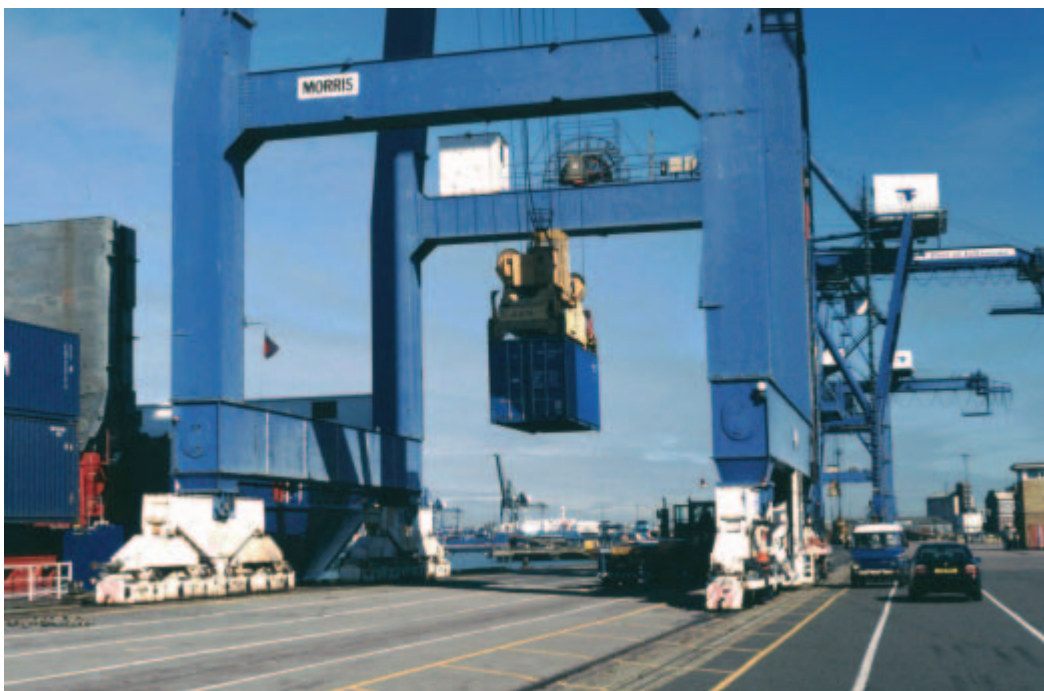




Preparatory Action for Security Research (PASR 2005)

SECONDD SECURE CONTAINER DATA DEVICE STANDARDISATION



The aim of the **SECONDD** Supporting Activity is to initiate the international standardisation of the technical interface between a secure container or vehicle and a data reader at a port or border crossing.

The interface should enable law enforcement and trade officials to read security data, including stored information from internal security and location sensors. It will thus be possible for them to determine where the container or vehicle has been, whether items (e.g. explosive devices) or people may have been inserted en route, and whether there may be hazardous items within it. Secondary purposes are to interface to a cargo tracking system and to provide data for automated cargo handling systems.

The interface will be specified in such a way that it:

- employs radio frequencies which can be used worldwide;
- can be read rapidly and at a range consistent with port operations;
- has authentication and data protection features;
- has optional data fields to support new sensors;
- can be implemented in a device with low cost, small size and low power consumption.

SECONDD is expected to produce a set of unbiased, open, technical standards that can be utilised as inputs by the International Standards Organisation for future secure container standardisation activities.

The **SECOND** work will consist of the following tasks:

Scenarios development to identify how effective a Goods Data Device (GDD) would be against terrorist or other threats, e.g. insertion of contraband:

- Study threat scenarios,
- Outline process and technology measures to overcome threats,
- Study constraints introduced by supply chain realities,
- Study additional possibilities with a long range communications link on the GDD.

GDD data: Identify the security data to be carried in the GDD to help counter the threats

- Identify the security data needed in the GDD,
- Identify the trade data needed in the GDD,
- Identify how the data is entered/initialised and deleted.

Protection and Authentication of the GDD data.

GDD Interrogation:

- Study port operations and how the GDD could be interrogated there,
- Study land border operations and how the GDD could be interrogated there,
- Identify other places where a GDD could be usefully interrogated,
- Study interfacing to a ship or lorry tracking system.

Interface Protocol: to identify possible suitable candidates.

- frequency bands for short and long range communications,
- physical and data link layer protocols,
- network and transport layer protocols,
- application layer protocols.

Interface Implications of the candidate interface protocols on the GDD size, cost and power supply.

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