



Aircraft's Wiring Harness Fault Location Tools

WiN MS Tools Presentation

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Confidential



WiN MS



2012 : WiN MS is a Spin-off of **CEA** (Commissariat à l'Energie Atomique)

One of the largest player in the **European Research Area**

WiN MS designs **Immediate diagnosis solutions** for all complex **wiring systems**

We are expert in **Fast Wiring Troubleshooting** and **Health Monitoring**.

Global Exposure – High trust

Several key segments

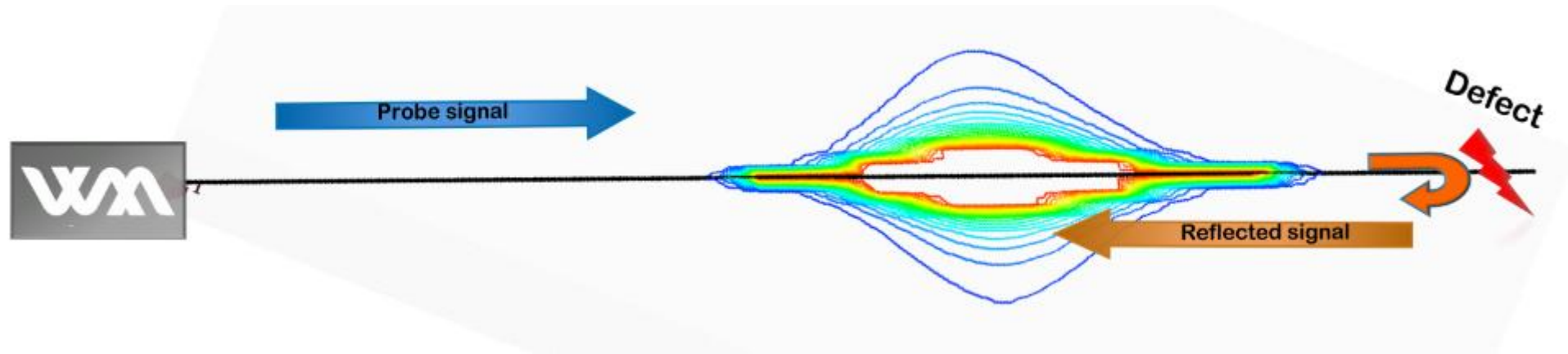


Aeronautic maintenance



Troubleshooting & Inspection tool

MCTDR Technology by WiN MS



WiN MS brings most advanced **reflectometry MCTDR** to **Locate electrical fault on any wires & from one cable end only !**

Works on : All cables types

Live & Energized cables

Permanent hard faults as well as intermittent faults

9 WiN MS patents

Our solutions for Aviation Industry

Range of Products for all your electrical troubleshooting needs



AERO Smart-R kit



Any Electrical Wires

Most famous reflectometer, used by more than 30 Airlines & MRO worldwide. The easiest tool to perform fast and accurate troubleshooting on any electrical wiring systems. Accurate location of permanent and intermittent fault from one cable end (Distance to fault).



AERO HD



HF / RF
cables & antennas

Fastest & Easiest solution to test, inspect and perform automatically health check on HF/RF/Satcom cables and antennas (VSWR, Return Loss, Distance to Fault Test). Can be automated for recurrent test tasks.



AER'Optic



Optical Fiber

High resolution OTDR for <500m optical fibers assembly; locating accurately broken Optical fibers, connector issues (High insertion Loss).



Trinity



Unique Multi-channel (64 points) : Reflectometer, Insulation Meter, Continuity, for complete harness test.



Our solutions for Aviation Industry

Range of Products for all your electrical troubleshooting needs



AERO FLi



Overheat Sensing elements loops

Immediate fault location (Hot spot leak, Open / Short) on all the
Overheat sensing elements loops simultaneously.



Our solutions for Aviation Industry

When to use our Solutions for **EWIS Maintenance** ?

Whenever a Wiring Check is required

Whenever a Fault is suspected

Prior to any LRU, Antenna or Computer replacement, which are Time Consuming & costly



Our solutions for Aviation & Naval Industry

A solution for all EWIS

AeroSmart-R kit

- Single core wire
- Multiple wires
- Shielded wires
- Quadrax, triax, coaxial, etc.



Aero HD

- Coaxial cables
- RF Antenna
- RF connectors



Aer'Optic

- Optical Fibre
- Optical connectors



Trinity

- Any electrical cables
- Up to 64 pins



Our solutions for Aviation Industry

WiN MS has the only technology in the world for cable health monitoring over the entire product lifecycle

Production & Tests

Maintenance

In operation

Fast Diagnostic
Immediate Fault Location
Fault Anticipation



HF/Satcom cables & antennas



Optical Fibre

Monitoring
Acquiring data
Building Database

PREVENTIVE MAINTENANCE

Worldwide Presence



Recognition from Airbus, Boeing, Dassault Aviation, Gulfstream and majors Airlines

Collaboration with more than 20 corporates' R&D departments from various industries: Aerospace, Naval, Energy, Automotive, Rail,...





Fast

Wiring

Diagnostics

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USA

Paris – Saclay
FRANCE

SINGAPORE

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