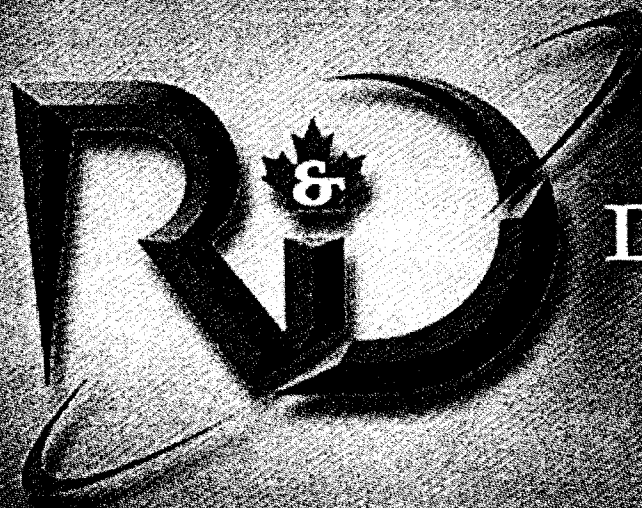


DEFENCE



DÉFENSE

SPARKAda Analysis

Product Development

and Support Analysis

White Paper





AE - 13qe02

Investigate the use of



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for aircraft software
certification following

RTCA DO-178B

SPARKAda vs. DO-178B

Start-End: Winter 2009-Summer 2010

Objective:

Improve DND's understanding and conduct an unbiased assessment of SPARKAda's "Correctness by Construction" process allowing a diminution of requirements-based testing prescribed by DO-178B (MC/DC).

DO-178B: Software Considerations in Airborne Systems and Equipment Certification

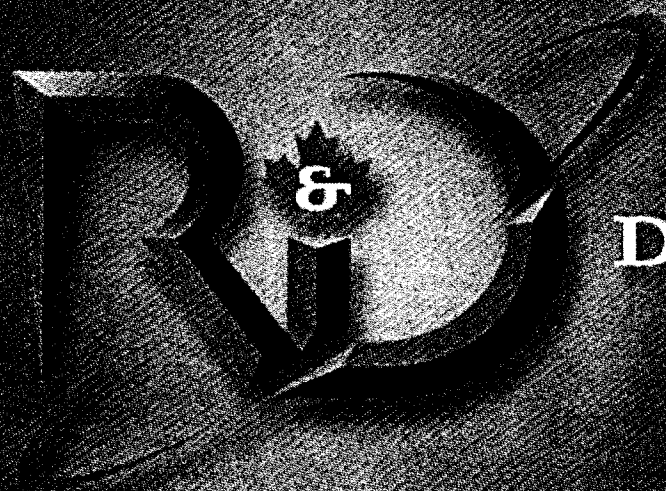
Outputs:

- Report/present the analysis of SPARKAda

Outcome:

- SPARKAda is a leading technology for the development of high-integrity software for safety-critical systems
- The use of SPARKAda cannot remove the need for requirements-based testing, but it can lower the level of effort required
- SPARKAda would be an appropriate technology for the development of security-critical software systems

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