

Data Center Managed Services 2023-2024 RadarView

Revolutionizing data center
operations with generative AI

November 2023

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About the Data Center Managed Services 2023-2024 RadarView

1

There is a growing demand for service providers to develop green data center initiatives, enabling enterprises to reduce carbon emissions and optimize energy utilization. Service providers are also embracing the integration of generative AI into data centers to automate observability and improve the efficacy of data center monitoring.

2

Avasant evaluated 38 providers using a rigorous methodology across the key dimensions of practice maturity, partner ecosystem, and investments and innovation. Through its analysis, Avasant recognized 23 providers that brought the most value to the market over the past 12 months.

3

The *Data Center Managed Services 2023-2024 RadarView* aims to provide a view into the leading service providers for data center managed services. Based on our methodology, these service providers are categorized into four broad segments: leaders, innovators, disruptors, and challengers.

4

To enable decision-making for enterprises, Avasant has provided an overview of the industry's major data center managed service providers. This includes a list of their top enterprise clients, customer success stories, key IP assets/solutions and partnerships, and major industry verticals they serve. This is supported by an analyst's perspective on the providers across the three key dimensions defined in the second point above.

Note: Please refer to Avasant's [Data Center Managed Services 2023-2024 Market Insights](#) for demand-side trends.



Executive summary

Defining data center managed services

Key definitions





Data center management
 Avasant defines data center management as various responsibilities and tasks that revolve around infrastructure maintenance, private or public cloud management, operational efficiency, and the application of DevOps principles.

Data center managed services
 Data center managed services include a range of offerings such as managed hosting and colocation, storage and backup transformation, server consolidation and virtualization, business continuity and disaster recovery, and the creation of secure and energy-efficient infrastructure environments.

These services cover the entire value chain, from consulting and design to implementation, configuration, migration, and ongoing maintenance. They are designed to meet specific needs and ensure that SLAs are upheld.

The services can be delivered through various models, including on-premises, colocation, managed services, cloud, or hybrid support.

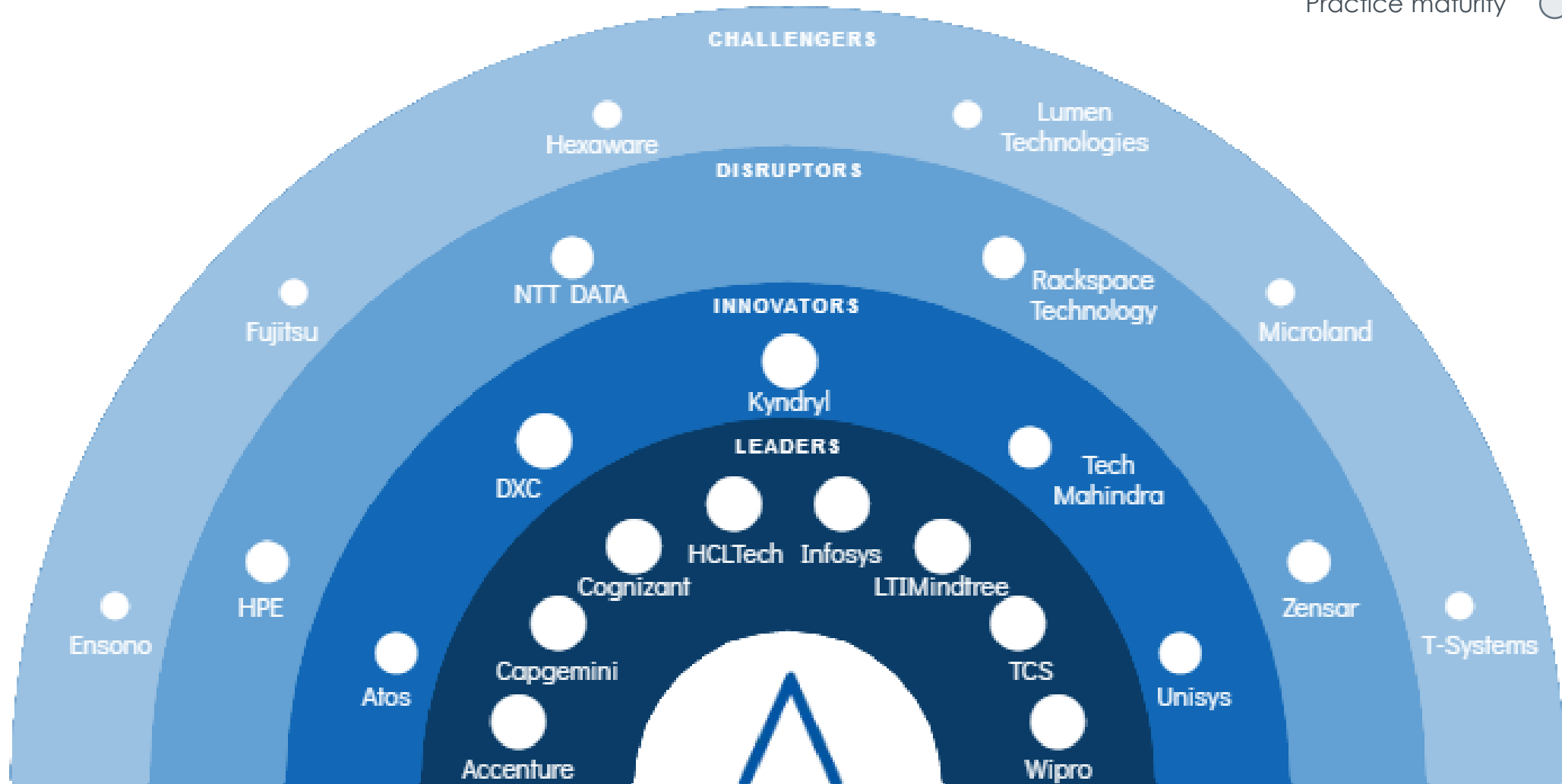
Key components

	Data center infrastructure	Managing physical components of the data center, such as servers, storage devices, networking equipment, and firewall
	Private/public cloud	Infrastructure provisioning, resource allocation and optimization, and security and compliance
	Data center operations	Equipment monitoring, maintenance, troubleshooting, environmental controls, and asset and change management
	DevOps	Automating, standardizing, and optimizing the management and operations of data center infrastructure

Source: Avasant Research

Avasant recognizes 23 top-tier providers supporting the enterprise adoption of data center managed services

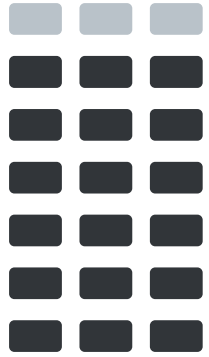
Practice maturity ○ ○ ○





State of the market

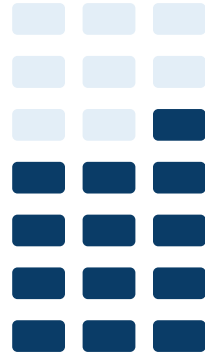
Security, compliance, and operations management are the top challenges enterprises face while managing data centers



88%

Security and compliance

- Inefficient protection against physical threats and unauthorized access
- Failure to comply with constantly changing regulatory standards for data centers



63%

Operations management

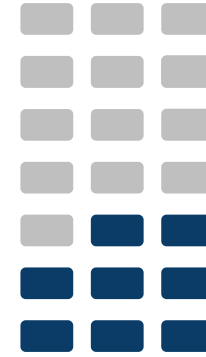
- Inability to provide a unified view of data center operations
- Complexity of managing data center operations for remote infrastructure



50%

Scalability

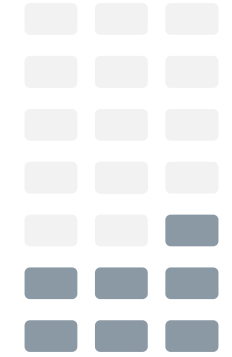
- Poor capacity planning leading to underutilized or overburdened infrastructure
- Failure to provision on-demand resources for the evolving needs of enterprises



38%

Talent management

- Lack of skills and expertise to manage data centers
- Poor hiring strategies and talent retention



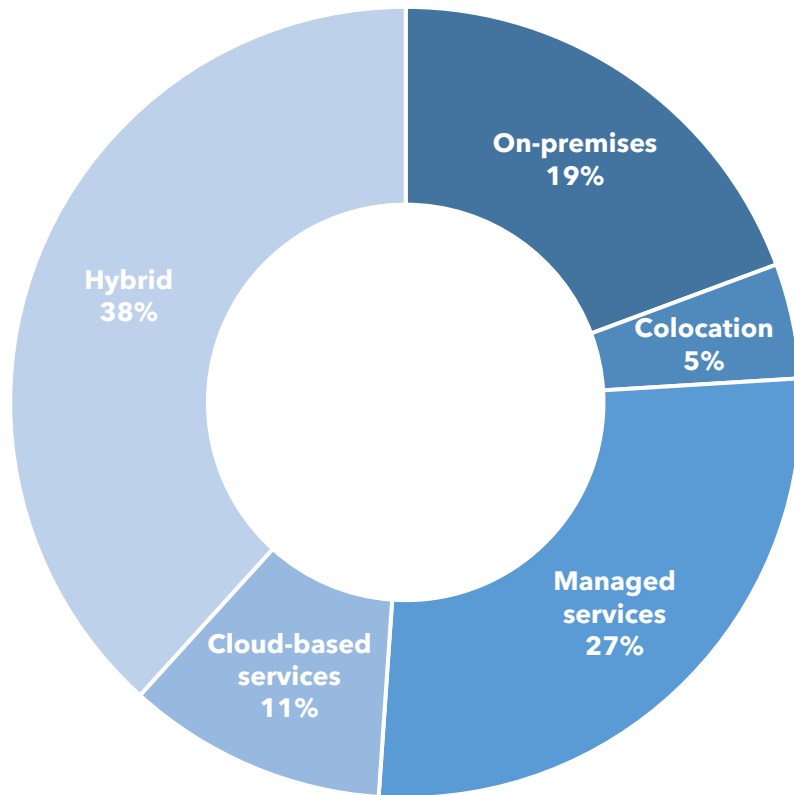
32%

Cost optimization

- High cost of infrastructure upgrades, licensing, and support
- Unexpected cloud costs resulting in budget overruns

Enterprises are adopting a hybrid delivery model to manage their data center landscape

Adoption of data center delivery models by enterprises



Key drivers influencing the delivery models



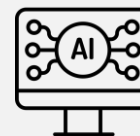
Cloud repatriation

A few enterprises are interested in migrating their workloads from cloud environments back to data centers by leveraging on-premises delivery models to ensure better control and monitoring of the infrastructure.



Cost-effective infrastructure management

There is a growing demand among enterprises to adopt data center colocation services to enable cost-effective strategies for infrastructure management.



Automated monitoring

Enterprises are leveraging intelligent automation technologies to automate repetitive monitoring activities, thus adopting managed service delivery models.



Sovereign cloud offerings

With the constantly evolving regional regulations, enterprises are looking to adopt sovereign cloud offerings as part of cloud-based service delivery models to enhance data center security and compliance requirements.

Traditional data center managed services are being disrupted and replaced by tech-enabled services

Cloud and AI are the major disruptors, creating a significant impact on data center managed services.



Enterprises are utilizing generative AI to optimize data center operations and provide automated monitoring services

Generative AI use cases that are either integrated or in pilot stages for managing data center services



Automated data center observability

Enterprises are leveraging generative AI to streamline data center operations and automate observability to provide faster analysis and reveal deeper patterns and insights.



Business logic generation and code refactoring

Firms are using generative AI for code generation, refactoring, and logic generation from business requirements to improve productivity and reduce the need for manual coding.



Chatbot integration

Enterprises are integrating generative AI into data center infrastructure support services to create AI-powered chatbots that offer personalized interactions and faster resolutions.



Incident management and log simplification

Companies are leveraging generative AI to manage incidents, ensuring automatic extraction of key details, identification of the incident's impact across the data center landscape, and generation of simplified logs.



Quality engineering

Enterprises are utilizing generative AI to fine-tune and optimize the quality engineering aspects of data center managed services by automatically generating and running diagnostic test cases.

Enterprises are increasingly focusing on green data center initiatives to achieve their net-zero goals

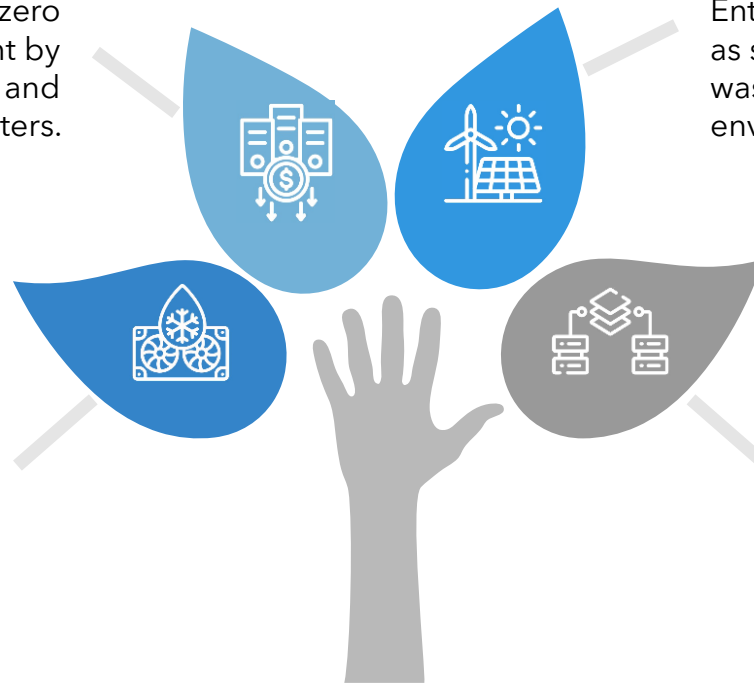
Factors influencing the adoption of green data center initiatives

Decommissioning end-of-life data centers

Enterprises are aiming to achieve net-zero goals and reduce their carbon footprint by decommissioning end-of-life data centers and consolidating multiple data centers.

Leveraging renewable energy sources

Enterprises are adopting renewable sources such as solar or wind energy and implementing proper waste management practices to minimize environmental impact.



Adoption of liquid cooling technologies

By leveraging liquid cooling technologies and optimizing hardware design principles, enterprises are looking to reduce the power usage effectiveness (PUE) metric to enable energy-efficient data centers.

Server virtualization

By deploying multiple virtual machines to run on a physical server, enterprises can optimize data center infrastructure management and reduce IT resource requirements, which can reduce the environmental impact.



- Service providers have developed green data center offerings to perform data center cooling unit assessments and baseline assessments to understand the existing infrastructure landscape.
- These offerings help enterprises identify areas for improving energy efficiency, reducing carbon emissions, and implementing sustainable data center practices.

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Capgemini profile

Capgemini: RadarView profile



Practice maturity ★★★★★

Partner ecosystem ★★★★★

Investments & innovation ★★★★★

Has acquired BTC to strengthen its cloud capabilities in Japan. Has partnered with Microsoft and Google to launch generative AI offerings.

Practice overview		Client case studies															
<ul style="list-style-type: none"> Practice size: 33,000+ Certified/trained resources: 49,000+ Active clients: 3,868+ Delivery highlights: Delivery centers across 50+ countries 		<ul style="list-style-type: none"> Performed data center and workload migration to Capgemini Cloud platform and set up a private cloud for a multinational construction and real estate company in partnership with Oracle and IBM. This led to a 25% reduction in delivery efforts and significant cost savings. Enabled the migration of over 1,000 virtual servers for an electricity transmission service provider in Canada through collaboration with VMware, Oracle, and HPE. It also provided a single pane of glass to monitor the new data center, which increased reliability and lowered operational costs. Developed a cloud migration model for a Dutch international consumer products company and migrated its entire production environment from private cloud to public with Microsoft Azure. This improved scalability and cost efficiency for the client. Provisioned a cloud-based infrastructure on GCP and delivered data protection services for a payment technology and software solutions provider. This led to a reduction in licensing and capital expenses. 															
<div style="border: 1px solid gray; padding: 5px; width: fit-content;"> <p>€22B</p> <p>Overall revenue, FY 2022</p> </div>	<div style="border: 1px solid gray; padding: 5px; width: fit-content;"> <p>10</p> <p>Global command center facilities</p> </div>																
Key IP and assets		Partnerships/alliances	Sample clients	Industry coverage													
<ul style="list-style-type: none"> CAP360: A suite of solutions that enables mainframe modernization with the support of DevOps tools Enterprise Automation Fabric: A service offering that provides infrastructure management through insights-driven automation Adaptive Cloud Operations: A service offering that enables operations management for multicloud environments 		<p>Cloud platform providers</p> <p> </p> <p>Technology partners</p> <p> </p> <p> </p> <p> </p>	<ul style="list-style-type: none"> A multinational construction and real estate company An electricity transmission service provider in Canada A Dutch international consumer products company A payment technology and software solutions provider An American multinational conglomerate A European multinational aerospace corporation 	<table border="1"> <tr><td>Aerospace & defense</td></tr> <tr><td>Banking</td></tr> <tr><td>Financial services</td></tr> <tr><td>Government</td></tr> <tr><td>Healthcare & life sciences</td></tr> <tr><td>High-tech</td></tr> <tr><td>Insurance</td></tr> <tr><td>Manufacturing</td></tr> <tr><td>Nonprofits</td></tr> <tr><td>Retail & CPG</td></tr> <tr><td>Telecom, media & entertainment</td></tr> <tr><td>Travel & transportation</td></tr> <tr><td>Utilities & resources</td></tr> </table>	Aerospace & defense	Banking	Financial services	Government	Healthcare & life sciences	High-tech	Insurance	Manufacturing	Nonprofits	Retail & CPG	Telecom, media & entertainment	Travel & transportation	Utilities & resources
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Insurance																	
Manufacturing																	
Nonprofits																	
Retail & CPG																	
Telecom, media & entertainment																	
Travel & transportation																	
Utilities & resources																	

Darker color indicates higher industry concentration: ●●●●●

Capgemini: RadarView profile

Analyst insights

Practice maturity



- Capgemini adopts a five-phased methodology to provide data center migration services to customers: advisory and analysis, assessment and design, planning and preparation, migration and execution, and adaptive cloud-managed services. It has also transitioned 14 data centers to colocation facilities as part of its asset-light strategy.
- Its Cloud Platform offering is a portfolio of cloud services and accelerators in a single cloud management platform. This platform offers hybrid- and multicloud services, cloud-native support, cloud optimization, and cloud operations that facilitate workload management.
- Its data center strategy enables sustainable data centers through transformation, workload migrations to hybrid cloud, and re-platforming using a cloud-native approach. It has also launched an internal carbon calculator to help understand the carbon impact on client environments.
- Its Enterprise Automation Fabric service offering provides insights-driven automation for customers to accelerate their automation journey and unlock value across cloud operations. It also delivers integrated infrastructure, applications, and business operations services that improve customer experiences.

Partner ecosystem



- Capgemini has launched a global data center migration program in collaboration with Microsoft. This enables customer data center transformation and workload migration to Microsoft Azure.
- It has collaborated with VMware to provide cloud infrastructure solutions that help customers in their digital transformation journeys. This partnership also offers global consulting, managed services, and multicloud virtualization platforms to enhance business outcomes for customers.
- It has partnered with IBM to create mainframe modernization solutions for customers in the financial services industry. It has also created an Experience Zone where customers can experience and jointly develop modernization use cases with Capgemini's in-house experts.

Investments and innovation



- In June 2023, Capgemini signed a share purchase agreement to acquire BTC. This acquisition will enable Capgemini to strengthen its cloud and digital capabilities in Japan.
- The Azure Intelligent App Factory, codeveloped with Microsoft as part of its expanded partnership, focuses on enabling organizations to adopt sustainable generative AI capabilities and drive tangible business outcomes across various industries.
- In November 2022, it acquired 23red, a purpose-driven creative agency. This acquisition will strengthen Capgemini's sustainability and brand capabilities in the UK region.

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Appendix:
About RadarView

The Data Center Managed Services RadarView assesses service providers across three critical dimensions

Practice maturity

- This dimension considers the current state of a provider's data center managed services practice in terms of its strategic importance for the provider, the maturity of its offerings and capabilities, and client engagement.
- The crucial aspects in this dimension are the width and depth of the client base, usage of proprietary/outsourced tools and platforms, and quality of talent and execution capabilities.

Partner ecosystem

- This dimension assesses the nature of the ecosystem partnerships of the provider, the objectives of the partnerships (codevelopment and co-innovation), and its engagement with solutions providers, startup communities, and industry associations.
- Vital aspects in this dimension are the evaluation of joint development programs around offerings, go-to-market approaches, and the overall depth of partnerships.

Investments and innovation

- This dimension measures the strategic direction of investments and resultant innovations in the offerings and commercial model and how it aligns with the future direction of the industry.
- The critical aspects of this dimension include both organic and inorganic investments toward capability and offering growth, technology development, and human capital development, along with innovative solutions developed with strategic partners.

Research methodology and coverage

Avasant based its analysis on several sources:

Public disclosures

Publicly available information from sources such as Securities and Exchange Commission (SEC) filings, annual reports, quarterly earnings calls, and executive interviews and statements

Market interactions

Discussions with enterprise executives leading digital initiatives and influencing service provider selection and engagement

Provider inputs

Inputs collected in August 2023 through an online questionnaire and structured briefings in September-October 2023

Of the 38 service providers assessed, the following are the final 23 featured in the Data Center Managed Services RadarView for 2023:



Note: Assessments for Accenture, Cognizant, Fujitsu, Hexaware, HPE, Lumen Technologies, Microland, NTT Data, Tech Mahindra, Wipro, and Zensar were conducted based on public disclosures and market interactions only.

Reading the RadarView

Avasant has recognized service providers in four classifications:



Leaders show consistent excellence across all key dimensions of the RadarView assessment (practice maturity, partner ecosystem, and investments and innovation) and have had a superior impact on the marketplace. These providers have shown true creativity and innovation and have established trends and best practices for the industry. They have proven their commitment to the industry and are recognized as thought leaders in their space, setting the standard for the rest of the industry to follow. Leaders display a superior quality of execution and a reliable depth and breadth across verticals.



Innovators show a penchant for reinventing concepts and avenues, changing the very nature of how things are done from the ground up. Unlike leaders, innovators have chosen to dominate a few select areas or industries and distinguish themselves through superior innovation. These radicals are always hungry to create pioneering advancements in the industry and are actively sought after as trailblazers, redefining the rules of the game.



Disruptors enjoy inverting established norms and developing novel approaches that invigorate the industry. These providers choose to have a razor-sharp focus on a few specific areas and address those at a high level of granularity and commitment, which results in tectonic shifts. While disruptors might not have the consistent depth and breadth across many verticals like leaders or the innovation capabilities of innovators, they exhibit superior capabilities in their areas of focus.



Challengers strive to break the mold and develop groundbreaking techniques, technologies, and methodologies on their way to establishing a unique position. While they may not have the scale of the providers in other categories, challengers are eager and nimble and use their high speed of execution to great effect as they scale heights in the industry. Challengers have a track record of delivering quality projects for their most demanding Global 2000 clients. In select areas and industries, challengers might have capabilities that match or exceed those of the providers in other categories.

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