# CYIENT

# OBSOLESCENCE MANAGEMENT SOLUTIONS FOR THE AEROSPACE & DEFENSE INDUSTRY

We help optimize business performance by improving asset availability and utilization

## Supporting the industry challenges of tomorrow

Electronic component obsolescence is a major problem for the aerospace industry as production cycles are far too short to support aerospace products, with life cycles exceeding 25-30 years.

At Cyient, we help our clients manage and optimize existing product portfolios, and we have extensive experience in providing value-added services and resources—ranging from new technology adoption, new feature addition to part obsolescence management.

## Addressing obsolescence issues proactively throughout the system's life cycle

Cyient helps its clients ensure the long-term quality and availability of their systems and products through comprehensive solutions that cover all aspects of the product life cycle, from design through production to aftermarket support.

## KEY HIGHLIGHTS

Obsolescence analysis during the design phase

Component obsolescence mandated redesign and certification support

Flexible partnership models to execute obsolescence redesign

## Obsolescence management solutions

- Import of BoM and LRU details to the COTS tools
- Component obsolescence tracking
- Solving obsolescence by:
  - One-to-one replacement options
  - Last Time Buy (LTB) or sunset Replacement services
    - Board level redesign
    - Board refurbishment
    - Verification
    - Testing and certification
    - Re-entry into service

## Our obsolescence management experience

### Parts obsolescence management
- Obsolescence report/alert generation
- Second sourcing/qualification of alternate components
- Part replacement, alternate finding/form, fit and function replacements
- Value engineering

### RoHS/ REACH/ Conflict minerals
- RoHS/ REACH SVHC data collection
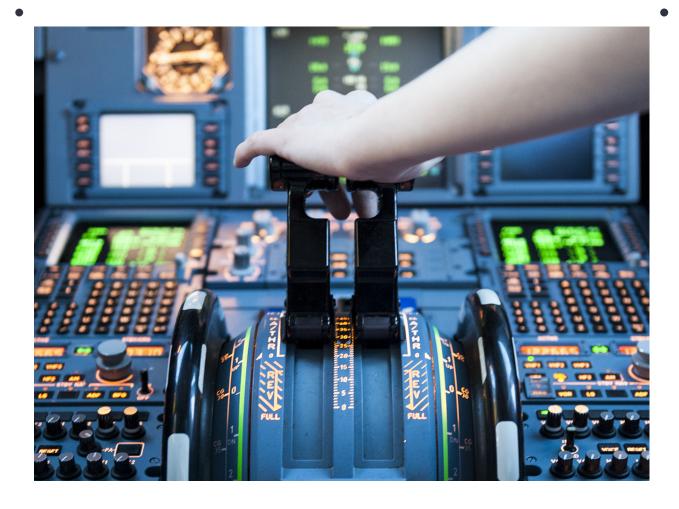- Compliance

### Redesign/ miniaturization
- Hardware
- Firmware
- HMC/ SMD

### Database
- Database design and buildup
- P/N scrub

## Value proposition

- Quicker turnaround time due to an efficient obsolescence management process
- Higher quality through customized tools
- Reduced time for part investigation due to in-house knowledge built up from prior analysis for various customers

## Full life cycle avionic LRU development and manufacturing

Cyient partners with OEMs for new aircraft programs, supporting the complete new LRU development. We support full life cycle activities—covering requirements development, conceptual design, detailed design, implementation, verification, validation, environmental qualification and certification support by offering multiple business models for engagement such as firm fixed price, risk sharing or time & material mode.

We provide long-term benefits to our clients by offering LRU manufacturing and PCB assembly in an AS9100 approved manufacturing facility.

We work seamlessly with many Tier 2 OEMs in the domain of electrical power systems, displays, navigation systems, cabin management systems, environmental control systems, engine control systems, and flight control systems.

## Aerospace and advanced data analytics

- Full life cycle electronic systems engineering as per SAE ARP 4754A
- Electronic hardware, FPGA design and engineering compliant with RTCA DO-254
- Embedded software design and development compliant with RTCA DO-178C
- Electronic packaging design
- Hardware and software verification
- System integration, verification and validation
- Environmental qualification as per RTCA DO-160G
- Electronics product manufacturing
- Obsolescence redesign
- Test station engineering and development
- Reliability and safety engineering
- Maintenance documentation, manuals and planning

## About Cyient

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

Relationships lie at the heart of how we work. We partner with organizations in ways that best suit their culture and requirements. With nearly 14,000 employees in 21 countries, we combine global delivery with proximity to our clients, functioning as their extended team. Our industry focus spans aerospace and defense, medical, telecommunications, rail transportation, semiconductor, utilities, industrial, energy and natural resources.

Follow news about the company at www.twitter.com/cyient

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