IM VTC 2009-08-31

- unit working group
 - a. threads
 - i. forum
 - ii. mailing list
- 2. unit web service and prototype
 - a. info on IM forum
 - i. http://intranet.lternet.edu/im/forum/7
 - b. advantages of centralized units
 - c. scope allows specification for groups of sites
 - d. facilitate cross site data integration
 - e. decisions last year
 - i. site can enter any unit you want to -regardless of best practices
 - 1. subject to periodic review
 - 2. given special scope if they fit best practices
 - f. questions & discussion
 - i. release with LOTS of content or minimal content
 - 1. Maximum
 - a. slows down release
 - b. more functional
 - 2. minimum
 - a. fast, but not as functional
 - 3. how soon would we be able to accept units?
 - a. at ASM will have sample query interface, but not yet add
 - b. will have web service interface
 - 4. suggestion set deadline and go with what is in at that point...
 - 5. can look at harvesting uints from Metacat Todd started to do that
 - a. old list is available for startup
 - b. have script to parse XML, but could also get from database
 - 6. could vet units via best practices at ASM then go into pre-release phase vetting independent of interface
 - 7. use lessons learned to create formalized vetting process...
 - 8. many existing EML units need vetting themselves
 - 9. coupling to EML
 - 10. want to get away from standard/custom unit
 - 11. instead all custom but with some vetted
 - 12. like decoupling, but there are implications
 - 13. work with Morpho?
 - a. Probably OK with Kepler... but it doesn't now do much with units
 - b. lots of hard to encode characters (e.g., super, sub) in previous versions e.g., abbreviations what end-users want
 - c. database uses UTF8

- d. XML encoded UTF8
- e. could go to UTF16 if we need more characters
- f. would be good to have limited characters to what can be done cross platform
- g. for HTML not to big a problem but with ANSI-based systems, the could be a problem
- h. prototype system lets you query units (demo at ASM)
- i. another layer does document-level aggregation STML unit list suitable for document
 - i. works with anything that does STML
- j. unit registry service -> unit transform service
 - i. could handle some conversions there
- 14. like to have some test cases with other sites implementing service?
 any ideas on how to use it locally as test cases?
- 15. at AND we test units against EML units in the database- we could use web service for QA
 - a. in STML in database? no our own relational structure
 - b. web service provides STML
 - c. unit verification would be a good test case
 - d. at SGS, similar situation now use lookup table but as functions move more to front end, this would be really nice
- 16. custom unit lists not in STML in custom unit section? would they break EML tools
- 17. STML original schema is invalid
- 18. largely abandoned in favor of CML
- 19. emlDev group may help with testing
- 20. STML is used as a model for some, but internally we use custom XML schema (a valid one!)
 - a. we can then use conversion services for any unit representation
 - b. trying to stay format agnosite up to the first service level
- 21. good to pick up on Todds work....
- 22. custom units and standard units is artificial just units either compliant or not
 - a. would be good to decouple.... the EML folks would like that!
 - b. focus on what scientists use abbreviations, not camel-case
 - c. generally agree but what is output comes out as unit..... if you convert to custom unit, comes out STML
 - d. but allow subject predicate object notation
 - e. want to deal with automatic conversion of units
 - f. could suggest some conversions
- 23. OBOE ontology does include units
- 24. Margaret will post to forum
- 25. before ASM working on input output for web service
- 3. best practices (emailed to working group last week)

- a. IMC/ASM thoughts
 - i. point of convergence between registry and content
 - ii. will have more technical VTCs, have ASM more best practice, experience base
 - iii. want closure on best practices
 - iv. then do some prototype demos and get volunteers for testing
 - v. want to move on to getting units properly formatted and moved into registry
 - vi. want volunteers for technical and content sides
- b. early 2010 want registry release with content
- c. abbreviations
 - i. many best practices came out of EML...
 - ii. tried to remove some EML specifics, but it still may not have been best way to go
 - iii. focus in mainly on the unit name well defined, unequivocal
 - 1. abbreviations are more variable
 - 2. good unit name is stepping stone
- 4. for ASM check out docs
 - a. http://intranet.lternet.edu/im/node/483