

## Connected Product Engineering Services – Provider Compendium 2024

June 2024: Complimentary Abstract / Table of Contents

Provider Compendium Engineering Research and Development



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- Payer and Provider Information Technology
- ▶ Price Genius AMS Solution and Pricing Tool
- Pricing Analytics as a Service
- Process Intelligence
- Process Orchestration
- Procurement and Supply Chain
- Recruitment
- ▶ Retail and CPG IT Services
- ► Retirement Technologies
- Revenue Cycle Management
- ► Rewards and Recognition
- SAP Services
- ► Service Optimization Technologies
- ► Software Product Engineering Services
- Supply Chain Management (SCM) Services
- Sustainability Technology and Services
- ► Talent Genius<sup>™</sup>
- ► Technology Skills and Talent
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For more information on this and other

Nishant Udupa, Practice Director

Riya Agrawal, Senior Analyst

Shubham Pandey, Senior Analyst

research published by Everest Group, please contact us:

Rashi Garg, Senior Research Specialist

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## Background and introduction of the research

The recent advances in technology have led to a massive digital wave in the engineering world, wherein physical products are being enhanced by making them smarter, connected, autonomous, and intelligent. To cater to the evolving customer needs and provide a rich customer experience, enterprises are making significant investments in next-generation technologies such as AI/ML, AR/VR, 5G, blockchain, IoT, and cybersecurity, which serve as the backbone of digital products. However, the rapid pace of innovation and the need to stay ahead of market trends in this current space necessitates the need to establish a compelling partnership ecosystem that can help enterprises accelerate time-to-market. To cater to this growing demand from enterprises, engineering service providers are actively enhancing their capabilities and offerings to unlock the potential of data from connected products, integrate multiple technologies for better user experience, and ultimately engineer technologically sound digital products.

This research is the first edition of Everest Group's Connected Product Engineering Services – Provider Compendium, wherein we have presented an assessment of 21 engineering service providers featured on the Connected Product Engineering Services PEAK Matrix<sup>®</sup>.

Each provider profile provides a comprehensive picture of its service focus, key Intellectual Property (IP) / solutions, domain investments, and case studies. The assessment is based on Everest Group's annual RFI process for calendar year 2023, interactions with leading connected product engineering services providers, client reference checks, and an ongoing analysis of the engineering services market.

This report includes the profiles of the following 21 leading engineering services providers: Accenture, Akkodis, Apexon, Capgemini, Cognizant, Cyient, elnfochips, GS Lab | GAVS, HCLTech, Infosys, LTTS, N-iX, Onward Technologies, Randstad Digital, Softdel, Tata Elxsi, TCS, Tech Mahindra, UST, VVDN Technologies, and Wipro

#### Scope of this report

Geography: Global

**Industry:** 21 leading engineering service providers

**Services:** Connected product engineering services

# The report focuses on connected product engineering services and offers insights into prominent providers operating in this space

Connected produc	ts	Connected product engineering			
following attributes: sm	re physical products with one or more of the nart, intelligent, and autonomous, and are linked to formation about themselves, their environment,	Connected product engineering includes all activities that go into the engineering of special-purpose connected products across the value chain including ideation and design, product development, testing and certification, and product support and maintenance. It also includes both greenfield and brownfield product engineering efforts.			
Connected product engineering includes	Engineering of the smart and connected componen of connected products (e.g., infotainment systems telematics, and digital cockpits)		Software platform engineering work that is critical to the functioning of a connected product (e.g., remote patient monitoring app and device tracking app)		
It does not include	Engineering of products that are not connected in nature (e.g., powertrain, chassis, aerostructures, and surgical instruments)	Engineering work undertaken across the manufacturing and supply chain components of the value chain (manufacturing engineering)	Standalone software platform engineering work (e.g., B2B/B2C e-commerce app, mobile banking application, OTT app)		

Connected product engineering services value chain

Ideation and design	Product development	Testing and certification	> Product support and maintenance
<ul> <li>Requirements gathering and analysis</li> <li>Market research and user surveys</li> <li>Product design (3D modeling, CAD/CAM design, simulation-based design, Al-enabled design, etc.)</li> <li>UI/UX design</li> <li>Design validation and engineering</li> <li>Prototype creation</li> </ul>	<ul> <li>Embedded, hardware, and software engineering support</li> <li>Cognitive product development</li> <li>Edge analytics</li> <li>Voice user interface development</li> <li>Sensor integration</li> <li>3D printing and virtual prototyping</li> <li>Value engineering</li> <li>Reengineering and reverse engineering</li> </ul>	<ul> <li>Product performance and safety testing</li> <li>Product compliance and certification</li> <li>Test environment setup</li> <li>Virtual lab access</li> <li>Mechanical component and software product, and embedded systems testing</li> <li>Data-driven simulation and validation</li> <li>Security testing</li> <li>Network testing</li> </ul>	<ul> <li>Operations and maintenance engineering support</li> <li>Predictive maintenance and asset monitoring</li> <li>Technical support and troubleshooting (on-field technical service, Al-powered virtual assistants, etc.)</li> <li>Product upgrades</li> <li>Critical defect fixing</li> </ul>

# The connected product engineering service provider compendium report has profiles and buyer case studies for 21 leading engineering service providers

Provider 1 profile (page 1 of Overview Vision and strategy Provider's vision for connected product engineering services applications along with 15 sensors to offer the clients secure, integrate connected devices with real-time intelligence. With o and accelerators, Provider i aims to expedie building and laur applications. Provider 1 takes a consult-build-maintain approach for GTM by provide a consultative approach to sales.	Provider 1 profile (page 2 of 5 Case studies CASE STUDY 1 Business challenge The ident, a European automotive firm, required an HMI solut navigation features in the telematics of the vehicle.	Provider 1 profile (page 3 of 5) Solutions	Connected Product Engineering Services - Provider Compandium 20	Connected Product Engineering Services – Provider Compendium 2024   3 Connected Product Engineering Services – Provider Compendium 2024   4	
<us\$50 million<="" th="">         US\$50-100 million         US\$10-2           YoY growth rate in connected product engineering serve         -         &lt;</us\$50>	Solution Provider helped the client in design and development of HMI middleware components such as maps database and CPS. Pr creating product variants as per the feature segregations via c		Partnerships Key alliances and partnerships Partner name Partnerships AWS and Azure Partnership to strengthe Solutions from ThingTrax OTC Engineering A partnership to strengthe	[REPRESENTATIVE LIST] [NOT EXHAUSTIVE] Connected Product Eng Provider 1 profile (page 5 of 5) Investments	gineering Services - Provider Compendium 2024   5 IVE LIST] [NOT EXHAUSTIVE]
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## Research calendar

Engineering Research and Development

	Published Current release Planned
Reports title	Release date
Navigating the Enterprise Adoption of Generative AI	September 2023
ACES Mobility Engineering Services – Provider Compendium 2023	October 2023
Engineering Services Top 50 2023	December 2023
Trends in the Top 200 Engineering Research & Development (ER&D) Enterprises 2023	January 2024
Engineering Research and Development (ER&D) Outlook for 2024: Key Macroeconomic and Technological Trends Shaping the ER&D Industry	January 2024
Engineering Services CXO Insights: Key Issues Report 2024	January 2024
Interlude to Triumph : 5G Engineering Services State of the Market Report 2024	February 2024
ACES Automotive Engineering Services State of the Market 2023	March 2024
Making Brownfield Factories Smarter and Greener	April 2024
Connected Product Engineering Services PEAK Matrix® Assessment 2024	May 2024
Connected Product Engineering Services – Provider Compendium 2024	June 2024
ER&D Services Enterprise Pulse	Q2 2024
Connected Product Engineering Services State of the Market 2024	Q2 2024
Engineering Services Top 50 2024	Q3 2024
Leading the Pack: Trends for the Top 200 Engineering Research & Development (ER&D) Enterprises	Q3 2024
Viewpoint on automotive engineering	Q4 2024

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Dallas (Headquarters) info@everestgrp.com	Bangalore india@everestgrp.com	Delhi india@everestgrp.com	London unitedkingdom@everestgrp.com	Toronto canada@everestgrp.com
+1-214-451-3000	+91-80-61463500	+91-124-496-1000	+44-207-129-1318	+1-214-451-3000
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