ISO TC104/SC4/WG3 – Communication and Terminology

Convener: Jørn Heerulff
This International Standard was developed in 1985-87 by ISO TC104/WG4 and specifies general communication codes for container equipment data exchange and is intended for business entities for use in communications relating to freight container maintenance and repair transactions. The idea was to provide the container industry with standardized codes for components, repairs, damages, location, units of dimension, etc. for all container types.

The first edition of ISO 9897 was published in 1989 and consisted of two parts, Part 1 describing the codes and Part 3 the EDIFACT based protocol.

The second edition of ISO 9897 was published in 1997 (stand alone) since the UN C-FACT working group had developed the EDIFACT DESTIM message, thus replacing part 3 of the 1989 publication.

The third edition of ISO 9897 is under way and will be split in to 6 parts in order to cover the individual container types, as follows:
The following parts of ISO 9897 are finalized:

- DIS 9897/1 – General purpose containers
- DIS 9897/2 – Refrigerated containers
- DIS 9897/5 - Chassis
- DIS 9897/6 – Message sets for container M&R
ISO 9897 Parts 3 and 4 are under preparation as follows:

Tank container codes - WD 9897-3 with ITCO (International Tank Container Organisation), Colin Rubery, as project editor.

Special purpose containers – CD 9897-4 by China with Li Jichun as project editor.
ISO 9711, Freight containers. Information related to containers on board vessels. Bay plan system.

- Discussion of problem related to current edition of this standard.
- No one have yet volunteered as project leader, item therefore still pending.
Convener: Dick Schnacke

ISO TC104/SC4/WG2 – Automatic Equipment Identification for containers and container related equipment
TC104/SC4/WG2 Standards:

- ISO 18185-1:2007 Parts 1-5, Freight containers - Electronic seals
- ISO 18186:2011 Freight containers - RFID cargo shipment tag system
Under development:
ISO 18625 Container Tracking Management System (CTMS)
First part, ISO 18625-1, Requirements
Container Tracking Management System (CTMS)

1. CTD
   - Eg. CTD can be
     - Bar code, RFID, other with functions that include
       - Tracking
       - Security
       - Sensors

2. Air Interface
   - DATA
   - eg. 24GHZ
   - Optical

3. READER
   - e.g. fixed reader, sat., cell., OCR, Google, drones...

4. Operator Information Management System
   - eg. – info
   - encryption key mgt
Contents of ISO WD 18625

1. **Scope**

2. **Normative references**

3. **Terms and definitions**

4. **Container Tracking and Monitoring System (CTMS) – General information**
   4.1 System architecture
   4.2 System functions
   4.3 System operation
   4.4 System interfaces
   4.5 System data management
   4.6 System safeguard measures
   4.7 Levels of performance
5 CTMS System-level requirements

5.1 Operational scenarios
  5.1.1 Tracking scenarios
  5.1.2 Monitoring scenarios
5.2 Specific system requirements
  5.2.1 Physical/structural requirements
  5.2.2 Environmental requirements
  5.2.3 Operational requirements – tracking applications
  5.2.4 Operational requirements – monitoring applications
5.3 Accuracy and reliability of the system

6 Container Tracking Device (CTD) / Container Monitoring Device (CMD)

6.1 General device information
6.2 Device installation / mounting
6.3 Data content and format
6 Container Tracking Device (CTD) / Container Monitoring Device (CMD)

6.1 General device information
6.2 Device installation / mounting
6.3 Data content and format

7 Infrastructure elements

7.1 Readers
7.1.1 Types
7.1.2 Functions
7.1.3 Data interface(s)
7.1.4 Specific reader requirements
7.2 Other infrastructure elements