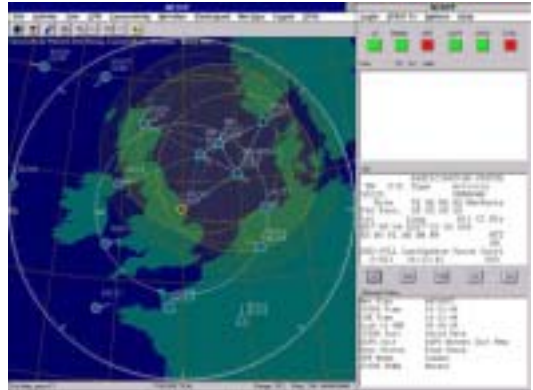


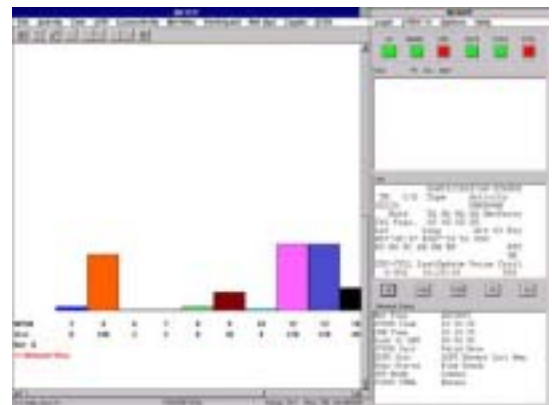
NCIDPSS _ Network Control & Initialisation Data Preparation Sub-System

The Network Control and Initialisation Data Preparation Sub-System (NCIDPSS) is an automated datalink network management system on-board Royal Navy (RN) ships (Type 42 and CVs). It enables the operator to perform datalink preparation, initiation, control and reconfiguration, in a multi-link environment (Link 11, JTIDS/Link 16 and STDL/Link 16). The system provides the following capabilities:

- Pre-mission planning,
- OPTASK generation,
- Generation of initialisation parameters for the ship and on-board aircraft (via the Aircraft Initialisation Peripheral - AIP),
- JTIDS terminal initialisation,
- Network control,
- Dynamic network management.



The NCIDPSS encompasses all activities from pre-mission planning to dynamic network management. It is possible to carry out network preparation activities in parallel to operating a network. Network preparation activities are carried out from the Network Control and Initialisation Data Preparation Facility (NCIDPF) located in the ship's computer room. The Remote Network Management Display (RNMD) located in the ship's Operational Room is used to perform Network Management tasks. Connection between the RNMD and NCIDPF is via optic fibre



The NCIDPSS implements Aerosystems' DAMSL technology which has been designed to accommodate evolving datalink standards (STANAGs) at low additional costs. Furthermore, the implementation of the DAMSL open technology provides an extremely cost effective expansion capability for other datalinks, for example Link 22.

Key functions:

Acceptance of Network Designs and JTIDS key lists.

- Initialisation, monitoring and control of the JTIDS Ship System.
- Initialisation of the DLPS for Link 16 and multi-link operations.
- Initialisation, monitoring and control of the DLPS Data Forwarding capability between JTIDS/Link 16, STDL/Link 16 and Link 11.
- JTIDS and STDL Link 16 Network Management, including :
 - ✓ Management of relay activity.
 - ✓ Transfer ID sets between JUs.
 - ✓ Assign/de-assign slot from/to an unallocated pool.
 - ✓ Cryptovvariable management.
 - ✓ Relative navigation management.
 - ✓ Network communication monitoring.
- Recording of Terminal and Network operational data.
- Initialisation data preparation for the Aircraft Initialisation Peripheral (AIP).
- Control of terminal recording.



Technical characteristics:

- Portable PC with Intel Pentium Processor.
- MIL-STD 1553 interface.
- TEMPEST BTR/01/250.
- Rack mounted.
- Worldwide mapping
- 17" CRT colour monitors.
- Fully ruggedised.
- EMC compliant,
- Windows NT real time Operating System.
- Mouse driven, Windows based graphical interface.

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