three, and InterSystems in two. Actian, Google Cloud, IBM and Salesforce were all designated a Leader in one category each.

The overall representation of the research below places the rating of the Product Experience and Customer Experience on the *x* and *y* axes, respectively, to provide a visual representation and classification of the software providers. Those providers whose Product Experience have a higher weighted performance to the axis in aggregate of the five product categories place farther to the right, while the performance and weighting for the two Customer Experience categories determines placement on the vertical axis. In short, software

/endors	Grade	Performan	ce
Oracle	A-	Leader	87.0%
IBM	A-	Leader	85.5%
Microsoft	A-	Leader	85.0%
InterSystems	A-		84.9%
AWS	A-		84.6%
SAP	A-		83.2%
Google Cloud	A-		82.3%
MongoDB	A-		81.5%
Couchbase	B++		76.3%
Actian	B++		76.1%
Yugabyte	B++		75.5%
Cloudera	B+		72.6%
VMware by Broadcom	B+		69.2%
Salesforce	В		68.6%
EDB	В		56.9%
MariaDB	В	(66.8%
Huawei Cloud	В	(56.8%
DataStax	В	(56.5%
SingleStore	В	(66.3%
Alibaba Cloud	В	6	5.3%
Cockroach Labs	В	6	5.3%
Tencent Cloud	В	6	4.7%
Neo4j	В	6	4.7%
Aiven	В	6	4.4%
Progress Software	В	6	4.3%
Redis	В	62	2.9%
PingCAP	B-	60	.8%
Aerospike	B-	59	.6%
TigerGraph	B-	56.	5%
Percona	C++	56.	1%
ScyllaDB	C++	53.7	%
PlanetScale	C+	48.7%	

providers that place closer to the upper-right on this chart performed better than those closer to the lower-left.

The research places software providers into one of four overall categories: Assurance, Exemplary, Merit or Innovative. This representation classifies providers' overall weighted performance.



Exemplary: The categorization and placement of software providers in Exemplary (upper right) represent those that performed the best in meeting the overall Product and Customer Experience requirements. The providers rated Exemplary are: Actian, AWS, Couchbase, Google Cloud, IBM, InterSystems, Microsoft, MongoDB, Oracle, SAP and Yugabyte.

Innovative: The categorization and placement of software providers in Innovative (lower right) represent those that performed the best in meeting the overall Product Experience requirements but did not achieve the highest levels of requirements in Customer Experience. The providers rated Innovative are: Cloudera, DataStax, Huawei Cloud, MariaDB and VMware by Broadcom.

Assurance: The categorization and placement of software providers in Assurance (upper left) represent those that achieved the highest levels in the overall Customer Experience requirements but did not achieve the highest levels of Product Experience. The providers rated Assurance are: EDB, Neo4j, Redis, Salesforce and SingleStore.



Merit: The categorization of software providers in Merit (lower left) represents those that did not exceed the median of performance in Customer or Product Experience or surpass the threshold for the other three categories. The providers rated Merit are: Aerospike, Aiven, Alibaba Cloud, Cockroach Labs, Percona, PingCAP, PlanetScale, Progress Software, ScyllaDB, Tencent Cloud and TigerGraph.

We warn that close provider placement proximity should not be taken to imply that the packages evaluated are functionally identical or equally well suited for use by every enterprise or for a specific process. Although there is a high degree of commonality in how enterprises handle operational data platforms, there are many idiosyncrasies and differences in how they do these functions that can make one software provider's offering a better fit than another's for a particular enterprise's needs.

We advise enterprises to assess and evaluate software providers based on organizational requirements and use this research as a supplement to internal evaluation of a provider and products.



Product Experience

The process of researching products to address an enterprise's needs should be comprehensive. Our Value Index methodology examines Product Experience and how it aligns

with an enterprise's life cycle of onboarding, configuration, operations, usage and maintenance. Too often, software providers are not evaluated for the entirety of the product; instead, they are evaluated on market execution and vision of the future, which are flawed since they do not represent an enterprise's requirements but how the provider operates. As more software providers orient to a complete product experience, evaluations will be more robust.

The research based on the methodology of expertise identified the weighting of Product Experience to 80% or four-fifths of the overall rating. Importance was placed on the categories as follows: Usability (10%), Capability (25%), Reliability (15%), Adaptability (15%) and Manageability (15%). This weighting impacted the resulting overall ratings in this research. Oracle, IBM, and InterSystems were designated Product Experience Leaders. While not Leaders, AWS and Microsoft were also found to meet a broad range of enterprise operational data platform requirements.

Many enterprises will only evaluate capabilities for workers in IT or administration, but the research identified the criticality of Usability (10% weighting) across a broader set of usage personas that should participate in operational data platforms.

Vendors	Grade	Performan	ce
Oracle	Α	Leader	70.2%
IBM	A-	Leader	68.9%
InterSystems	A-	Leader	68.2%
AWS	A-		68.0%
Microsoft	A-		67.7%
Google Cloud	A-		66.6%
MongoDB	A-		66.3%
SAP	A-		66.1%
Couchbase	B++		62.0%
Actian	B++		60.3%
Yugabyte	B+		59.6%
Cloudera	B+		58.9%
VMware by Broadcom	B+		55.6%
DataStax	В		54.0%
Huawei Cloud	В		53.8%
MariaDB	В	5	3.0%
Salesforce	В	i.	2.9%
Alibaba Cloud	В		2.7%
EDB	В	5	2.4%
Aiven	В	5	2.0%
Cockroach Labs	В	5	1.8%
Tencent Cloud	В	5	1.7%
SingleStore	В	5	0.9%
Progress Software	В	5	0.6%
Neo4j	В	50	0.5%
Redis	B-	47.	.2%
PingCAP	B-	47.	1%
Aerospike	B-	45.4	4%
Percona	C++	44.4	! %
TigerGraph	C++	43.2	%
ScyllaDB	C++	42.7	%
PlanetScale	C+	37.8%	



Customer Experience

The importance of a customer relationship with a software provider is essential to the actual success of the products and technology. The advancement of the Customer Experience and

the entire life cycle an enterprise has with its software provider is critical for ensuring satisfaction in working with that provider. Technology providers that have chief customer officers are more likely to have greater investments in the customer relationship and focus more on their success. These leaders also need to take responsibility for ensuring this commitment is made abundantly clear on the website and in the buying process and customer journey.

Our Value Index methodology weights Customer Experience at 20% of the overall rating, or one-fifth, as it relates to the framework of commitment and value to the software provider-customer relationship. The two evaluation categories are Validation (10%) and TCO/ROI (10%), which are weighted to represent their importance to the overall research.

The software providers that evaluated the highest overall in the aggregated and weighted Customer Experience categories are Microsoft, SAP and Oracle. These category leaders best communicate commitment and dedication to customer needs. While not Leaders, InterSystems, AWS and IBM were also found to meet a broad range of enterprise operational data platform requirements.

Some software providers evaluated did not have sufficient information available through their

Operational Data Platforms Customer Experience Vendors Grade Performance Microsoft Leader 17.2% SAP Leader 17.1% 16.8% Oracle InterSystems A-**AWS** A-IBM A-B++ Yugabyte Actian B++ Google Cloud B++ Redis B++ Salesforce B++ SingleStore B++ MongoDB B++ EDB B+ Couchbase B+ R+ Aerospike MariaDB B+ PingCAP В R Cloudera Progress Software В В VMware by Broadcom Cockroach Labs В TigerGraph R R Tencent Cloud Huawei Cloud В В Alibaba Cloud DataStax B-Aiven B-Percona B-ScyllaDB C++ PlanetScale Source: Ventana Research onal Data Platforms Buyers Guide

website and presentations. While many have customer case studies to promote success, others lack depth in articulating their commitment to customer experience and an enterprise's operational data platforms journey. As the commitment to a software provider is a continuous investment, the importance of supporting customer experience in a holistic evaluation should be included and not underestimated.



Appendix: Software Provider Inclusion

For inclusion in the Ventana Research 2024 Data Platforms Buyers Guide, a provider must be in good standing financially and ethically, sell products and provide support on at least two continents, and have at least \$100 million in annual or projected revenue, or at least 50 customers. The principal source of the relevant business unit's revenue has to be software-related and there must have been at least one major software release in the last 12 months. The product must be marketed as a data platform, database, database management system, data warehouse, data lake or data lakehouse and the primary use case for the product should be to support worker- and customer-facing operational applications (such as financial, resource planning, human resources, customer management/experience, ecommerce or supply chain) and/or analytics workloads (business intelligence or data science). The provider must have a product that provides the following functional areas at a minimum, which are mapped into Buyers Guide capability criteria:

- Core database functionality (data persistence, management, processing, and query)
- Database administrator functionality
- Developer functionality
- Data engineer functionality
- Data architect functionality

The research is designed to be independent of the specifics of software provider packaging and pricing. To represent the real-world environment in which businesses operate, we include providers that offer suites or packages of products that may include relevant individual modules or applications. If a software provider is actively marketing, selling and developing a product for the general market and it is reflected on the provider's website that the product is within the scope of the research, that provider is automatically evaluated for inclusion.

All software providers that offer relevant operational data platform products and meet the inclusion requirements were invited to participate in the evaluation process at no cost to them.

Software providers that meet our inclusion criteria but did not completely participate in our Buyers Guide were assessed solely on publicly available information. As this could have a significant impact on classification and ratings, we recommend additional scrutiny when evaluating those providers.



Products Evaluated

Provider	Product Names	Version	Release Month/Year
Actian	Actian Ingres	11.2	May 2022
Aerospike	Aerospike Platform	7	March 2024
Aiven	Aiven for PostgreSQL	16.2	February 2024
Alibaba Cloud	Alibaba Cloud PolarDB for PostgreSQL	14.10.19.0	April 2024
AWS	Amazon Relational Database Service	16.2	February 2024
Cloudera	Cloudera Data Platform	March 2024	March 2024
Cockroach Labs	Cockroach Labs CockroachDB	23.2.4	April 2024
Couchbase	Couchbase Capella	April 2024	April 2024
DataStax	DataStax Astra DB	March 2024	Ma noh a20124
EDB	EDB BigAnimal	April 2024	April 2024
Google Cloud	Google AlloyDB for PostgreSQL	April 2024	April 2024
Huawei Cloud	Huawei Cloud RDS for PostgreSQL	8.1.3	December 2023
IBM	IBM Db2	11.5.9	March 2024
InterSystems	InterSystems IRIS	2024.1	ApriApd24
MariaDB	MariaDB Enterprise Server	10.6.17-12	March 2024
Microsoft	Microsoft Azure SQL	April 2024	April 2024
MongoDB	MongoDB Atlas	April 2024	April 2024
Neo4j	Neo4j AuraDB	April 2024	April 2024
Oracle	Oracle Autonomous Database	April 2024	April 2024

Ventana Research Buyers Guide 2024: Operational Data Platforms

Percona	ercona Percona for PostgreSQL		February 2024
PingCAP	PingCAP TiDB Cloud	April 2024	April 2024
PlanetScale	PlanetScale	April 2024	April 2024
Progress Software	Progress MarkLogic Server	11.2.0	April 2024
Redis	Redis Cloud	April 2024	April 2024
Salesforce	Salesforce Data Cloud	Summer '24	May 2024
SAP	SAP HANA Cloud	QRC 1/2024	March 2024
ScyllaDB	ScyllaDB Cloud	April 2024	April 2024
SingleStore	SingleStore Helios	8.5	April 2024
Tencent Cloud	TencentDB for PostgreSQL	February 2024	February 2024
TigerGraph	TigerGraph Cloud, TigerGraphDB	3.10.0	May 2024
VMware by Broadcom	VMware Postgres	16.2	February 2024
Yugabyte	Yugabyte YugabyteDB	2.20.3.0	April 2024



Providers of Promise

We did not include software providers that, as a result of our research and analysis, did not satisfy the criteria for inclusion in this Buyers Guide. These are listed below as "Providers of Promise."

Provider	Product	Annual Revenue over \$100M	Operates in 2 countries	At least 50 customers
ClickHouse	ClickHouse	No	Yes	No
Imply	Imply Polaris	No	Yes	No



About Ventana Research

Ventana Research, now part of Information Services Group, provides authoritative market research and coverage on the business and IT aspects of the software industry. We distribute research and insights daily through the Ventana Research community, and we provide a portfolio of consulting, advisory, research and education services for enterprises, software and service providers, and investment firms. Our premiere service, Ventana On-Demand (VOD), provides structured education and advisory support with subject-matter expertise and experience in the software industry. Ventana Research Buyers Guides support the RFI/RFP process and help enterprises assess, evaluate and select software providers through tailored Assessment Services and our Value Index methodology. Visit www.ventanaresearch.com to sign up for free community membership with access to our research and insights.

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