

Medical Device Digital Services

A research report comparing provider strengths, challenges and competitive differentiators



BROCHURE JUNE 2025 U.S. AND EUROPE

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#### Introduction

The medical device industry is undergoing rapid digital transformation, driven by the need for innovative, connected, patientcentric healthcare solutions. Technologies such as AI, ML, IoT, cloud computing and digital twins are increasingly embedded into medical devices, enabling real-time monitoring, predictive diagnostics and improved clinical decision-making. This transformation is shifting the industry from traditional hardwarecentric models to platform-enabled, datadriven ecosystems. However, integrating these technologies presents challenges, including fragmented IT infrastructure, data interoperability issues and evolving regulatory requirements, especially for software as a medical device (SaMD). Ensuring data integrity, cybersecurity and compliance throughout the device lifecycle is critical.

To navigate these complexities and accelerate innovation, medical device firms are partnering with IT service providers for expertise in digital engineering, cloud integration, quality systems and regulatory technologies. These providers offer global delivery models, domain

accelerators and co-innovation frameworks that reduce time to market, enhance operational efficiency and support regulatory readiness. As value-based care gains traction, the role of IT services in enabling scalable, patient-focused and compliant digital health solutions is vital. Strategic collaboration with IT partners is essential to drive innovation, improve outcomes and stay competitive in this evolving landscape.



#### **Ouadrants Research**

This study provides insights into digital transformation solutions and services offered by providers in the **medical** device industry.

**Digital Engineering and Product Development** Regulatory Compliance, **Strategy and Quality Assurance Post-market Digital Enablement** 

The ISG Provider Lens™ Medical Device Digital Services study offers the following to business and IT decision-makers:

- · Transparency on the strengths and weaknesses of relevant providers.
- A differentiated positioning of providers by segments on their competitive strengths and portfolio attractiveness.
- Focus on different markets, including the U.S. and Europe.

Our study serves as an important decisionmaking basis for positioning, key relationships and go-to-market considerations. ISG advisors and enterprise clients also use information from these reports to evaluate their current vendor relationships and potential engagements.

Simplified Illustration Source: ISG 2025

## Digital Engineering and Product Development

#### Definition

In this quadrant, ISG evaluates providers delivering end-to-end digital engineering and product development services tailored to the medical device industry. It examines the providers' ability to support the design, development and enhancement of connected, software-driven, compliant medical devices. Key evaluation areas include expertise in embedded systems, firmware, hardware and software integration, cloud connectivity, mobile application development, usability and sustenance engineering. The quadrant also assesses the providers' expertise in applying emerging technologies such as AI and ML, digital twins, and edge computing to accelerate innovation, ensure regulatory compliance and reduce time to market. Focus is on coinnovation models, intellectual property/tool accelerators and track record in supporting the full product lifecycle — from concept and prototyping to post-launch optimization.

## Eligibility Criteria

- 1. Demonstrate **experience in** providing digital engineering or
- 2. Exhibit proven track record in the past related to **device** design, software development, embedded systems or digital product engineering for regulated medical devices
- implementation expertise aligned with FDA (21 CFR Part 820, 21 CFR Part 11), EU MDR, ISO 13485. IEC 62304 or similar regulatory standards relevant to digital product development

- 4. Apply emerging technologies such as AI and ML, digital twins, AR/VR for training or
- Have a team of engineering talent with medtech product **development expertise** supported by dedicated practice groups,
- 6. Have capability in providing sustenance engineering services for medical devices. including component reengineering, software updates, compliance upgrades, and postmarket support.

## Regulatory Compliance, Strategy and Quality Assurance

#### Definition

In this quadrant, ISG evaluates providers supporting medical device manufacturers with regulatory compliance, strategic consulting and quality assurance services across the product lifecycle. It examines the providers' ability to navigate global regulatory frameworks such as FDA, EU MDR, ISO 13485 and IEC 62304 while aligning digital and engineering initiatives with go-to-market (GTM) objectives. Key evaluation areas include regulatory submission readiness, embedded systems compliance, quality management system (QMS) implementation and risk-based validation processes.

Providers are also assessed on cybersecurity and data protection strategies, ensuring product and patient safety in connected and software-driven environments. Emphasis is on strategic advisory capabilities, such as market entry planning, digital quality transformation and global regulatory intelligence, and the use of digital tools and accelerators to drive compliance automation, enhance audit preparedness and facilitate quick time to approval.

## Eligibility Criteria

- including adherence to standards such as Food and Drug Administration (FDA), EU MDR, ISO 13485, IEC 62304 and cybersecurity protocols (for example, FDA premarket cybersecurity guidance, National Institute of Standards and Technology [NIST])
- 2. Demonstrate expertise in
- 3. Develop and implement **OMS solutions** corrective

- Showcase established track record in strategic consulting for regulatory submissions, risk
- Manage data security and patient privacy (Health Insurance Portability and Accountability Act [HIPAA] and GDPR) as well as mitigate
- 6. Highlight client references



### Post-market Digital Enablement

#### Definition

In this quadrant, ISG evaluates providers delivering digital solutions for post-market activities of medical device manufacturers. It examines the providers' ability to enable real-time monitoring, device performance tracking, adverse event reporting and telehealth integration to ensure continuous product improvement, patient safety and regulatory compliance. Key evaluation areas include developing and integrating remote patient monitoring (RPM) systems, IoMT-enabled analytics, post-market surveillance tools and adverse event reporting systems (AERS) aligned with global regulations.

Providers are also assessed on their ability to transform real-world data (RWD) into real-world evidence (RWE), using advanced analytics, AI and ML and dashboarding tools to inform product enhancements and regulatory submissions. Emphasis is on secure data exchange, interoperability with electronic health records (EHRs) and health systems, and patient-centric platforms that drive post-market engagement, support recall management and strengthen compliance across markets.

## Eligibility Criteria

- Enable continuous, secure and compliant data collection from deployed devices, including IoMT-enabled products
- 2. Integrate with EHRs, mobile applications and cloud platforms to centralize data and support real-time decision-making
- 3. Use analytics, AI and ML, and digital twins to track device usage, detect anomalies and predict maintenance needs
- Possess tools and systems to capture, report and analyze adverse events in compliance with the FDA, EU MDR and other regulatory bodies

- Connect device data to telehealth platforms and RPM solutions for ongoing patient engagement and clinical oversight
- 6. Have mechanisms to collect, analyze and act on user or patient feedback for iterative product enhancements
- Adhere to post-market regulatory standards and data privacy laws such as HIPAA and GDPR



## Quadrants by Region

As a part of this ISG Provider Lens™ quadrant study, we are introducing the following three quadrants on Medical Device Digital Services 2025:

Quadrant	U.S.	Europe
Digital Engineering and Product Development	✓	<b>✓</b>
Regulatory Compliance, Strategy and Quality Assurance	<b>✓</b>	<b>~</b>
Post-Market Digital Enablement	<b>✓</b>	<b>✓</b>

## ISG's Medical Device Digital Services Framework

#### Key characteristics of the proprietary framework:

- · Encapsulates what enterprises are doing across the Medical Device Digital Services market and helps connect them to digital solutions
- Represents the entire value chain of supply and demand within the market
- · Inner tiles represent themes of enterprise objectives
- Outer tiles represent initiatives
- Behind each outer tile is a specific set of capabilities with unique market-leading providers and solutions



#### Schedule

The research phase falls in the period between June and August 2025, during which survey, evaluation, analysis and validation will take place. The results will be presented to the media in September 2025.

Milestones	Beginning	End
Survey Launch	June 5, 2023	
Survey Phase	June 5, 2025	July 4, 2025
Sneak Preview	September 2025	
Press Release & Publication	November 2025	

Please refer to the <u>ISG Provider Lens™ 2025 research</u> agenda to view and download the list of other studies conducted by ISG Provider Lens™.

#### **Access to Online Portal**

You can view/download the questionnaire from <a href="here">here</a> using the credentials you have already created or refer to instructions provided in the invitation email to generate a new password. We look forward to your participation!

#### **Buyers Guide**

ISG Software Research, formerly "Ventana Research," offers market insights by evaluating technology providers and products through its Buyers Guides. The findings are drawn from the research-based analysis of product and customer experience categories, ranking and rating software providers and products to help facilitate informed decision-making and selection processes for technology.

In the course of the Medical Device Digital Services IPL launch, we want to take advantage of the opportunity to draw your attention to related research and insights that ISG Research will publish in 2025. For more information, refer to the <u>Buyers Guide research schedule</u>.

#### **Research Production Disclaimer:**

ISG collects data for the purposes of writing research and creating provider/vendor profiles. The profiles and supporting data are used by ISG advisors to make recommendations and inform their clients of the experience and qualifications of any applicable provider/vendor for outsourcing the work identified by clients. This data is collected as part of the ISG FutureSource™ process and the Candidate Provider Qualification (CPQ) process. ISG may choose to only utilize this collected data pertaining to certain countries or regions for the education and purposes of its advisors and not produce ISG Provider Lens™ reports. These decisions will be made based on the level and completeness of the information received directly from providers/vendors and the availability of experienced analysts for those countries or regions. Submitted information may also be used for individual research projects or for briefing notes that will be written by the lead analysts.



### Client Feedback Nominations

#### ISG Star of Excellence™ - Call for nominations

The Star of Excellence™ is an independent recognition of excellent service delivery based on the concept of "Voice of the Customer." The Star of Excellence™ is a program, designed by ISG, to collect client feedback about service providers' success in demonstrating the highest standards of client service excellence and customer centricity.

The global survey is all about services that are associated with IPL studies. In consequence, all ISG Analysts will be continuously provided with information on the customer experience of all relevant service providers. This information comes on top of existing first-hand advisor feedback that IPL leverages in context of its practitioner-led consulting approach.

Providers are invited to nominate their clients to participate. Once the nomination has been submitted, ISG sends out a mail confirmation to both sides. It is self-evident that ISG anonymizes all customer data and does not share it with third parties.

It is our vision that the Star of Excellence™ will be recognized as the leading industry recognition for client service excellence and serve as the benchmark for measuring client sentiments.

To ensure your selected clients complete the feedback for your nominated engagement please use the Client nomination section on the Star of Excellence™ website.

We have set up an email where you can direct any questions or provide comments. This email will be checked daily, please allow up to 24 hours for a reply.

Here is the email address: star@cx.isg-one.com



## Methodology & Team

The ISG Provider Lens 2025 – Medical Device Digital Services research study analyzes the relevant software vendors/service providers in the global market, based on a multi-phased research and analysis process, and positions these providers based on the ISG Research methodology.

#### **Study Sponsor:**

lain Fisher

#### Lead Analysts:

Rohan Sinha and Sneha Jayanth

#### Research Analyst:

Sneha Jayanth

## Data Analyst:

Kruthika Sulghur

#### **Project Manager:**

Donston Sharwin

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The research and analysis presented in this study will include data from the ISG Provider Lens™ program, ongoing ISG Research programs, interviews with ISG advisors, briefings with service providers and analysis of publicly available market information from multiple sources. ISG recognizes the time lapse and possible market developments between research and publishing, in terms of mergers and acquisitions, and acknowledges that those changes will not reflect in the reports for this study.

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



## Contacts For This Study

**Study Sponsor** 



Iain Fisher **Director** 



Sharwin

Project Manager

Donston

Sneha



Rohan Sinha Lead Analyst – U.S.



Sneha Jayanth Lead Analyst – Europe



Jayanth
Research Analyst



Sulghur

Data Analyst

Kruthika

## Advisor Involvement - Program Description

## ISG Provider Lens Advisors Involvement Program

ISG Provider Lens offers market assessments incorporating practitioner insights, reflecting regional focus and independent research. ISG ensures advisor involvement in each study to cover the appropriate market details aligned to the respective service lines/technology trends, service provider presence and enterprise context.

In each region, ISG has expert thought leaders and respected advisors who know the provider portfolios and offerings as well as enterprise requirements and market trends. On average, three advisors participate as part of each study's quality and consistency review team (QCRT). The QCRT ensures each study reflects ISG advisors' experience in the field, which complements the primary and secondary research the analysts conduct. ISG advisors participate in each study as part of the QCRT group and contribute at different levels depending on their availability and expertise.

The QCRT advisors:

- · Help define and validate quadrants and questionnaires,
- Advise on service provider inclusion, participate in briefing calls,
- Give their perspectives on service provider ratings and review report drafts.

# ISG Advisors to this study



Jenn Stein

Partner. **Health Sciences** 



Michael Fullwood





Ryan Hamze

**Principal Consultant** 



MEDICAL DEVICE DIGITAL SERVICES

Sven Geissler

Director



## **Invited Companies**

If your company is listed on this page or you feel your company should be listed, please contact ISG to ensure we have the correct contact person(s) to actively participate in this research.

1MED SA	Celegence	Ezen Digital	Impact Advisors
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Accenture CitiusTech Firstsource Indegene

**Gainwell Technologies** Infinite Computer Solutions **ACL** Digital Clinitude

Agilisium Coforge **GAVS Technologies** Infogain All for One Cognizant Genpact Infosys

Innova Solutions Allscripts - Veradigm Conduent **HARMAN Digital Transformation Solutions** Altasciences **HCLTech** Dell Technologies Intmed Software

Deloitte **HCTec** IntuitiveCare Apexon

DXC Technology Health Catalyst **IQVIA** Atos

ATS Global Emergo by UL Healthbit Ltd ITC Infotech

**EMIDS** Beyondsoft Hexaware Kapstone Medical

Biomapas **EPAM Systems** Hitachi **KPMG** Birlasoft EXL HTC Global Services Kyndryl

Brillio Extreme Digital Solutions - EDS LTIMindtree Huron

ΕY Capgemini IBM LTTS



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Marlabs PTC Tegria

PwC Mastek **TEKsystems** 

Med-Di-Dia Limited Qserve Group T-Systems

Quantiphi Unisys **Mphasis** 

Nordic Global Rackspace Technology UpFlux

UST NorMed Consulting RSM US LLP

NTT DATA Sagility Health Veranex

Obelis Group Softtek Virtusa

Omega Healthcare Management Services Sopra Steria WellSky

Stefanini Wipro Optum

Orion Innovation Sutherland WNS

Perficient Switzerland Yash Technologies

Persistent Systems Tata Elxsi ZenBit Tech

TCS **Pivot Point Consulting** Zensar Technologies

ProPharma Tech Mahindra



MEDICAL DEVICE DIGITAL SERVICES

## About Our Company & Research

# **†SG** 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.

# **İSG** Research

ISG Research™ provides subscription research, advisory consulting and executive event services focused on market trends and disruptive technologies driving change in business computing. ISG Research™ delivers guidance that helps businesses accelerate growth and create more value.

ISG offers research specifically about providers to state and local governments (including counties, cities) as well as higher education institutions. Visit: <a href="Public Sector">Public Sector</a>.

For more information about ISG Research™ subscriptions, please email <u>contact@isg-one.com</u>, call +1.203.454.3900, or visit research.isg-one.com.

# **\***SG

ISG (Nasdaq: III) is a global Al-centered technology research and advisory firm. A trusted partner to more than 900 clients, including 75 of the world's top 100 enterprises, ISG is a long-time leader in technology and business services sourcing that is now at the forefront of leveraging Al to help organizations achieve operational excellence and faster growth.

The firm, founded in 2006, is known for its proprietary market data, in-depth knowledge of provider ecosystems, and the expertise of its 1,600 professionals worldwide working together to help clients maximize the value of their technology investments.

For more information, visit <u>isg-one.com</u>.





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