**Arden Syntax Work Group**

**Call Minutes**

**13 June 2017**

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**Attendance**: **Jeroen Bruin** (jb@medexter.com), **Peter Haug** (Intermountain; peter.haug@imail.org), **Rob Harrison** (robert.harrison@uchealth.org)**, Robert Jenders** (presiding; Charles Drew University/UCLA; jenders@ucla.edu).

1. CDS Big Picture IG
   1. Still minimal progress on this. Discussed possible strategies to complete this work. Agreed strategy: Submit NIB for September, 2017 and write document during the June-August time period. If not completed, then submit a new PSS extending the deadlines for completion (which already have been extended up to 24 months [maximum possible without TSC approval] from original PSS). Vote: Affirmative 4, negative 0, abstention 0.
   2. Discussed outline, adding material by consensus (in red, below):

Chapter 1: Introduction [Jenders, including history]

Rationale for IG

Target audience

Chapter 2: Summary of CDS and Other Relevant Standards [Bruin]

CDS Examples: Arden, CQL, GEM, KAS, Infobutton, DSS, HQMF

Other Relevant Examples [with Peter Haug]: C-CDA, QRDA, FHIR, {terminology}, PMML,

BPMN, DMN = Decision Modeling Notation, CMMN == Case Management

Modeling Notation

Chapter 3: Life Cycle of CDS (Artifacts) [Jenders, including how CDS differs from a typical software cycle]

Governance

Knowledge acquisition/authoring

Knowledge maintenance

Chapter 4: Use Cases: Engineering vs Clinical [Bruin, from Medexter]

Engineering: Type of formalism (procedural, order set, service-oriented [DSS, Infobutton,

etc]), type of interaction/notification, recipient role (consumer/patient, different

types of providers), type of CDS subject (individual vs population), IHA technical framework

Clinical: Prescribing, vaccination, diagnosis, etc

Chapter 5: Implementation Environment [Haug]

Examples: Event monitor, EHRs query mechanism, knowledge repository

Security, provenance, privacy

Chapter 6: The Future: A Roadmap for Standards in CDS [Harrison]

Chapter 7: References

1. Arden IG R3: Previously agreed this extension of the balloted Arden IG R2 to include additional material. Reviewed the outline and agreed additional material and volunteer for new sections.
   1. Consensus: New section 5.5. Because a key motivation of providing a standard data model is to facilitate interoperable data access, the WG agreed to create a section 5.5 in the IG to discuss this, including interaction with remote DBMS via the READ, WRITE, READ AS and WRITE AS statements and to provide examples [Jenders].
   2. Consensus: Add new material to chapter 7 and examples in chapter 8 regarding business processes. The WG discussed various aspects of inclusion of formal support for business process modeling in the Arden Syntax, including explicit inclusion of BPMN. This will help support already extant implementations, such as that of Medexter that makes calls to Arden Syntax from within business processes. This material would include identification of agents that Arden could interact with. Medexter’s tutorial on Arden could be a source of material for these chapters. [Haug, agreed separate CH10 as medical workflow integration]
   3. Consensus: Add a new section to chapter 6. This would address data preprocessing and possibly standard data objects with standard access. [Bruin]
   4. Approved drafting a new PSS with ballot date 2019-01 and project end date: 2019-04-01. Vote: Affirmative = 4, negative = 0, abstention = 0.
2. Arden Syntax IG R2: Need to submit publication request.
3. Arden v3: Agreed on last call to submit a new PSS to extend into future, WG discussed the timeline for this project. The current timeline (already extended by the maximum possible without needing TSC approval) calls for balloting in 9/2017.
   1. Agreed submitting a new PSS to extend the project timeline, also explaining its dependency (for a standard data model) on FHIR. Target ballot date will be 2019-09 and project completion date will be 2019-12-01. Vote: Affirmative = 4, negative = 0, abstention = 0.
4. Next call: 11 July 2017.