



## CLIENT EXPERIENCE

HAL gains a robust and scalable technological platform by successfully migrating to Teamcenter with TCS' assistance

Customer  
**Hindustan Aeronautics Limited (HAL)**

Industry  
**Aerospace**

Offering  
**Engineering and Industrial Services**

Hindustan Aeronautics Limited (HAL), a premier aeronautical company in India, has been a forerunner in the drive for greater self-reliance in aircraft and aerospace product manufacture in India.

Over the years, HAL has continuously stepped up its R&D efforts for indigenisation of aeronautical materials, manufacturing technologies, design and development of systems and equipment. To do this, HAL needed IT systems that were aligned with the overall business strategy and supported innovation. Its heterogeneous IT infrastructure and applications running on legacy platforms did not support these business objectives; the company hence decided to upgrade its IT environment.

Upgrading its Product Data Management (PDM) system was a priority for HAL. With the cessation of vendor support for its existing iMAN system, this was all the more necessary and urgent. The company engaged its long-standing partner, TCS, to perform the upgrade. In a one-of-its-kind upgrade, TCS migrated the largest and most complex database, in a record time of 37 days, to the chosen platform and also provided HAL with a technological foundation that supported changing business needs.



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## TCS Solution

TCS worked as an extended arm of HAL; the team operated from HAL's Aircraft Research and Design Center (ARDC), Bangalore to provide an enterprise solution that captured the knowledge and expertise of lifecycle participants. The technology rich solution was further enhanced with additional features to ensure that the products and services conformed to the highest standards of design, manufacture and reliability.

TCS migrated the data from the unsupported iMAN v5.1 to Teamcenter. Its PLM Centre of Excellence (CoE) built standard migration templates and automation tools that helped execute the migration flawlessly and in a record time of 37 days. Salient features of TCS' solution include:

- A high scalability solution without any changes in the base configuration
- Re-usability of design knowledge
- Windows-like interface
- Option of having web-based clients

TCS adopted a unified delivery framework to ensure timely delivery. The framework consisted of a knowledge management system that captured learning from past projects and provided an incentive to create knowledge assets from new projects, thus helping HAL build a robust system for the future. TCS used its Knowledge Management Assessment Methodology to evaluate the existing knowledge processes and complete the migration within six weeks, thus eliminating the need for a long-drawn and expensive consulting exercise.

TCS also recommended the best hardware to suit HAL's requirements and build flexibility in IT. The recommended hardware supports business agility,

enhances effective utilisation and ensures minimal costs.

In addition, TCS conducts regular seminars for HAL to provide up-to-date information about current trends in technology. TCS' efforts and contributions have been recognised by HAL – TCS was awarded a commendation letter by the GM HAL ARDC, a testimony to the excellent work done.

## Benefits

The upgrade solution implemented by TCS helped HAL to:

- Move to the latest software platform without any disruptions to existing business functions, within stringent timelines and with near-zero defects
- Accelerate the design process
- Re-use design knowledge
- Continuously improve innovation
- Continually reduce the cost and shorten the time-to-market
- Enhance operational efficiencies
- Ensure support for future business growth
- Reduce risk

## About TCS Engineering and Industrial Services

Engineering and Industrial Services (EIS) is a strategic business unit of TCS that offers a wide spectrum of engineering services and solutions, covering new product development, product lifecycle management, plant solutions and geospatial technology solutions. These services & solutions cater to different industry verticals such as Aerospace & Defense, Automotive, Hi Tech, Telecom, Energy & Utilities, Government, Industrial Machinery and Medical Devices.

“ARDC’s long term relationship with TCS for the last ten years has really helped us achieve great heights in terms of PDM and paperless project for the Intermediate Jet Trainer, which could be rolled out in a record time of 39 months. The Digital Mock Up studies has helped an interference free installation, saving time and cost without compromising on quality. Their services which included hardware infrastructure recommendations, software selection and implementation, customization to ARDC’s business process, training upgradation and onsite support have been exemplary.

**- P.L. Vaishampayan,  
GM, HAL ARDC**

## About Tata Consultancy Services

Tata Consultancy Services is an IT services, business solutions and outsourcing organization that delivers real results to global businesses, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled services delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development.

A part of the Tata Group, India’s largest industrial conglomerate, TCS has over 143,000 of the world’s best trained IT consultants in 42 countries. The company generated consolidated revenues of US \$6 billion for fiscal year ended 31 March 2009 and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

For more information, visit us at [www.tcs.com](http://www.tcs.com).

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