

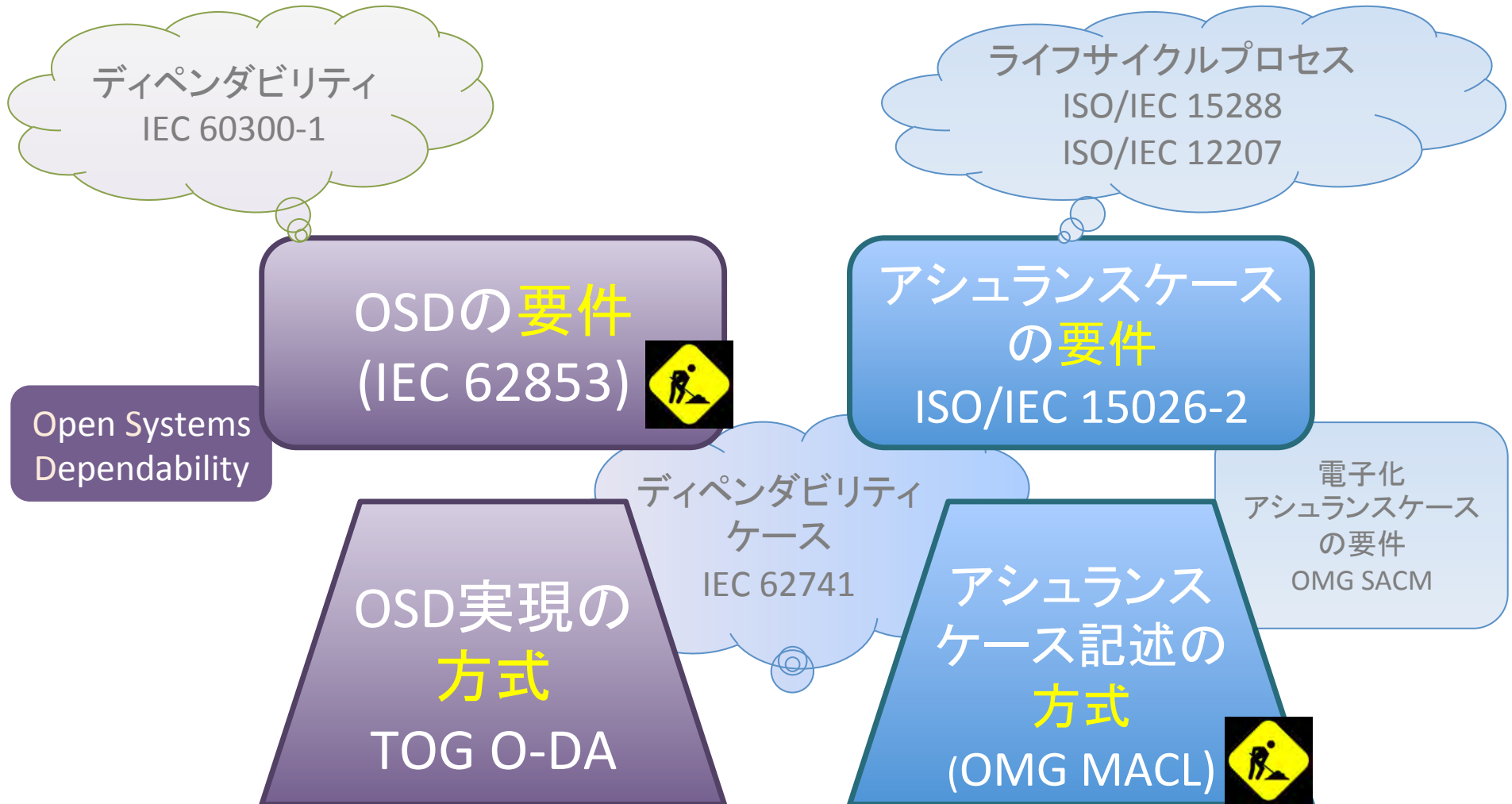
DEOS標準体系

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研究代表者 木下佳樹

神奈川大学理学部情報科学科

DEOS標準体系





IEC 62853 Open Systems Dependability



- **制定審議中 (2015-12発行予定)**

審議委員会： IEC TC56 Dependability PT4.8 Open Systems Dependability

[国内委員会： IEC/TC56信頼性専門委員会(事務局：日本規格協会)]

- マネジメントに関する規格の一つ。ディペンダビリティ管理のIEC標準を前提

IEC 60300-1 Dependability management

IEC 62741 Dependability case

- 想定される利用：

- OSDの認証

Cf. ISO 9000シリーズ(品質管理), ISO 14000シリーズ(環境管理), IEC 61508/
ISO2626他(機能安全)

- 合意形成のツール

TC 56 Work programme (16)

Project Reference	Document Reference	Init. Date	Current Stage	Next Stage	Working Group	Project Leader	Fcst. Publ. Date
IEC 60050-692 Ed. 1.0 International Electrotechnical Vocabulary - Part 692: Electric power systems: dependability and quality of service	56/1362/CD  194 kB	2009-07	ACDV 2011-12	CCDV 2013-09	PT 1.2	Dr. Mohinder Grover	2015-01
IEC 60300-1 Ed. 3.0 Dependability management - Part 1: Guidance for management and application	56/1550/FDIS  824 kB  845 kB	2010-05	CDIS 2014-01	APUB 2014-03	MT 8	Tom Van Hardeveld	2014-05
IEC 60300-3-3 Ed. 3.0 Dependability management - Part 3-3: Application guide - Life cycle costing	56/1549/CD  844 kB	2014-01	1CD 2014-01	A2CD 2014-05	MT 9	G. Taranto	2017-02
IEC 61703 Ed. 2.0 Mathematical expressions for reliability, availability, maintainability and maintenance support terms	56/1506/CD  559 kB	2013-03	CDM 2013-06	A2CD 2013-11	MT 10	Edward Korczak	2016-03
IEC 62550 Ed. 1.0 Spare Parts Management	56/1502/NP  1041 kB	2013-06	ANW 2013-06	1CD 2013-12	PT 3.22	Thomas Vogelfaenger	2010-10
IEC 62740 Ed. 1.0 Root Cause Analysis (RCA)	56/1542/CDV  813 kB  859 kB	2011-06	CCDV 2014-02	ADIS 2014-08	PT 3.23	Jo Hursell	2015-03
IEC 62741 Ed. 1.0 Guide to the demonstration of dependability requirements. The dependability case	56/1543/CDV  612 kB  636 kB	2011-06	CCDV 2014-02	ADIS 2014-08	PT 3.24	Cathy Hunsley	2015-03
IEC 62853 Ed. 1.0 Open Systems Dependability	56/1482/NP  345 kB	2012-12	ANW 2012-12	1CD 2014-05	WG 4	Dr. Yoshiki Kinoshita	2015-12
IEC/IEEE 61014 Ed. 1.0 Programmes for reliability growth	56/1519/CD  2272 kB	2012-09	1CD 2013-06	A2CD 2013-10	MT 1	Ms. Milena Krasich	2015-09



IEC 62853 Open Systems Dependability



- 章立て (制定審議中)

1. Scope
2. Normative references
3. Terms and definitions
4. Open systems dependability
5. Process views and assurance metacases
6. Process views for achieving Open Systems Dependability
 1. Consensus building process view
 2. Accountability achievement process view
 3. Failure response process view
 4. Change accommodation process view
7. Assurance metacases for achieving Open Systems Dependability
 1. Intra-system consistency assurance metacase

2. Inter-system consistency assurance metacase
3. Validity assurance metacase
4. Adequacy assurance metacase
5. Confidence assurance metacase

- A. Relationship to other standards on dependability
- B. Open systems dependability
- C. An example life cycle with open systems dependability
- D. An example template for assurance case

- システムライフサイクルプロセスへの要件を6章で規定
- システムライフサイクルプロセスのアシュランスケースへの要件を7章で規定。

TOG “Dependability through Assurance (O-DA)”



- 2013.8.6制定
審議団体: The Open Group (TOG)
- 章立て
 1. Introduction
 2. Definitions
 3. The Dependability through Assuredness (O-DA) Framework
 4. Dependability through Assuredness (O-DA) Guidelines (Informative)
 5. Formal Methods
- A. Assured architecture development method (AADM) (Informative)
- B. DEOS (Informative)
- OSD実現のための方式を規定
 - O-DA Framework (3章)
DEOS Processは、その一例
 - Assurance Case (3.3.2)
D-Caseは、その一例

ISO/IEC 15026 Systems and software assurance, Part 2 Assurance case

- 2011-02-03制定
審議委員会： ISO/IEC JTC1
Information Technology SC7 Systems and software engineering WG7 Life cycle management
[国内委員会：情報処理学会情報規格調査会SC7/WG7小委員会]
 - アシュランスケース標準の最上位
 - Cf. IEC 62471 Dependability case
 - ライフサイクルプロセス標準を前提
 - ISO/IEC 15288 System life cycle processes
 - ISO/IEC 12207 Software life cycle processes
 - 翻訳JIS化進行中
2013FY日本規格協会事業

- 章立て
 1. Scope
 2. Conformance
 3. Normative references
 4. Terms and definitions
 5. Use of this part.
 6. Structure and contents of an assurance case
 7. Required outcomes of using this part.
- アシュランスケース文書の項目と構造への要件を6章で規定。



OMG “Machine-checkable Assurance Case Language” (MAACL)



- **制定審議中**

審議団体: Object
Management Group (OMG)
System Assurance Task
Force (SysA)

- 整合性自動検査(機械的な検査)が可能
アシュランスケース 記述方式 (言語) の標準



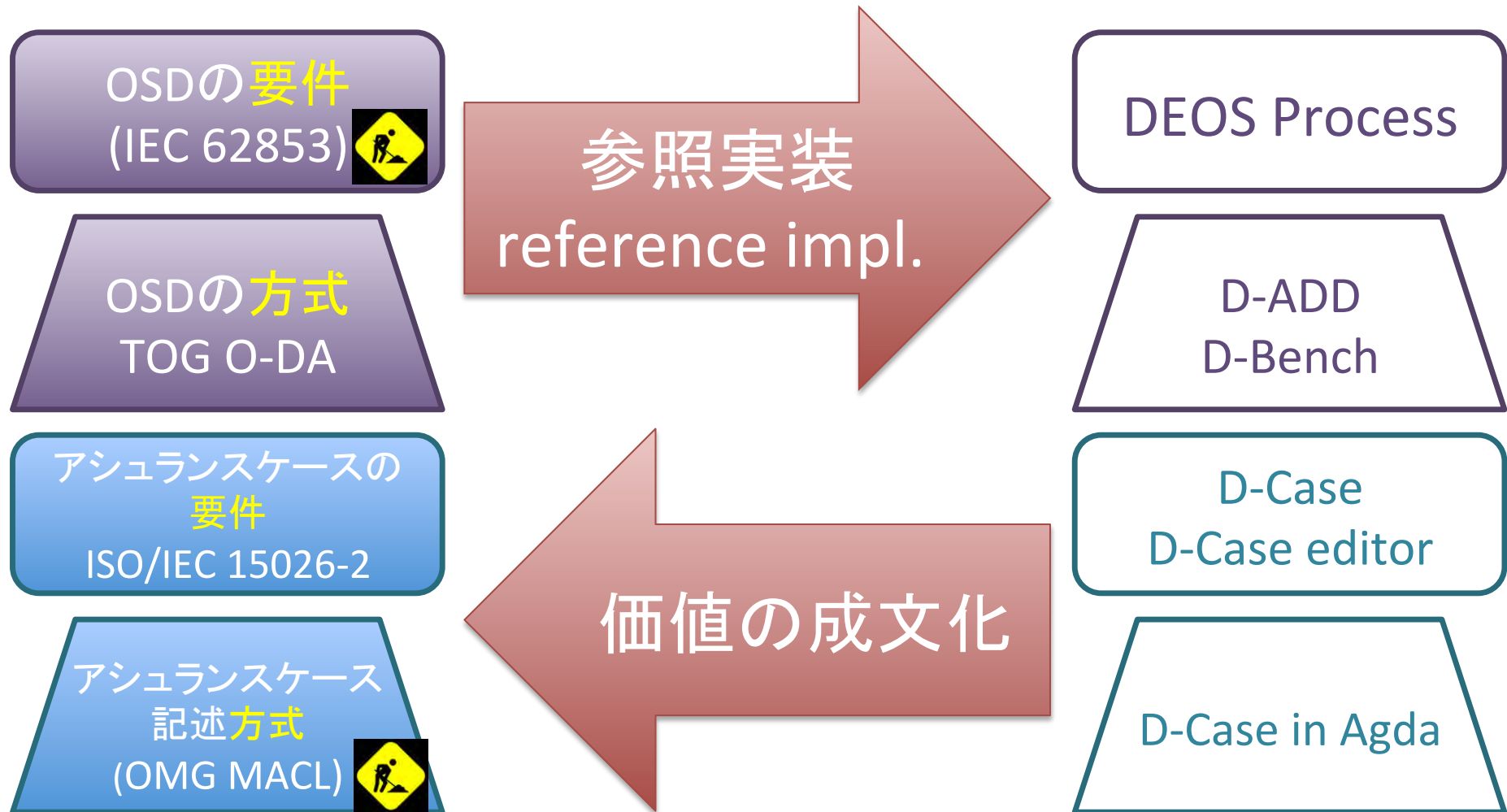
標準化活動の場

- IEC TC56 Dependability
Dependability experts. プロセス、機械。
Little SW
- ISO/IEC JTC1 SC7 System and software engineering
SE experts. Little Dependability.
- The Open Group (TOG)
- Object Management Group (OMG)
System Assurance Task Force (SysA)

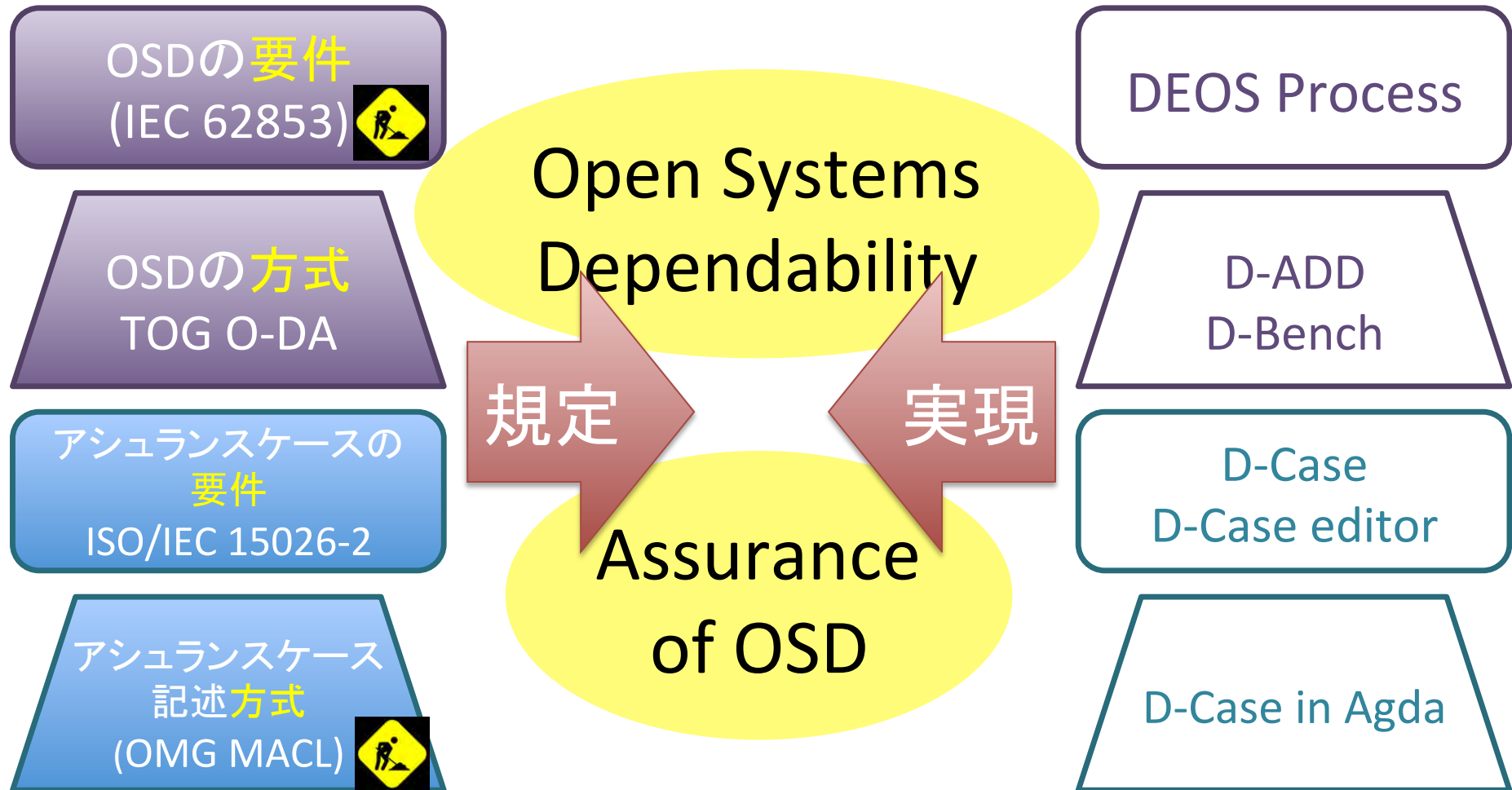
De jure

Forum

DEOS標準 vs DEOS技術



DEOS標準 vs DEOS技術



おわり