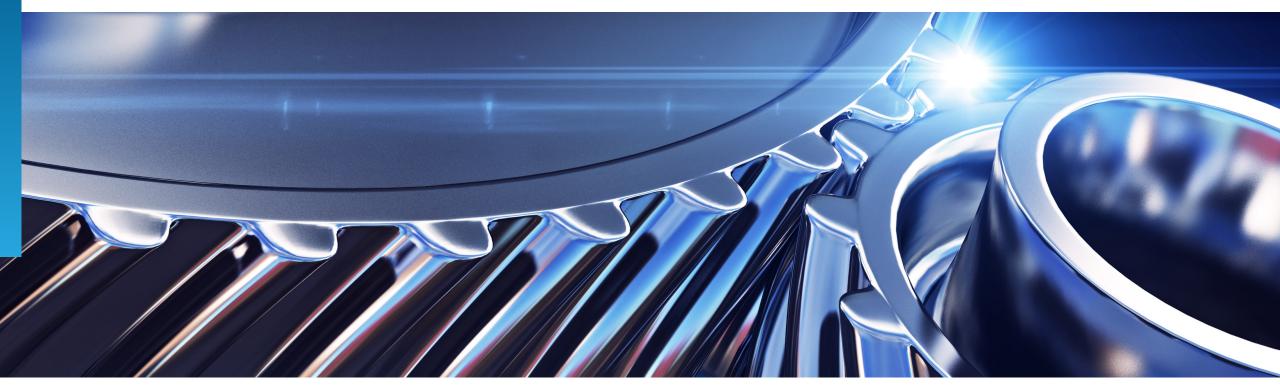




# **5G Engineering Services PEAK Matrix® Assessment 2023: The Next Frontier in the Hyperconnected Era**

June 2023: Complimentary Abstract / Table of Contents



Copyright © 2023 Everest Global, Inc.

We encourage you to share these materials internally within your company and its affiliates. In accordance with the license granted, however, sharing these materials outside of your organization in any form — electronic, written, or verbal — is prohibited unless you obtain the express, prior, and written consent of Everest Global. Inc. It is your organization's responsibility to maintain the confidentiality of these materials in accordance with your license of them.

## **Our research offerings**

## This report is included in the following research program(s):

## Engineering Services, Digital Engineering Services

- ► Amazon Web Services (AWS)
- Application Services
- Artificial Intelligence (AI)
- Asset and Wealth Management
- ▶ Banking and Financial Services Business Process
- Banking and Financial Services Information Technology
- ▶ Catalyst<sup>™</sup>
- ► Clinical Development Technology
- ► Cloud and Infrastructure
- ▶ Contingent Staffing
- ► Contingent Workforce Management
- ▶ Customer Experience Management Services
- CX Excellence
- CXM Technology
- Cybersecurity
- Data and Analytics
- ► Digital Adoption Platforms
- ▶ Digital Services
- ▶ Digital Workplace
- ► Employee Experience Management (EXM) Platforms
- ► Employer of Record (EOR)
- ▶ Engineering Research and Development
- ▶ Engineering Services
- ▶ Enterprise Platform Services
- ► Exponential Technologies

- ► Finance and Accounting
- ► Financial Services Technology (FinTech)
- ▶ GBS Talent Excellence
- ► Global Business Services
- ▶ Google Cloud
- ► Healthcare Business Process
- ▶ Healthcare Information Technology
- ▶ HealthTech
- ▶ Human Resources
- ▶ Insurance Business Process
- ▶ Insurance Information Technology
- ► Insurance Technology (InsurTech)
- ▶ Insurance Third-Party Administration (TPA) Services
- ▶ Intelligent Document Processing
- ▶ Interactive Experience (IX) Services
- ▶ IT Services Excellence
- ► IT Services Executive Insights™
- ▶ IT Talent Excellence
- ▶ Life Sciences Business Process
- ► Life Sciences Commercial Technologies
- ► Life Sciences Information Technology
- ▶ Locations Insider™
- ▶ Marketing Services
- ▶ Market Vista™
- ▶ Microsoft Azure

- Modern Application Development (MAD)
- Mortgage Operations
- ► Multi-country Payroll
- Network Services and 5G
- ▶ Oracle Services
- Outsourcing Excellence
- ▶ Pricing Analytics as a Service
- ▶ Process Mining
- ▶ Process Orchestration
- ▶ Procurement and Supply Chain
- Recruitment
- ▶ Retail and CPG Information Technology
- ▶ 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™
- ► Technology Skills and Talent
- ► Trust and Safety
- ▶ Value and Quality Assurance (VQA)

If you want to learn whether your organization has a membership agreement or request information on pricing and membership options, please contact us at info@everestgrp.com

Learn more about our custom research capabilities

Benchmarking

Contract assessment

Peer analysis

Market intelligence

Tracking: providers, locations, risk, technologies

Locations: costs, skills, sustainability, portfolios



# Contents

For more information on this and other research published by Everest Group, please contact us:

Akshat Vaid, Partner

Nishant Udupa, Practice Director

Riya Agrawal, Senior Analyst

Manjul K, Senior Analyst

Sakthi Vishnu S, Senior Analyst

Agnivesh Tripathy, Senior Analyst

1.	Introduction and overview	5
	Research methodology	6
	Key sources of proprietary information	7
	Background and introduction of research	8
	Defining 5G engineering services	9
	Scope of 5G engineering services	10
2.	5G Engineering Services PEAK Matrix® characteristics	11
	PEAK Matrix framework	12
	Everest Group PEAK Matrix for 5G Engineering Services	15
	5G Engineering Services PEAK Matrix characteristics	16
	Star Performers	17
	Service provider capability summary dashboard	18
3.	Enterprise sourcing considerations	22
	• Leaders	22
	- Accenture	23
	- Capgemini	24
	- HCLTech	25
	- Infosys	26
	– NTT DATA	27
	- TCS	28
	- Tech Mahindra	29

# Contents

	Major Contenders	30
	– Brillio	31
	- Cyient	32
	– DXC Luxoft	33
	- HARMAN DTS	34
	– IBM	35
	– LTTS	36
	- Tata Elxsi	37
	- Tietoevry	38
	<ul> <li>VVDN Technologies</li> </ul>	39
	- Wipro	40
	Aspirants	41
	- BICS	42
	- GS Lab I GAVS	43
	- Sasken	44
	Appendix	45
	Glossary	46
	Research calendar	47



## Introduction

5G's lower latency and higher bandwidth has unlocked newer use cases for enterprises to explore. Additionally, adoption of 5G is allowing transformation of network infrastructure to make them quickly scalable, leading to higher levels of customization and lower operating costs. Enterprises are primarily exploring the below areas within 5G engineering:

- Decoupling of hardware and software in the form of network function virtualization and automation of network operations to lower the costs of network hardware, accelerate network deployment, and enhance efficiency in establishing networks
- Adoption of open-source components (hardware and software) and benchmarking their performance and operational challenges against proprietary solutions
- Feasibility of 5G-enabled use cases to boost monetization opportunities
- 5G-enabled private networks and edge computing solutions to improve industrial processes through connected IoT devices, improved data security protocols, reduced operational expenses, and faster decision-making

However, the nascent nature of the market is leading to uncertainty and increased complexity for enterprises. As a result, they are looking to partner with service providers to share development risks, lower operational costs, implement system integration measures, bring in a larger talent pool, and leverage the diverse expertise of their partner ecosystem to engineer solutions faster. To address these expectations, service providers are investing in enhancing their 5G engineering capabilities through skillset development programs, CoEs, labs to carry out R&D and showcase their solutions, partnerships with ecosystem players, and strategic investments to gain competencies and expand across geographies.

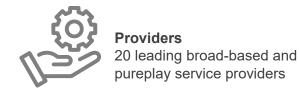
This research, the second edition of Everest Group's 5G Engineering PEAK Matrix® Assessment, evaluates 20 engineering service providers, features them on the PEAK Matrix®, and shares insights on enterprise sourcing considerations. The study is based on RFI responses from service providers, interactions with their 5G engineering leadership, client reference checks, and ongoing analysis of the engineering services market.

This report includes the profiles of the following 20 leading engineering service providers featured on the 5G Engineering Services PEAK Matrix:

- Leaders: Accenture, Capgemini, HCLTech, Infosys, NTT DATA, TCS, and Tech Mahindra
- Major Contenders: Brillio, Cyient, DXC Luxoft, HARMAN DTS, IBM, LTTS, Tata Elxsi, Tietoevry, VVDN Technologies, and Wipro
- Aspirants: BICS, GS Lab I GAVS, and Sasken

## Scope of this report









## Overview and abbreviated summary of key messages

This report examines the global 5G engineering services landscape and assesses 20 service providers. It focuses on service providers' capabilities and market impact in helping enterprises enable 5G integration through equipment engineering, network engineering, and solution engineering services. It also draws insights on the trends being followed by service providers in 5G engineering services.

## Some of the findings in this report, among others, are:

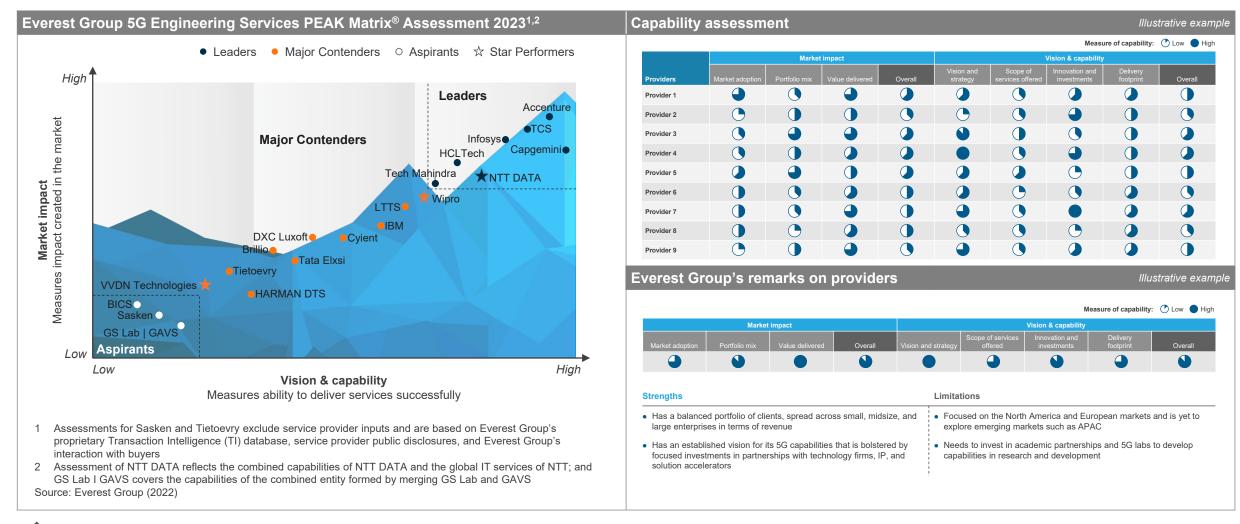
## Service provider position and delivery capability

- Service providers can be categorized into leaders, major contenders, and aspirants on a capability-market-share matrix for 5G engineering services
- Accenture, Capgemini, HCLTech, Infosys, NTT DATA, TCS, and Tech Mahindra are the current leaders in the global 5G engineering services market. However, several service providers are emerging as major contenders
- NTT DATA, VVDN Technologies and Wipro have emerged as the Star Performers owing to the compelling growth momentum showcased by them both in terms of revenue and differentiated capabilities

## Service provider characteristics

- The Leaders segment includes broad-based global players, which have existing capabilities to build on as well as wide client bases giving them an edge in winning client engagements. They are also investing significantly in enhancing their 5G engineering capabilities in the form of talent upskilling, labs and CoEs, building extensive partner ecosystem that would help accelerate the pace of 5G deployment and streamline operations, and explore current themes in 5G engineering such as virtualization and adoption of open-source components
- The Major Contenders segment comprises both broad-based global players and pureplay firms that have a noteworthy presence in 5G engineering services and showcase expertise in specific areas within 5G. Their distribution of revenue and client portfolio is generally inclined toward specific subsegments, ecosystem entities, or verticals with lower presence across others. Most Major Contenders are small to midsized firms with a fast-growing 5G engineering services business
- Aspirants consist of players whose 5G engineering services business is in nascent stages. They have capabilities in specific stages of the value chain and limited diversity in their client portfolio. They have a smaller employee base and limited geographical presence that hinders their chances at scaling their business rapidly. They have made limited investments in enhancing their 5G engineering capabilities and they are more focused on scaling the current offerings than having a diversified portfolio

## This study offers three distinct chapters providing a deep dive into key aspects of the 5G engineering services market; below are three charts to illustrate the depth of the report



## **Research calendar**

## **Engineering Services**

Published Published	Planned	Current release	
Reports title		Release date	
Acing the Art of Platform-driven Growth: Software Product Engineering Services PEAK Matrix® Assessment 2023	D	ecember 2022	
Software Product Engineering Services – Provider Compendium 2023		February 2023	
Unleashing the Era of Phygital Manufacturing – Industry 4.0 State of the Market 2023	l	February 2023	
Engineering R&D (ER&D) Outlook for 2023		February 2023	
Engineering Services CXO Insights: Key Issues Report 2023		April 2023	
5G Engineering Services PEAK Matrix® Assessment 2023: The Next Frontier in the Hyperconnected Era		June 2023	
Unlocking the Growth Frontier through Software Product Innovation		Q2 2023	
Undertaking the Digital Platform Adoption Journey		Q2 2023	
Software Product Engineering Services State of the Market 2023		Q2 2023	
5G Engineering Services – Provider Compendium 2023		Q2 2023	
Engineering Services Top 50 2023		Q3 2023	
ACES Mobility Automotive Engineering Services PEAK Matrix® Assessment 2023		Q3 2023	
ACES Mobility Engineering Services – Provider Compendium 2023		Q3 2023	
 Trends in the Top 200 Engineering Research & Development (ER&D) Enterprises 2023		Q3 2023	
 Digital Twin Services PEAK Matrix® Assessment 2023		Q3 2023	-

Note: Click to see a list of all of our published Engineering Services reports







Everest Group is a leading research firm helping business leaders make confident decisions. We guide clients through today's market challenges and strengthen their strategies by applying contextualized problem-solving to their unique situations. This drives maximized operational and financial performance and transformative experiences. Our deep expertise and tenacious research focused on technology, business processes, and engineering through the lenses of talent, sustainability, and sourcing delivers precise and action-oriented guidance. Find further details and in-depth content at www.everestgrp.com.

## Stay connected

## Dallas (Headquarters)

info@everestgrp.com +1-214-451-3000

### Bangalore

india@everestgrp.com +91-80-61463500

#### Delhi

india@everestgrp.com +91-124-496-1000

#### London

unitedkingdom@everestgrp.com +44-207-129-1318

#### **Toronto**

canada@everestgrp.com +1-647-557-3475

### Website

everestgrp.com

### **Social Media**

in @Everest Group

@Everest Group

▶ @Everest Group

### Blog

everestgrp.com/blog

This document is for informational purposes only, and it is being provided "as is" and "as available" without any warranty of any kind, including any warranties of completeness, adequacy, or fitness for a particular purpose. Everest Group is not a legal or investment adviser; the contents of this document should not be construed as legal, tax, or investment advice. This document should not be used as a substitute for consultation with professional advisors, and Everest Group disclaims liability for any actions or decisions not to act that are taken as a result of any material in this publication.

#### NOTICE AND DISCLAIMERS

IMPORTANT INFORMATION. PLEASE REVIEW THIS NOTICE CAREFULLY AND IN ITS ENTIRETY. THROUGH YOUR ACCESS. YOU AGREE TO EVEREST GROUP'S TERMS OF USE.

Everest Group's Terms of Use, available at www.everestgrp.com/terms-of-use/, is hereby incorporated by reference as if fully reproduced herein. Parts of these terms are pasted below for convenience; please refer to the link above for the full version of the Terms of Use.

Everest Group is not registered as an investment adviser or research analyst with the U.S. Securities and Exchange Commission, the Financial Industry Regulatory Authority (FINRA), or any state or foreign securities regulatory authority. For the avoidance of doubt, Everest Group is not providing any advice concerning securities as defined by the law or any regulatory entity or an analysis of equity securities as defined by the law or any regulatory entity.

All Everest Group Products and/or Services are for informational purposes only and are provided "as is" without any warranty of any kind. You understand and expressly agree that you assume the entire risk as to your use and any reliance upon any Product or Service. Everest Group is not a legal, tax, financial, or investment advisor, and nothing provided by Everest Group is legal, tax, financial, or investment advice. Nothing Everest Group provides is an offer to sell or a solicitation of an offer to purchase any securities or instruments from any entity. Nothing from Everest Group may be used or relied upon in evaluating the merits of any investment. Do not base any investment decisions, in whole or part, on anything provided by Everest Group.

Products and/or Services represent research opinions or viewpoints, not representations or statements of fact. Accessing, using, or receiving a grant of access to an Everest Group Product and/or Service does not constitute any recommendation by Everest Group that recipient (1) take any action or refrain from taking any action or (2) enter into a particular transaction. Nothing from Everest Group will be relied upon or interpreted as a promise or representation as to past, present, or future performance of a business or a market. The information contained in any Everest Group Product and/or Service is as of the date prepared, and Everest Group has no duty or obligation to update or revise the information or documentation. Everest Group may have obtained information that appears in its Products and/or Services from the parties mentioned therein, public sources, or third-party sources, including information related to financials, estimates, and/or forecasts. Everest Group has not audited such information and assumes no responsibility for independently verifying such information as Everest Group has relied on such information being complete and accurate in all respects. Note, companies mentioned in Products and/or Services may be customers of Everest Group or have interacted with Everest Group in some other way, including, without limitation, participating in Everest Group research activities.