

Digital Engineering Services

Integrated Customer/User Engagement
and Experience

A research report comparing provider/software vendor
strengths, challenges and competitive differentiators

Customized report courtesy of:

HCL

Executive Summary	03	Integrated Customer/ User Engagement and Experience	13 – 19
Provider Positioning	06	Who Should Read This	14
Introduction		Quadrant	15
Definition	09	Definition & Eligibility Criteria	16
Scope of Report	11	Observations	17
Provider Classifications	12	Provider Profile	19
Appendix			
Methodology & Team	21		
Author & Editor Biographies	22		
About Our Company & Research	24		

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Digital services are recasting manufacturing and production sector.

The digital engineering space is witnessing a wide adoption of various technologies, spurred by the digital revolution in the manufacturing industry with its strong potential to drive productivity. Digital technologies that are used by production and manufacturing companies help create a data lake at all phases and stages of the production line, capturing every piece of information that can optimize or improvise the process in every dimension. On the other hand, traditional engineering methodologies are human intensive and offer reserved guidance and insights from the transactional data generated at every point.

Technology plays a crucial role in an open, complex and integrated engineering stream that spans various complex systems and platforms.

The processes, services and customer experience help define sustainability and relevance in the right market. Design and development activities have always been at the inception points of every engineering initiative. The U.S. has always led the way for adoption and innovation, given its large consumer base. Almost every new idea or concept is prototyped in this marketplace. Transformation and innovation are at their peak due to evolving work methods, and business models. As a result, service providers have changed their engineering strategies and adopted, developed and leveraged capabilities to cater to the core manufacturing and product development industries.

Digital services
and engineering
are a **powerful**
combination.



Executive Summary

Mid-sized and big multinational engineering clients have elevated their demands on digital engineering services. This has been the driving force for providers to respond quickly and effectively by restructuring their capabilities in driving technology adoption. As a result, digital engineering transformation services have emerged, including new capabilities to support digital product design in real time and other competencies around data-driven product lifecycle management, intelligent manufacturing operations, and digital customer experience delivery services. The increased adoption is further driven by AI-powered R&D, autonomous testing, simulations, augmented and virtual reality applications, digital twins and predictive machine learning. Intelligent supply chains, Industry 4.0, intelligent connected machines and IoT are some of the critical enablers for engineering services transformation.

Platformization is a major trend in the U.S., leading to new developments. Innovation and research have become favored investment areas to create opportunities. Large engineering service provider companies have now directed their focus toward building non-traditional technical platforms that act as an enterprise service bus to incorporate with and connect to any platform spanning from engineering to user experience. This is driven further by the demand from manufacturers and OEMs for such integrative platforms. Studying user patterns and consumption trends helps product companies intelligently improvise the connected product experience by encompassing complementing services and products through a platform.

Processes and workflow phases have been digitized and automated, especially in discrete and process industries. As

a result, integrated customer and user engagements see drastic changes at an operations level.

The infusion of technology from AI, machine learning and data analytics is improvising and presenting new dimensions to every engineering phase. Furthermore, the adoption of emerging technologies in the manufacturing and production sectors has spiked due to new consumer behaviors, an evolved set of requirements, new consumption mechanisms and educated clientele. As a result, there is constant pressure to re-engineer products that meet current and future market expectations.

Product definition in the engineering and manufacturing industries has changed after the digital revolution. Software products are an essential component of the entire value chain spanning from inception to experience. Almost all heavy manufacturing industries have

started to refine digital products and analyze how end users, consumers and markets leverage products. Engineering service providers are building software by using innovative digital architecture, components and programs to redesign solutions and products. They also leverage methodologies, frameworks and practices from every technology engineering domain.

Furthermore, augmenting human and machine-generated data and advanced analytics tools are fueling the metaverse with futuristic technologies that have a powerful relevance and prominence in the engineering industry, transforming the entire spectrum of products across industries for modern times. Such technologies have helped enhance the skill matrix and engineering competencies, creating avenues for technology skills in the engineering sector.



Executive Summary

The use of emerging technologies has a drastic impact on many vital areas such as decarbonization that require immediate attention. The data points captured and processed through various dimensions at every transaction point provide insights that directly reduce friction, consumption and dissipation of natural resources, leading to optimized operations and high cost savings.

Digital engineering services form the core of manufacturing and production industries.



Provider Positioning

Page 1 of 3

	Design and Development (Product, Services, Experience)	Connected and Intelligent Operations — Discrete Industries	Connected and Intelligent Operations — Process Industries	Integrated Customer/ User Engagement and Experience	Platforms and Applications Services
Accenture	Leader	Leader	Leader	Leader	Leader
Accolite Digital	Product Challenger	Not In	Not In	Product Challenger	Not In
Capgemini	Leader	Leader	Leader	Leader	Leader
Caresoft Global	Not In	Market Challenger	Not In	Not In	Not In
Cognizant	Leader	Leader	Product Challenger	Leader	Leader
Cyient	Market Challenger	Market Challenger	Market Challenger	Market Challenger	Market Challenger
eInfochips	Contender	Contender	Not In	Not In	Contender
EPAM	Market Challenger	Market Challenger	Market Challenger	Market Challenger	Market Challenger
e-Zest	Contender	Contender	Contender	Contender	Contender
GlobalLogic	Leader	Rising Star ★	Not In	Rising Star ★	Leader



Provider Positioning

Page 2 of 3

	Design and Development (Product, Services, Experience)	Connected and Intelligent Operations — Discrete Industries	Connected and Intelligent Operations — Process Industries	Integrated Customer/ User Engagement and Experience	Platforms and Applications Services
HARMAN Digital Transformation Solutions (DTS)	Product Challenger	Rising Star ★	Product Challenger	Product Challenger	Product Challenger
HCL	Leader	Leader	Leader	Leader	Leader
Hexaware	Leader	Not In	Not In	Not In	Not In
Infostretch	Contender	Contender	Contender	Contender	Contender
Infosys	Leader	Leader	Leader	Leader	Leader
ltransition	Contender	Not In	Not In	Contender	Contender
KPIT	Not In	Market Challenger	Not In	Not In	Not In
LTTS	Leader	Leader	Leader	Leader	Leader
Mindtree	Product Challenger	Product Challenger	Product Challenger	Product Challenger	Product Challenger
Mphasis	Rising Star ★	Product Challenger	Not In	Leader	Rising Star ★



Provider Positioning

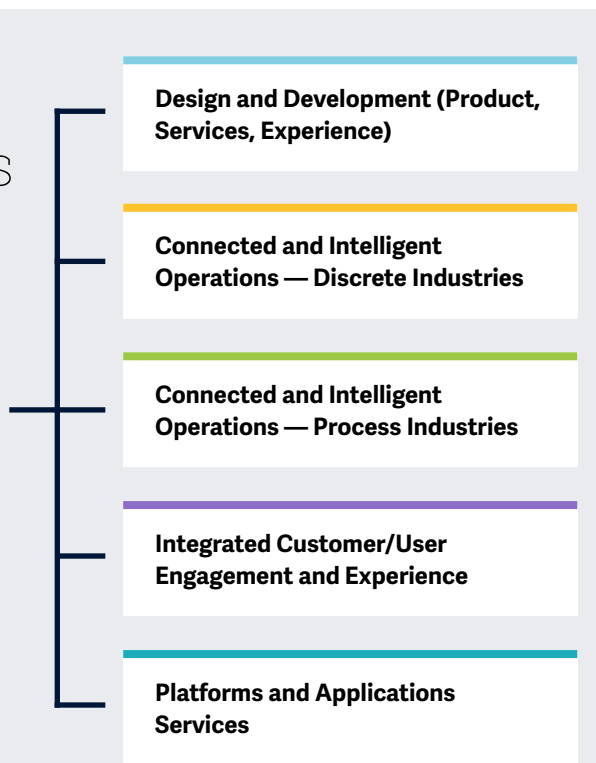
Page 3 of 3

	Design and Development (Product, Services, Experience)	Connected and Intelligent Operations — Discrete Industries	Connected and Intelligent Operations — Process Industries	Integrated Customer/ User Engagement and Experience	Platforms and Applications Services
Persistent Systems	Product Challenger	Product Challenger	Product Challenger	Product Challenger	Product Challenger
Quest Global	Not In	Not In	Market Challenger	Not In	Not In
Tata Elxsi	Product Challenger	Product Challenger	Product Challenger	Product Challenger	Product Challenger
TCS	Leader	Leader	Leader	Not In	Leader
Tech Mahindra	Product Challenger	Leader	Product Challenger	Leader	Product Challenger
UST	Market Challenger	Market Challenger	Market Challenger	Market Challenger	Market Challenger
Virtusa	Product Challenger	Not In	Not In	Product Challenger	Not In
VVDN Technologies	Product Challenger	Not In	Not In	Product Challenger	Contender
Wipro	Leader	Leader	Leader	Leader	Leader
Zensar	Rising Star ★	Product Challenger	Not In	Rising Star ★	Rising Star ★



ISG perceives the Digital Engineering Services study as most critical in 2022.

Simplified Illustration Source: ISG 2022



Definition

Engineering services have undergone significant transformations in the recent past, with paradigm shifts observed in manufacturing and product development across industry spectrums ranging from automotive and aircraft OEMs to health tech and smart infrastructure systems developers. The U.S. is one of the epicenters of large manufacturing e' supply chain and sourcing organizations that have seen a disruption in the process and management areas. With the rapid industrial application of AI, machine learning, predictive analytics, IoT, 5G, intelligent automation and other technologies, foundational engineering services such as product innovation, ideation, strategy and design, R&D and testing services, operations, product life cycle management (PLM) and aftermarket services have become digitized.

Digital engineering service providers in the U.S market are responding quickly and effectively to such demands from mid-sized and large global engineering clients. The market has moved in a synchronized manner toward digital engineering transformation services, providing new capabilities to support digital product design in real-time along with data-driven PLM, flexible intelligent manufacturing operations and digital customer experience delivery services. Key enablers for these engineering services transformations include AI-powered R&D, autonomous testing, simulations, augmented, virtual and mixed reality (AR/VR/MR) applications, digital twins, predictive machine learning applied to manufacturing and intelligent supply chains, Industry 4.0, IoT, advanced driver assistance systems (ADAS), smart connected machines and AIoT (Artificial Intelligence of Things).



Introduction

Changes in engineering services are further accentuated by the COVID-19 pandemic. For example, companies, industries and operations ranging from traditionally slow changing, highly regulated health tech and pharma R&D firms to manufacturing supply chains and distribution networks had to quickly reimagine, redesign and reinvent themselves by leveraging digital capabilities. The ISG Provider Lens™ Digital Engineering Services 2022 study analyzes these evolving trends with a deeper focus on product and service development, followed by connected and intelligent operations across discrete sectors such as automotive, aerospace, medical equipment for continuous and process industries. It also evaluates providers based on their customer experience on value delivery and associated competencies.



Scope of the Report

In this ISG Provider Lens™ study, ISG covers the following five quadrants: Design and Development (products, services, experience)

Connected and Intelligent Operations – Discrete Industries, Connected and Intelligent Operations – Process Industries, Integrated Customer/User Engagement and Experience, and Platforms and Applications Services.

This ISG Provider Lens™ study offers IT-decision makers:

- Transparency on the strengths and weaknesses of relevant providers
- A differentiated positioning of providers by segments
- Focus on regional market

Our study serves as the basis for important decision making in terms of positioning, key relationships and go-to-market considerations. ISG advisors and enterprise clients also use information from these reports to evaluate their existing vendor relationships and potential engagements.

Provider Classifications

The provider position reflects the suitability of IT providers for a defined market segment (quadrant). Without further additions, the position always applies to all company sizes classes and industries. In case the IT service requirements from enterprise customers differ and the spectrum of IT providers operating in the local market is sufficiently wide, a further differentiation of the IT providers by performance is made according to the target group for products and services. In doing so, ISG either

considers the industry requirements or the number of employees, as well as the corporate structures of customers and positions IT providers according to their focus area. As a result, ISG differentiates them, if necessary, into two client target groups that are defined as follows:

- **Midmarket:** Companies with 100 to 4,999 employees or revenues between \$20 million and \$999 million with central headquarters in the respective country, usually privately owned.
- **Large Accounts:** Multinational companies with more than 5,000 employees or revenue above \$1 billion, with activities worldwide and globally distributed decision-making structures.

The ISG Provider Lens™ quadrants are created using an evaluation matrix containing four segments (Leader, Product Challenger, Market Challenger and Contender), and the providers

are positioned accordingly. Each ISG Provider Lens quadrant may include service providers that ISG believes have strong potential to move into the Leader quadrant. This type of provider can be classified as a Rising Star.

Number of providers in each quadrant: ISG rates and positions the most relevant providers according to the scope of the report for each quadrant and limits the maximum of providers per quadrant to 25 (exceptions are possible).



Provider Classifications: Quadrant Key

Product Challengers offer a product and service portfolio that reflect excellent service and technology stacks. These providers and vendors deliver an unmatched broad and deep range of capabilities. They show evidence of investing to enhance their market presence and competitive strengths.

Contenders offer services and products meeting the evaluation criteria that qualifies them to be included in the IPL quadrant. These promising service providers or vendors show evidence of rapidly investing in products/services and a follow sensible market approach with a goal of becoming a Product or Market Challenger within 12 to 18 months.

Leaders have a comprehensive product and service offering, a strong market presence and established competitive position. The product portfolios and competitive strategies of Leaders are strongly positioned to win business in the markets covered by the study. The Leaders also represent innovative strength and competitive stability.

Market Challengers have a strong presence in the market and offer a significant edge over other vendors and providers based on competitive strength. Often, Market Challengers are the established and well-known vendors in the regions or vertical markets covered in the study.

★ **Rising Stars** have promising portfolios or the market experience to become a Leader, including the required roadmap and adequate focus on key market trends and customer requirements. Rising Stars also have excellent management and understanding of the local market in the studied region. These vendors and service providers give evidence of significant progress toward their goals in the last 12 months. ISG expects Rising Stars to reach the Leader quadrant within the next 12 to 24 months if they continue their delivery of above-average market impact and strength of innovation.

Not in means the service provider or vendor was not included in this quadrant. Among the possible reasons for this designation: ISG could not obtain enough information to position the company; the company does not provide the relevant service or solution as defined for each quadrant of a study; or the company did not meet the eligibility criteria for the study quadrant. Omission from the quadrant does not imply that the service provider or vendor does not offer or plan to offer this service or solution.





Integrated Customer/User Engagement and Experience

Integrated Customer/User Engagement and Experience

Who Should Read This

The report is relevant for U.S.-based enterprises evaluating providers of assuring integrated customer/user engagement through intelligent aftermarket services.

In this quadrant, ISG assesses the current market positioning of providers offering intelligent aftermarket services that include AI-enabled customer services, virtual agents, self-service knowledge support, remote services and field support using augmented reality and virtual reality technologies, drones and real time experience management.

Enterprises are striving to transform their customer support teams and gear them toward customer success by aligning them to new metrics. This transition to customer success is primarily driven by

enhancing customer experience and leveraging digital technologies such as AI and automation that also ensure a competitive edge. Enterprises choose providers that have a global presence with a digital portfolio and a robust customer success team that will help end customers leverage the offerings, anytime and anywhere.

The adoption of digital technologies gained momentum due to the pandemic. Concurrently, the pandemic pushed the demand for end-to-end value chain modernization in aftermarket support offerings for both enterprises and providers.



Engineering leaders should read this report to better understand the relative strengths and weaknesses of digital engineering service providers offering integrated customer/user engagement portfolios that can help lead the digital journeys of engineering practices.



Manufacturing leaders should read this report to develop a better understanding of the current landscape of digital engineering service providers in the U.S.

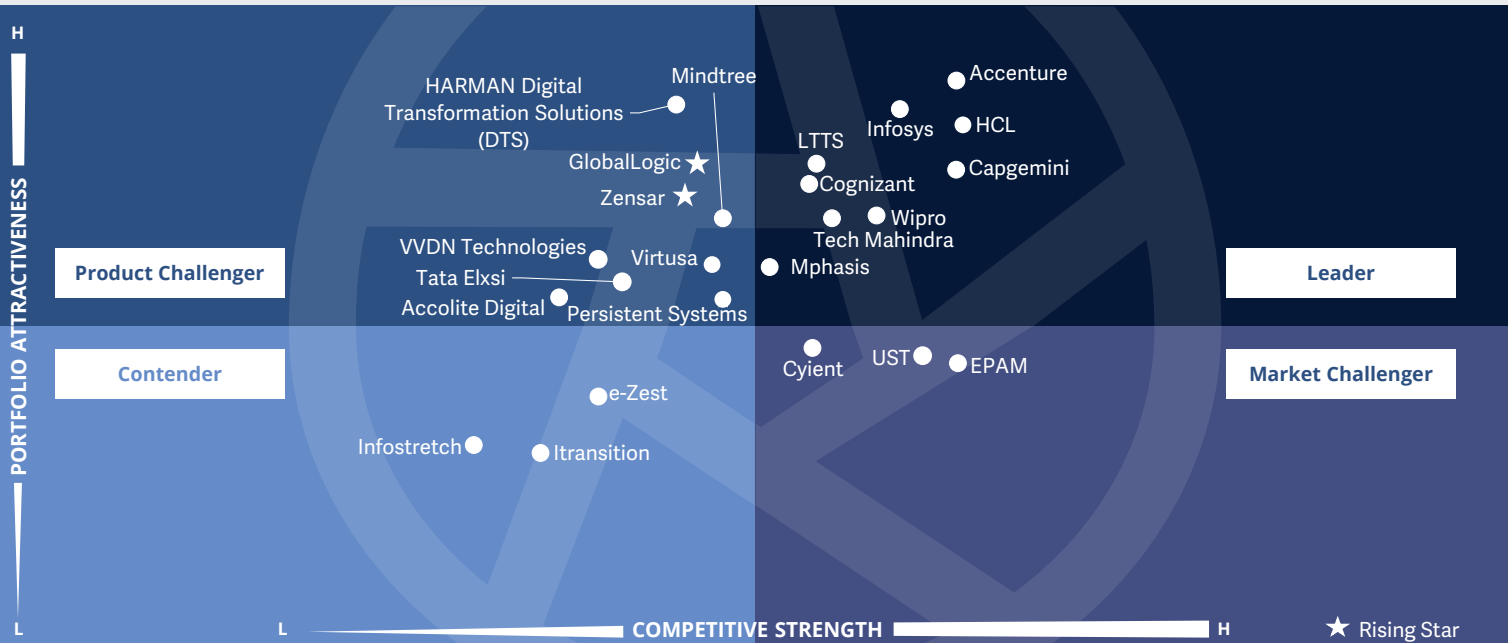


Software development and technology leaders should read this report to understand the positioning of digital engineering service providers and how their offerings can impact an enterprise's transformation initiatives, while identifying the benefits of embracing a digital journey in the engineering space.



Digital Engineering Services
Integrated Customer/User Engagement and Experience

U.S. 2022



The digital platform engineering capabilities of these service providers are defined by **experience and expertise in design, development and production**. This quadrant evaluates containerization, **connected intelligence and real-time experience management** across products, services and UX.

Tapati Bandopadhyay



Definition

This quadrant covers intelligent aftermarket services for delivering customer services and product support through digital platforms. The key capabilities for providers in this space include the ability to provision AI-enabled customer services, virtual agents, self-service knowledge support, remote services and field support by using augmented and virtual reality (AR/VR) technology, remote services through drones and real-time experience management.

Eligibility Criteria

1. Breadth of industry coverage.
2. Predictive maintenance competency: use of data analytics, AI and machine learning in maintenance, field service management and self-healing services
3. Warranty management, lifecycle management and maintenance, repair and operations (MRO) capabilities; focus on digital experience platforms service, customer engagement, query resolution and support
4. Innovation in aftermarket services interfaces: including UI/UX design and engineering and product/ service personalization
5. New business and service models: f Remote in-field customer care and help using IoT technologies, AR/VR-powered digital avatars, and virtual customer service assistants, with real-time knowledge support and predictive actions suggestion engines. Content delivery capability: , AI-powered self-service knowledge support; for example, using natural language processing (NLP), natural language understanding (NLU) and natural language generation (NLG), conversational AI and virtual agent support
6. Leverage customer and market feedback: value-added utilization of customer, field and market feedback regarding products, services, experiences and performances in the field



Integrated Customer/User Engagement and Experience

Observations

After-market services, customer support and field services have all been transformed with the development of platform-led integrated customer experience design and delivery offerings. In addition, composable service architecture, powered by digital technologies such as IoT, drones, AR/VR and mixed reality, is used in various applications such as remote field support by leveraging Microsoft HoloLens and Google Glass, among other technologies.

Engineering service providers are gaining prowess in redefining integrated digital customer experience services for complex client environments. The cross-platform view of client value propositions in digital businesses enables digital customer service and support functions. Here are the key trends that we have observed:

- Service providers are developing tools and frameworks, making them a rapidly scalable partner for clients to pivot their businesses into platforms that can drive and deliver entirely new digital customer experiences and field services.
- Digital platforms are offering predictive analytics and automation with advanced support for clients to transform the end customer experience in a digital and agile manner for driving net new business outcomes.
- Most providers are driving the experience-led transformations for digital journeys through the efficient use of incorporated digital technology stacks.

From the 42 companies assessed for this study, 24 have qualified for this quadrant with nine being Leaders and two as Rising Stars.

accenture

Accenture is a thought leader and execution pioneer in the platform engineering services space. The company leverages this position for redefining its integrated digital customer experience services for complex client service environments.

Capgemini

Capgemini provides a cross-platform, cross-vertical and end-to-end view of client value propositions in digital businesses to enable digital customer service and support functions.

cognizant

Cognizant offers platform engineering services space through an experience-focused, collaborative technology ecosystem that helps clients transform their end-customers' support experiences.

HCL

HCL leverages its strong bundle of intellectual property and frameworks to rapidly transform client businesses into platforms that can drive and deliver new digital customer experience and field services.

Infosys

Infosys' digital platform engineering enables clients to transform their end-customers' experience in a digital and agile manner while driving net new business outcomes.



LTS offers strongly differentiated intellectual property and solution bundles for platformizing client businesses into dynamic digital avatars. It delivers unique experiences and outcomes for enterprises and their end customers.



Integrated Customer/User Engagement and Experience



Mphasis delivers an experience-led transformation for client businesses through efficient usage of integrated digital technology stacks and value chains.



Tech Mahindra leads with its integrated digital experience management capabilities in terms of quality of domain talent and tech resources. The integrated CX/UX offerings stems from its deep experience and expertise in digital tech solutions.



A Hitachi Group Company

GlobalLogic, a Rising Star, takes a transformational business-driven approach toward digitally transforming its clients' end-customer experiences through innovative digital technology use cases.



Zensar, also a Rising Star, has a strategic and holistic view of customer experience enablement for clients through a delivery approach backed by experience-focused design and support.



HCL



“HCL’s strong bundle of tools and frameworks make the company a rapidly scalable partner for clients.”

Tapati Bandopadhyay

Overview

HCL is headquartered in Noida, India, and operates in 52 countries. It has over 197,000 employees across 215 global offices. In FY22, the company generated \$11.48 billion (+12.8 percent YoY) in revenue, with IT and business services as its largest segment. HCL’s WorkBlaze solution monitors large volumes of EUC data in real time to provide actionable insights with a transformative potential.

Strengths

Strong technology partner ecosystem:

Built on digital technologies and partner ecosystems, HCL’s use cases and tools are industry leading in terms of applications for after-market maintenance and support. For example, HCL PLUG can secure data and access on devices and cloud, creating a significant impact on use cases for medical devices and data ecosystems that are life critical and demonstrate regulatory sensitivity at the same time.

Proprietary set of tools and frameworks:

EdgeLity is an edge computing framework that supports after-market and field service use

cases on IoT and edge integrative applications. It brings the benefit of proximity computing to the data source, thereby reducing latency, increasing speed of access and providing analytics in near real time. Similarly, the Optimus automation framework has high-potential use cases on after-market services and CX/UX testing.

Prowess in integrative digital capabilities:

HCL enables clients to leverage new-age technologies such as AR/VR and mixed and hybrid realities for field operations in real time.

Caution

HCL’s technology talent, especially in the digital ecosystem, makes it vulnerable to talent retention threats. In the highly competitive U.S. market, the company should come up with top-level execution interventions and innovations to retain its talent quality at all levels.





Appendix

The ISG Provider Lens 2022 – Digital Engineering Services analyzes the relevant software vendors/service providers in the U.S. market, based on a multi-phased research and analysis process, and positions these providers based on the ISG Research methodology.

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The research and analysis presented in this report includes research from the ISG Provider Lens program, ongoing ISG Research programs, interviews with ISG advisors, briefings with services providers and analysis of publicly available market information from multiple sources. The data collected for this report represents information that ISG believes to be current as of May 2022 for providers who actively participated as well as for providers who did not. ISG recognizes that many mergers and acquisitions have taken place since that time, but those changes are not reflected in this report.

All revenue references are in U.S. dollars (\$US) unless noted.

The study was divided into the following steps:

1. Definition of Digital Engineering Services market
2. Use of questionnaire-based surveys of service providers/vendor across all trend topics
3. Interactive discussions with service providers/vendors on capabilities & use cases
4. Leverage ISG's internal databases & advisor knowledge & experience (wherever applicable)
5. Use of Star of Excellence CX-Data
6. Detailed analysis & evaluation of services & service documentation based on the facts & figures received from providers & other sources.
7. Use of the following key evaluation criteria:
 - * Strategy & vision
 - * Tech Innovation
 - * Brand awareness and presence in the market
 - * Sales and partner landscape
 - * Breadth and depth of portfolio of services offered
 - * CX and Recommendation



Author & Editor Biographies



Lead analyst

Tapati Bandopadhyay
Lead analyst – U.S.

Dr. Tapati Bandopadhyay has been an inventor, builder, practitioner and researcher in AI, intelligent automation and related domains, for 25+ years. She has been a global practice leader and executive-level advisor & consultant, in AI-automation-cloud and services management, covering MLOps, AIOps, CloudOps, DataOps, ModelOps &

DevOps metrics-driven practices and data and AI story-building and story-telling practices and tools. As an ISG Lead Analyst on AWS and in AI-ML, consulting & managed services, she is responsible for defining and leading the ISG Provider Lens branded research projects, for the US market.



Senior Research Analyst

Srinivasan PN
Senior Research Analyst

Srinivasan PN is a senior research analyst at ISG and is responsible for supporting and co-authoring ISG Provider Lens™ studies on AWS & Google Ecosystem, Digital Engineering, Manufacturing and Mainframe. His area of expertise lies in the space of engineering services and digital transformation. Srinivasan comes with 8 years of experience in the technology

research industry and in his prior role, he carried out research delivery for both primary and secondary research capabilities. Srinivasan also authors enterprise context reports and global summary reports for each of his expertise areas. Along with this, he supports the advisors with his research skills and writes papers about latest market developments in the industry.





IPL Product Owner

Jan Erik Aase
Partner and Global Head –
ISG Provider Lens

Mr. Aase brings extensive experience in the implementation and research of service integration and management of both IT and business processes. With over 35 years of experience, he is highly skilled at analyzing vendor governance trends and methodologies, identifying inefficiencies in current processes, and advising the industry. Jan Erik has experience on all four

sides of the sourcing and vendor governance lifecycle - as a client, an industry analyst, a service provider and an advisor. Now as a research director, principal analyst and global head of ISG Provider Lens™, he is very well positioned to assess and report on the state of the industry and make recommendations for both enterprises and service provider clients.



*ISG Provider Lens™

The ISG Provider Lens™ Quadrant research series is the only service provider evaluation of its kind to combine empirical, data-driven research and market analysis with the real-world experience and observations of ISG's global advisory team. Enterprises will find a wealth of detailed data and market analysis to help guide their selection of appropriate sourcing partners, while ISG advisors use the reports to validate their own market knowledge and make recommendations to ISG's enterprise clients. The research currently covers providers offering their services across multiple geographies globally.

For more information about ISG Provider Lens research, please visit this [webpage](#).

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Founded in 2006, and based in Stamford, Conn., ISG employs more than 1,300 digital-ready professionals operating in more than 20 countries—a global team known for its innovative thinking, market influence, deep industry and technology expertise, and world-class research and analytical capabilities based on the industry's most comprehensive marketplace data. For more information, visit www.isg-one.com.



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