

2008 Open Forum for Standards Developers





Converting Standard Terminology into usable Metadata

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Electronic Commerce Code Management Association
(ECCMA)

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YOUR POINTING AT IT WON'T HELP-THE COMPUTER RECORDS SHOWS NONE IN STOCK.



Who? - What? - Where?

master data

data held by an organization that describes the entities that are both independent and fundamental for an enterprise, that it needs to reference in order to perform its transactions

Master data describes individuals, organizations, locations, goods, services, rules and regulations.

- Customers
- Suppliers
- Materials
- Services

- □ Assets
- Locations
- Employees
- Shareholders
- **—**





An international non-profit membership association of industry and government master data quality managers and their application or service providers

Our Mission

To increase the quality and lower the cost of descriptions through developing and promoting the implementation of International Standards for Master Data Quality





Military/Commercial Bridge

"...commercial practices are not precise enough to support cost-effective military inventory management and military cataloging is far too detailed and costly for commercial purposes ...ECCMA offers a way to bridge the gulf" Mr. Alan Williams, Asst Dept Minister, Canadian Deptartement of National Defence.







Phanton

The eOTD is a foundation for design collaboration and industry standards.

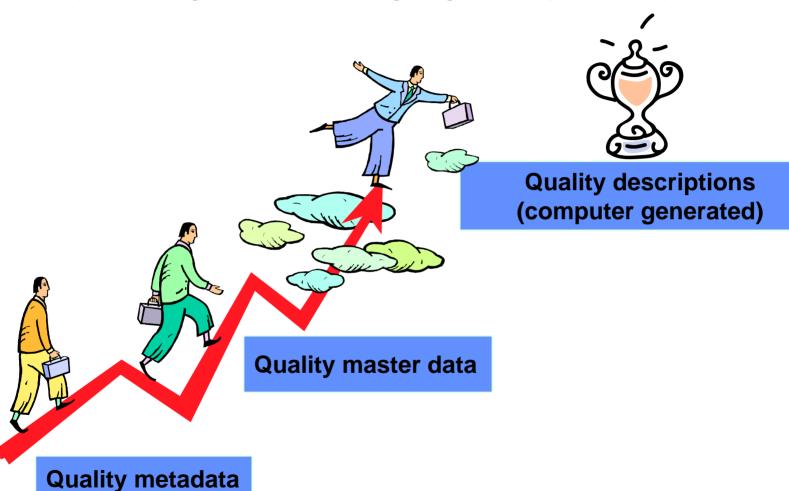
ISO 22745 and the eOTD are the foundational enablers for the breakthrough our industry needs in the next generation of direct, accurate, and effective collaboration across the supply chain at meaningful and granular levels of data exchange never before imagined.

Alton Sanders
Senior Manager,
IDS Engineering Standards Control Function
PW Knowledge and Reuse Management (KARMA)



The steps to quality descriptions

(unambiguous and language independent)





✓ Common Concept Encoding

"metadata"

- Across the supply chains
- In design and engineering applications CAD-CAM-CAE
- In ERP applications
 vendor-customer-material-service masters
- In production applications
- In product life cycle management
- In asset management applications
- In human resources applications





✓ Common Concept Encoding

"master data"



Property ID

0161-1#02-046898#1 0161-1#02-027375#1 0161-1#02-023822#1 0161-1#02-010200#1 0161-1#02-010196#1 0161-1#02-004968#1 0161-1#02-027376#1 0161-1#02-027378#1

Value Measure ID

0161-1#07-014684#1

3225020037 1.0 0161-1#05-000798#1 1.450 0161-1#05-000798#1 1.653 0161-1#05-000798#1 0.591 0161-1#05-000798#1

0161-1#08-000168#1

Property term

eOTD CLASS NAME
PRODUCT NUMBER
NOMINAL THREAD DIAMETER
WIDTH ACROSS FLATS
WIDTH ACROSS CORNERS
HEAD HEIGHT
COUNT PER PACK
PACK PRICE

Value

0.80

Measure term

US DOLLAR

BOLT:MECHANICAL
3225020037
1.0 INCHES
1.450 INCHES
1.653 INCHES

1.653 INCHES 0.591 INCHES 10

0.80

eOTD Identifiers

eOTD

Identifier

Coded

Resolved

Machine Bolt; Product Number: 3225020037; Nominal thread diameter: 1.0 inches; Width across flats: 1.450 inches; Width across corners: 1.653 inches; Head height: 0.591 inches; Count per pack: 10; Pack price: \$0.80 (M-Bolt;NTD1.0";WAF1.45";CPP10)





Original ERP Short Description

ELECTRIC MOTOR

Original Supplier Catalog Description

P/N 1234EF: 400KW 6 POLE 525VOLT FRAME HGF355E: FT MOUNTED RPM 988 SF1,0 CODE G:IP65:INS F:IL/IN 6.6:DUTY SI: NR.88695 11 00:AMB 40DEGREE C:DELTA T

80DEG: COS 0,86:COOLING IC 411:ALT1000M



Standardized ERP Short Description

MOTOR, ELEC: 400 KW, 525 V, 988 RPM

Standardized ERP PO Description

MOTOR, ELECTRIC: POWER RATING 400 KW, ELECTRICAL RATING 525 V, FRAME HGF355E, FOOT MOUNTING, SPEED 988 RPM, INSULATION CLASS F, 6 POLES, SERVICE FACTOR 1.0 CODE G, ENCLOSURE IP65, MNFR P/N: 1234EF MNFR: WEG, FFT: IL/IN 6.6: DUTY SI: NR.88695 11 00:AMB 40 DEGREE C:DELTA T 80DEG: COS 0,86:COOLING IC 411:ALT 1000M









NCS

- eOTD –

ISO 22745

Identification Scheme

ACodP-1

ISO 22745-13

Master Data

NSN

eOTD-r-xml ISO 22745-40

is coded using concepts in

Dictionary

H6+MRD

eOTD-xml

ISO 22745-10

conforms to the constraints in

Identification Guide

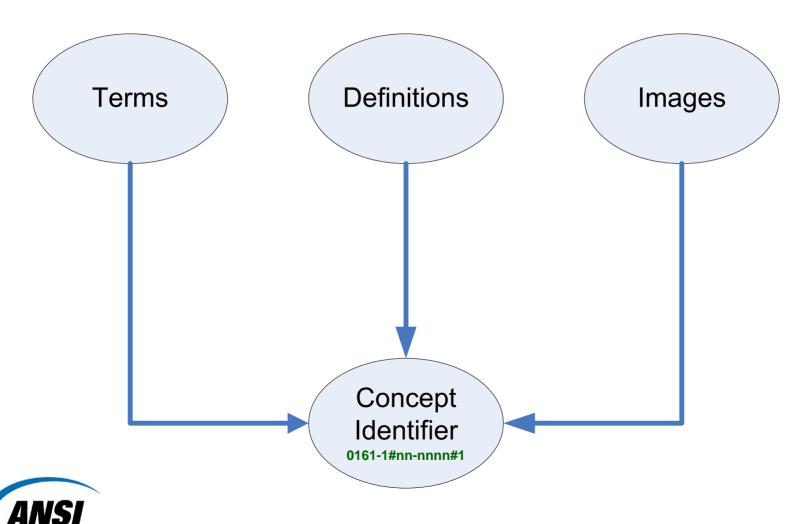
FIIG

eOTD-i-xml ISO 22745-30

constrains the use of



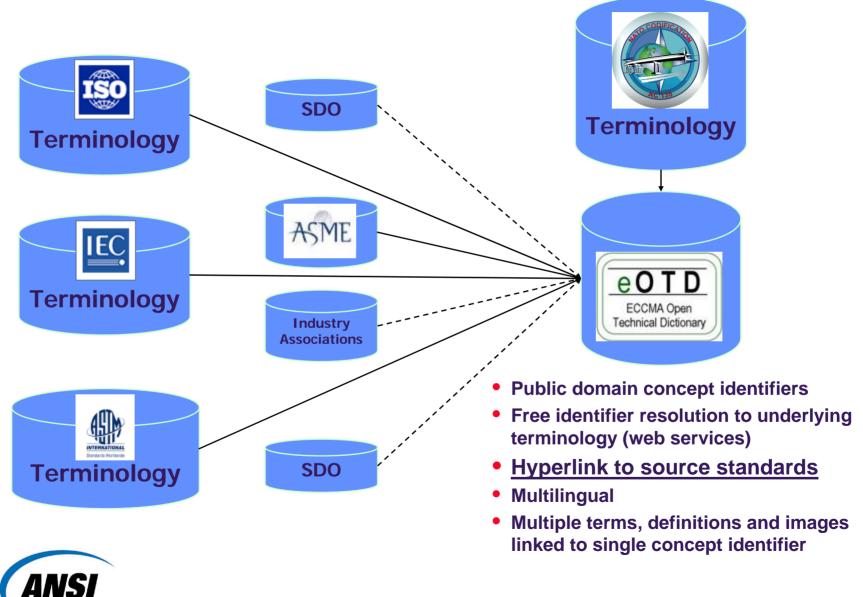
The ECCMA Open Technical Dictionary (eOTD) is a <u>metadata registry</u>



American National Standards Institute

Terminology mapping

American National Standards Institute



The ECCMA Open Technical Dictionary (eOTD)

- A free tool for standards developers
 - Mapping terminology
 - Harmonizing terminology?
 - Standardized terminology??
- ☐ A free tool for publishers to promote their standards
 - eOTD concepts linked to terminology
 - Terminology hyperlinked to source standard (publisher controlled)



Be a part of the data supply chain

American National Standards Institute

ISO 8000 Data quality — Part 110: Master data: Exchange of characteristic data: Syntax, semantic encoding, and conformance to data specification Sub-Tier Sub eOTD-q-xml eOTD-q-xml (query) ISO 22745-35 **Data** provider Sub-Tier ISO 8000-110:2008 eOTD-r-xml **Data** requestor eOTD-i-xml (data requirements statement) ISO 22745-30 8000-110:2008 1S0 8000-110:2008 MASTER DATA QUALITY eOTD-r-xml (reply) ISO 22745-40