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Douglas Mann, Secretary, ISO/IEC JTC 1/SC 32

Farance Inc *, 360 Pelissier Lake Road, Marquette, MI 49855-9678, United States of America

Telephone: +1 906-249-9275; E-mail: MannD@battelle.org

available from the JTC 1/SC 32 WebSite <http://jtc1sc32.org/>

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The Open Technical Dictionary

ISO/IEC JTC1/SC32/WG2

2005-04-19

Gerald Radack

Concurrent Technologies Corp.

radack@ctc.com

ECCMA

Electronic Commerce Code Management Association is a not for profit membership association; Members include public and private sector buyers, manufacturers, suppliers, application providers, consultants and industry associations from 42 countries.

Mission:

- To improve the quality and reduce the cost of cataloging
- To manage an accessible, open and democratic process for achieving rapid consensus in the development of Open Technical Dictionaries
- To support the development of Open Source cataloging tools

www.eccma.org

Contact: Peter.Benson@eccma.org

Cataloging

Cataloging is an essential component of design, purchasing, inventory management, maintenance and repair through to ultimate disposal

- Parts rationalization
- Manufacturing procedure rationalization
- Inventory rationalization
- Transport rationalization
- Component interoperability
- Security
- Hazardous materials

Stock Numbers, Part Numbers, UID, RFID are all based on cataloged data

Cataloging

- Every individual, organization, location, good and service can be described by a set of property-value pairs



STANDARD ITEM NAME	BEARING: BALL; THRUST
SURFACE FINISH	GROUND
STYLE DESIGNATOR	FLAT RACE SURFACE, IN-LINE BALL RETAINER
MATERIAL	STEEL, ALLOY, HARDENED
LOAD TYPE	LIGHT
MATERIAL	STEEL, HARDENED
BORE DIAMETER	5/16 inch
OVERALL OUTSIDE DIAMETER	5/8 inch
OVERALL HEIGHT	1/4 inch

The ECCMA Open Technical Dictionary (eOTD)

A descriptive language for cataloging:

A methodology and concept dictionaries for the description of individuals, organizations, locations, goods and services

The eOTD definitions, names and identifiers are in the public domain

**The eOTD is the commercial representation
of the NATO Codification System (NCS)**

Copyrighted identifiers can be the ultimate Trojan Horse!

ISO 22745

This Technical Specification specifies the maintenance process applied to an Open Technical Dictionary (OTD) by a registration authority (RA) and provides guidelines for the use of dictionary elements defined in the OTD as reference data for the incorporation of cataloging information into ISO 10303 product data files.

**Goal: To lower costs and improve quality
by Cataloging at Source**

- Elimination of most manual aspects of cataloging
- Elimination of data mapping

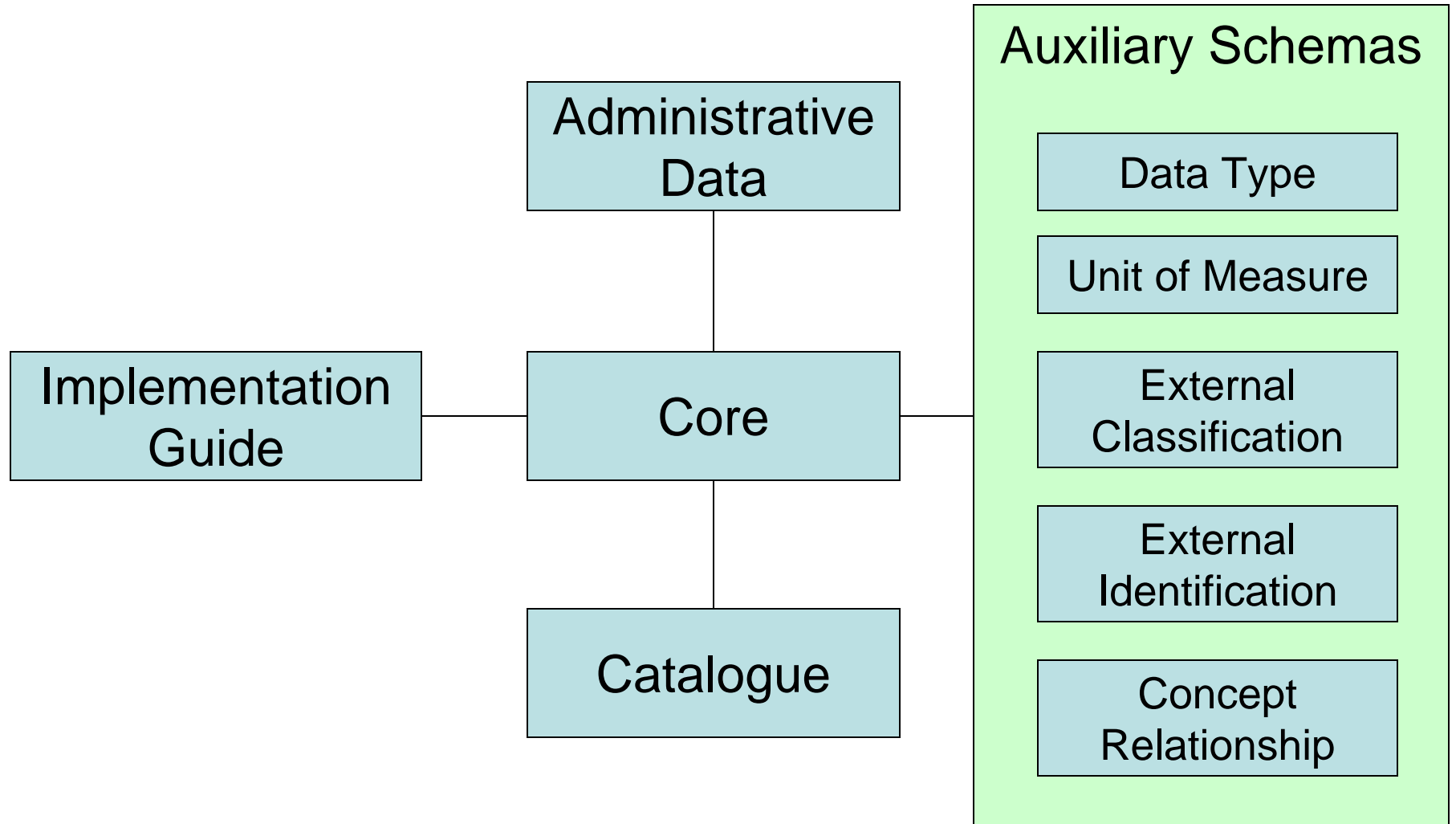
Objectives

Open Technical Dictionary of properties

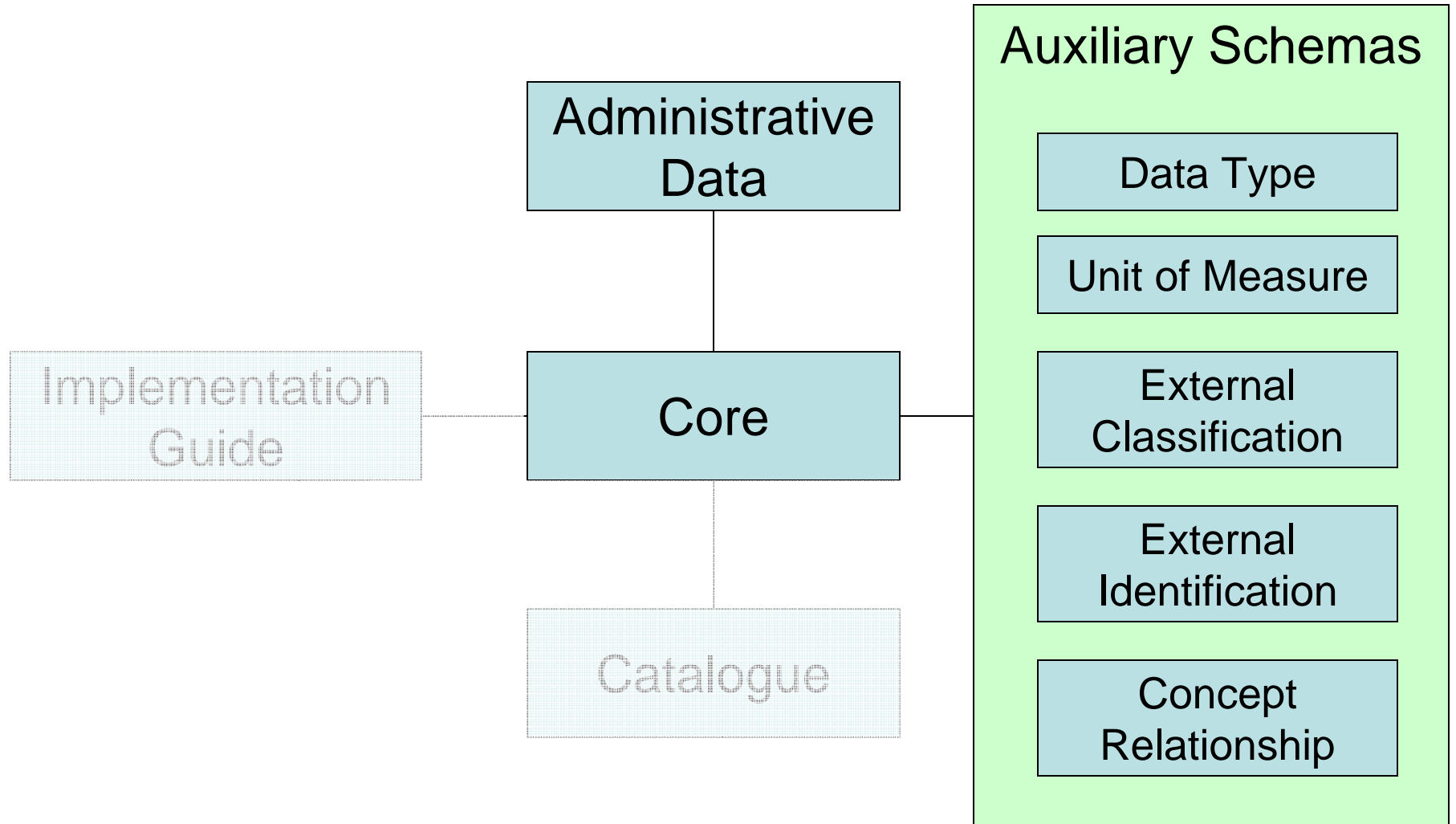
- Available as ISO Registry
- Freely available over Web
- Standardized process for dictionary maintenance (RA)
 - ✓ Use existing ISO terminology where available
 - ✓ Harmonization process to resolve overlap in ISO terminology

Implementation guide on integration of tagged catalog data in STEP

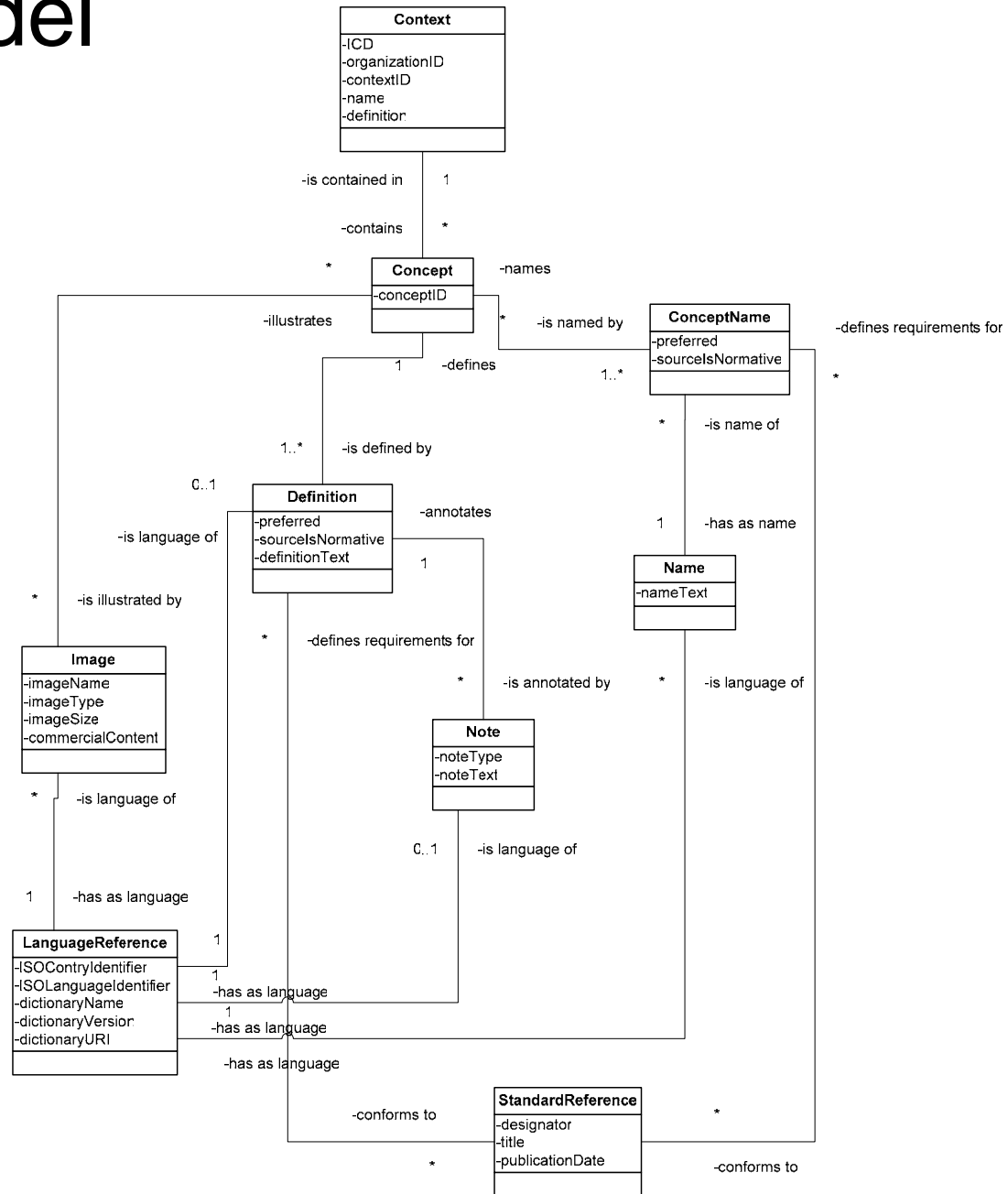
Data Models



Mapping to ISO/IEC 11179



Core Model



Implementation Guides

- Designed to allow buyers to specify cataloging requirements to be used by their suppliers to create eOTD compliant XML catalogs
- Published and maintained selection of classes, properties, features and enumeration values with constraints, representations and notes that can be applied to:
 - eOTD searchers
 - eOTD catalog builders
 - the ESN registry

Statistics

ECCMA Standard Class Dictionary (ESCD)	67,163
ECCMA Standard Property Dictionary (ESPD)	47,959
ECCMA Property Value Dictionary (EPVD)	92,188
ECCMA Unit of Measure Dictionary (EUMD)	2,823
ECCMA Standard Image Dictionary (ESID)	6,046
ECCMA Standard Language Dictionary (ESLD)	66
ECCMA Standard Representation Dictionary (ESRD)	8
ECCMA Standard Dimension Dictionary (ESDD)	6
ECCMA Qualifier of Measure Dictionary (EQMD)	3
ECCMA Data Type Dictionary (EDTD)	4
ECCMA Standard Feature Dictionary (ESFD)	Under Development
Context Code Dictionary (ECCMA Table Code Number)	Under Development
Country Code Dictionary	Under Development
Currency Code Dictionary	Under Development
Concept_Relationship (synonyms)	Under Development
Allowable_Abbreviations	Under Development
Restricted_Names	Under Development
Informative text (notes and examples)	Under Development
Classifications of the ESCD	CPV, eClass, FSC, HS UNSPSC
Translations of the ESCD	Spanish, French, German, Dutch, Polish, Czech
Translations of the ESPD	French

Technical Dictionary Harmonization

Current harmonizations projects:

- ISO Technical Vocabularies
- ISO/NWI-CD-TS 15926-4 Oil and Gas RDL
- ISO/DIS 13584-511 Measuring instruments
- ISO/DIS 13584-501 Fasteners
- CPC Common Parts Catalog for Shipbuilding
- Newmont Mining Dictionary
- General Motors Dictionary
- Pilog/Starnode Dictionary

Technical Dictionary Harmonization

ECCMA proposes to establish a systematic process to harmonize the eOTD with ISO standards that contain terminology which could be used for cataloguing

- **Automatic when part goes out for DIS ballot**
- **At other times (e.g., pre-ballot review) upon request of the committee responsible for the document**

ISO 22745

Procedures for the development, maintenance and implementation of the eOTD

- Standards for the development, maintenance and harmonization of eOTD names and definitions
- Standards for the XML representations of eOTD implementation guides and eOTD encoded catalogs
- Standards for the integration of the eOTD property tags in CAD files

We greatly appreciate your help and support

Parts under Development

Part #	Title
1	Overview
10	Dictionary representation
11	Rules and guidelines for the formulation of definitions of dictionary elements
12	Naming and identification of dictionary elements
20	Procedures for operation of the registration authority or maintenance agency
21	Procedures for harmonization of dictionary content with other dictionaries and ISO and IEC standards
100	Dictionary content
200	Implementation guide for incorporating cataloguing information into ISO 10303 product data

Additional Parts

- Data elements for describing items of supply and items of production
- XML formats for exchange of dictionary, catalogue and implementation guide

Issues

- Conformance requirements
- Granularity of administrative data
- Relationship to ISO 16642, Computer applications in terminology —
Terminological markup framework
- Browsible and computer-interpretable formats for 11179-3 data model