May 2014 Documentation Cluster Telecon – May 15, 2014

Attendees: Ajay Krishnan, Ed Armstrong, Ge Peng, Kelly Monteleone, Ted Habermann, Erin Robinson, Anna Milan, J. Wei, Robert Casey, Suhung Shen, Feng Ding

Summer Meeting Sessions:

Google Doc: <https://docs.google.com/spreadsheet/ccc?key=0ArDAFB2BsbfRdEI1NGtUa2tpNFdlODlWUDJGNHZYeHc&usp=drive_web#gid=1>

5 sessions have been identified as Documentation (in yellow). (Data stewardship are in pink)

1. Steve Richard – Information exchanges and interoperability architecture (Wed 4 – 5:30)
2. Katie Baynes – Streamlining Metadta using the CMR (ECHO and ESIP) (Thurs 9-1030)
3. Barry Weiss – Design and Implementation of ISO Metadta in Science Data Products
4. Ge Peng – Identifying and Assessing Best Practices in Data Quality
5. Anna Milan - <MD\_HackAThon>

4) 2 talk on quality a 1Hr discussion (Peng) – possibly include talks by Ted, Ed, and Alek)

3) Berry and Jeff Lee – OCDD

Ted is not sure about what will be included in 1 and 2

MD\_HackAThon - Anna

* See is as 2 things – a way to address problems with MD and how to apply ISO to special data sets
* Do we want to recommend a tool set? If so oXygen (has 1 month free trail)
* Peng – it is metadata or other – Archieve, Data Quality, seach/distribution
* Ed – maybe take model from satellite mission and see hhow best ot encapsulate in ISO a single GRIST granule
* Anna – have people volunteer problems before the meeting
* Use 19157 and 19115-2 (not 19115 or 19115-1)
* Peng – Data quality could use more guidance
* Anna – should we split into 2 groups – how to use tool and problems or just pick 1
* Ted have about 10 things (lineage, acquisition, resources, etc) have have people vote on what they want to see (on a wiki page)
	+ Kelly – might want to use survey monkey or survey gismo
* Anna – people’s data are special and want to help them – also ask about learning tools in the survey
* Anna – will other sessions cover data.gov – yup – Tuesday US Geo
* Ed – what is the difference between Data Stewardships’ and Peng’s data quality sessions
	+ Peng’s focuses more on best practices in DQ – intro maturity matrix
	+ Data Stewardships’ has 2 invited talks and a discussion

ISO 19157 – A framework for Progress on Data Quality

* Data quality moved from ISO 19115 (black) to 19157 (red) (colors are for Ted’s presentation)
* It is currently an approved concept model – will be edited in June and then become an international technical specification
* Elements are abstract means can be implemented in different ways
* Data Quality has elements
	+ Three parts – measure, evaluation method, results
	+ Has a standalone quality report
* Scope – defined range or elements for a quality set or result
	+ Can have quality for subsets
		1. Done with scopecode – text term (has list of valid elements)
		2. Extent – geographic, temporal, spatiotemporal, or vertical
		3. Scope description – what attribute/feature quality applies to
* Standalone quality reports are new – link a citation to a report (possibly a journal article)
* Modular quality information
* Measure to database – each group builds database
* There are many types of reports – did not change from 19115
	+ Data quality usability (191152) – usability implied elements of data quality
* Data Quality Evaluation Methods
	+ Direct internal = use data in data to evaluate
	+ Direct external – between dataset
	+ 3 types of results (include time and scape for each result)
		1. Quantitative
		2. Conformance
		3. Converge
		4. Descriptive (NEW)
* Metaquality – quality of quality information
	+ Way each was applied – homogeneity, confidence, representatively
* Peng – what happens to issues of data quality identified after the data is released
	+ Reports include dat and time – can querry reports for specific times/data and elements
	+ Ex. SEDAC (socioeconomic data and application center) – has a feedback system for their data
* Peng – challenge is who will implement
* Anna – what about content, quality, and lineage –these are often overlooked