**CDS Big Picture Implementation Guide**

**Outline**

**Approved by Arden Syntax WG 2019-01-14**

* Chapter 1: Introduction [Jenders, including history]
  + Rationale for IG
  + Target audience
* Chapter 2: Summary of CDS and Other Relevant Standards [author needed]
  + 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 [author needed]
  + 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 [author needed]
  + Harmonization of knowledge representation and access
* Chapter 7: References