Data Observability Buyers Guide

2023 Vendor and Product Assessment





Bend, Oregon

October 2023

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

Nothing in this report and our research is intended to imply that one vendor or product is the right choice for any one particular organization. Rather, our goal is to provide an objective ranking and rating of vendors and products related to the topic 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 technology vendor to participate in the research and invited all relevant vendors that met our inclusion criteria. This report includes products generally available as of August 30, 2023.

The complete Buyers Guide report and research is available to be licensed for use across an organization or the Internet. We provide insights on the technology industry, software categories and vendors related to this Buyers Guide to organizations through our Ventana On-Demand research and advisory service. We also offer assessment services using this research to help discover and provide guidance on vendor 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 vendors and products, and that the ranking and ratings are our own.





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Data Observability

The need to monitor the pipelines and processes in data-processing and analytics environments has driven the emergence of a new category of software: data observability.



Data observability software provides an environment for monitoring the quality and reliability of data used for analytics and governance projects.

Inspired by the observability platforms that provide an environment for monitoring metrics, traces and logs to track application and infrastructure performance, data observability software provides an environment for monitoring the quality and reliability of data used for analytics and governance projects.

There has been a Cambrian explosion of data observability software vendors in recent years and while each is slightly different, they also have fundamental capabilities in common. To monitor and measure anything, it must first be instrumented, so a baseline requirement for data observability software

is that it collects and measures metrics from data pipelines, data warehouses, data lakes and other data-processing platforms.

Data observability software also collects, monitors and measures information on data lineage (dependencies between data), metadata (describing the attributes of the data, such as its age, volume, format, schema), and logs of human- or machine-based interaction with the data. In addition to collecting and monitoring this information, some data observability software also enables the creation of models that can be applied to the various metrics, logs, dependencies and attributes to automate the detection of anomalies.

Data observability software may also offer root cause analysis and the provision of alerts, explanations and recommendations to enable data engineers and data architects to accelerate the correction of issues.

Data observability addresses one of the most significant impediments to generating value from data. Maintaining data quality and trust is a perennial data management challenge, often preventing organizations from operating at the speed of business. Almost two-thirds (64%) of participants in Ventana Research's Analytics and Data Benchmark Research cite

reviewing data for quality and consistency issues as the most time-consuming task in analyzing data.



As organizations aspire to be more data-driven, it is critical to trust the data used to make those decisions.

The importance of trust in data has arguably never been greater. As organizations aspire to be more data-driven, it is critical to trust the data used to make those decisions. Without data quality processes and tools, organizations may make decisions based on old, incomplete, incorrect or poorly organized data. Assessing the quality of data used to make business decisions is not only more important than ever but also increasingly difficult given the growing range of data sources and the volume of data that

needs to be evaluated. Poor data quality processes can result in security and privacy risks as well as unnecessary data storage and processing costs due to data duplication.

Monitoring the quality and reliability of data used for analytics and governance projects is not a new challenge. Data quality software has been extant for decades. Organizations that have made investments in data quality might reasonably ask whether they need data observability, while those that have invested in data observability might wonder whether they can eschew traditional data quality tools.

To understand the difference between data quality and data observability it is important to recognize data quality is both a discipline and a product category. As a discipline, data quality refers to the processes, methods and tools used to measure the suitability of a dataset for a specific purpose. The precise measure of suitability will depend on the individual use case, but important characteristics include accuracy, completeness, consistency, timeliness and validity. The data quality product category is comprised of the tools used to evaluate data in relation to these characteristics.

Data observability, meanwhile, has emerged as a separate product category. It includes software focused on automating the monitoring of data to assess its health based on key attributes including freshness, distribution, volume, schema and lineage.

The use of automation expands the volume of data that can be monitored while also improving efficiency compared to manual data monitoring and management by automating data quality checks and recommended remediation actions. As such, automation is often cited as a distinction between data observability and data quality software. Focusing on automation as a distinction, however, relies on an outdated view of data quality software.

Although data quality software has historically provided users with an environment to manually check and correct data quality issues, the use of machine learning (ML) to automate the monitoring of data is also being integrated into data quality tools and platforms. Automating data monitoring ensures it is complete, valid and consistent as well as relevant and free from duplication. Automation using ML is not, therefore, a defining characteristic that separates data quality from data observability.

A clearer distinction can be drawn from the scope and focus of the functionality. Data quality software is concerned with the suitability of the data to a given task. In comparison, data observability is concerned with the reliability and health of the overall data environment.



Data observability tools monitor not just the data in an individual environment for a specific purpose at a given point in time, but also the associated upstream and downstream data pipelines.

Data observability tools monitor not just the data in an individual environment for a specific purpose at a given point in time, but also the associated upstream and downstream data pipelines. In doing so, data observability software ensures that data is available and up to date, avoiding downtime caused by lost or inaccurate data due to schema changes, system failures or broken data pipelines.

To put it another way, while data quality software is designed to help users identify and resolve data quality problems, data observability software is designed to automate the detection and identification of the causes of data quality problems, potentially enabling users to prevent data quality issues before they occur.

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The two are largely complementary. For example, when the data being assessed remains consistent, data quality tools might not detect a failed pipeline until the data has become out of date. Data observability tools could detect the failure long before the data quality issue arises. Conversely, a change in address might not be identified by data observability tools if the new information adhered to the correct schema. It could be detected — and remediated — using data quality tools.

The reciprocal nature of data quality and data observability software products is supported by the fact that some vendors offer products in both categories while others offer products that could be said to offer functionality associated with both data observability and data quality. In addition to the emergence of standalone data observability software specialists, we also see this functionality being included in wider DataOps platforms. This is a trend we



expect to continue. Through 2025, data observability will continue to be a priority for the evolution of data operations products as vendors deliver more automated approaches to data engineering and improving trust in enterprise data.



The relative immaturity of the market for data observability software means that it is difficult for organizations today to evaluate potential suppliers.

The relative immaturity of the market for data observability software means that it is difficult for organizations today to evaluate potential suppliers. Only a handful of vendors met the inclusion criteria for this Buyer's Guide, while there is a very long list of Vendors of Note that were considered. Many of the emerging vendors are likely to be acquired while a few will fall by the wayside. That should not stop organizations from evaluating the potential benefits of data observability, however. It has a critical role to play in evaluating the performance and reliability of data pipelines, as well as the quality and validity of data, to deliver the benefits of investment in data and analytics.

The evolution of data observability is still in its early stages. Potential adopters of data observability are advised to pay close attention and evaluate purchases carefully. Some data observability products offer quality resolution and remediation functionality traditionally associated with data quality software, albeit not to the same depth and breadth. Additionally, some vendors previously associated with data quality have adopted the term data observability but may lack the depth and breadth of pipeline monitoring and error detection capabilities.

This research evaluates the following vendors that offer products that address key elements of data observability as we define it: Acceldata, Collibra, DataKitchen, IBM, Monte Carlo, Precisely and Stonebranch.

Buyers Guide Overview

For over two decades, Ventana Research has conducted market research in a spectrum of areas across business applications, tools and technologies. Ventana Research has designed

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Ventana Research has designed the Buyers Guide to provide a balanced perspective of vendors and products that is rooted in an understanding of business requirements in any organization.

the Buyers Guide to provide a balanced perspective of vendors and products that is rooted in an understanding of the business requirement in any organization. Utilization of our research methodology and decades of experience enables our Buyers Guide to be an effective method to assess and select technology vendors and products. The findings of this research undertaking contribute to our comprehensive approach to rating vendors in a manner that is based on the assessments completed by an organization.

This Ventana Research Buyers Guide: Data Observability is the distillation of over a year of market and product research efforts. It is an assessment of how well vendors' offerings will address organizations requirements for data observability software. The index is structured to

support a request for information (RFI) that could be used in the RFP process by incorporating all criteria needed to evaluate, select, utilize and maintain relationships with technology vendors. An effective product and customer experience with a technology vendor 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 and 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 data observability to an organization's requirements.

The structure of the research reflects our understanding that the effective evaluation of vendors and products involves far more than just examining product features, potential



revenue or customers generated from a vendor's marketing and sales efforts. We believe it is important to take a comprehensive research-based approach, since making the wrong choice of a data observability technology can raise the total cost of ownership, lower the return on investment and hamper an organization's ability to reach its potential performance. In addition, this approach can reduce the project's development and deployment time and eliminate the risk of relying on a short list of vendors that does not represent a best fit for your organization.

To ensure the accuracy of the information we collected, we asked participating vendors to provide product and company information across the seven product and customer experience categories that, taken together, reflect the concerns of a well-crafted RFI.



Ventana Research believes that an objective review of vendors and products is a critical business strategy for the adoption and implementation of software. Ventana Research then validated the information, first independently through our database of product information and extensive web-based research, and then in consultation with the vendors. Most selected vendors also participated in a one-on-one session providing an overview and demonstration, after which we requested they provide additional documentation to support any new input.

Ventana Research believes that an objective review of vendors and products is a critical business strategy for the adoption and implementation of data observability software and applications. An organization's review should include a thorough

analysis of both what is possible and what is relevant. We urge organizations to do a thorough job of evaluating data observability systems and tools and offer this Buyers Guide as both the results of our in-depth analysis of these vendors and as an evaluation methodology.



How To Use This Buyers Guide

Evaluating Vendors: The Process

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

- Define the business case and goals.
 Define the mission and business case for investment and the expected outcomes from your organizational and technology efforts.
- 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 organization from executives to front line 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.
- Ascertain the technology approach.
 Determine the business and technology approach that most closely aligns to your organization's requirements.
- 6. <u>Establish technology vendor evaluation criteria.</u>
 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 organization's priorities to determine the short list of vendors 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 technology vendor 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 organization 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 organization's established practices or support an initiative that is driving the purchase of new software.

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

Overall Scoring of Vendors Across Categories

The research finds Monte Carlo atop the list, followed by IBM and Acceldata. Companies that place in the top three of a category earn the designation of Leader. IBM and Monte

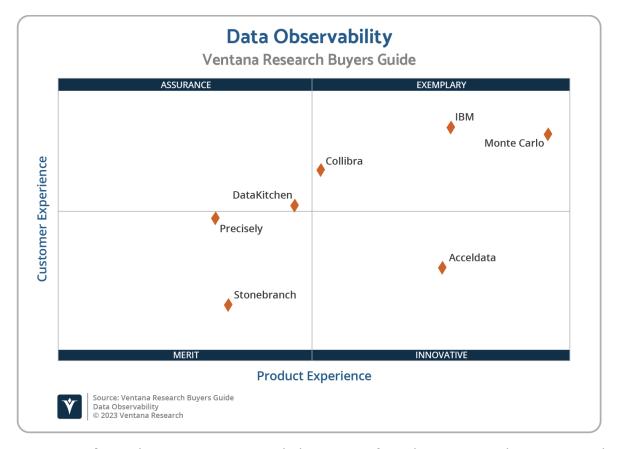
Carlo have done so in all of the seven categories; Acceldata in four; Collibra in two and Precisely in one category.

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 vendors. Those vendors whose Product Experience have a higher weighted

Overall				
Vendors	Grade	Performance		
Monte Carlo	A-	Leader	84.5%	
IBM	B++	Leader	78.0%	
Acceldata	B+	Leader	72.5%	
Collibra	В	66.7%		
DataKitchen	В	63.8%		
Precisely	B-		58.1%	
Stonebranch	C++	5	5.8%	

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 their placement on the vertical axis. In short, vendors that place closer to the upper-right on this chart performed better than those closer to the lower-left.

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



Exemplary: The categorization and placement of vendors in Exemplary (upper right) represent those that performed the best in meeting the overall Product and Customer Experience requirements. The vendors awarded Exemplary are: Collibra, IBM and Monte Carlo.

Innovative: The categorization and placement of vendors 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 vendor awarded Innovative is: Acceldata.

Assurance: The categorization and placement of vendors 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 vendor awarded Assurance is: DataKitchen.

Merit: The categorization for vendors in Merit (lower left) represent those that did not exceed the median of performance in Customer or Product Experience or surpass the threshold for the other three categories. The vendors awarded Merit are: Precisely and Stonebranch.

We warn that close vendor placement proximity should not be taken to imply that the packages evaluated are functionally identical or equally well suited for use by every organization or for a specific process. Although there is a high degree of commonality in how organizations handle data observability, there are many idiosyncrasies and differences



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in how they do these functions that can make one vendor's offering a better fit than another's for a particular organization's needs.

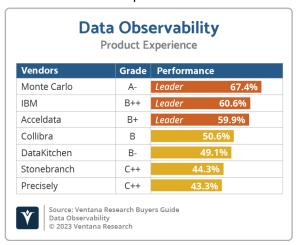
We advise organizations to assess and evaluate vendors based on their requirements and use this research as a reference to their own evaluation of a vendor and products.



Product Experience

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

aligns with an organization's life cycle of onboarding, configuration, operations, usage and maintenance. Too often, vendors are not evaluated for the entirety of the products; instead, they are evaluated on market execution and vision of the future, which are flawed since they do not represent an organization's requirements but how the vendor operates. As more vendors orient to a complete product experience, the more robust of an evaluation can be conducted.



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 (20%), Capability (25%), Reliability (10%), Adaptability (15%) and Manageability (10%). This weighting impacted the resulting overall ratings in this research. Monte Carlo, IBM and Acceldata were designated Product Experience Leaders as a result of their top-ranked weighted performance. Collibra also performed well, particularly in relation to Adaptability.

Many organizations will only evaluate capabilities for those in IT or administration, but the research identified the criticality of Usability (20% weighting) across a broader set of usage personas that should participate in data observability.



Customer Experience

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

entire life cycle an organization has with its vendor is critical for ensuring satisfaction in working with that vendor. Technology providers that have Chief Customer Officers area 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 the marketing of their commitment is made abundantly clear on website and in the buying process and customer journey.

Vendors	Grade	Grade Performance			
IBM	A-	Leader	17.3%		
Monte Carlo	A-	Leader	17.1%		
Collibra	B++	Leader	15.9%		
DataKitchen	B+		14.6%		
Precisely	B+		14.6%		
Acceldata	В		12.7%		
Stonebranch	B-	11	1.5%		

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 vendor-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 vendors that evaluated the highest overall in the aggregated and weighted Customer Experience categories are IBM, Monte Carlo and Collibra, with IBM and Monte Carlo receiving A- grades and Collibra receiving a B++. These category leaders in Customer Experience best communicate their commitment and dedication to customer needs.

Several vendors we evaluated did not have sufficient information available through their website and presentations. While many have customer case studies to promote their success, some lack depth on their commitment to an organizations' journey to data observability. This makes it difficult for organizations to evaluate vendors on the merits of their commitment to customer success. As a result, some of the vendors' performances evaluated lower. As the commitment to a vendor is a continuous investment, the importance of supporting customer experience in a holistic evaluation should be included and not underestimated.

Appendix: Vendor Inclusion

For inclusion in the Ventana Research Data Observability Buyers Guide for 2023, a vendor must be in good standing financially and ethically, have at least \$10 million in annual or projected revenue verified using independent sources, or have at least 75 employees, and sell products and provide support on at least two continents. The principal source of the relevant business unit's revenue must be software-related and there must have been at least one major software release in the last 18 months. The vendor must provide a product that supports agile and collaborative data operations and is marketing themselves or products as one of the following: a DataOps tool or platform; a data orchestration tool or platform; a data observability tool or platform. The research is designed to be independent of the specifics of vendor packaging and pricing. To represent the real-world environment in which businesses operate, we include vendors that offer suites or packages of products that may include relevant individual modules or applications. If a vendor is actively marketing, selling and developing a product for the general market and is reflected on its website that it is within the scope of the research, that vendor is automatically evaluated for inclusion.

All vendors that offer relevant data observability products and meet the inclusion requirements were invited to participate in the research evaluation process at no cost to them.

Two of the 7 vendors responded positively to our requests for additional information and provided completed questionnaires and demonstrations to help in our evaluation of their data observability products. We categorize participation as follows:

Complete participation: The following vendors actively participated and provided completed questionnaires and demonstrations to help in our evaluation of their product: Acceldata and Monte Carlo.

Partial participation: The following vendor provided limited information to help in our evaluation: DataKitchen.

No participation: The following vendors provided no information or did not respond to our request: Collibra, IBM, Precisely and Stonebranch.

Vendors 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 their classification and rating, we recommend additional scrutiny when evaluating those vendors.

Products Evaluated

	S 1		Release	Participation
Vendor	Product Names	Version	Month/Year	Status
Acceldata	Data Observability Cloud	2.7.0	May 2023	Complete
Collibra	Data Intelligence Cloud, Data Quality & Observability	2023.04	April 2023	None
DataKitchen	DataKitchen Platform (DataOps Automation; DataOps Observability, DataOps TestGen)	1.1.275; 1.481; 0.2.0	July 2023	Partial
IBM	IBM Data Observability by Databand	1.0.12	September 2022	None
Monte Carlo	Monte Carlo Data Observability Platform	June 30	June 2023	Complete
Precisely	Precisely Data Integrity Suite - Data Observability	2023 July	July 2023	None
Stonebranch	Universal Automation Center	7.4	May 2023	None

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Vendors of Note

There is a very large and growing number of vendors in the DataOps software segment. We did not include vendors that, as a result of our research and analysis, did not satisfy the criteria for inclusion in the Buyer's Guide.

Most of the vendors that did not meet our inclusion criteria were excluded based on size (either revenue and/or number of employees). Inclusion criteria validation was completed to the best of our ability using information publicly available or through our research.

Other vendors were excluded based on product suitability: either their products only addressed the orchestration or observability of data stored in a data platform rather than all upstream and downstream stages of a data pipeline, or at the time of evaluation they did not have a generally available product marketed as a tool or platform for data pipeline development, data orchestration or data observability (although some subsequently now do). Others were excluded based on having no published documentation, making it impossible to evaluate the capabilities of the product.

We did not include vendors that, as a result of our research and analysis, did not satisfy the criteria for inclusion in the Buyers Guide. These are listed below as "Vendors of Note."

		At least \$10 million	At least 75	Product	
Vendor	Product	revenue	employees	suitability	Documentation
Anomalo	Anomalo	No	No	Yes	Yes
Ascend	Ascend Data Automation	No	No	Yes	Yes
	Cloud				
Ataccama	Ataccama ONE	Yes	Yes	No	Yes
Bigeye	Bigeye	No	No	Yes	Yes
Data Culpa	Data Culpa Validator	No	No	Yes	Yes
Datafold	Datafold	No	No	Yes	Yes
DataOps.live	Dataops.live	No	No	Yes	Yes
Datorios	Datorios	No	No	Yes	Yes

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DQLabs	DQLabs Platform	No	No	Yes	Yes
Elementl	Dagster	No	No	Yes	Yes
FirstEigen	DataBuck	No	No	Yes	Yes
Great Expectations	Great Expectations	No	No	Yes	Yes
Informatica	Informatica Intelligent Data Management Cloud	Yes	Yes	No	Yes
Integrate.io	Data Observability	No	No	No	Yes
Kensu	Kensu	No	No	Yes	Yes
Lightup	Lightup	No	No	Yes	Yes
Masthead	Masthead	No	No	Yes	Yes
Meltano	Meltano	No	No	Yes	Yes
Metaplane	Metaplane	No	No	Yes	Yes
Mozart Data	Mozart Data	No	No	Yes	Yes
Nexla	Nexla	No	No	Yes	Yes
Palantir	Foundry	Yes	Yes	No	Yes
RightData	Dextrus, RDt	No	No	Yes	Yes
Saturam	Qualdo, Piperr	No	Yes	Yes	No
Shipyard	Shipyard	No	No	Yes	Yes
Sifflet	Sifflet	No	No	Yes	Yes
Soda	Soda Team, Soda Enterprise	No	No	Yes	Yes

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Talend	Talend Data Fabric	Yes	Yes	No	Yes
Telm.ai	Telm.ai	No	No	Yes	Yes
Torana	iceDQ	No	Yes	Yes	No
Validio	Validio	No	No	Yes	Yes

About Ventana Research

Ventana Research is the most authoritative and respected benchmark business technology research and advisory services firm. We provide insight and expert guidance on mainstream and disruptive technologies through a unique set of research-based offerings including Benchmark Research and technology evaluation assessments, education workshops and our research and advisory services, Ventana On-Demand. Our unparalleled understanding of the role of technology in optimizing business processes and performance and our best practices guidance are rooted in our rigorous research-based benchmarking of people, processes, information and technology across business and IT functions in every industry. This Benchmark Research plus our market coverage and in-depth knowledge of hundreds of technology providers means we can deliver education and expertise to our clients to increase the value they derive from technology investments while reducing time, cost and risk.

Ventana Research provides the most comprehensive analyst and research coverage in the industry; business and IT professionals worldwide are members of our community and benefit from Ventana Research's insights, as do highly regarded media and association partners around the globe. Our views and analyses are distributed daily through blogs and social media channels including Twitter, Facebook and LinkedIn.

To learn how Ventana Research advances the maturity of organizations' use of information and technology through benchmark research, education and advisory services, visit www.ventanaresearch.com.

What We Offer

Ventana Research provides a variety of consulting, advisory, research and education (CARE) services to meet your specific needs when evaluating and selecting vendors. We offer tailored Assessment Services using the Buyers Guide and Value Index methodology to help you evaluate technology vendors and products used today or that may be used in the future. Ventana On-Demand (VOD) provides structured education and advisory sessions to support business and technology professionals.

Everything at Ventana Research begins with our market research using our subject matter expertise and industry experience working with organizations worldwide. Our continuous approach to conducting research and analyzing market trends, best practices and technologies helps our clients become more efficient and effective. Through the



Ventana Research community we share our research and insights. Sign up for free membership at https://www.ventanaresearch.com/ to gain access to our weekly insights and learn about upcoming educational and collaboration events.

We offer the following VOD membership levels for business and IT professionals:

Individual membership: For those interested in full access to our community and analysts for themselves. This level includes access to our library of market research and insights with access to industry analysts and subject matter experts by telephone or email.

Team membership: For those interested in full access to our community and analysts for a team. This level includes access to our library of market research and insights with ad-hoc advisory and structured consultative sessions to provide contextual feedback.

Business membership: For those interested in full access to our community and analysts for a larger group. This level includes access to our library of market research and insights with ad-hoc advisory and structured consultative sessions to provide contextual feedback.

Business Plus membership: For those interested in full access to our community and analysts across business teams and units. This level includes access to our library of market research and insights with ad-hoc advisory and structured consultative sessions to provide contextual feedback as well as additional strategic consulting sessions.

<u>Additional services</u> are available for technology vendors, consulting and systems integrators, and investment firms.

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