

Framework meeting 4/22/03

Attendees: REO: Dale Guenther and Jim Edmonds
FS: Bill Waddel and Ken Adee
BLM: Dan Wickwire and GeGe Coleman
OR: Bob Harmon
WA: Carl Harris

MOU changes eliminating REO as signatory are approved.

Option B Alternatives

1. Coverage based server or manual process
2. Continue with Clearinghouse as designed

Desired outcomes for this meeting:

1. Design requirements for coverage based option
2. Understanding of the state of the existing clearinghouse
3. Framework partner decision on how we will proceed from here

Coverage based alternative B1:

1. Requirements
 - a. Transactional.
 - b. Make use of as much existing code as possible (only that which works)
 - c. Stay in the coverage model.
 - d. The first priority should be the maintenance of the data, delivery of data to non-maintainers would be secondary
 - e. Focused and simple.
 - f. At least next day service for posting of updates.
 - g. Packaging of coverages for editing within 10 min. and availability on a server within 30 min.
 - h. Development cycle of 2 months.
 - i. This work on all partners systems.
2. Possible design: see GeGe's document (attached). She did not make any changes to this document as a result of our discussions.

Clearinghouse as designed alternative B2: Number in parens are numbers from GeGe's list of issues from the last tests. I missed some things here towards the end.

1. May 30 projected date for HUC attribute fix to VB code by REO with ESRI support.
2. Posting conflicts with transactions. They have removed the QA/QC on post that checks for LLID's within the check out area- that would reduce the posting time. Speeds of various components of a transaction need to be documented and verified.
3. REO is installing new server. New version ArcIMS need to be installed. This will not happen until after the final tests.
4. We may need to schedule initial population of subbasin hydro, since these transactions take a long time
5. AML versioning procedures has not been established but the REO is committed to establishing a single location for AML's
6. Decimal places have all been adjusted to 5 places but the fix has not been tested.
7. Mainstem inclusion in back cover has not yet been accomplished, but ESRI has committed to fixing it by 4/23 and Jim will install and test by 4/25.
8. Fuzzy verified error (6) has been fixed.
9. Checkout_poly.aml error has been fixed (7)
10. Checkout error reports have been fixed (8)
11. Non-standard items have been removed from the AAT (11)
12. FS requires that the checkout poly's be delivered as a separate IMS layer.
13. Buffered checkout poly needs to be used to develop the back covers for checkout, but provide the unbuffered checkout poly to the user. The procedure for doing this has not been established. Jim will talk with ESRI.
14. Multiple transactions are created on polygons with data when he submits. Not resolved.
15. Carls' FTP issue has been fixed.
16. FS would actively download transaction coverages (FTP). Import QA stuff would be done separately.
17. Batch process needs to be set up for posting transactions.

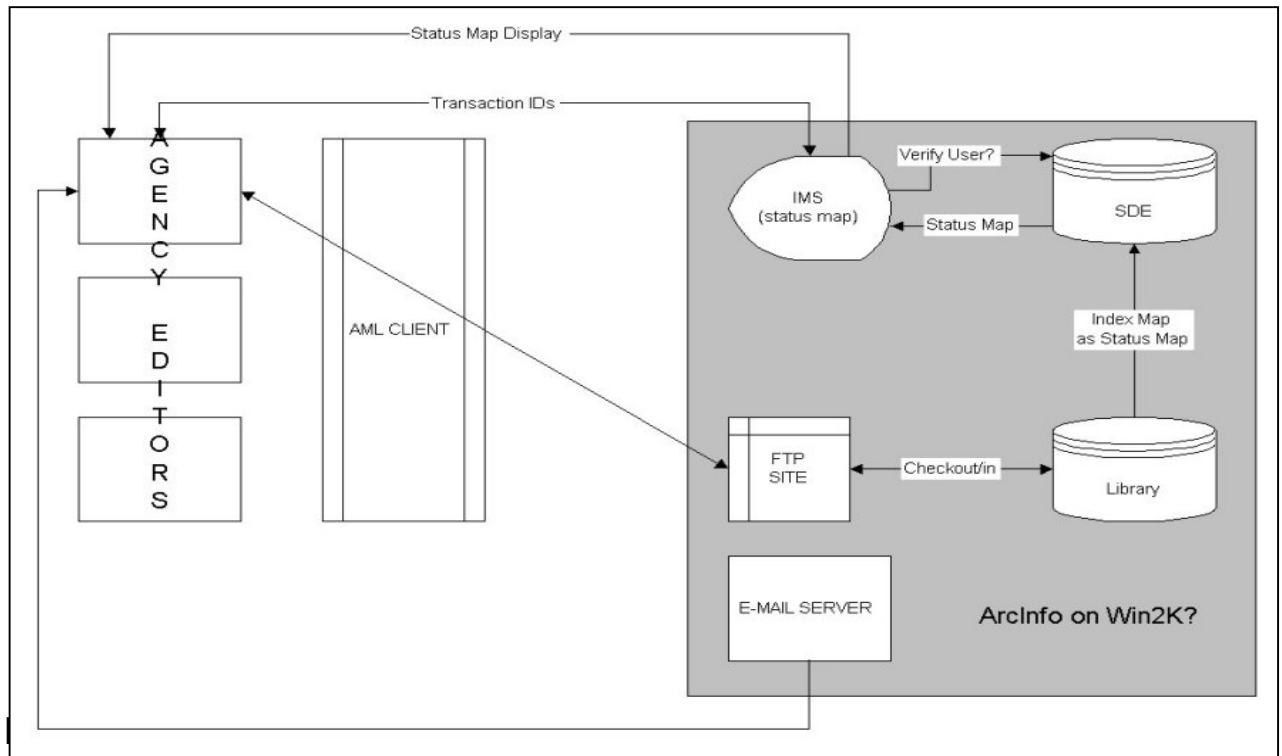
Next Steps- where to go from here:

1. Issues:
 - a. Do we have confidence that this is the final list of issues?
 - b. The QC functions have not been thoroughly tested.
2. Agreements and testing schedule:
 - a. We will have another acceptance test period *with an operational environment*. Postings at night only.
 - b. The FS volunteer could do testing prior to final acceptance test.
 - c. *Acceptance test. All code certified. Batch posting and procedures*

are in place.

- d. Preliminary confidence test starting April 30. This will be to determine if Dan can hold is training on April 15-16.
- e. Acceptance test starting May 5 through May 23. Meet on May 23 and, if it passes we would go operational on May 26.
- f. *If it does not pass then we move directly into the coverage based alternative B.*

Overview: ArcInfo Library Solution for Hydrography Clearinghouse
Draft: April 18, 2003



1. AML Client: minimize changes to client functionality
 - a. Concern: some partners having FTP issues (firewall?) – might require agency-specific coding or solution???
2. IMS: retain web pages for transaction ID interface & status map (read-only)
 - a. disable web page checkout (getting workstation ArcInfo to interface with SDE may be difficult, depends on SDE being up, uncertain architecture)
3. SDE: ??? does this remain?
 - a. IMS can read from SDE but perhaps could read a shapefile (IMS does not read coverages).
 - b. how would we verify users (we are assuming user list is a SDE table).
4. FTP Site: remains the place to transfer data to and from the client.
5. E-Mail Server: windows email – out of BLM experience range (Edmonds?)
6. ArcInfo Librarian:
 - a. unknown tiling scheme
 - b. transactional but probably very short (transaction only for checkin)
 - c. tile based event tables
 - d. Concern: practical limits to coverage size (e.g. line density and checkout area)
7. Custom Tracking Environment
 - a. stores active transactions using submitted polygons
8. Processes
 - a. Checkout

- client uses IMS site to get a transaction id
 - client uploads checkout poly to FTP site
 - cron/scheduler something listens for data every so often???
 - if data, launch Arc AML to process checkout polys in order of receipt
 - verify user???
 - imports polygon
 - overlays with active status map polys
 - o if overlap → reject, email, AML ends
 - add polygon to status map
 - identify tiles included in edit area
 - run append2.aml to create coverages and then clip
 - identify and remove uneditable features from edit cover to back cover
 - o to what extent do we extend back features?
 - event tables compilation
 - package data
 - put data on FTP site and email user
 - create status layer snapshot for IMS
- b. Checkin
- client uploads data to FTP site
 - cron/scheduler listens for data every so often during non-peak hours???
 - if data, launch Arc AML
 - o verify user ???
 - o email submission received notice to “interested parties”? (or do this after passing qc?)
 - o unpack data
 - o all the qc checks (attribs, features within polygon, etc.)
 - fail → reject, email, AML ends
 - o archive old
 - o recreate background features & append to submitted data
 - o librarian: use poly to select tiles, start transaction, & insert data
 - o event table updates
 - o close transaction
 - o create archive of status (poly or whole?)
 - o remove poly from active status layer
 - o create status snapshot for IMS
 - o email user and notify group that data is posted

General Issues/Risks/Problems

1. Security of clearinghouse transaction Ids is lacking in the current system. It would be possible to improve the checking between Ids owner and the person submitting data to the FTP site.
 - this would mean not using the transaction ID interface on the website. We lack experience with IMS so using the existing system might be easier.

Time Estimate to Implement

3 FTE x 6 weeks to include finalizing requirements, development, testing, refining and final testing.