



# FieldDART GenAI Diagnostic Tool

# AGIL<sup>®</sup> FieldDART GenAI Diagnostic Tool

## Intelligence-Driven Maintenance

ST Engineering's AGIL<sup>®</sup> FieldDART GenAI Diagnostic Tool (FieldDART) delivers AI-powered diagnostic support for field operations and maintenance (O&M), enabling faster fault identification, guided resolution, reduced downtime, and improved first-time fix rates.

## Solution & Challenges

Field operations often struggle with complex maintenance manuals and fragmented information. Current systems make troubleshooting time-consuming and challenging, requiring real-time guidance and robust data security.

FieldDART addresses these issues with AI-driven diagnostics, locally hosted for maximum security. It manages all aspects of maintenance — from rostering to interpreting manuals—and provides guided workflows via mobile devices. This ensures efficient, accurate on-site fault resolution, reducing mean time to repair and improving first-time fix rates.







## Key Benefits



### Optimised Maintenance Efficiency

- Accelerates fault detection and resolution through AI-driven diagnostics and guided workflows.
- Enables quick verification of information before corrective actions, improving accuracy and quality.



### Enhanced Productivity & Workforce Competency

- Supports less-experienced technicians with structured troubleshooting guidance.
- Boosts confidence, productivity and overall field performance while reducing downtime.



### Seamless Integration for Streamlined Workflow

- Integrates with maintenance management systems for simplified reporting and updates.
- Reduces administrative workload and ensures synchronised data across field and backend operations.



### Fast Deployment

- Lightweight setup with minimal customisation for rapid on-site implementation.

# Key Features



## Structured Knowledge Repository

Maintains a comprehensive local database of OEM documentation, known faults, incident reports, and rectification actions for quick, informed decision-making.



## Generative AI-Assisted Analysis

Provides intelligent recommendations and insights to improve diagnostic accuracy and accelerate fault resolution.



## Guided Fault Diagnostics

Offers step-by-step workflows for consistent and efficient troubleshooting, even for complex tasks.



## Integrated Maintenance Management

Includes a lightweight console or seamless export to external systems for compliance, traceability, and efficient planning.



## Multi-Language Assistance

Supports natural language translation and common output formats (tables, emails) for diverse teams.



## Offline Mode with Synchronisation

Fully functional offline for remote environments; automatically syncs data when connectivity is restored.



## Mobile App for Field Technicians

Uses any instant messaging apps and web browsers to provide mobile access to AI-assisted diagnostics, guided workflows and OEM data anytime, anywhere.

## Versatile Across Industries

FieldDART is ideal for O&M environments in public transport, airports, public security, and utilities.

## Built on Deep Engineering Expertise and AI

Combining deep engineering expertise with AI-powered diagnostics, ST Engineering's FieldDART delivers smart, mobile maintenance — enabling fast, accurate fault resolution in both connected and offline environments while minimising downtime for reliable service delivery.



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