

Annex A – DATA REPLICATION WORKSHOP TECHNICAL PROGRAMME

NATO IST-030/RTG-012 INFORMAL WORKSHOP

**DATA REPLICATION OVER DISADVANTAGED
TACTICAL COMMUNICATION LINKS**

Defence R&D Canada – Valcartier
Québec City, Canada
11-12 September 2002

(Click on the links below to view the presentations)

Wednesday, 11 September

- 0910 *Overview of DRDC Valcartier R&D Programme in Command and Control*
– Allan Gibb, Defence R&D Canada – Valcartier, Canada
- 0940 *Keynote Presentation – Resilient Database Replication in Tenuous Communication Environments*
– Sam Chamberlain, U.S. Army Research Laboratory
- 1100 *Data Replication in a Combat Net Radio Environment – The Harsh Reality of a Harsh Communications Environment*
– Tim Johnson, IP Unwired
- 1300 *Overview of ATCCIS Replication Mechanism*
– Peter Angel, Advanced Systems Management Group
- 1330 *Dynamic Contracting – Saving Bandwidth and Controlling the Data Flow in Danish Army Command and Control Information System*
– Erling Rasmussen, Operational User Group for Danish Army CCIS
- 1450 *Analysis of Limiting Information Flow and Information Storage*
– Freek Driesenaar, TNO Physics and Electronics Laboratory
- 1520 *Artillery Regimental Data System Advanced Development Model – Replication Issues*
– Jean-Claude St-Jacques, DRDC Valcartier
- 1550 Wrap-up and Close

Thursday, 12 September

- 0920 *Data Replication over Disadvantaged Links – A Navy Perspective*
– John Bycroft, Canadian Navy
- 1000 *Polish Tactical Data Exchange System*
– Jaroslaw Michalak, Military University of Technology

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- 1050 *Measuring Performance of Replication Mechanisms in Tactical Mobile Environments*
– Allan Gibb, Defence R&D Canada – Valcartier, Canada
- 1120 *Replication in Mobile Environments*
– Heinz Fassbender, FGAN/FKIE
- 1300 Group Discussions

The Plenary session broke up into two syndicates for discussion of the following questions:

- 1) What key concepts and design principles should drive the design of data replication/transport mechanisms to function optimally over disadvantaged tactical communication links?
- 2) What key operational requirements should drive the design of data replication/transport mechanisms to function optimally over disadvantaged tactical communication links?

- 1530 *Report of Discussion Group 1 and Discussion by Plenary*
- 1555 *Report of Discussion Group 2 and Discussion by Plenary*
- 1620 Wrap-Up
- 1630 Workshop Close