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Systems

CCII Systems (Pty) Ltd Registration No. 90/05058/07

COMMUNICATIONS
COMPUTER INTELLIGENCE
INTEGRATION

Report

on the

New Generation Naval Combat Suite

LAN Technology

Trade-off Study

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Report prepared by C²I² Systems (Pty) Ltd, Cape Town
for
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11.7   Standards

The solution should be strictly standards-based. Only where no existing, useable standards exist should proprietary standards or products be developed. Where this is appropriate, such products (especially software) should be developed and documented using formal methodologies and documentation standards.

11.8   Building Blocks

As far as possible, the system should be constructed from available, commercial off-the-shelf building blocks, ruggedised if necessary.

One exception to this recommendation applies in the area of the Fibre Optic Cable Plant. It is recommended that fully qualified parts, such as cables, connectors and splices are used unless rigorous analysis shows lower quality parts to be appropriate. It is concluded that the extra initial outlay in this area will prove cost-effective in terms of the system lifecycle.

11.9   Software Language Compilers

Only standard software compilers should be used for the development and integration of communication protocols. Non-standard compiler directives must be completely avoided. This also applies to programming techniques.