CYIENT
Nothing Less

Engineering What's Next in Healthcare

Responsibly. Intelligently. At Scale



Connected products require connected engineering.

Medical devices are no longer standalone products. Innovation now spans device, software, data, manufacturing, quality systems, clinical workflows and post-market operations.

The mandate is clear: connect every stage of the product lifecycle with intelligence, traceability, and speed—from early design decisions to post-market performance.

One connected lifecycle. Four outcome-led priorities.

We bring domain expertise, silicon-to-software engineering, and AI-augmented platforms to accelerate innovation from concept to compliance. We help organizations reduce time-to-market, strengthen regulatory readiness, modernize infrastructure, and optimize lifecycle investments, turning breakthrough ideas into scalable, market-ready solutions.



Our key capabilities

- **Platform engineering:** Embedded systems, IoMT, device software, cloud-native platforms, API-first architecture, digital twins, interoperability across EHR, imaging, and lab systems, and secure edge integration.
- **Data and AI:** AI/ML, analytics, automation, predictive maintenance, anomaly detection, data lakes, dashboards, NLP/OCR, RAG/LLM workflows, and AI-led engineering productivity.
- **Quality and regulatory affairs:** QMS managed services, audit readiness, regulatory documentation, EUDAMED and UDI DataOps, FDA/EU MDR/IVDR support, ISO/MDSAP alignment, PMS, vigilance, PMCF, CAPA, and cybersecurity lifecycle operations.
- **Integrated ALM and PLM:** Digital thread across requirements, design, verification, manufacturing, supply chain, service, and post-market evidence.
- **Lifecycle ownership:** Sustenance engineering pods, engineering change management, VAVE and cost optimization, supplier transfer governance, product EOL management, and global delivery models.

Measurable outcomes



Accelerated new product introduction

For a compact clinical analyzer, Cyient delivered complete NPI and end-to-end ownership, supporting lab validation and manufacturing localization in India.



Improved lifecycle ownership and sustenance efficiency

For a global MedTech manufacturer, Cyient engineered a secure-by-design connected medical platform, strengthening cybersecurity resilience, reducing attack surface, and supporting regulatory compliance.



Strengthened AI-augmented quality and compliance readiness

For a European MedTech OEM, Cyient established an AI-driven Quality and Compliance CoE across audit, defect, CAPA, and PMQ workflows.

Outcomes

25% cost reduction and market launch within an **18-month** development cycle.

94% Identified vulnerabilities eliminated

63% faster audit preparation, **95%** documentation accuracy, **65%** faster defect resolution, and zero critical audit findings.

Our AI-augmented solutions, powered by CYiNGINE

CYiNGINE is our lifecycle engineering intelligence platform designed to help customers deploy AI effectively at enterprise scale. It brings together domain expertise, data, and AI into reusable playbooks that span the engineering, service, and quality & regulatory lifecycles, giving customers a common platform, a common data foundation, and a consistent way to measure outcomes.

Lifecycle focus	Accelerator / solution	What it solves	Use case	Impact delivered
Innovation acceleration	**MediQWorks.AI**	Manual, inconsistent imaging measurements and fragmented diagnostic workflows	AI-augmented quantification and cloud-based diagnostic reporting	Earlier anomaly detection, reduced hospital savings, regained clinical hours
Verification and validation acceleration	**CyFAST**	Manual test case generation, fragmented testing, and regulatory traceability needs	AI-led test case, test data, script generation, and impact analysis	Productivity gains across V&V activities and improved compliance confidence
Compliance readiness	**CyAUDIT.AI**	Manual evidence retrieval, inconsistent audit prep, and document validation gaps	QMS-aligned document validation, QSIT knowledge search, audit guidance	Faster audit preparation, fewer nonconformities, consistent gate readiness
Regulatory transformation	**CyARC**	Changing regulatory requirements and fragmented compliance workflows	MDD to MDR transition, regulatory gap assessment, checklist and remediation agents	Reduced timelines, improved accuracy, lower compliance effort
Design automation	**iSMART**	Manual stress/design reporting and validation effort	Automated dossier/report generation and rule-based validation	Reduced generation and validation time, improved engineer productivity
Change control	**ECN process automation**	Manual CN/GDP artifact checks, revision errors, and approval delays	Automated ECN review, compliance checks, and approval workflow support	Reduced review time, fewer submission rejections, first-pass approvals

Partner ecosystem

aws · esri · Microsoft · iBase-t · IBM · ptc · SIEMENS · salesforce · servicenow · thingtrax

Why Cyient?

Lifecycle ownership

End-to-end support across R&D, QA/RA, supply chain, manufacturing, service, and post-market operations.

Engineering-to-manufacturing strength

Cyient DET and DLM bring integrated design, digital engineering, and manufacturing capabilities.

35+ years of engineering expertise

Deep product engineering experience across complex, safety-critical industries, including strong MedTech partnerships.

Compliance-first delivery

QMS-aligned support across FDA, EU MDR, ISO, MDSAP, documentation, traceability, and audit readiness.

Global scale, strategic partnership

27 delivery centers, 15,000+ associates, healthcare COEs, and shared-risk engagement models.

AI-augmented acceleration

Reusable accelerators for V&V, SDLC, audit readiness, regulatory workflows, supplier compliance, and field intelligence.

Connected healthcare enablement

Secure IoT, edge, interoperability, remote monitoring, and digital revenue stream support.

Lower lifecycle cost

Sustenance engineering, war-on-cost programs, automation, and obsolescence management to free teams for innovation.

Accelerate every lifecycle—from concept to compliance and beyond.

Talk to our experts, today!

Cyient is a global lifecycle engineering services company powering mission-critical industries from design to aftermarket across products, plants, and networks. With 300+ customers and 15,000+ associates across 30+ countries, we combine human expertise, deep domain knowledge, and AI to deliver intelligent engineering for every lifecycle across Aerospace and Rail, Automotive and Mobility, Connectivity, Energy, Healthcare, Mining, Utilities, and beyond.

To learn how we deliver exemplary outcomes, nothing less, visit www.cyient.com.

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