



CYIENT

DRIVING INNOVATION AND GROWTH IN AEROSPACE & DEFENSE WITH INTEGRATED MANUFACTURING SOLUTIONS

Improve product quality, reliability, and time-to-market while focusing on cost efficiency.

Overview

Forecasts indicate that the worldwide commercial passenger and cargo aircraft fleet, as well as the passenger numbers, are going to double over the next two decades. At the same time, the international demand for defense and military products is increasing due to uncertainties brought on by regional tensions—as a result of the growing defense budgets of impacted countries facing sovereign security threats. Consequently, the Aerospace and Defense (A&D) Original Equipment Manufacturers (OEMs) are reassessing their business models, and have shifted their focus to leveraging new ways to design, build, and maintain technologically-advanced aircraft and defense equipment to meet this rising demand and remain competitive in the industry. However, techno-commercial challenges including price pressure from suppliers, margin pressure from the market, barriers to entering new markets, increasing and stringent regulations,

and operational inefficiencies impacting the cost of operations continue to persist.

The impetus for A&D OEMs is to identify a different approach to new product innovation that will help them realize their business objectives. The challenge is, however, how to adopt new manufacturing capabilities to meet growth opportunities, and stay competitive within A&D at the same time?

Cyient: Your integrated Design Led Manufacturing Partner

Cyient is a leading provider of design to manufacture services—ranging from concept to development and then aftermarket support. We help our clients transition the product lifecycle from design to build and maintain, with a focus on delivering significant value to our clients. We achieve this by leveraging an integrated manufacturing approach.

Our services portfolio includes



DESIGN

- Mechanical systems and structures:
 - Design and development
 - Manufacturing process engineering
 - Certification support
- Avionics: Complete HDLC and SDLC
 - Planning (SOI#1)
 - Development (SOI#2)
 - Validation and verification (SOI#3)
 - Final certification review (SOI#4)



BUILD

- Manufacture of
 - Electronic LRM/LRU and circuit card assemblies
 - Complex over-molded wire and cable harness assemblies
 - Design and development of automated test equipment
 - Precision-machined components down to a 10 micron tolerance
 - Aftermarket manufacturing support



MAINTAIN

- From forecasting maintenance needs to technical support and repair engineering
- Aircraft health management
- Operability enhancements using big data
- Product upgrades and obsolescence

Cyient Advantage

We have been a strategic partner for our clients delivering iterative techno-commercial solutions across multiple industries for more than 20 years. As an integrated Design-Build-Maintain company, Cyient is the only solutions provider having expertise in co-developing solutions customized to specific design requirements, manufacturing, and providing on-site support. With us as your value-added partner, you can:

- **Reduce costs** arising from manufacturing challenges with our obsolescence management services
- **Reduce product cost** with our value engineering recommendations
- **Leverage** efficient design, component, and production processes
- **Improve operational efficiency** with our wide range of solution offerings
- **Simplify vendor relationships** by working with a leading, well-established, risk-sharing partner covering the A&D lifecycle
- **Benefit** from a seamless transition cut across design phases to the manufacturing phase.

CYIENT'S AEROSPACE AND DEFENSE PRACTICE HAS BEEN RATED IN THE LEADERSHIP ZONE BY THE ZINNOV ZONES PRODUCT ENGINEERING SERVICES REPORT FOR FIVE CONSECUTIVE YEARS SINCE 2012.

Areas of expertise

- NPI/NPR and value engineering/re-engineering
- DfX solutions, PCB assemblies
- System build and product assembly
- High-precision machining, plastic injection molding, and additive manufacturing
- Robust supply chain ecosystem and localizing capabilities
- Strong manufacturing engineering process for electronic manufacturing
- Embedded software and hardware, including avionics and electrical systems

Credentials

- We are one of the first integrated manufacturing service providers in India to obtain AS 9100 aerospace certification
- All of our assemblies conform to J-STD-001 and IPC 610 Class III/II standards. In addition, we are RoHS, WEEE, REACH, CE and ErP compliant; and our associates are trained in J-STD-001, IPC-A-610, and IPC-7711/21 standards
- Our additional accreditations include: ISO-9001:2015, Nadcap, and industrial licenses to manufacture defense equipment and assemblies

About Cyient

Cyient (Estd: 1991, NSE: CYIENT) provides engineering, manufacturing, geospatial, networks, and operations management services to global industry leaders. We leverage the power of digital technology and advanced analytics capabilities, along with domain knowledge and technical expertise, to solve complex business problems. As a Design, Build, and Maintain partner, we take solution ownership across the value chain to help our clients focus on their core, innovate, and stay ahead of the curve.

Relationships lie at the heart of how we work. With more than 15,000 employees in 22 countries, we partner with clients to operate as part of their extended team, in ways that best suit their organization's culture and requirements. Our industry focus spans aerospace and defense, medical, telecommunications, rail transportation, semiconductor, utilities, industrial, energy and natural resources.

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