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Workshop

IHE-Profiles: Der Weg zur Interoperabilität von Systemen

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IHE (Integrating the Healthcare Enterprise)

Internationale Initiative zur
Verbesserung des elektronischen
Datenaustausches zwischen IT-Systemen im
Gesundheitswesen



Profiles

definieren, wie bestehende Standards (z. B. HL 7, DICOM) zu implementieren sind, damit Systeme unterschiedlicher Hersteller miteinander kommunizieren können.



Foto: Daniel Bleuer



- **Technische Interoperabilität**
- **Semantische Interoperabilität**
- **Prozessinteroperabilität**

Quelle: HL7 EHR Interoperability Work Group. Coming To Terms - Scoping Interoperability for Health Care. 2007; Available from: <http://www.hln.com/assets/pdf/Coming-to-Terms-February-2007.pdf>



Nutzen: Investitionsschutz



IHE Technical Frameworks

- Anatomic Pathology
- Cardiology
- Eye Care
- **IT Infrastructure**
- Laboratory
- Patient Care Coordination
- **Patient Care Device**
- Pharmacy
- Quality, Research and Public Health
- Radiation Oncology
- Radiology



Patient Care Device

PCD Data

- Periodic physiologic data (heart rate, invasive blood pressure, respiration rate, etc.)
- Aperiodic physiologic data (non-invasive blood pressure, patient weight, cardiac output, etc.)
- Alarm and alert information
- Device settings and the ability to manipulate those settings



Profiles

Device Enterprise Communication (DEC) profile

Consistent communication of PCD data to the enterprise:

- Clinical Decision Support applications
- Clinical Data Repositories (CDRs),
- Electronic Medical Record applications (EMRs),
- Electronic Health Records (EHRs).



Profiles

Point-of-Care Infusion Verification (PIV)

Electronic transfer of infusion parameters from a Bedside Computer assisted Medication Administration (BCMA) system to a general-purpose infusion pump.

- Order medication
- Verify order for inclusion in the Electronic Medication Administration Record
- Prepare and dispense medication
- Administer medication



Profiles

Implantable Device – Cardiac - Observation (IDCO)

Supports in-clinic and remote implanted cardiac device follow-ups by standardizing the messages from clinical reviewer to the medical record system.



[RTM] Rosetta Terminology Mapping

Managed value set which establishes a Nomenclature that map the *proprietary semantics communicated by medical devices* today to a *standard representation using ISO/IEEE 11073 semantics and UCUM (Unified Code for Units of Measure) units of measurement.*



Supplements for Trial Implementation

[Alarm Communication Management \(ACM\)](#)

- Revised 2012-08-16

[Infusion Pump Event Communication \(IPEC\)](#)

- Revised 2012-12-20

[Pulse Oximetry Integration \(POI\)](#)

- Published 2012-08-16

[Retrospective Data Query \(RDQ\)](#)

- Published 2012-08-16

[Subscribe to Patient Data \(SPD\)](#)

- Published 2007-07-29

(Reissued for NA2012 on 2011-11-11)

[Waveform Content Module \(WCM\)](#)

- Revised 2012-08-16



Take home messages

- *Vermeiden Sie proprietäre Lösungen*
- *IHE-Profiles und Standards dienen (auch) dem Investitionsschutz*

- *IHE ist auch in der Schweiz präsent*



<http://www.ihe-suisse.ch>

Referenten

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