

FACT SHEET

CTD 2007-06 - Spherion

What is a CTD?

The Defence Capability and Technology Demonstrator (CTD) Program, managed by the Defence Science and Technology Organisation, assists in the improvement of priority Defence capability by providing Australian industry with an opportunity to demonstrate their technology. This enables Defence to assess the potential of the technology to enhance military capability as well as the likely risks associated with acquiring the technology.

Title

Spherion Broadband Sonar Processing Capability Enhancement (SBSPCE).

Objective

This SBSPCE CTD aims to demonstrate the benefits of providing a flexible and open architecture to host improved processing for the Spherion B sonar. The CTD will re-factor and augment the DSTO provided PANORAMA demonstrator software as an example application. The system will be composed of COTS items, contributing to the identification of an incremental sonar upgrade path.

Organisations Involved

- Defence Science & Technology Organisation (DSTO), Edinburgh, SA
- Thales Australia – Naval Systems, Rydalmere, NSW

Scope of Activities

The SBSPCE CTD is composed of four distinct phases:

- Preliminary Design
 - Proposal of an architecture to satisfy the target performance measures for the system.
 - Preparation of a reference system for verification purposes
- Detailed Design
 - Definition of the design details to be implemented
- System Construction
 - Implementation of the system
- System Demonstration
 - Demonstrate that the system satisfies the target performance measures.

Summary

The SBSPCE CTD contract 2007-8 commenced in December 2007.

The Preliminary Design Phase has been completed, providing a design which will satisfy the target performance measures. A reference system has been created to assist in verification of the CTD system at the Rydalmere location.

An investigation of the legacy interfaces to the Spherion-B sonar is in progress. This investigation will provide the details for connecting to the Spherion-B sonar on any ANZAC platform.

Capability Benefits

The flexible and open architecture will enable rapid insertion and evaluation of improved and novel functional capability. Third-party providers can augment the capability of the system.

