

# RFID Journal Live! 2006

May 1-3, 2006  
MGM Grand Conference Center  
Las Vegas, Nevada



Putting RFID to Work

May 3, 2006



# RFID Standards for Freight Transportation in North America: Peeling Back the Confusion

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*Moderator:*

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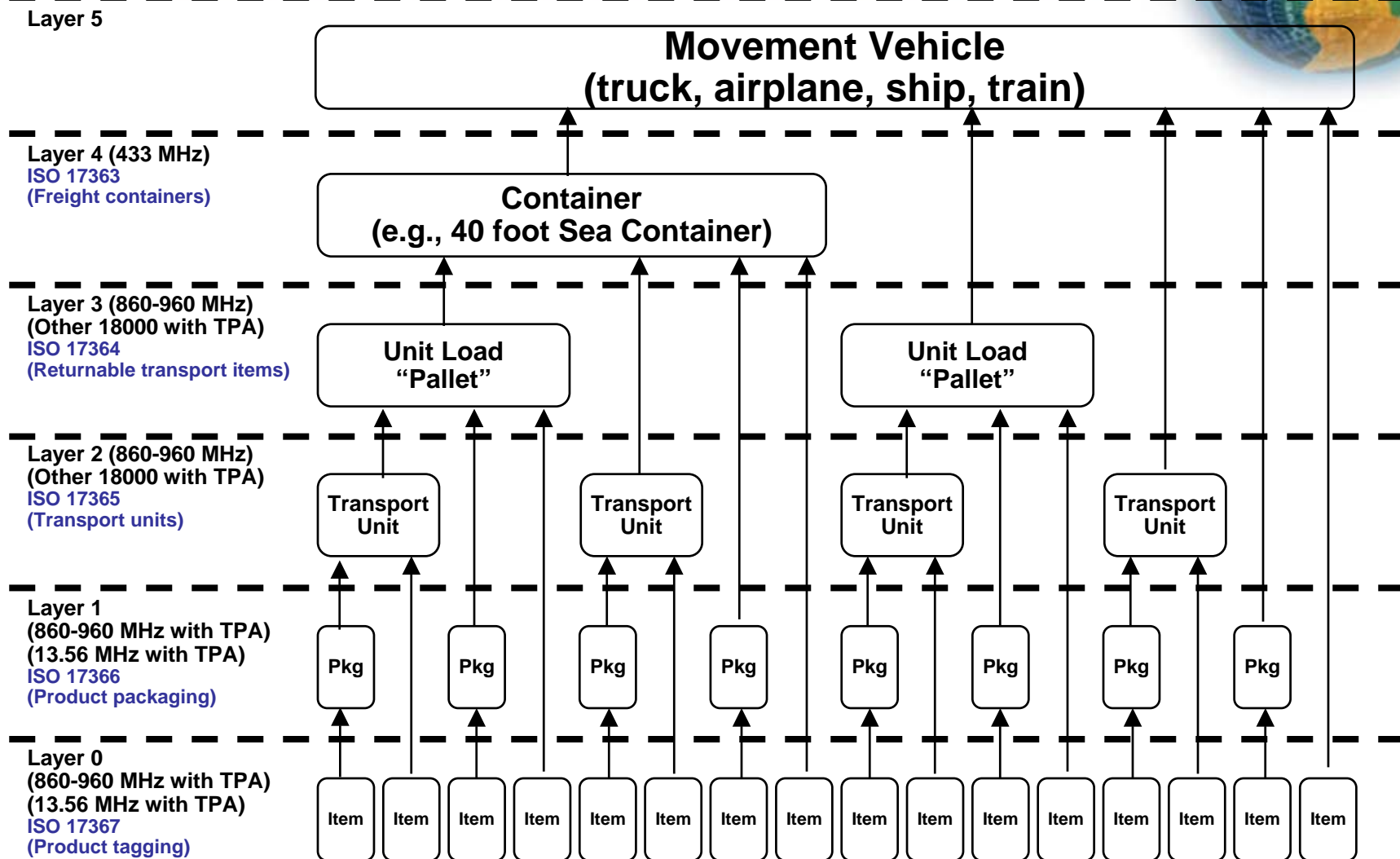


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# The Layers of Logistic Units (Radio Frequency Identification - RFID)



"TPA" - Trading Partner Agreement

Concept Source: Akira Shibata, DENSO-Wave Corporation

# ISO TC 122/104 JWG project status

## Ballot Resolution 2006-07-26-8

- **ISO 10374.2, *Freight containers — RF automatic identification***
  - IS Issued 1991, Amd 1 1995
  - CD balloting closed 2006-03-09
- **ISO 17363, *Supply chain applications of RFID - Freight containers***
  - DIS balloting closes 2006-07-01
- **ISO 17364, *Supply chain applications of RFID - Returnable transport items***
  - DIS balloting closes 2006-07-01
- **ISO 17365, *Supply chain applications of RFID - Transport units***
  - DIS balloting closes 2006-07-01
- **ISO 17366, *Supply chain applications of RFID - Product packaging***
  - DIS balloting closes 2006-07-01
- **ISO 17367, *Supply chain applications of RFID - Product tagging***
  - DIS balloting closes 2006-07-01

# ISO TC 104/SC 4/WG 2

## Electronic Container Seals



# ISO TC 104 project status

- **ISO 830, *Freight containers — Vocabulary***
  - CD Ballot closes 2006-03-06
  - Revision of ISO 830:1999, ISO 830:1999/Cor 1:2001
- **ISO 17712, *Freight containers — Mechanical seals***
  - Publicly Available Specification (PAS) published 2005-11-13
  - Draft International Standards (DIS) expected 2006-02-28
  - Final Draft International Standards (FDIS) expected 2007-01-31
  - Published International Standards (IS) expected 2007-07-31
- **ISO 18185, *Freight containers — Electronic container seals***
  - Part 1, Communication protocol, 2nd DIS balloting closed 2006-03-27 - Ballot resolution 2006-05-10-12
  - Part 2, Environmental characteristics, - Ballot resolution 2006-05-10-12
  - *Part 3, Application requirements, 2005-10-19 - with no sustained negatives at DIS . . . IS publication requested*
  - Part 4, Data protection, CD ballot ballot resolution 2006-05-10-12
  - Part 6, Messages sets for transfer between seal reader and host computer, 2005-10-19 - to be changed to EDI messages and may require scope modification
  - Part 7, Physical layer, 2nd DIS balloting closed 2006-03-27 - Ballot resolution 2006-05-10-12

# Three tags - different purposes

**Supply  
Chain Tag -  
ISO 17363**

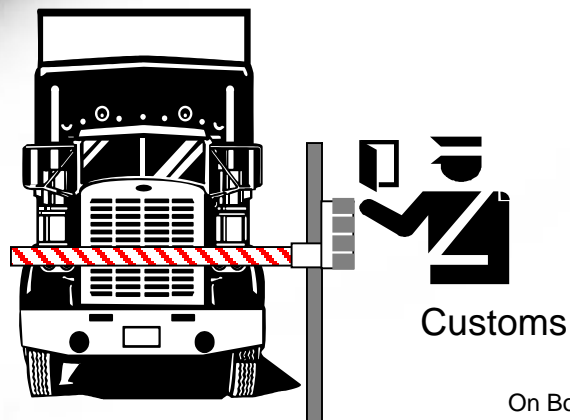


**Electronic Seal -  
ISO 18185**

**Container ID Tag -  
ISO 10374.2**

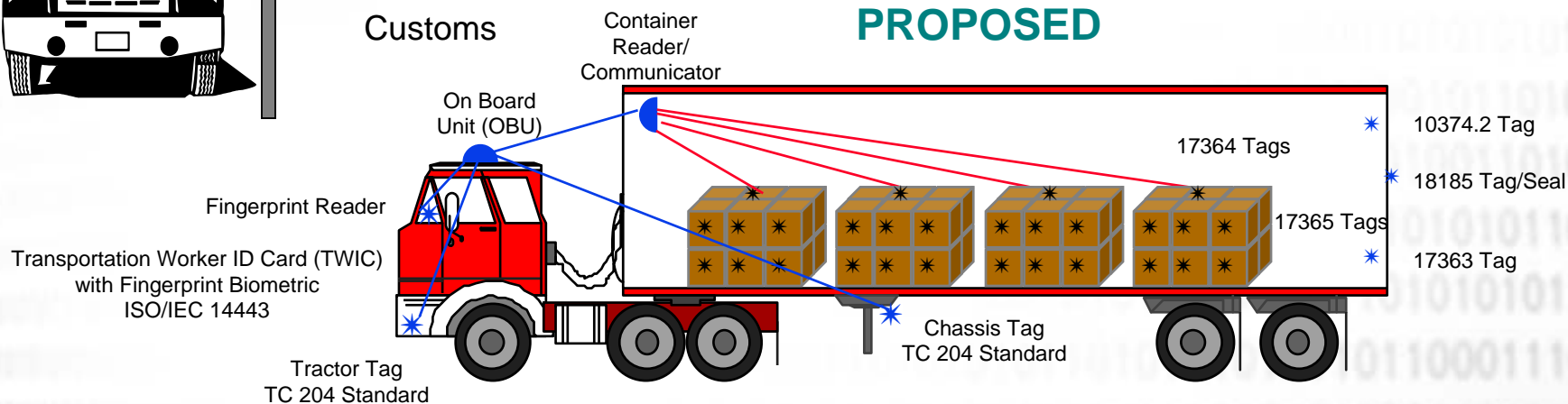
# ASC MH10 PINS

TODAY



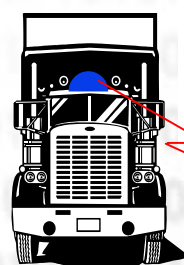
Customs

PROPOSED



TOMORROW

On Board Unit (OBU)



Part of CALM Network



Road Side Unit (RSU)



Customs