

NATO codification system as the foundation for the eOTD, ISO 22745 and ISO 8000

E	C	C	M	A
electronic commerce code management association				
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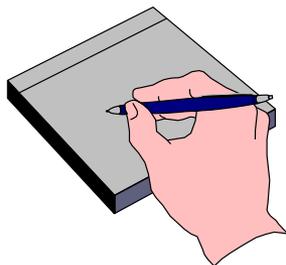


“Data Quality in Practice”





NATO Codification System Chronology



1929



1945

1949

PL152

SUPPLY CLASSIFICATION

US/UK/CA
CLASSIFICATION

1952

PL436

CODIFICATION SYSTEM

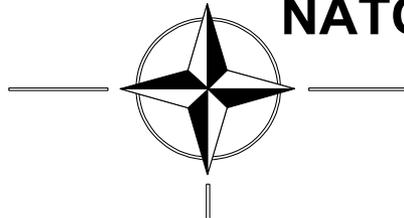
1954

STANAG 3150

NATO

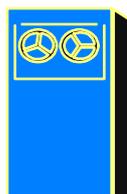
1956

STANAG 3151



1966

DLSC



1974

NCB CODE

1978



CD-ROM

1991

PFP



1994

PACS

BASELOG

1999

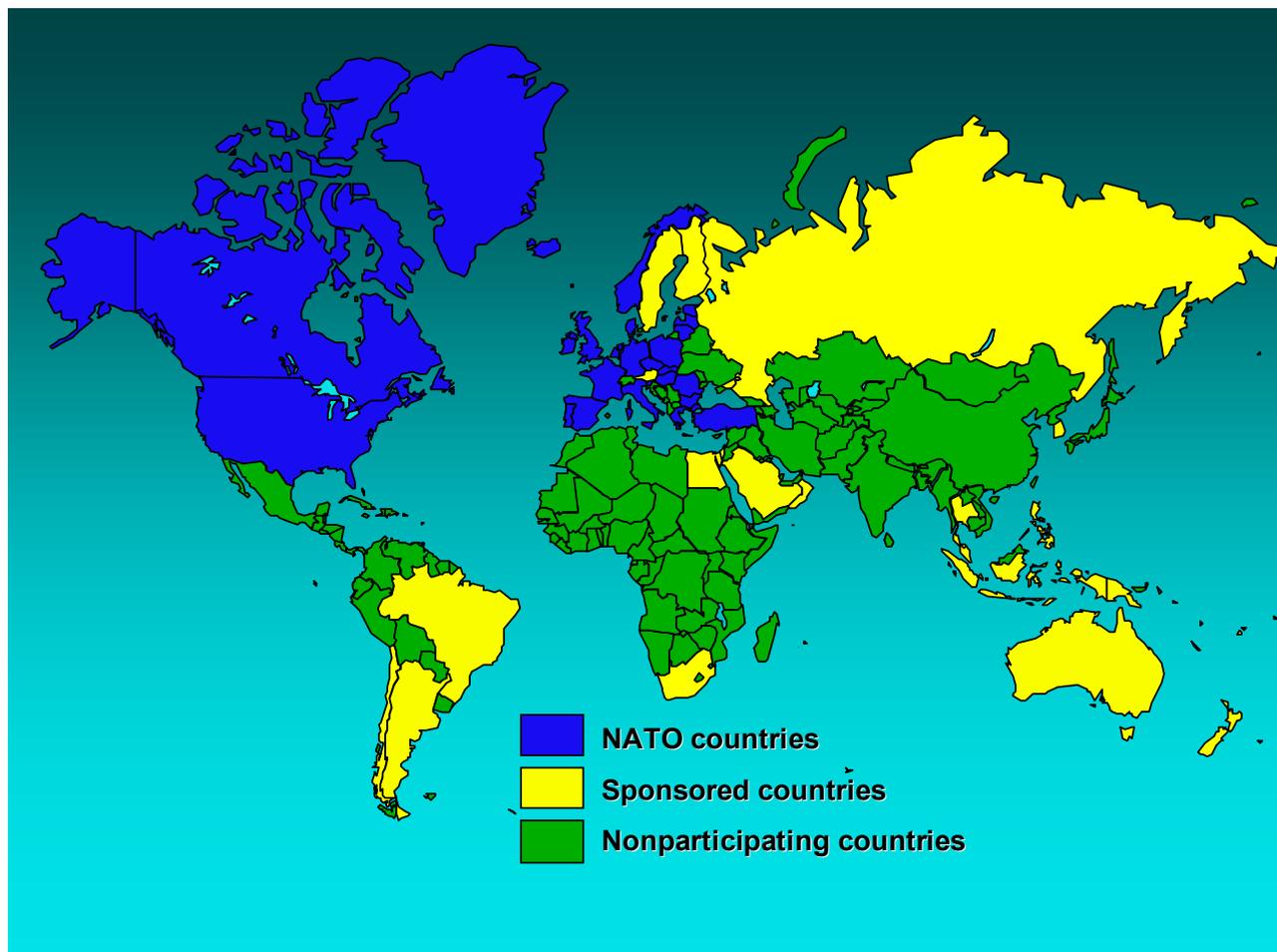
E-Commerce

2002





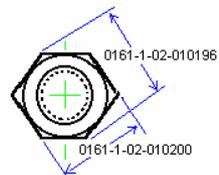
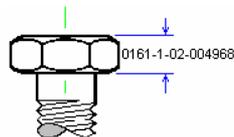
Nations Using the NCS Today





The NATO Codification System (NCS)

- A standard for logistic information exchange covering 16 million items of supply
- A flexible system that can be tailored to national requirements
- An important cornerstone to logistics interoperability
- 15+ million NATO Stock Numbers have been assigned
 - 7 million by the U.S. and 8 million by the other NATO countries
 - 31 million reference numbers have been registered on these NSNs
 - These NSNs contain more than 22 million user registrations
- 1.5 million manufacturers and other organizations are registered



ŚRUBA, MASZYNOWA	Polish
BOLT, MACHINE	English
BOUT, MACHINE	Dutch
PERNO, TORNEADO	Spanish
BULLONE PER METALLO	Italian
SCHRAUBE MIT KOPF	German
SVORNÍK, STROJNÍ	Czech



Vision for the Future

What is impossible to do right now, but, if you *could* do it, would fundamentally change your business?

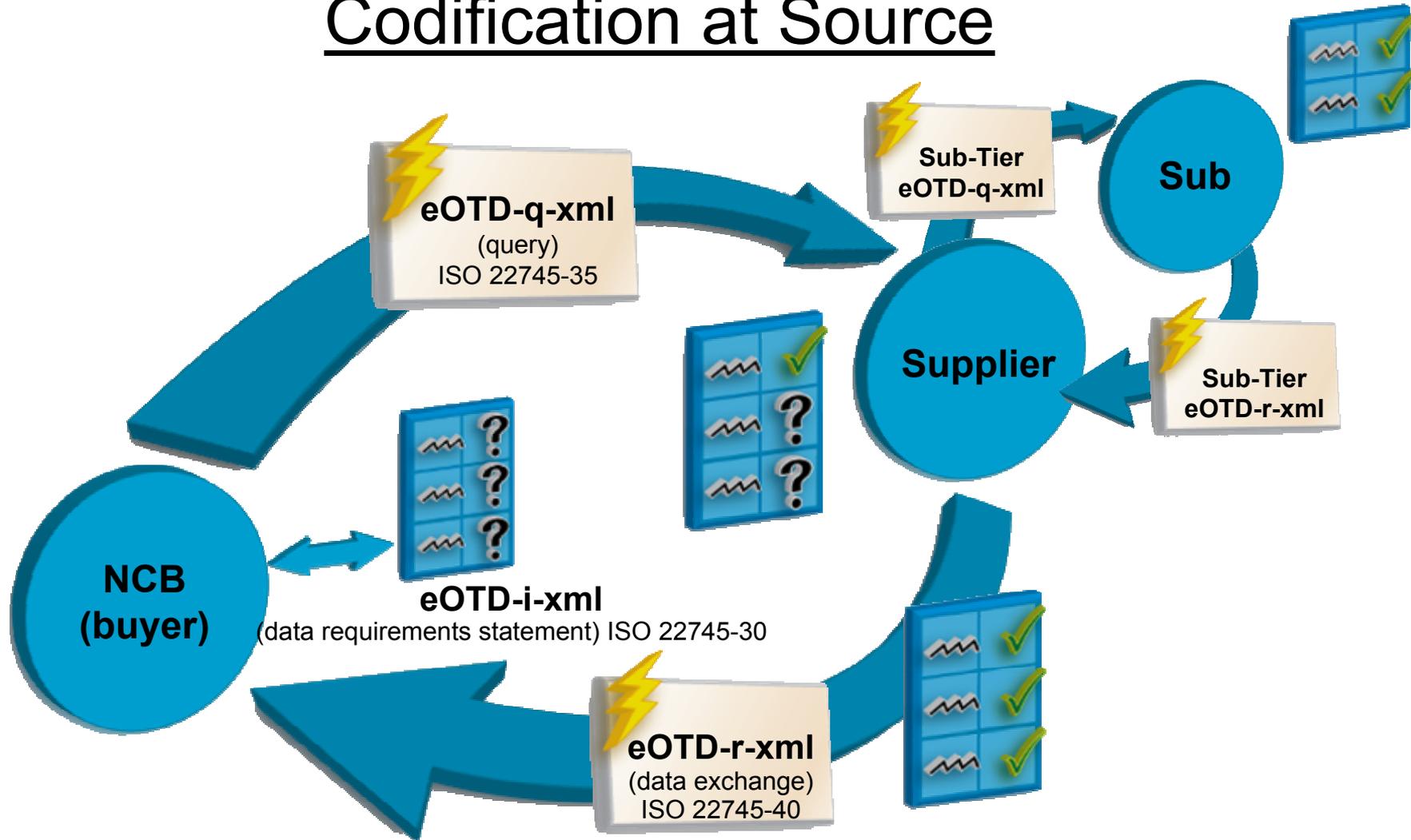
1990 Joel Arthur Barker

- Cataloging at source (vendor supplied data)!
 - Common metadata (**eOTD**)
 - an end to data mapping
 - Requirement specifications (**ISO 22745-30 eOTD-i-xml**)
 - an end to incomplete data
 - Data provenance (**ISO 8000-120**)
 - an end to inaccurate information

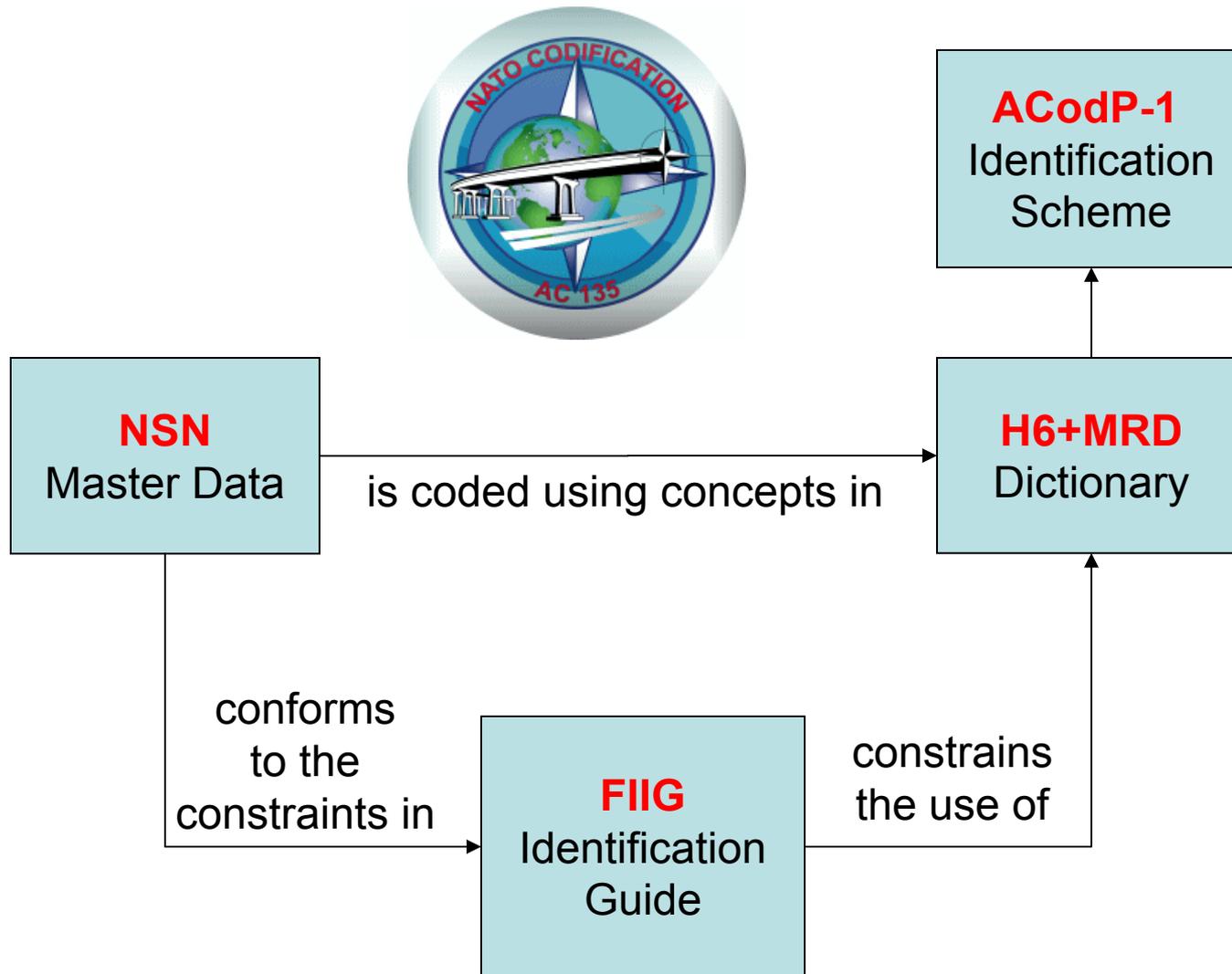
Faster – Better – Cheaper

Automating the data supply chain

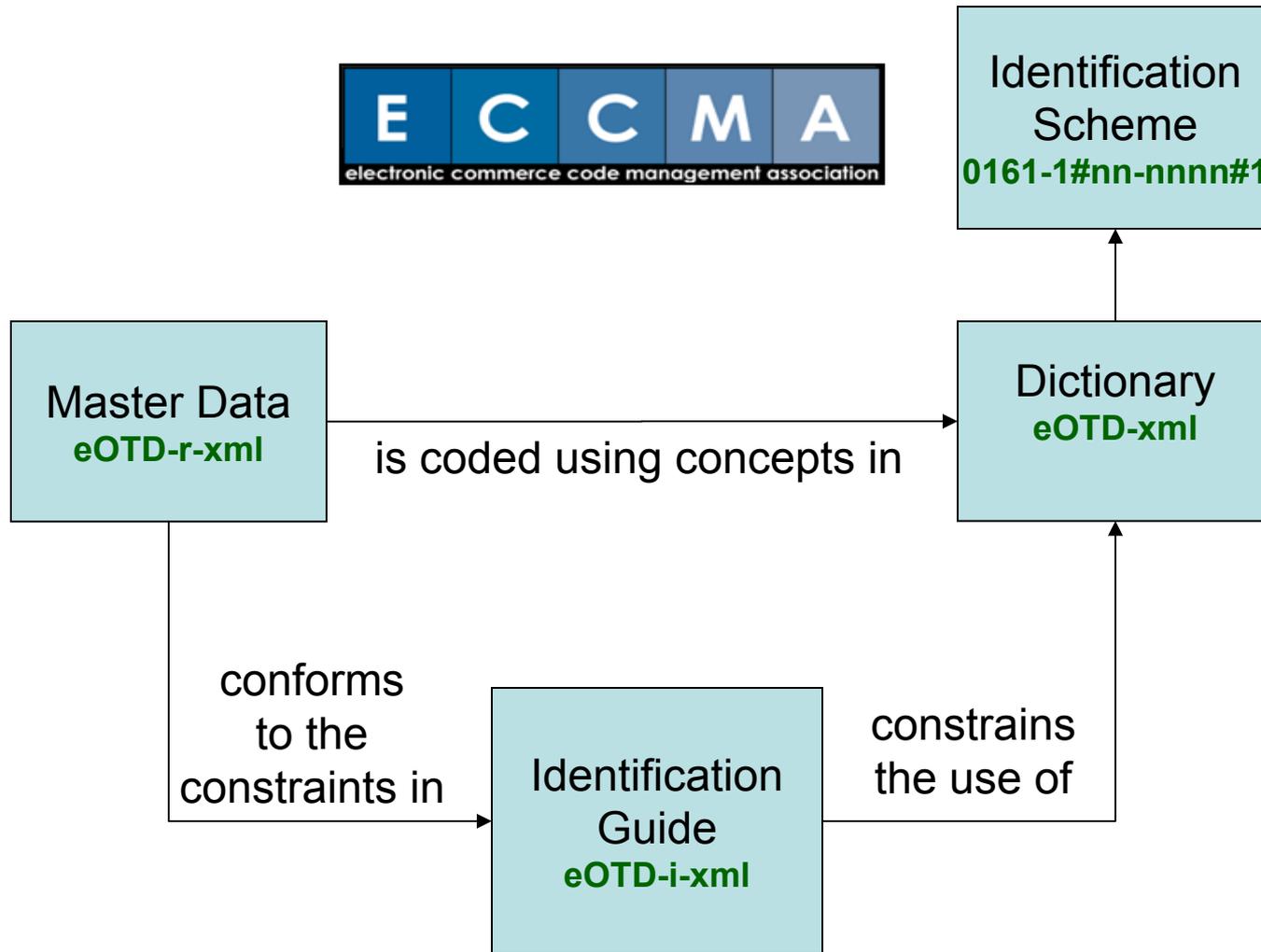
Codification at Source



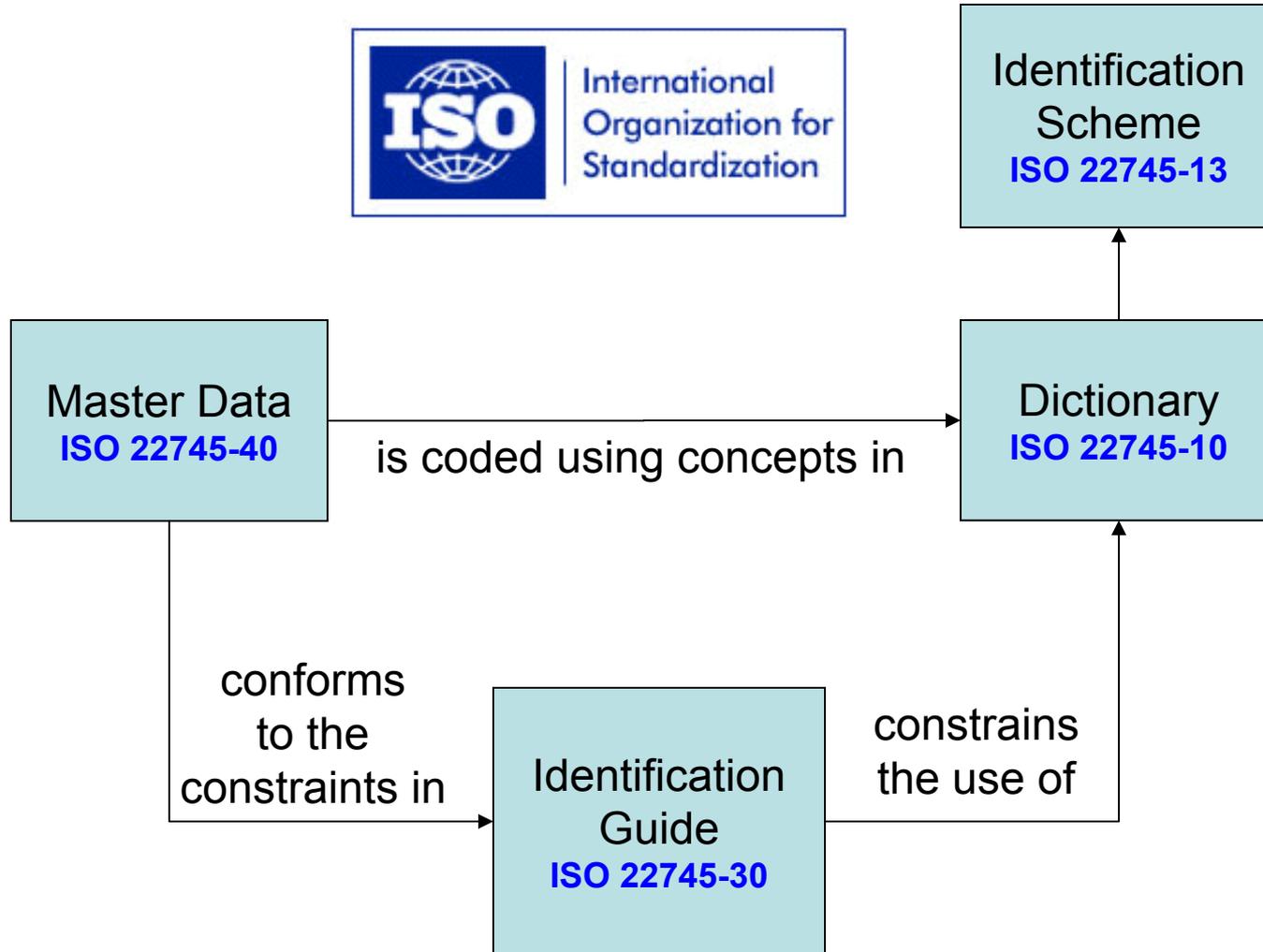
NATO Codification System Architecture



eOTD Architecture

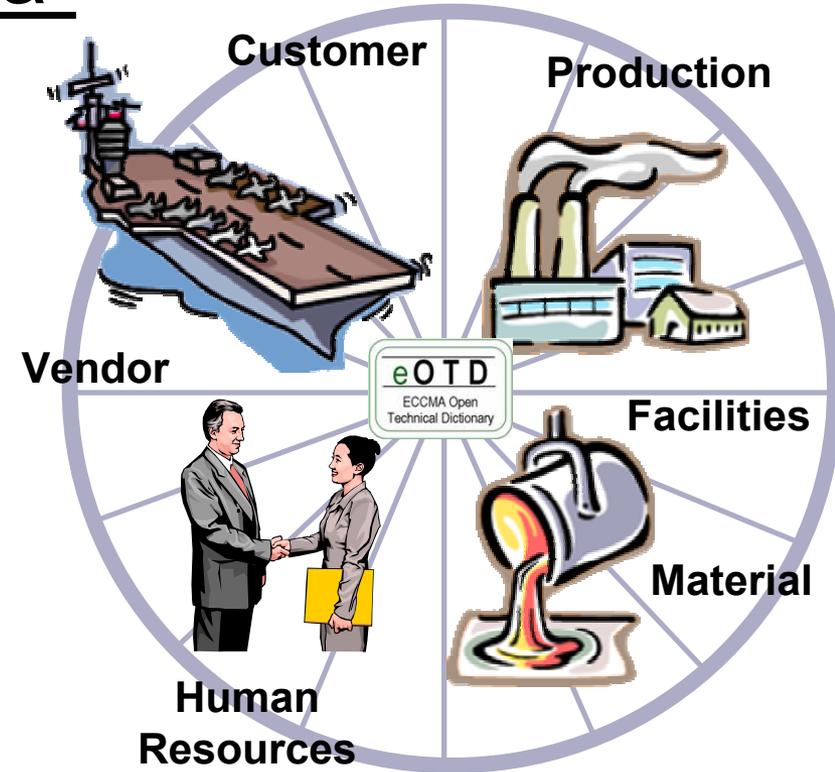


ISO 22745 Architecture



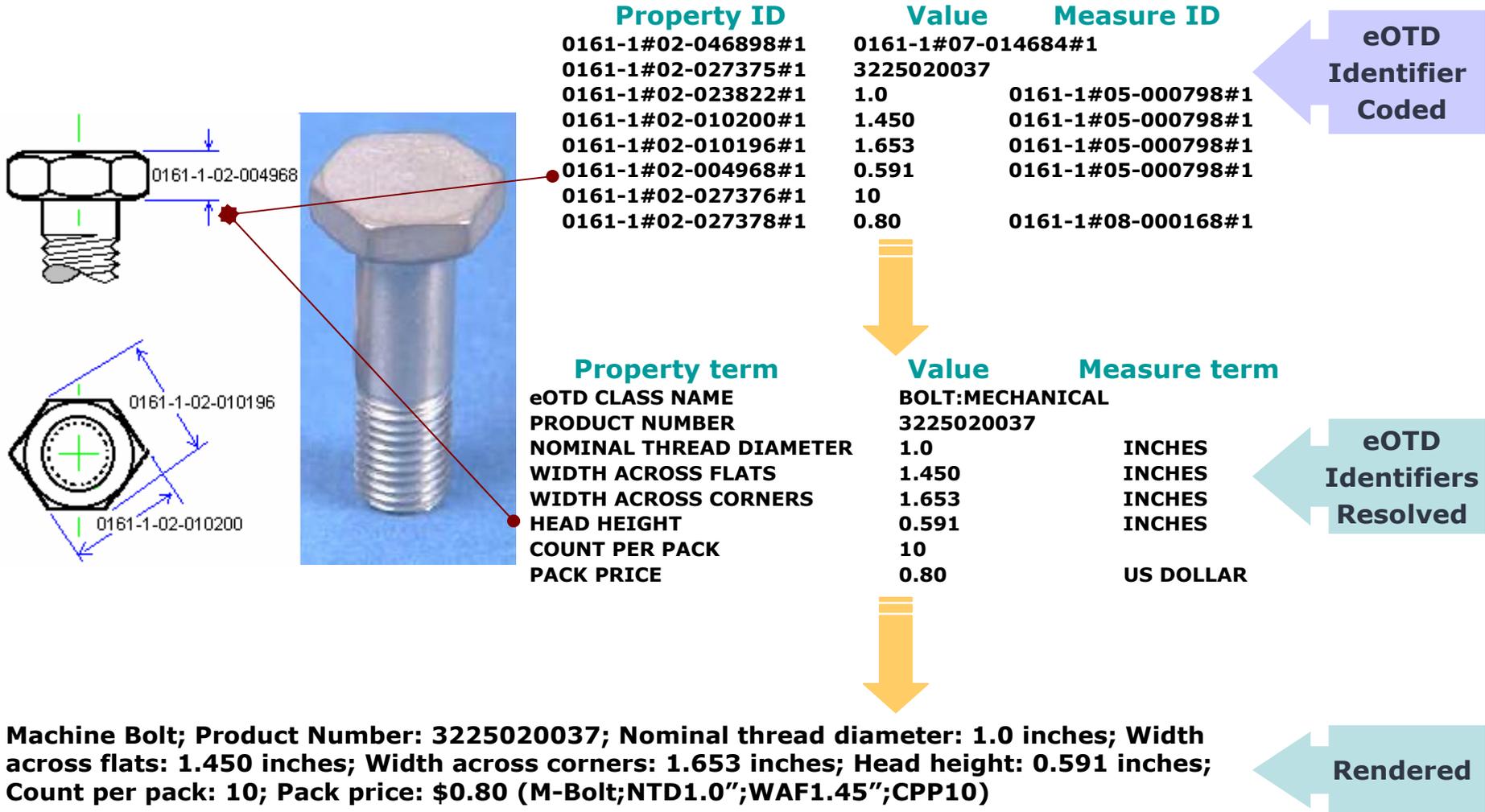
✓ Common Concept Encoding “metadata”

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



✓ Common Concept Encoding

“master data”



Buyer contract clause

The contractor, sub-contractor or supplier shall supply technical data in electronic format on any of the items covered in this contract as follows:

- a. The data shall comply with applicable ISO 22745-30 compliant Identification Guides.
- b. The data shall be encoded using concept identifiers from the ECCMA* Open Technical Dictionary (eOTD), an ISO 22745 compliant open technical dictionary.
- c. The data shall be provided in eOTD-r-xml, an ISO 22745-40 compliant Extensible Markup Language (xml) format published by ECCMA*.
- d. The data shall be certified as ISO 8000-110 compliant.

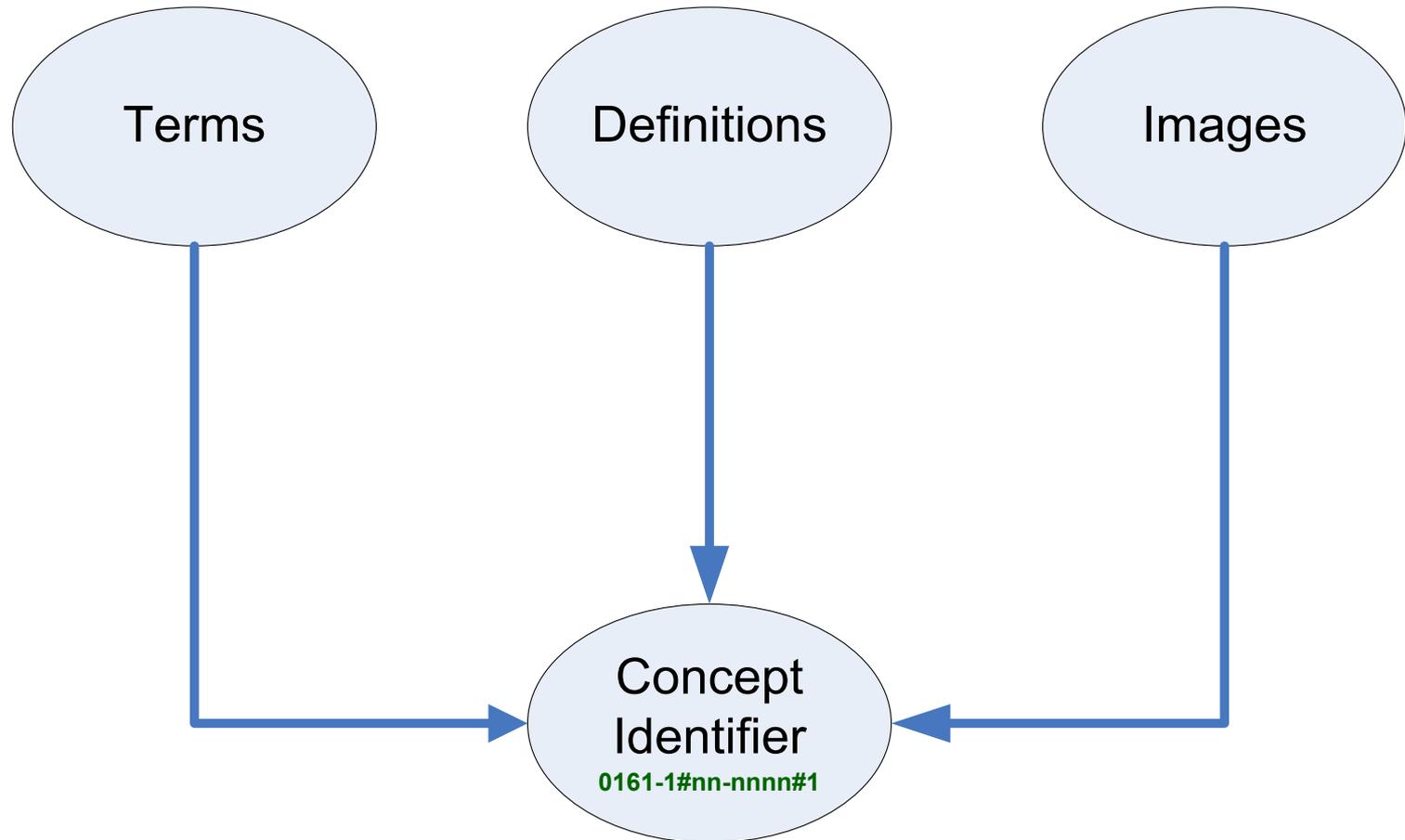
* The Electronic Commerce Code Management Association (ECCMA) (www.eccma.org) is the Dictionary Maintenance Organization for the eOTD, a compliant open technical dictionary as defined by ISO 22745 and can provide technical assistance in meeting this requirement.



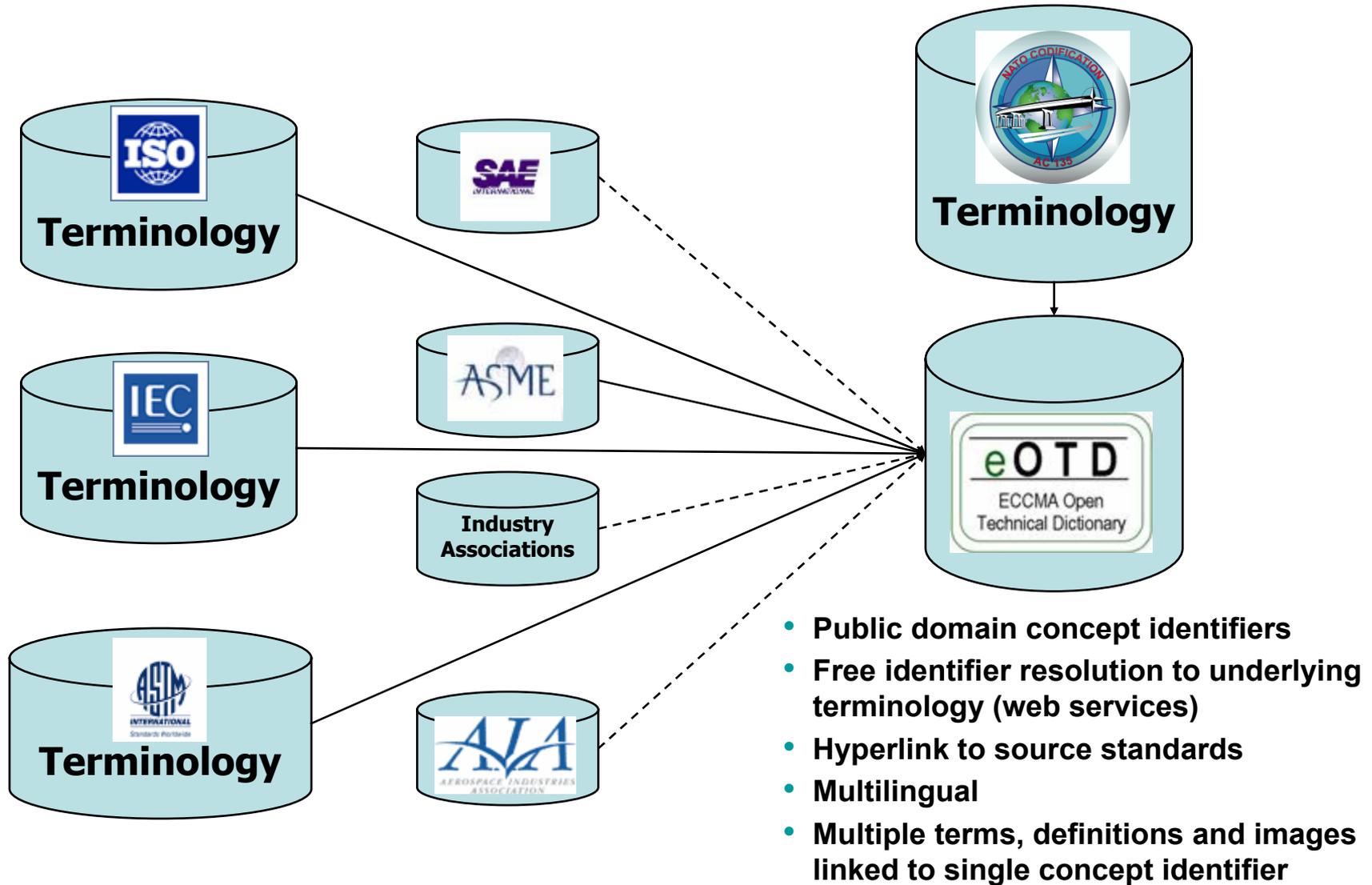
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The ECCMA Open Technical Dictionary (eOTD)



Terminology mapping



eOTD Dictionary

- Contains
 - Concepts with identifiers
 - Terminology to specify meaning of concepts
- Does not contain
 - Classifications
 - Relationships between concepts*
 - Constraints on property values*
 - Data types*
 - Reply instructions*

****These are all contained in identification guides.***

classifications

FSC/NSC

UNSPSC

CPV

CPC

eCl@ss



Class
• *machine bolt*
• *self-aligning plain bearing*

Property
• *thread series designator*
• *thread diameter*

Controlled Property Value
• *Monday*
• *iron*

Unit of measure

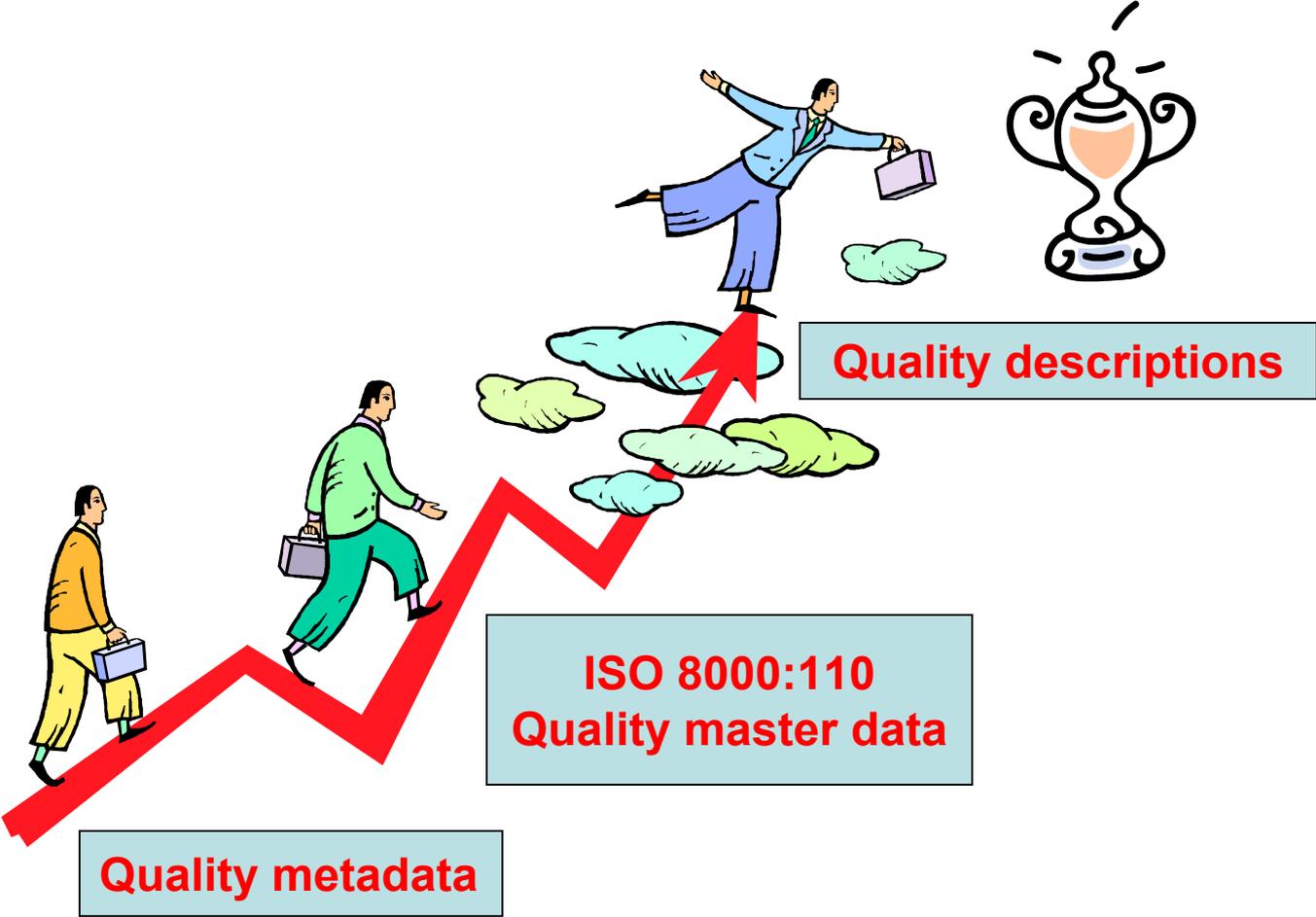
Qualifiers of measure

Currencies

ECCMA
electronic commerce code management association
Identification Guides
ISO 22745-30

↑
ISO 13584-501
ISO 13584-511
RDLs
eCl@ss

The steps to quality descriptions



“Data Quality in Practice”



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**

Motivation for ISO 8000:2008

Supplier and Manufacturers recognize that:

- data integration is one of the keys to a long term relationship
- the ability to provide their customers with quality data is a significant differentiating factor.

Suppliers and Manufacturers are:

- publishing the specifications of their products, capabilities and services on their web sites.
- looking to increase their visibility and understand that the best way to do this is to improve the quality of their data.

Suppliers and manufacturers are looking for a Standard that they can use to identify the quality of their data.



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ISO 8000-110:2008

Syntax

Each data set shall contain a reference to the syntax to which the data set complies....The reference shall be resolvable to the specification of the syntax through a mechanism that is publicly available.

Semantic encoding

Each data element value shall reference all concepts necessary to unambiguously define its meaning. Each reference shall be to a concept dictionary entry contained in a concept dictionary that supports an interface for resolution of a concept identifier.

Conformance to requirements

Each data set shall contain a reference to the data requirements statement to which the data set complies. The reference shall be a globally unambiguous identifier that was used to encode the data set. The reference shall be resolvable to the data requirements statement. The data requirements statement shall be publicly available.

Syntax and semantic resolution shall be available at no charge unless the data carries a “fee based encoding” warning label.



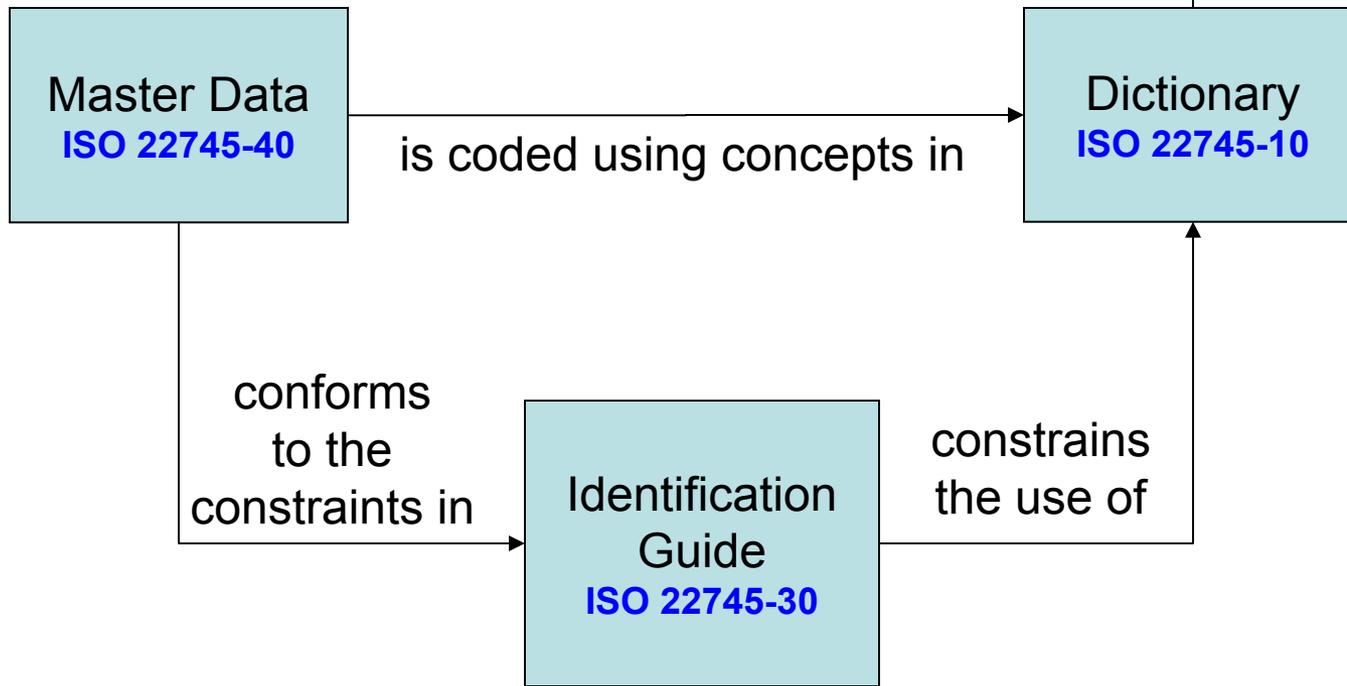
“Data Quality in Practice”



ISO 8000:2008



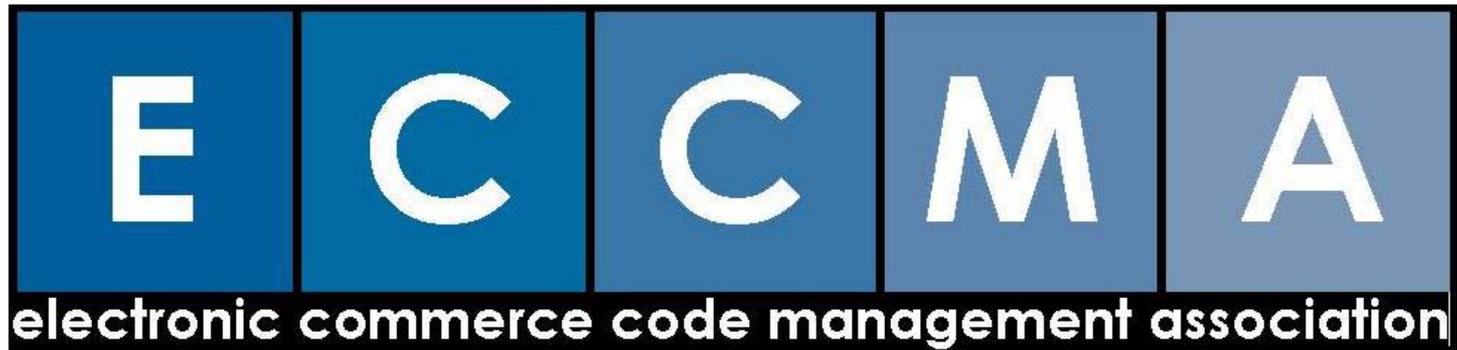
ISO 8000



"Data Quality in Practice"



Extra slides



An international non-profit membership association of industry and government master data 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



“Data Quality in Practice”



master data

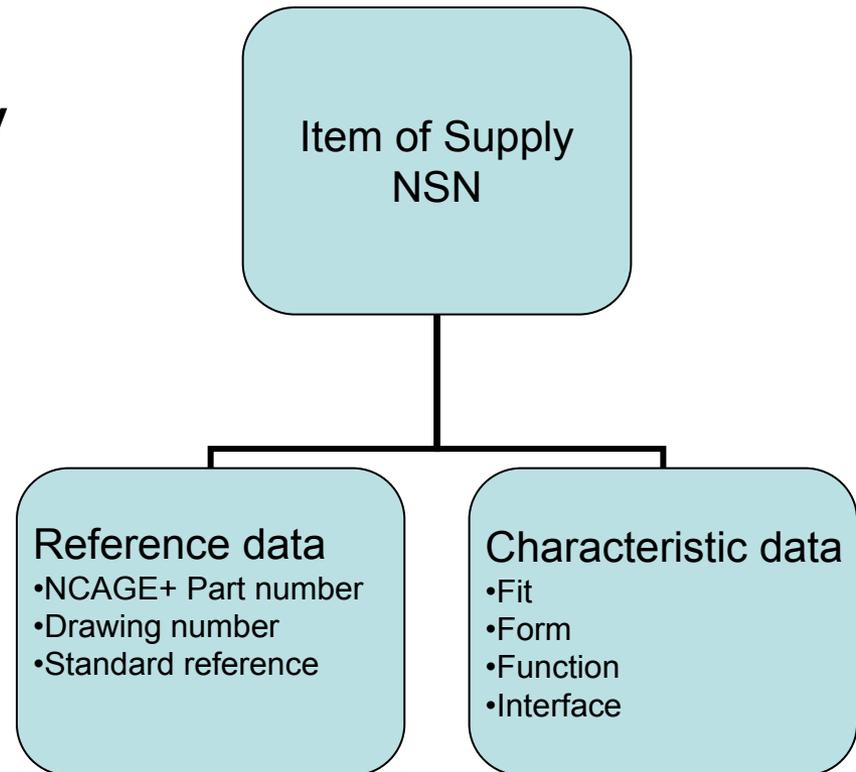
data held by an organization that describes the entities that are both independent and fundamental for an enterprise, that it needs to reference in order to perform its transactions

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

- **Customers**
- **Suppliers**
- **Materials**
- **Services**
- **Assets**
- **Locations**
- **Employees**
- **MSDS**
-

Justification for codification

- **Manufacturers and suppliers** identify items of production by their reference numbers (part number)
- **Master data managers** identify items of supply by their characteristic data



Justification for codification

- Item reduction studies
(identification of duplicates)
 - *Save up to 15% of total inventory cost*
- Better sourcing and contracting
 - *Save up to 20%*
- Substitution and interoperability
 - *Part standardization during design and manufacture*
 - *Increases equipment availability*
 - *Can be mission critical*



Justification for codification

“Boeing currently buys 200 different kinds of safety glasses and 80 different shades of white paper. The defense and commercial aircraft divisions each negotiate for their own aluminum and titanium. Why can't we buy two or three kinds of safety glasses? Why can't we have standard part numbers that go across the enterprise?”

James F. Albaugh, CEO Boeing Integrated Defense Systems,

Business Week March 13, 2006

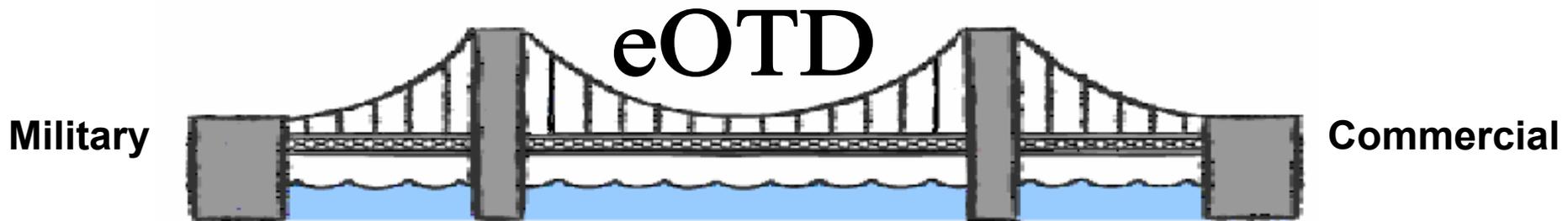


“Data Quality in Practice”



Military/Commercial Bridge

“There is and always has been a philosophical gulf between the application of cataloging for military purposes and ... for commercial. ...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 Dept of National Defence.



Phantom

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)



Goal and Guiding Principles

All sites will catalogue the same items in the same fashion, including names, descriptions and associated classification links (catalog and associated data).

Guiding Principles

- Adopt an open standard (eOTD)

 - Based on NATO Schema – familiarity and system base

 - Linked to UNSPSC for global spend analysis

- Design a system and process to lower the pain across the sites

 - Level of effort – resources

 - Cost

- Catalog the 'right' items

 - Remove duplicates and obsolete (archive)

 - Integrate eProcurement program to move items to Suppliers catalogs

ACW Common Coding



52368965412 – Tyre Bridgestone
435/95 R25



56329845 – Tyre BS 435/R25 Standard
Purpose E3 2 Star Radial



125435 – Bridge Stone 25inch 435/95



965123465 – Tyre Bridgestone Part
Number 12345



One Common Anglo Number

Standardised Long Description:

Tire: Pneumatic, Vehicular: Service Type for Which Designed: Loader Tire Rim Nominal Diameter: 25' Tire Width: 445mm Aspect Ratio: 0.95 Tire Ply Arrangement: Radial Ply Rating: 2* Tire & Rim Association Number: E3 Tread Material: Standard Tire Air Retention Method: Tubeless Tire Load Index and Speed Symbol: NA Tread Pattern: VHB TKPH Rating: 80

Standardised Short Description:

Tire Pneumatic: Loader 25' 445mm 0.95 2*

masterpiece

sparesFinder

Provisional Corporate Match

Original Data				Working Part No.	All	Local Catalogue Matches			Score					
Manufacturer	Part No.	Description	Price(USD)			Manufacturer	Master Part No.	Description						
WARMAN INTERNATIONAL LTD	B217	SEAL, O-RING	0	B217	<input type="checkbox"/>	WARMAN INTERNATIONAL LTD	B217	1.094IN; 0.094IN; RBR	0					
WARMAN INTERNATIONAL LTD	B109	SEAL, O-RING	0	B109	<input type="checkbox"/>	WARMAN INTERNATIONAL LTD	B109	1.38IN; 0.11IN; RBR	0					
JAMES WALKER	0B034107	SEAL, O-RING	0	0B034107	<input type="checkbox"/>	JAMES WALKER	0B034107	2-3/8IN; 1/8IN; RBR; BLK	0					
LIGHTNIN MIXERS PTY LTD	115763VIT	SEAL, O-RING	0	115763VIT	<input type="checkbox"/>	LIGHTNIN MIXERS PTY LTD	Location: Peru Stock Code: 000391219 INSIDE DIAMETER 2-3/8 IN OUTSIDE DIAMETER IN CROSS-SECTIONAL HEIGHT 1/8 IN MATERIAL RUBBER DEG F TEMPERATURE RATING HARDNESS RATING COLOR BLACK SPECIFICATION/STANDARD DATA BLK							
LIGHTNIN MIXERS PTY LTD	115861PSP	SEAL, O-RING	0	115861PSP	<input type="checkbox"/>	LIGHTNIN MIXERS PTY LTD								
SEW EURODRIVE	32303AV	RING	0	32303AV	<input type="checkbox"/>	SEW EURODRIVE								
STERLING FLUID SYSTEMS	45.8 - 041OB	RING	0	45.8 - 041OB	<input type="checkbox"/>	STERLING FLUID SYSTEMS								
FRANKLIN ELECTRIC	275743133	SEAL, O-RING	0	275743133	<input type="checkbox"/>	FRANKLIN ELECTRIC								
MOYNO CO	3207905210	SEAL, O-RING	0	3207905210	<input type="checkbox"/>	MOYNO CO								
LECO CORPORATION	611-476	SEAL, O-RING	0	611-476	<input type="checkbox"/>	LECO CORPORATION					611-476	1.811IN; 0.3740IN; RBR	0	
LECO CORPORATION	611-477	SEAL, O-RING	0	611-477	<input type="checkbox"/>	LECO CORPORATION					611-477	2-1/16IN; 0.2IN; RBR; BLK	0	
INGERSOLL DRESSER PUMP COMPANY	20A11CM268	SEAL, O-RING	0	20A11CM268	<input type="checkbox"/>	INGERSOLL DRESSER PUMP COMPANY					20A11CM268	8.50MM; 8.75MM; RBR	0	
LIGHTNIN MIXERS PTY LTD	11581PSP	SEAL, O-RING	0	11581PSP	<input type="checkbox"/>	LIGHTNIN MIXERS PTY LTD					11581PSP	11.8IN; 1/4IN; RBR; BLK	0	
MARATHON PUMPS	560020360	SEAL, O-RING	0	560020360	<input type="checkbox"/>	MARATHON PUMPS	560020360	1.19IN; 0.094IN; RBR	0					
MARATHON PUMPS	560022360	SEAL, O-RING	0	560022360	<input type="checkbox"/>	MARATHON PUMPS	560022360	1.47IN; 0.094IN; RBR; BLK	0					

Activity History / Assign User / Add Note

View Long Description

Reject Match

Rematch

Approve Match

Results: 1 to 15 of 159



Catalog Compose: Cleansing Productivity Tool

ONiQUA.

ENTERPRISE ANALYTICS

Driving business performance.

Cataloging (TRAININGQP)

Criteria Results: 22

Name UnName All Items Named UnNamed Edit Item(s) Assign To... Query

Tax Criteria Results: 15

Code	Descriptor
00036	BALL BEARING
30556	BEARING UNIT,BALL
00041	BEARING, BALL, AIRFRAME
18036	BEARING,BALL AND ROLLER,RADIAL AN
F4897	BEARING,BALL AND ROLLER,THRUST
00014	BEARING,BALL,ANNULAR
30213	BEARING,BALL,DUPLEX
W0085	BEARING,BALL,INSERT
61484	BEARING,BALL,LINEAR MOTION
00049	BEARING,BALL,ROD END
F2591	BEARING,BALL,SELF-ALIGNING
00019	BEARING,BALL,THRUST

Sel	Legacy ID	Legacy Description	INC	Name	Item
<input checked="" type="checkbox"/>					
<input type="checkbox"/>	9604126933	BALL BEARING SKF			NEW
<input type="checkbox"/>	3068841283	BALL BEARING THRUST			NEW
<input checked="" type="checkbox"/>	4207481033	BALL BEARING UC206	00014	BEARING,BALL,ANNULAR	NAME
<input checked="" type="checkbox"/>	4207481053	BALL BEARING UC207			NEW
<input checked="" type="checkbox"/>	4207481013	BALL BEARING UC211			NEW
<input type="checkbox"/>	3445141133	BALL BEARING			NEW
<input type="checkbox"/>	5968115523	BALL BEARING			NEW
<input type="checkbox"/>	5968115583	BALL BEARING			NEW
<input type="checkbox"/>	5968115593	BALL BEARING			NEW
<input type="checkbox"/>	5968116343	BALL BEARING			NEW
<input type="checkbox"/>	5968116383	BALL BEARING			NEW
<input type="checkbox"/>	0295406603	BALL BEARING, 1.75 IN.			NEW
<input type="checkbox"/>	2295030443	BALL BEARING, 17X40X12MM			NEW
<input type="checkbox"/>	2065238483	BALL BEARING, 30MM ID			NEW
<input type="checkbox"/>	4355717513	BALL BEARING, 4304B-TN			NEW
<input type="checkbox"/>	4355717523	BALL BEARING, 6304/17M			NEW
<input type="checkbox"/>	3275101823	BALL BEARING, ANGULAR CONTACT			NEW
<input type="checkbox"/>	8800137071	BALL BRG SR 6307 Z C3			NEW
<input type="checkbox"/>	2204700453	BEARING, BALL			NEW
<input type="checkbox"/>	3197750243	BEARING BALL ANGI II AR			NEW

Definition Details Additional Data

A cylindrical device in which the inner or outer ring turns upon a single or double row of hardened balls which roll easily between the two rings, thus minimizing friction. For item with faces specially ground for duplex mounting see BEARING, BALL, DUPLEX. Excludes BEARING, BALL, AIRFRAME.

Legacy Description Feedback Comments Audit Trail

BALL BEARING UC206
PARTS FOR AIR CONDITIONING UNIT
MFR : SAM JUNG
MODEL : AF#7DS, SF#6SS, DSQ-200/200B, SF28S
MAKE : JEIL BEARING KOREA

Selected: 3 Naming...1 3 of 22

Stock Code Catalogue Data Sheet

Stock Code 000408187
Corporate Stock Code PIGO-028721
Unit of Issue EA
Object VALVE
Qualifier BALL
Status NOT DONE



Short Description

VALVE, BALL: 32MM, PUSH ON,PVC BODY , BALL & SEAT EPDM, EPDM,HANDLEVER OPERATED

Purchase Description

VALVE, BALL: SIZE 32MM, CONNECTION PUSH ON, PVC BODY MATERIAL, TRIM BALL & SEAT EPDM, SOFTGOODS EPDM, HANDLEVER OPERATED

Attribute	Value
<i>BODY MATERIAL</i>	PVC
<i>CONNECTION</i>	PUSH ON
<i>DESIGN RATING</i>	*****
<i>OPERATED</i>	HANDLEVER
<i>SIZE</i>	32MM
<i>SOFTGOODS</i>	EPDM
<i>SPECIFICATION</i>	*****
<i>STYLE</i>	*****
<i>TEMPERATURE RATING</i>	*****
<i>TRIM</i>	BALL & SEAT EPDM

IDENTIFICATION GUIDE BUILDER

Quick Search | eOTD Core Classes | IG Classes | **IG Builder**

IG Id : 0161-1-IG-000699 Title : PROCUREMENT Owner Ref : IR1256

Class : ELBOW:PIPE Owner : 202 Version : 4

Properties	Property Name	Data T...	Req...	Com...	Choice	Diff.
ITEM NAME	BOLT CIRCLE NOMINAL DIAMETER	STRING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LEG LENGTH	BOLT HOLE NOMINAL DIAMETER	STRING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MANUFACTURER CODE	BOLT HOLE QUANTITY	STRING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MANUFACTURER PARTNUM	ECCMA GLOBAL ITEM IDENTIFIER (EGII)	STRING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MATERIAL	NOMINAL OUTSIDE DIAMETER	STRING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MATERIAL DOCUMENT AND CLASSIFICATION	NOMINAL WIDTH	STRING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MAXIMUM OPERATING PRESSURE						
MAXIMUM OPERATING TEMPERATURE						
MEDIA FOR WHICH DESIGNED						
MFR SOURCE CONTROLLING REFERENCE						
NOMINAL COUPLING SIZE ACCOMMODATED						
NOMINAL INSIDE DIAMETER HOSE ACCOMMODATED						
NOMINAL LENGTH						
NOMINAL OUTSIDE DIAMETER						
NOMINAL OUTSIDE DIAMETER HOSE ACCOMMODATED						
NOMINAL OUTSIDE DIAMETER TUBE ACCOMMODATED						
NOMINAL PIPE SIZE ACCOMMODATED						
NOMINAL THICKNESS						
NOMINAL THREAD SIZE						
NOMINAL WIDTH						
NOMINAL WIDTH ACROSS FLATS						
NON-DEFINITIVE GOVERNMENT SPEC/STD REFERENCE						
NONDEFINITIVE SPEC/STD DATA						
PART NAME ASSIGNED BY CONTROLLING AGENCY						

Enumeration: STE Search: use ECCMA core

Content	Content
STEEL COMP XC75	STEEL COMP XC75
STEEL COMP XC70	STEEL COMP XC70
STEEL COMP Z10CNF18-10	STEEL COMP 430F
STEEL COMP 430F	
STEEL COMP 4620H	
STEEL COMP B4	
STEEL COMP AF37	
STEEL COMP ADX	
STEEL COMP A95	
STEEL COMP W210	
STEEL COMP E3316	

OK CANCEL

Status: Properties retrieved 86

Build XML Save Add Property

Generate new descriptions



RAMIS

DPMS



Username : DPMS_DEV

Logout

Home Status About Help Profile

- GROUP_CATALOGUER
- CAT, Material Catalogue
 - CAT1, Base Tables
 - CAT2, USC Dictionary
 - CAT2.1, USC Base Tables
 - CAT2.2, USC Dictionary
 - CAT3, Material Master
 - CAT4, MM Associated Data
 - CAT5, Value Standardisation
 - CAT6, Description Generation
 - Unprocessed Descr Changes
 - ERP Description Generator
 - Report-Unprocessed Description
 - Report-Description Comparison
 - CAT7, Duplicate Resolution
 - CAT8, Images & Documentation
 - CAT9, Catalogue Search Engine

retrieve
Retrieve Highlighted Row(s)
Update

ERP Description Generator

Material Number	Originating ...	C
000225540	8201	WCE
000238485	8201	HV12/200
000252056	8201	
000253666	8201	
000289637	8201	HD0302M

- Export Data
- Special
- Navigate
- Grid Properties
- Column Resize
- Sort

ERP Description Generator

ERP SAP Short Description	SFD Len	Uniq...	
GLE,29.4MM,55MM		N	BEARING, BALL: TYPE THRUST, SINGLE ROW, INS
M,110MM,27MM		Y	BEARING, BALL: SINGLE ROW, INSIDE DIAMETER 5
VE,SINGLE,15MM		N	BEARING, BALL: TYPE DEEP GROOVE, SINGLE RO
VE,SINGLE,25MM		N	BEARING, BALL: TYPE DEEP GROOVE, SINGLE RO
BEARING,BALL:PN:6303 Mnr:KOYO,SINGLE		N	BEARING, BALL: TYPE DEEP GROOVE, SINGLE RO

Type	Description
FFT	APPLICATION: TAKE UP, MILL FEEDER
MEMO	DUTY UCT310
OLD VALUE	PART NUMBER: *****
ORIGINAL	BEARING: TAKE-UP BEARING NACHI HEAVY DUTY UCT 310
PURCHASE	BEARING, BALL: SINGLE ROW, INSIDE DIAMETER 50 MM, OUTSIDE DIAMETER 110 MM, WIDTH 27 MM, IBI 13531, APPLICATION: TAKE
SAPSPD	BEARING,BALL:SINGLE,50MM,110MM,27MM

Record: 23 to 2611

Description changed

- GROUP_CATALOGUER
- CAT, Material Catalogue
 - CAT1, Base Tables
 - CAT2, USC Dictionary
 - CAT2.1, USC Base Tables
 - CAT2.2, USC Dictionary
 - CAT3, Material Master
 - CAT4, MM Associated Data
 - CAT5, Value Standardisation
 - CAT6, Description Generation
 - Unprocessed Descr Changes
 - ERP Description Generator
 - Report-Unprocessed Description
 - Report-Description Comparison
 - CAT7, Duplicate Resolution
 - CAT8, Images & Documentation
 - CAT9, Catalogue Search Engine

ERP Description Generator

Disable paging

Material Number	Originating ...	CURRENT SAP Short Description	NEW SAP Short Description	SFD Len	Uniq...	
000225540	8201	WVCE	BEARING,BALL:THRUST,SINGLE,29.4MM,55MM		N	BEARING, BALL: TYPE THRUST, SINGLE ROW, INS
000238485	8201	HV12/2001P, DB024	BEARING,BALL:SINGLE,50MM,110MM,27MM		Y	BEARING, BALL: SINGLE ROW, INSIDE DIAMETER 5
000252056	8201		BEARING,BALL:DEEP GROOVE,SINGLE,15MM		N	BEARING, BALL: TYPE DEEP GROOVE, SINGLE RO
000253666	8201		BEARING,BALL:DEEP GROOVE,SINGLE,25MM		N	BEARING, BALL: TYPE DEEP GROOVE, SINGLE RO
000289637	8201	HD0302M	BEARING,BALL:P/N:6303 Mnfr:KOYO,SINGLE		N	BEARING, BALL: TYPE DEEP GROOVE, SINGLE RO

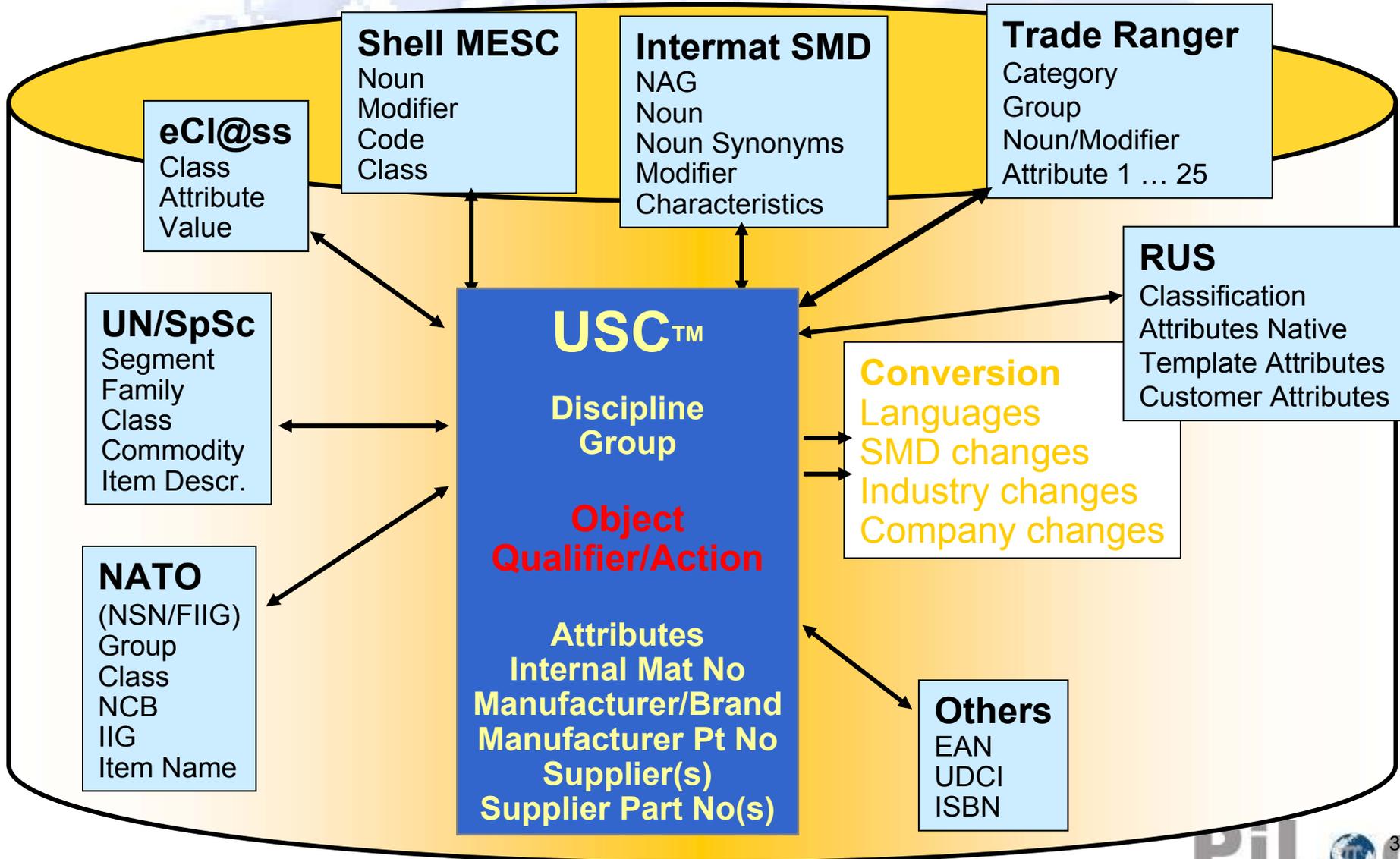
Step 1 - Gen Descr Config
Step 2 - Template Attr Config
Step 3 - Unique Descr Config

Step 4 - Attribute Values Abbr
Step 5 - Attribute Values
Step 6 - Part Numbers
Step 7 - Documentation
Step 8 - Reference Data
Step 9 - Descriptions

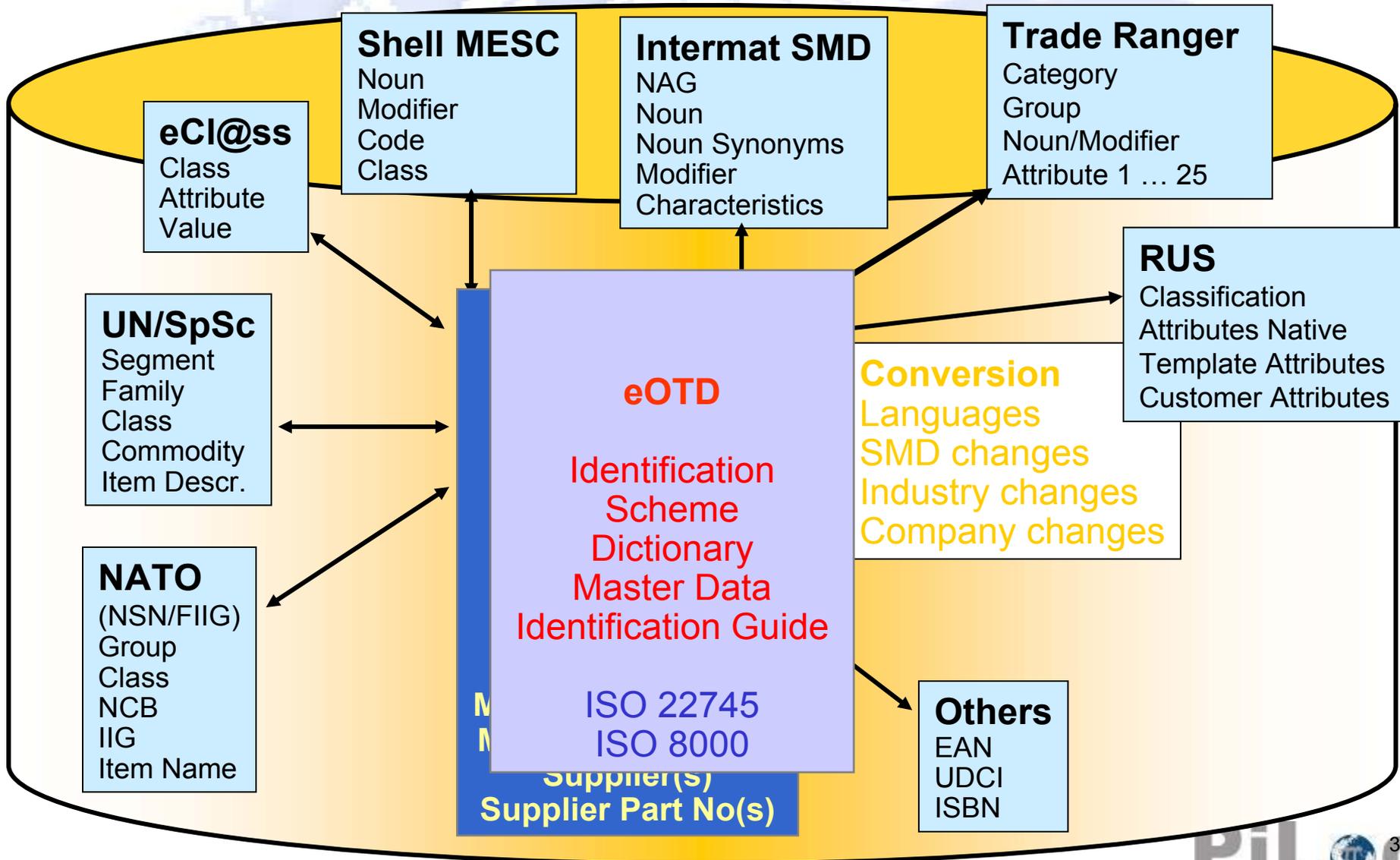
Type	Description
FFT	APPLICATION: TAKE UP, MILL FEEDER
MEMO	DUTY UCT310
OLD VALUE	PART NUMBER: *****
ORIGINAL	BEARING: TAKE-UP BEARING NACHI HEAVY DUTY UCT 310
PURCHASE	BEARING, BALL: SINGLE ROW, INSIDE DIAMETER 50 MM, OUTSIDE DIAMETER 110 MM, WIDTH 27 MM, IBI 13531, APPLICATION: TAKE
SAPSPFD	BEARING,BALL

Record: 23 to 2611

Universal Standard Catalog Translation Model



Universal Standard Master Data Translation Model



A last word of caution

Data quality and Intellectual Property (IP)

All identifiers are copyright. They belong to the organization that issued them and their use is subject to the terms and conditions imposed by the issuer.

- ❑ *Unless identifiers have been declared available for public use without a licence, they should never be used to retrieve data that was not supplied by the owner of the identifier unless you have specific permission to do so.*
- ❑ *In order to protect your data from claims of “joint work” you should not use proprietary identifiers as metadata.*

The NCS and the eOTD concept identifiers are in the public domain.



Peter Benson

Mr. Peter Benson is the Executive Director and Chief Technical Officer of the Electronic Commerce Code Management Association (ECCMA).

Peter is an expert in distributed information systems, content encoding and master data management. He designed one of the very first commercial electronic mail software applications, WordStar Messenger and was granted a landmark British patent in 1992 covering the use of electronic mail systems to maintain distributed databases.

Peter designed and oversaw the development of a number of strategic distributed database management systems used extensively in the UK and US by the Public Relations and Media Industries. From 1994 to 1998, Peter served as the elected chairman of ANSI ASCX 12E, the US Standards Committee responsible for the development and maintenance of EDI standard for product data.

Peter is known for the design, development and global promotion of the UNSPSC as an internationally recognized commodity classification and for the design of the eOTD, an internationally recognized open technical dictionary based on the NATO codification system.

Peter is the project leader for ISO 8000 the new international standard for data quality and for ISO 22745 the new standard for open technical dictionaries, he is also the ISO TC184/SC4 Quality Committee convener. He is an expert on the creation and maintenance of unambiguous language independent master data and the generation of high quality descriptions that are the heart of today's ERP applications and the next generation of high speed and high relevance internet searches.

Peter is an internationally recognized proponent of open standards and public domain metadata critical to ensuring data portability and data preservation. Peter has been instrumental in focusing international attention not only on data quality issues but also on the serious intellectual property issues caused by proprietary metadata that can lead to an organization's loss of rights in its own data.