



# Aerospace

## *Global References & Case Studies*

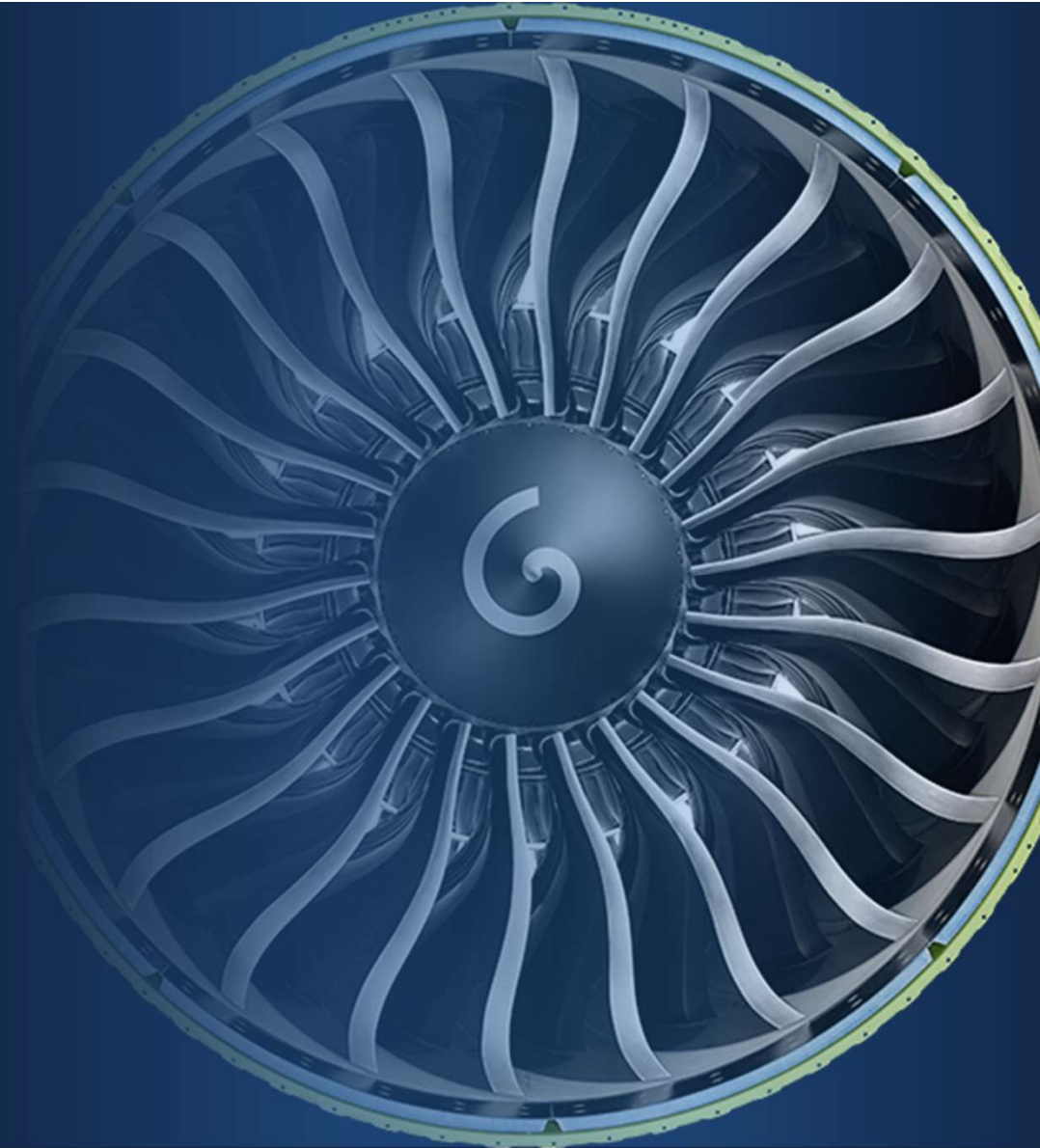
GE Digital



## 75% of the world's Top 30 Aerospace companies use GE Digital solutions

### Our customers include

- Aircraft OEMs: commercial, military, business and general aviation
- Engine manufacturers and other Tier 1 components
- Tier 2 manufacturers including equipment suppliers and assembly shops
- Diverse Tier 3 parts manufacturers such as fasteners, tubing and bearings
- System integrators
- Airports around the world
- And more ...



# Modernizing Aerospace Manufacturing

The modern Aerospace “Smart Factory” requires a range of technology solutions: IoT-fueled production efficiency and quality, mobility, high performance SCADA, and massive operational data gathering, reporting, analytics, and optimization.

Access to accurate, timely data is essential. Reliable automation ensures operations can function at peak performance and with compliance.

Our automation, MES, industrial data management, and analytics solutions: increase efficiency, improve uptime, support sustainability, enhance security, and improve regulatory compliance.

*Increase the reliability and efficiency of your Aerospace operations by connecting your machines, data, insights, and people.*

## GE's Experience

Aerospace is our heritage: more than 100 years  
Aerospace customers around the world: Americas, Europe, MENAT, Asia  
Long-term relationships: decades of experience



# Think Big

From super SCADA to top-ranked MES to enterprise-wide industrial data management & analytics

- More than 21,000 customers
- Majority of Top 10 leading Aerospace companies use GE Digital software
- 2500+ GE software customers have systems with >500,000 tags
- #1 MES according to 2021 analyst report
- SCADA with 99.999999999% availability

GE and our software are known for serving the world's largest Aerospace companies



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# Improved efficiency with OneMES roadmap



GE Aviation

## Achieving Maximum Efficiency through a OneMES Roadmap

Learn how the team at GE Aviation is deploying their next generation MES that reduces the number of applications across 50+ manufacturing shops, allowing for maximum efficiency of the shop floor works while tracking the engine build genealogy to the final bolt put on an engine.

GE Aviation's OneMES roadmap leverages Proficy Plant Applications and its ability to handle mixed manufacturing environments – for one solution with MES, quality, and machine connectivity.

Also, discover how the team is working with Proficy Operations Hub as the next step in new generation visualization.

WATCH GE AVIATION  
VIDEO



AVIATION | ASIA

# Increased efficiency and accuracy



## MES Project Overview

A 50/50 joint venture between Rolls-Royce and Hindustan Aeronautics Limited (HAL), IAMPL manufactures more than 100 different compressor parts for Rolls-Royce.

Each shroud, cone and ring is unique to an engine to achieve maximum efficiency, and all parts are machined with an accuracy of a few microns.

Learn how the MES journey at IAMPL has improved productivity, Right First Time (RFT), machine capacity utilization, and cycle time while also reducing rejects and providing better tracking of parts and visibility into operations.

Key functionality – based on Proficy Plant Applications, CIMPLICITY HMI/SCADA, Proficy Workflow, Proficy Historian, and Proficy WebSpace – includes production management, efficiency management and OEE, quality management, reporting, and integration with ERP, machines, Advanced Planning and Scheduling, and DNC.

[WATCH IAMPL VIDEO](#)



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# Reducing costs by 20% with OT data in the cloud



GE Aviation

## Reducing Costs with Proficy Historian for Cloud

GE Aviation uses Proficy Historian to manage OT data in 32 manufacturing plants.

“Managing this amount of data is costly,” said Bill Andrews, Technical Product Manager, GE Aviation. “By moving from 32 distinct deployments to a single deployment of Proficy Historian on AWS, we can dramatically reduce management costs and downtime while improving value, scalability, and reliability.”

The company expects to:

- Reduce infrastructure costs by more than 20%
- Decrease annual resources by \$185K

The team will also improve system availability by:

- Eliminating more than a month of planned downtime
- Enabling a common data store accessible by thousands of enterprise-wide employees.

