PERSPECTIVES ON C4ISTAR

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Meeting C4ISTAR Requirements; 24th September 2002
**Title:** Perspectives On C4ISTAR

**Performing Organization:** Royal Netherlands Army / Directorate of Material

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**SUPPLEMENTARY NOTES**
See also ADM001711 Meeting C4ISTAR Requirements: Implementing and Exploiting Technology Solutions, The original document contains color images.
THE C2SC OF THE ROYAL NETHERLANDS ARMY:

KNOWLEDGE CENTRE ON COMMAND & CONTROL
“What is needed from the military is a clearer elucidation of its capability requirements for C4ISTAR ....

....what is needed from industry is a clearer picture of whether it can develop such capability and deliver it as required (on time and within budget) to the operator”
My statements: 

The operator can not define his requirements sufficiently.

Changing requirements lead to changes in the contract, higher costs and a longer time of development.

Increasing technical possibilities do not allow a long time of development.

There is always an interoperability problem.
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ARCHITECTURAL DESIGN

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INTEROPERABILITY

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ARCHITECTURAL DESIGN

C3IA

THE FRAMEWORK FOR OUR SYSTEMS
EVOLUTIONARY DEVELOPMENT
Important items:

The military take the lead and they decide

Civilian experts or experts from industry are engaged

Use commercial-off-the-shelf components

System integrator

Involvement of the operator
INTEROPERABILITY

FROM SEPARATE SYSTEMS .........
INTEROPERABILITY

GENERIC LAYER:
THE C2 WORKSTATION

......... TOWARDS NATURAL INTEROPERABILITY
INTEROPERABILITY

TOWARDS NATURAL INTEROPERABILITY

GENERIC LAYER:
THE C2 WORKSTATION

ISIS
BMS
AFSIS
TMS
LOG
???
In general

Learning by doing: “build a little, test a little, field a little” and “learn a lot”

Changing requirements during the development

Quick results

Possible to keep up with modern technology

Architecture takes care of interoperability
Explicit 1

Our Theatre Independent Tactical Army & Airforce Network (TITAAN) based on IP technology for our HRFHQ: designed, tested, procured and implemented in 1,5 year

Design and system integration by only 20 persons of whom about 15 civilian/industrial experts

Costs about half of the former system
Explicit 2

Our Integrated Staff Information System (ISIS), Battlefield Management System (BMS) and Artillery Fire Support Information System (AFSIS) integrated on one platform (C2-workstation)

Interoperability between the systems guaranteed

Low cost solution with modern technology
SUMMARY

> STRATEGIC CHOICES

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> RESULTS SO FAR