**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