CYIENT
Nothing Less

Intelligent MRB & Engineering for Aerospace Production

Faster closure of Non-conformance and certification-ready decisions at scale



Aerospace manufacturing operates at the edge of tolerance. Across airframe and aero-engine programs, **non-conformances are inevitable**, arising from material behavior, process variation, and production scale. What determines production stability is **how effectively those non-conformances are assessed, justified, and approved**. This is where **MRB and Non-conformance assessments work together**:

MRB determines technical acceptability and risk

Non-conformance enable controlled deviation, certification alignment, and continued production

Delays, inconsistent judgments, or overly conservative decisions slow certification, increase rework and disrupt delivery schedules.

With **18+ years of aerospace concessions experience, 16+ years of continuous MRB engagement,** and a global organization of **300+ MRB**, Concessions, and **QN engineers**, Cyient enables aerospace OEMs and Tier-1s to manage **MRB and Concessions as a single, intelligent engineering system,** embedded across **airframe structures** and **aero-engine domains** and connected directly to live manufacturing workflows.

Built for Production Reality: Cyient's Integrated MRB & Non-conformance Execution

By operating inside customer production environments, Cyient helps move non-conformances from identification to approval—aligned to manufacturing and certification needs. We combine **structured analysis with digital execution** to enable **faster decisions, cleaner approvals, and certification-ready outcomes,** without compromising airworthiness.

Design & Structural Assessment

Design, stress, fatigue, and damage tolerance evaluations for metallic and composite non-conformances

Repair & Disposition Engineering

Repair, blend, shim, and use-as-is solutions developed with full stress justification and customer methodology alignment

Structural Margin Optimization

Iterative structural analysis and methodology review to resolve low margins and support acceptance decisions

Production & Shop-Floor Support

Real-time MRB support embedded in manufacturing, with coordination across design and stress approvers

Technical Variance & ADL Development

Engineering assessment and definition of allowable deviations for conditions such as engine inlet duct corrosion

Non-conformance assessment Workflow & PLM Integration

Unified Non-conformance flow through customer PLM systems ensuring traceability and closure

Process & Productivity Enablement

Workflow tools, value-stream mapping, and targeted process improvements to increase MRB throughput and consistency

The result is **technically defensible, certifiable, and production-ready dispositions**, delivered in alignment with live manufacturing priorities.

Scaled for Production. Proven in Delivery.

When applied across different programs, this approach delivers consistent outcomes, bringing **scale, judgment, and authority** required to support high-volume aerospace production.

Scale in Operation

600+
Average Non-conformances handled per month, consistently

3,500+
work packages delivered without production disruption

Efficiency Delivered

TAT reduced from
~8 days to **~2 days**
for complex Non-conformance

>95%
Right-First-Time outcomes

~92%
reduction in analysis turnaround

Together, these outcomes demonstrate **how intelligent MRB and Non-conformance execution** translates into **predictable production performance**.

Measurable Impact Where It Matters Most

Across live aerospace programs, Cyient brings structured analysis and workflow-integrated execution to non-conformance management, cutting cycle time by 50%+ and eliminating hundreds of non-conformances.

01

Rapid Disposition for Airframe Alignment Deviations

What We Did:
Automated the disposition workflow for a recurring airframe alignment deviation type, replacing manual processing with a standardized, repeatable approach.

Impact Delivered:
Turnaround time reduced from **~40 hours** to **~2 hours (~95% reduction)** and **~50 pages** of manual processing eliminated per case.

02

Composite NC Elimination

What We Did:
Validated shim- and packer-based design solutions and released corrective actions through engineering change notices (ECNs).

Impact Delivered:
~120 active non-conformances eliminated and **~400** future Non-conformances prevented.

03

Aero-Engine MRB & Quality Notifications (QN)

What We Did:
Delivered delegated design, structures, thermal, and quality assessments supported by automated analysis and reporting.

Impact Delivered:
~70% backlog reduction, **50%+** cycle-time reduction, and **$6.8Mn** savings.

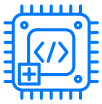
Why Cyient is a Trusted Partner for Airworthiness-Critical Decisions

01

Authorized to decide, not just advise

Cyient operates with customer-delegated engineering authority, enabling direct MRB and QN approvals with accountability.





Embedded where production decisions are made

MRB execution is aligned to the shop floor and integrated into customer PLM systems, keeping decisions close to manufacturing reality.

02

03

Built to handle volume without compromise

High Non-conformance throughput delivered consistently across airframe and aero engine programs.





Decisions driven by rigor, accelerated by automation

Standardized analysis and automation ensure speed without compromising technical confidence.

04

05

Focused on stability, not just closure

MRB outcomes feed back into design and production, to reduce repeat non-conformances and protect delivery.



Want Certification-Ready MRB Outcomes?

Talk to our Expert

Cyient is a global lifecycle engineering services company powering mission-critical industries from design to aftermarket across products, plants, and networks. With 300+ customers and 15,000+ associates across 30+ countries, we combine human expertise, deep domain knowledge, and AI to deliver intelligent engineering for every lifecycle across Aerospace and Rail, Automotive and Mobility, Connectivity, Energy, Healthcare, Mining, Utilities, and beyond.

To learn how we deliver exemplary outcomes, nothing less, visit www.cyient.com.

North America Headquarters
USA
T: +1 860 528 5430

Europe, Middle East, and Africa Headquarters
UK
T: +44 118 3043720

Asia Pacific Headquarters
Australia
T: +61 2 8887 8600

Global Headquarters
Hyderabad
T: +91 40 6764 1000

facebook.com/cyient @cyientnews linkedin.com/company/cyient

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