



DUONS

COMMERCIAL & INDUSTRIAL
ELECTRONIC REPAIR SPECIALISTS

Commercial & Industrial Electronic Repair

Supporting operational continuity through component-level
repair and technical capability.

Repair. Restore. **Rethink.**

A B O U T

About DUONS

Industrial and commercial electronic repair and technical services

For 25 years, DUONS has supported industries across Australia and the Asia Pacific by keeping critical electronic equipment operational, reducing unnecessary replacement and minimising downtime.

Operating from our Brisbane-based Industrial Electronics Laboratory, with management systems certified to ISO 9001 and ISO 45001, DUONS specialises in the diagnosis, repair, and refurbishment of industrial electronic boards and modules used within commercial and industrial equipment - including items that are out of warranty, discontinued, or no longer supported by the original manufacturer.

DUONS also provides preventative maintenance, monitoring solutions and telecommunications integration as supporting capabilities.

With a long-standing repair partnership supporting Telstra's legacy CAN Radio network, DUONS has established a strong track record in maintaining critical infrastructure.



THE INDUSTRY REALITY

How failures are typically managed

In most industrial and commercial environments, electronic failures follow a standard response model.

Fault occurs within equipment or system

Control boards, modules, or power electronics fail during operation

Boards and modules are taken out of operation

Assemblies are removed from equipment following maintenance findings or operational faults

Replacement becomes the default solution

New units are ordered before repairability is properly assessed

Removed boards and modules are stored or discarded

Repairable electronic assemblies are often lost before assessment takes place

 This creates repeated replacement cycles and rising lifecycle cost.

POSITIONING

Where DUONS fits

DUONS provides a repair pathway between removal and replacement.

- A fault is already identified or preventative maintenance is underway
- Boards and modules are taken out of operation
- Replacement is considered as the next step

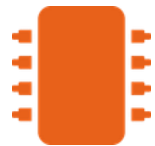
DUONS provides component-level repair of removed boards and modules before replacement becomes the default outcome.

At this stage, repair is often overlooked in favour of replacement.

CORE CAPABILITY

Industrial Electronic Repair

DUONS complete component-level repair across industrial electronic boards and modules. Our experienced technicians diagnose and repair faults, restoring equipment to full operation at a fraction of replacement cost.



**PLCs & Control
Systems**



**Drives & Power
Electronics**



**Power Supplies
& Rectifiers**



**Communication &
Interface Boards**



**Control Modules &
Embedded Systems**



**HMIs, Displays &
Touchscreens**



**Inverters
& Motor Control**



**Industrial
PCBs**

No OEM dependency. No unit replacement.

How we repair

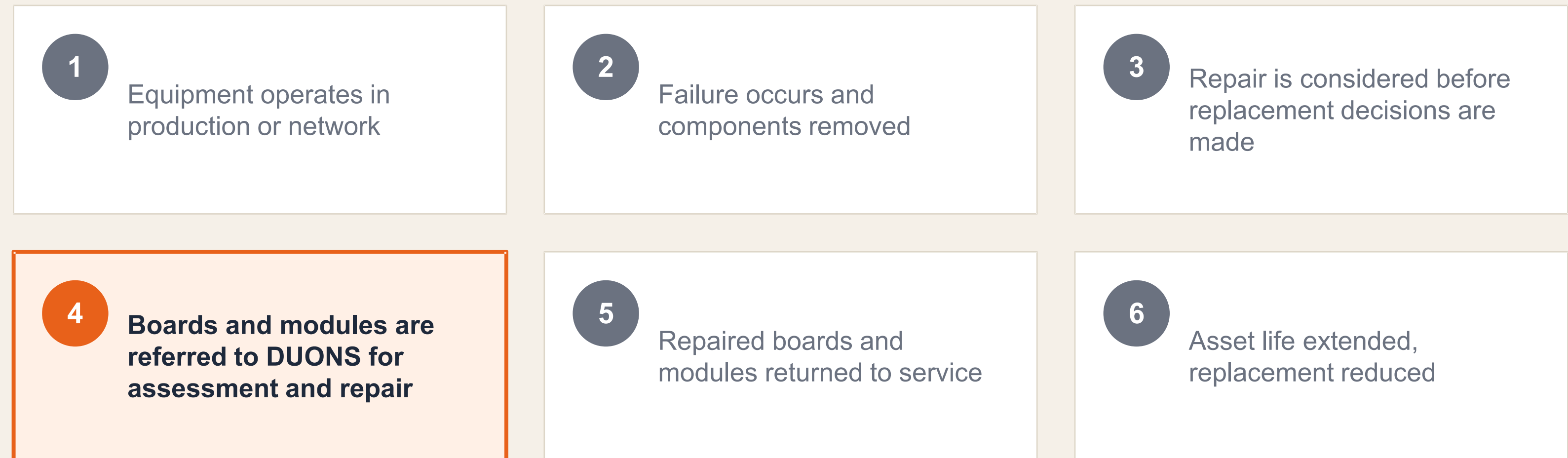
Structured repair processes supporting consistent and reliable outcomes.

Assessment & Fault Identification	Initial evaluation, diagnostics, and fault tracing
Board & Module Repair	Repair and replacement of failed electronic components
Circuit & Schematic Analysis	Technical analysis where documentation is unavailable
PCB Rework	Repair of complex assemblies and multi-layer boards
Functional Testing	Operational testing under controlled conditions
Final Verification	Final inspection and validation prior to return

All repairs are functionally tested, documented with a repair report, and returned with a 12-month warranty on repair work performed.

Where DUONS fits in the asset lifecycle

Electronic repair forms part of a broader asset lifecycle strategy.



This approach supports more effective lifecycle management of critical systems.

OPERATIONAL INTEGRATION

Where DUONS integrates into your operations



Fault Response

Removed boards and modules repaired and returned to operation



Preventative Maintenance

Boards and modules evaluated for repair during scheduled maintenance activities



Spares Management

Stored or removed boards and modules assessed for repair and return to service



System Transitions

Support for legacy electronic systems during upgrades and migration

DUONS supports repair continuity across maintenance, spares, and lifecycle management activities.

Preventative Maintenance

Planned testing and repair of critical electronic components to identify faults early and reduce unexpected equipment failure.



Electronic Component Health Audits



Identification of early-stage faults and degradation



Assessment of component condition and performance



Reporting with repair and replacement recommendations



Support for planned maintenance and lifecycle strategies

Assessment-driven intervention, not reactive response.

S U P P O R T I N G C A P A B I L I T Y

Monitoring Solutions

Real-time monitoring solutions providing visibility of critical equipment performance and environmental conditions, including AKCP sensor technologies.



Temperature, vibration, and environmental monitoring



Water leak detection and infrastructure protection



Real-time alerts and condition tracking



Data-driven insights to support maintenance decisions

Focused on continuous visibility and early detection.

Telecommunication Integration

Integration and support across telecommunications environments where legacy and modern systems must operate together.

Radio & Microwave Systems	Support, integration, and maintenance of radio and microwave link infrastructure
Infrastructure Integration	Integration of telecommunications infrastructure and systems
Remote Deployment	Deployment in remote and harsh operating environments
Commissioning	Testing, commissioning, and performance optimisation
Transmission Support	Support for network transmission equipment and backhaul systems
Technical Support	Ongoing technical troubleshooting and maintenance

Supports continuity and performance across complex communication networks.

REGIONAL CAPABILITY

Regional Experience & Delivery

Proven experience delivering services across Australia and the Pacific region.

Support for remote and regional infrastructure environments

Experience working within constrained logistics conditions

Familiarity with island-based operations and extended lead times

Support for telecommunications and critical systems in remote locations

Alignment with field teams, operators, and project stakeholders

Supports operations where replacement or immediate access is constrained.

PROVEN DELIVERY

Experience and scale

25+

Years in Operation

150,000+

Electronic Repairs Completed

2+ DECADES

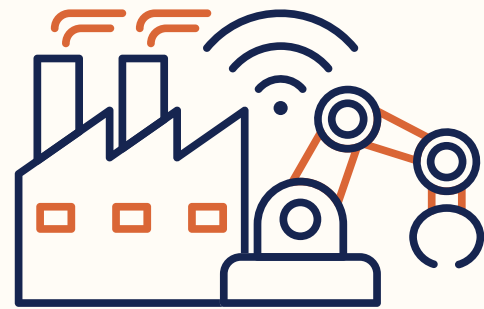
Telstra Legacy Network Repair

APAC

Australia & Pacific Delivery

INDUSTRIES SERVED

Industries where our capability is applied



MANUFACTURING



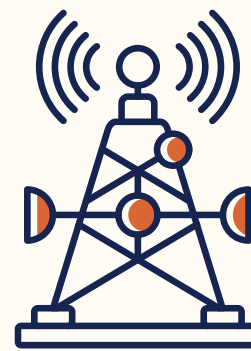
MINING



TRANSPORT



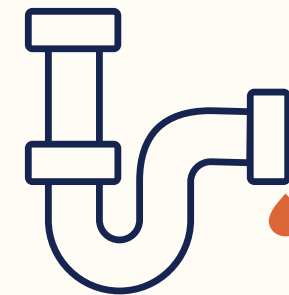
ENERGY



TELECOM



GOVERNMENT



UTILITIES



FOOD & BEVERAGE

Operational impact

Extends asset life

Recover and restore components to extend usable service life

Reduces replacement cycles

Break the cycle of repeated replacement with validated repairs

Improves spare utilisation

Recover stored or failed spares to reduce inventory costs

Supports legacy systems

Maintain continuity in ageing or unsupported infrastructure

Reduces lifecycle cost

Long-term cost control without compromising performance

This is not short-term cost reduction - it is long-term lifecycle control.

Quality and Compliance



ISO 9001:2015

Quality Management System



ISO 45001:2018

Occupational Health & Safety

All work completed under:

- ✓ **Documented and controlled repair procedures**
Standardised processes ensure consistency and quality in every repair.
- ✓ **Full traceability from fault to final test**
Every step is recorded, traceable and accountable.
- ✓ **Verified functional testing prior to return**
All repairs are fully tested and validated to ensure reliable performance.
- ✓ **Continuous monitoring and process improvement**
Real repair data drives ongoing improvement and reliability.



Before replacing industrial electronic assemblies, consider:

Repairability

Whether the assembly is repairable at component level

Root Cause

Understanding the root cause of failure at component level

Lifecycle Cost

Lifecycle cost of replacement versus validated repair

Long-term Impact

Impact on spare availability and long-term supportability

Talk to DUONS before replacement becomes the default decision.



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