**ORMAP ArcPro Design Meeting Notes**

During 2020 the ESRI ORMAP Tools Committee created a subcommittee to create a first version design to support Parcel Fabric in an ArcPro Environment. The committee had members from DOR, ESRI and Polk, Clackamas, Washington, Multnomah, & Deschutes Counties. What follows are meeting notes taken by Dean Anderson during the meetings.

**ORMAP Design Meeting**

**July 22**

**First Meeting**

**1. Short status of where you are at** (5 minute limit each)

* Binh – Done Polygon conversion to Fabric and working on Annotation
* Jon – Been working on this for awhile. Has sample data and structure to share.
* Dean – Just getting back into this
* Eric – One last person to take the class.
* Thom – Getting back into this

**2. Comments on Goals etc.**

* Operate with full functionality of ArcPro and ProFabric
* Support standard editing and map production functions
* Meet ORMAP data and Map Production requirements
* Provide a clear transition from ArcMap to ArcPro
* Operate in a scalable environment so it works in both small and big counties
* Improve business process in the Assessor’s Office (NEW)

**3. Feature Preliminary Review**

* Keep fabric as simple as possible at this time (just taxlots)
* Keep existing attributes and domains when possible at this time.
* Many existing ArcMap computers will need faster graphic cards to work well (see ESRI)

**4. Enterprise**

John presented a quick overview of a possible platform and future strictire for the enterprise environment. John/Eric will be starting up enterprise team. John will review idea in detail with participants before next meeting.

**4. Stuff to Test For Next TIme**

Jon and Binh to share samples to Polk FTP Site

Look at other feature classes

**5. Our Schedule - how often to meet etc...**

About once a month for next few months

**ORMAP Fabric Design Meeting**

**August 12**

1. **Two new folks have joined the group**

Michael Mamic - Deschutes

Nicholas Kovac - Multnomah

**2. What folks have been doing**

Jon - Working on Map Production, Plat boundaries and relationship classes

Dean - Researched Admin Boundaries in 2.6

Nathan/Nich - Working on Map Productions and Demos for the User Conference. Looking at how to get features into pro and reorganizing data

Mike - just getting started - converted test data over

Binh - Cartography starting to do some testing, going to use SDE to rll out.  Converting ArcMap to ArcPy and finding a few weird bugs

Eric - Playing with SDE

John S - John is working on setting up the testing sandbox

York - Going to fabric class at end of the month - working on enterprise issues with ESRI

**3. Design Stuff**

3a. TaxlotLines

Go with default Fabric Structure

Use ESRI's default feature metadata

Drop AutoMethod

3b. Taxlot Polygons

MapNumber

Taxlot   
MapTaxlot

ORTaxlot

ORMapNumber

MapRelCode   
SepcInt

]Name - Name is an ESRI fabric field.  John is using Name for MapTaxlot. This has to be looked at more

3c. Taxcode - Would like to get into fabric eventually.  Most just use a polygon or a line feature.  Not both as in original design.  Dean generates polygons from Points and Lines.  Binh just uses it as a cartographic line.  Multnomah just uses polygons.  Polygon only has one attribute (Taxcode)

3d. MapIndex

Going to use Jon's Schema bit add County, Mapname (file name), and default esri metadata

**4. Enterprise Team** - Last person is taking class next week.  Eric, John and York will be working on this.

**5. Other Issues** - Goal: While making the "Map" it is important to have useful data to support our business process.  Now is a good time to look at several features.

Condos - Jon has been playing with this with good results.  JD is going to do a demo, of work he has done, at the next meeting

Annotation - Not a lot has been done on this.

Special Interest Accounts - Should look at mapping these where appropriate

**Action Items**

1. Eric and John will be setting up enterprise group

2. Dean get draft design out

3. JD - demo condos next time

4. All - review draft design and identify any problems

5. All - need to work on "Plan" attributes

**Next Meeting - Sept 2 10-12**

**ORMAP FABRIC Design Team Meeting Notes  
Sept 2 10-12**  
  
Class Update:  I took the ESRI Pro Fabric Training class a couple of weeks ago.  Was a very good class for GIS staff who are going to be supporting pro fabric users.  I would not recommend this class for our cartographers as it covers several topics that the GIS technical folks will be doing and does not go into enough detail regarding all of the tools cartographers will be using.  I also like our trainer Jim Gough and really like how ESRI has the class setup.  I felt it was better than an in-person class.  
  
**Agenda**  
  
**1. Updates - What have you been doing.**  
Dean - Took the ESRI Fabric class, working on the design document.  Spent a lot of time converting annotation.

Jon - working on vertical parcels (CONDOS)  
Binh - Testing Pro tools with cartogarphers.  Based on feedback will hold on moving to Pro for a bit which will allow Binh to more focus on conversion and parcel fabric issues.    Have a number of questions about annotation conversion and cleanup. Traverse was slow in tests but it may be because faster graphics cards and computers are needed.   
Nathan/Nick - Just finished convert/upgrading 1:100 annotation to pro for the county.  Went pretty well.

Mike - Uploaded the county to a geodatabase and it seemed to work.  Not spent a lot of time on it to date due to other commitments.   
  
**2. JD - Condos Demo** - Vertical Parcels - presentation on condo with multiple floors for a building in san francisco.  Features could be put into the fabric.  By working with Floor number and elevation you can view it in 3D or not.  JD will send us the slide show presentation and give us access to the sample dataset he built. Set floor, lower and upper elevation. Showed construction and use.

Jon and Nathan - work together for a data model around condos.  Concerns as data is not available at this time so the condos would have to be a REMAP.  Level of detail information is currently not available for all condos. View sheds would be great but need a lot more information.  How does this support the ORMAP mapping standards (eg Counter Maps).  Potentially could also add in other feature types (Special Interests, Cell Towers, and Others).    
  
**3. John S - Fabric Enterprise Team Update** (Eric is out this week) -- Met at 19th - John brought the entire group up to speed and discussed the concept. John also discussed the sandbox concept with the professional services team at ESRI. John got ideas about the sandbox environment to allow folks to experiment with new technology and how to share data back and forth. Also how to support the 14 counties who do not have systems in place. John will be meeting with Tom and Phil next week to see how this fits with DOR (they are supporting about 9 counties).  One requirement will be the need to support slightly different schema and data models.  
  
**3. Plan Attributes** - email sent out earlier - Overall it looks ok as folks do not have a lot of experience with the plan/record concept. TransactionID - Is not assigned by these folks in all counties.  - Maybe the update could happen by someone else from a published service.  From JD - Even though the update can be published you need to resolve how that happens with versioned data.

Note: We will ALL have slightly different domains and we all have slightly different business practices.   
  
**4. Draft Design Review**(template posted on FTP Site last week - converting annotation - what has been done by others).  Line/Polygon feature.  We all have slightly different schemas but this is a good starting point. .    
  
**5. Staging Data** - Should our Design Include this.  What this could involve is setting up the taxlot feature dataset with a Non-Fabric Taxlot and TaxlotLine feature class to ease the transition to fabric. Basically users could import to this structure, review and cleanup any problems and then continue to import to the fabric. May have an issue with densified curves  Nathan / Jon / Mike - stage in a file geodatabase and then move them.

**Additional Notes & Comments  from JD**

There were a couple of mentions today of challenges with anno placement and sizing. There was also mention of some that were possibly wanting/needing to upgrade hardware or get new machines. For the sites getting new machines AND migrating ArcMap anno to Pro, I’d recommend they install both ArcGIS Pro and ArcMap on those machines.

Installing ArcMap on those new machines might clear up anno placement and sizing issues as is it will lay down all the TrueType Fonts the anno relies on.

Installing TrueType fonts on the Server(s) may only be required for any custom or unique ones you might have added. When a Parcel Fabric is published, there is a MapServer, FeatureServer, and ParcelServer REST endpoints created. Since the MapServer does the rendering on the Server (and returns an image to the client) this is probably the only one that matters if you do include Anno with the map when you publish the Parcel Fabric.

The Dashboard I created with the Wisconsin data showing all the historic transactions, I created using the MapServer. Read-only apps don’t need to stream the features to the client, you could but it’s not as efficient and there is no need to update anything. It is important to note when using the MapServer, you will need to pay attention to the symbology of your parcel fabric BEFORE publishing it. Typically, the Parcel Editing team just says drag your parcel fabric on the map and publish. Then symbolize the published service layers for editing AFTER. I like to recommend symbolizing before and after.

When you do get around to experimenting with publishing the parcel fabric, I’d recommend starting with a Minimum number of instances of 8 and a Maximum number of instances to 12. The defaults are 0 min and 2 max. I know, a min of 8 and max of 12 sounds like a lot, but Pro is multi threaded and can leverage multiple instances of a service to maximize drawing performance.

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**Next Meeting September 30th - 10-12 Wed**  
  
Action Items  
  
1. Dean to clean up the template and post the next "final draft" version

2. JD to make slides available.

3. Jon/Nathan start looking at a design process for condos.

4. Folks will load sample data into the template for their county.

5. Dean will post tool list as reviewed by Jon and Dean with ESRI (a couple of years ago)

6. All - document any best practices, gotchas for conversion.

**Parcel Fabric Design Team Notes  
September 30th  
  
AGENDA & NOTES**  
  
**1. Status reports**

* Dean - Finished  the template design and sent it out.  Also tested conversion and design with one township. Sent it out for all to look at (including python scripts). Finally, tried to use the ORCATS (A&T) legal description to load record/plan information. Did not work.  The data is there as reference but is too inconsistent for populating record lineage. Also sent out tools stuff (history).
* Jon- Been distracted by fires in Clackamas.  Did meet with Nathan and Nick so that process has started.  Have an idea.  Jon will get back to working on prototype now that the fires are over. Hopefully show at the technical meeting.  Jon has migrated data into the current template.  Jon tested topology rules.  Also looking at build records from a variety of A&T sources.
* Bin - Figured out annotation process. Developing a process to clean up older Arc/Info annotation into the Pro classes. Also have a few county-specific fields that they will need to add to the template.  Template seems to be working. Upgraded enterprise to 10.8. Testing versioning soon.
* Nathan/Nick - Working on getting into Pro.  Cleaned up Anno into Pro.  Adding universal keys and modifying data to work best in Pro. Setting up editing up with versions. Putting attribute rules into place. Will soon try to put data into the template.  Made a 3d condo prototype.
* Mike - Had a conflict.
* Tom - Took class.  Course was decent - However, it appeared to be a work in progress.  Doing a lot of other things.
* ESRI (John & JD) - John dealing with Vacation and providing Fire Support.  JD emailed comments about the design earlier.  Please check them out.

**2. Design review & Conversion**

Dean will put the latest template update out early next week.  If you have ANY issues please email Dean asap.  We will make decisions via email before having a version 1.  The latest update will have 3 new fields as discussed previously for record feather.  Please check JD's comments (previous emails) on curve conversion and new ways to modify annotation for different symbology.

**3. Enterprise Team Update - John and Eric**

* Dan Stone gave a great overview of user type extensions at 9AM today.  This was recorded and is available from the Parcel Fabric team called "Parcel Fabric Ideas and Licensing clarifications. One takeaway... . When starting your development of user types take advantage of the ArcPro professional licenses. But if a pro user was used to access ArcGIS ON-LIne was used you will have an issue.
* The Enterprise team will  be picking things back up now that they have a schema.
* The team needs a stable version soon - need fields and coded domains locked down. Easier to create domains then change them after the fact.  So if domains are going to be changing then just leave them out.

**4. Tools discussion**

Dean sent out documents we shared with ESRI about two years ago.  We should visit these with the cartographers. Many cartographers have only known ArcMap so do not know that additional capabilities exist. John S will get an updated Fabric/Pro road map to us.  This will help use review and identify tools  that are still needed or not (based on old reviews). This will need to be shared with the cartographers as a reality check before we post for ideas on the ESRI ideas page.   
  
**5. Next Steps / Action Items**

Remember the design template and sample data are available on the Polk Co FTP site. ([ftp.co.polk.or.us](http://ftp.co.polk.or.us/) / u-general / p-general).  Currently the working design IS the geodatabase available on the FTP side.

* Review and finalize the design in the next week or so. If there are any significant changes we will vote on changes via email.  Once the review is done Dean will post it to the FTP site and notify the enterprise team. Deadline for making any design change requests will be Friday October 9th!
* Jon and Nick will work on a Prototype Condo
* John S will get us a  roadmap from ESRI
* Based on the road map we will start looking at tool additions if needed

Nest Meeting - Thursday October 15 10-12

ORMAP Tech Committee - October 21 (we will have about 1/2 hour to present)

Thanks for participating.

**ORMAP Design Meeting Notes**

**October 15**

**1. Participant activities**

* Dean - Updated design / cartographers starting to play with Pro / Been working on "record" tools using a Plat Index - May just use that instead of record
* Jon - Still finishing fire - ORMAP less so - Jon Reviewed Schema - Using Nicks schema for condos - Is a little more challenging than initially thought
* Binh - Loaded Washington Co data into the template. Looking at point feature class. We have lots of point types - wondering if they are all needed- Waiting for 10.8 enterprise to get loaded up.
* Nathon/Nick - Made the condo model - some questions on the model - they are working on it - Also working withi county admin's getting rules setup for testing so folks can play.
* Mike - Not doing too much.  Lots of conflicts. Looking at templates and checking out loading.  Seems to be loading ok.  Working on Python scripts. Looking at getting the parcel fabric testing environment going. Question on Tasks and how to proceed - Jon has been playing with tasks, definition queries and rule assignment. Can we get a task guy to talk to us, may John C from ESRI?. Could he talk to us. Maybe a little tutorial?  DesChutes uses fonts for arrows - may do arrows better than John P's tool
* Thom - Not Present
* ESRI - John S - Working on matching up our original needs list with Tim H.  ESRI is finalizing what is in the next two releases over the next few weeks.  John will share with us when reviewed. Working with state on stuff. Sharing parcel from state level. Based on our discussion this maybe an opportunity to take advantage of state needs and maybe find additional funding for infrastructure.  EOC folks need current data and can not get it from DOR.

**2. Final Design (1.02)**

a. Added two fields to Taxlot (source/sourcetype) - Some fields will be depricated.   
b. Make source field 255 - Eric would like to make them 255 characters.   Based on our discussion the team elected to go with Eric' recommendation.

**3. Condo Prototype Discussion**

Nick demonstrated a cool condo structure. Nick and Jon will continue to work on this.

**4. Enterprise Team Update**

Not much since last meeting.  John just got invited to DOR and state folks for a meeting to take place on Monday.  John S. said ESRI is working with Clackamas and Washington on upgrades.  Eric has been working on a re-deployable small environment in Azure, this is an offline project that has some interesting possibilities.  Making machine instances.    
 **5. ESRI RoadMap (Tools/Fabric) - (Discussed earlier)**   
  
**6. Next Steps** - discuss how to move forward.  How do you want to proceed

* Get tools committee the design and examples of conversion
* We need to make sure tools that exist meet expectations
* We need to ensure we can do the same basic tools as ORMAP ArcMap Tools do

**7. Next meeting ORMAP Tech Meeting - Tentative Tools Agenda (30 minutes)**  
  
1. Project Summary (5min)  
2. Proposed Conversion Design and Guiding Objectives - (5min)  
3. New Thoughts on Condos - Clackamas and Multnomah County (15 min)  
4. Tools Re-Introduction - the  plan (5 min)   
 **8. Action Items**   
  
1. Next steps - get John C (esri) overview of tasks and using tasks for QA/QC  
2. Tools Review - John S will send roadmap and our needs list from last several months. This will be a good starting point for tools.   
3. Next meeting - get a demo from Mike on DesChutes Co fonts for arrows.

4. Dean make final changes to design and get to FTP site

**Meeting Notes  
ORMAP ESRI Tools Committee**

**Nov 18**  
  
\*\*\* Thanks Dan for the great roadmap review of ProFabric 2.7 and beyond!  There will be a meetup on this in a couple of weeks. [What's New - Parcel Fabric @ArcGIS Pro 2.7!!!](https://www.meetup.com/Esri-Parcel-Fabric-Meet-Up/events/273744780/)

1. Introductions and ArcPro Activities to date  
  
Dean - Working on tools review, design  update and attribute rules   
  
Jon - Working on Tasks & Rules worked on.  Looked at attribute rules G to get a land hook.  Worked with Multnomah and have a prelim condo.  
  
Bin - Adding attribute rules.  Getting Washington County loaded. Have some cross fc attribute rules and field concatenation  rules to make ormap number.  Looking after tax time next year to go into production.   
  
Nic - Doing well.  Have a working arcpro environment that they can transition to.  Working on speed and hardware requirements. Not pushing to a service at this time.  Looking at giving cartographers prelim access the first of the year.   
  
Mike - Putting everything into pro. Migrated majority of data.  Next is the annotation classes for arrows. Doing things in a file geodatabase.  Playing with all the different tools.  Have something early next year.  Getting them to ArcPro so they can start playing.

Thom - Working with ESRI about an ORMAP portal and moving an enterprise along.  Impacts the 10 support counties and  how to improve access to the state-wide appended data.  Have approval for cartographers to start tracking workflows.  
  
Brian -  Just getting started as not long been in ArcMap.  Getting a plan put together for transition.   
  
Bryce - Sitting back waiting to get an enterprise situation worked up to do rural counties.  Waiting till we get closer.  
  
ESRI - Parcel Fabric 2.7 review Meetup - Dec 9th . Dan reviewed what's coming in 2.7.  We are going to have issues resolving enterprise and pro to be in sync.  For example, 2.7 will ONLY work with 10.9 (which will NOT be done until March).  Means we will probably stay in 2.6 for the time being.   
   
2. Quick Recap of the Design with Recent Changes (V1.04) - This is available on the Polk FTP site.  [ftp.co.polk.or.us](http://ftp.co.polk.or.us/) - p-general u-general  
-- Added GlobalID to all features  
-- Added (MapScale and MapNumber) attribute rules to the design  
  
3. Basic ORMAP ArcMap Tools Recap  
-- Edit tracking (who/when) is now handled automatically  
-- Find MapNumber/Taxlot can be done with Locate OR Jon has written a python script he will share  
-- Update MapScale/MapNumber can be done with attribute rules. This has been done by Dean,Jon,Bin. Dean has shared rules  
-- Production Map - can be done with map series as done by Jon, Nik and Bin with no programming  
-- Convert to Goal 2 Shape file - not done but should be pretty easy  
  
4. Addition ORMAP ArcMap Tools  
-- Arrows Tool (Dean and Jon are working on some attribute rules to accomplish this)  
-- Convert Dimensions To Anno (Polk - basic script will work)  
-- Others need to look at tools they are using and share with all if appropriate  
  
5. Original Wish List - Tools -- Dean shared list.  All need to check back in with their cartographers to ensure that we have not missed anything.

6. ORMAP Enterprise Team Update -- Looks like holding to 10.8 is OK so tools will go with 2.6.    
  
7. OSACA - Had a lot of discussion on this.  We all agreed to help the ESRI Johns on making a simple presentation that will not scare folks and provide context for how we are going to move to pro. Also talked about providing examples as how counties are moving forward.  We were not sure about the schedule. Thom shared a current one and Dean has requested a new one from Donna (Polk Chief Cartographer)  
  
8.  Next Meeting - Dec 16 10-12  
  
For Next Meeting  
-- Get Dean Copies of production stuff, attribute rules etc  
-- Review the tools you use and bring to meeting suggestions of tools that must be tested  
-- Dean will put new rules, production map series and any existing tools into our "demo" database for sharing and publish it out. (this may change from the FTP site)  
-- Think about best practices and moving forward.  
  
Tentative agenda  
-- Members progress to date (All)    
-- Presentation on tasks (ESRI) - (about an hour)  
-- Tools Recap (all)  
-- MapProduction discussion (Dean will try to get what others of done into the demo database)  
-- Condo Review - Jon/Nick presentation  
-- OSACA presentation discussion

**ORMAP ESRI Tools Committee**

**12/16/20**

**Meeting Notes**

The primary focus of this meeting is to get input from ESRI on tasks and how they can support parcel fabric related activities.  We also need to assist John S/ John R with help preparing for OSACA.

**1. Members progress to date (Keep it short**)

* Dean – Production Mapping Test – zoom tool
* Clackamas/Jon – Took parcel fabric training – was worth it – zoom tool
* Washing/Binh – Import old plats tool / working on task (arcmap)
* Multnomah/Nich – Planning on moving to Pro at beginning of year – Production Work
* Clatsop/Brign – Startng to look at fabric
* DOR / Thom – Very busy – Looking at Tools – Working with tools in Pro graphics
* Jefferson/Bryce – Starting to look at fabric
* Columbia/Robin – Starting to look at fabric
* ESRI/Enterprise Team - John S – Eric and John in early stages. Next thing is to revisit with Revenue folks. Look at co-locate system. Single machine cloned through azure looks good but may have licensing issues. Looks like group should get together. Start off after OSACA.

**2. Short Rules Discussion - Moving to 2.7**

* It appears that the ability to enable/disable a rule is a admin function. Just be aware when setting up rules.
* We need to think about how many rules will need to be in the shared design.
* This came up. It appears that many counties will first go to pro and implement fabric later. Others will do it in one leap. Our design needs to reflect this.

Action Item: Please share your rules as a CSV and will pool them into a single location

**3. Short Tools Recap - What is left ?**

* Map Production - Little programming works with Python. If we could get rid of the 18x20 and just go with the 18x24 we could avoid doing any programming as the 18x20 needs programming done to address the exception townships.
* Zoom To - Locate Works / New Zoom To tool Dean/Jon Developed
* Arrows/Hooks - Has problems as a rule (need ESRI Help). Larry young (esri) could be a contact to help.
* Area Report – Will require some work but could be done with tasks and rules.
* Managing Cancelled Numbers / Cancelled Number Manager (Need to Use it)

Action Item: Please share any additional rules that need to be created for use by all counties.

**4. Tasks Demonstration/Discussion (Jason)**Tasks are brand new in ArcPro. Configurable and powerful with editing work flows. Lots of control and configuration setups. This is GREAT for repeatable work flows. Even if it is once a year (Maybe annexation processing). ESRI will provide us with pre-configured tasks as part of the Parcel Fabric. To use: “open record driven work flows” designer and messages that will let you know what needs to be done (rename of feature classes) The fabric tasks are a great template or starting point to fit into how your organizations does tasks. Jason demonstrated a task that comes with the fabric which is Merge/Combine. Had some good discussion and it appears the tasks combined with small python scripts will be a good fit for our group. Tasks should not change much between 2.6 and 2.8.

Action Item: Please email the group by next week any additional questions you have so we can pass them on to Jason C to get answers. (If we are late we will need to wait until after the holidays to get an answer).

**5. OSACA Meeting (Johns**) John S handed out a draft agenda and asked for comments. The group felt that the need is to focus on tasks that directly impact the cartographers and show how going to Pro will make their lives easier.

Action Item: Please send to John/John any feedback on what your cartographers want to see.

**7. Next Meeting**

The next meeting will be after OSACA on January 20th from 10-12.

* Get a recap from cartographers and OSACA
* Have a final discussion about 2.7/10.9 – Go or not go.
* Review demo township (Dean should have the zoom tool, and map production (without exceptions) added.
* Start discussion on technology transfer for implementation
  + Cartographers
  + GIS Staff that will support them
  + GIS Enterprise staff that will support the infrastructure

**ORMAP TOOLS MEETING NOTES**

**JANUARY 21**

**Agenda**

**What each has been doing**.

Dean/Eric – Map Production Attribute Rules and Conversion – Starting up Enterprise stuff

Mike – Working on attribute rules – starting to get chief cartographer on stuff

Jon – Attribute rules & Tasks – Start on migration plan – cannot video cards. Found bug in taxlot to anno (work with LSA with survey office)

Nick/Nathan – Deep into production cycle and work remotely causes some issues.

Binh – Attribute Rules – Make points from taxlot polygons to label taxlots.

Bryce – Wanting to see how it turns out with different feature classes. Adding to canceled number can mess you. Need to be clear when we do tasks. Need to make sure tools need to work with the model (needs stable) Canceled number management needs to be there.

Robin – Waiting to move to pro and work on a data model. Do not have to move to fabric. Have to wait. Going to stay with pro. Working to try.

Thom – Started cartographer meeting. Completed a tools inventory. Looking at consensus on tools. See Missing Tools Section. What are other doing?

ESRI – No news on a 2.71 patch. Is a sql server patch. Remember 2.7 uses 10.9 on the enterprise.

*Decision – We are holding 2.6 for now (10.8 enterprise)*

**Review Cartographer Meeting**

Got links to all the stuff posted (thanks John) – getting a good package put together

Question – Who is using the John P tools? What are they using? Many Folks

59 attendees and stayed

Looking at a future meeting for Assessors – need DOR attending (from Thom)

Need to include Helion/ORCATS

John S but together a PDF of link resources – John is sending it to OSACA list

Frank’s (Panda) Meetings/workshops free – folks need to check it out

**Make any modifications to the design (additions for condos? Elevations?)**

Need to add anno scales for all of them – Download and upload – (Bryce)

MapIndex Changes - Leave it out – test out Jon’s Tool (Dean to load up)

Condo Additions – John and Nick to get stuff

*Decision – Test Jon’s Task for update of ORMAPNUM – Not add T/R/S/etc.*

*Decision – Add Condo feature class – John/Nick to send to Dean*

**Discuss Tools**

Canceled Number Management Tool – Need an interface. Jon but lower on the list. Bihn has a tool at time a map publishing – Bihn. If you consolidate/Join it creates a canceled number. Have to add this to the task. Need to replace.

Arrow/Hook – Do an Arrow/Hook Tool – Dean get a list

Place annotation on a line and editing it

Consolidate/Join tool – need a task to make this goes.

Add Halo to anno

Thom – has a list. He will send this out.

*Decision: Need a quote to develop the Annow/Arrow Tool*

*Decision: Bihn to share his cancelled number tool   
Decision: Do as little with Addin’s as possible – Give access for configuration to Counties*

**Attribute rules (2.6 Version)**

What rules are missing – Folks need to review the ones from the release

Dean to share constraint rules for annotation

Bihn to share tool on labeling

Dean/Jon look at anno placement rule

**Tasks**

Use Tasks instead of attribute rules. Need to identify what we want tasks for.

Jon to share tasks for adding features.

Dean to add tasks from Jon for folks to test

**Enterprise update**

ESRI been talking to some solution engineers. Making it work with Enterprise may not be practical in a lot of counties.

*Decision: Table till next meeting*

**Discuss how we are going to "roll out" technology**

Needs a white paper on how and how

Folks can tweek rules and designs – No programming

Maybe have a couple of technical sessions

**For next Meeting**

Dean to get Quote on hook/arrow

Jon/Nick send design draft condo design

Jon/Bihn send rules and tasks as discussed

Dean Send out new design update 1.04 (Rules / Tasks)

Review mapproduction and be ready to talk about map production

Look at mapname for map production ??

**Next Meeting Feb 10th – 10-12**

**Shared Comments during Meeting**

From John Sharrard to Everyone: 10:05 AM

Interesting Story Map https://storymaps.arcgis.com/stories/921c3e259d254eddb4be420111b24e0f

From John Sharrard to Everyone: 10:13 AM

Recording of OSACA meeting on the 13th https://esriis-my.sharepoint.com/:u:/g/personal/john1441\_esri\_com/EfRblt0BT41GpQFXqZf0m2gBHKHBQk\_vZMG7cGolwMiQtA?e=Srb7yrIncludes slides as well

From Dan Stone to Everyone: 10:34 AM

https://support.esri.com/en/download/7849ArcGIS Server 10.8.1 Utility Network Patch 2Compatibilityhttps://pro.arcgis.com/en/pro-app/latest/help/data/parcel-editing/deploylicenseparcelfabric.htm#ESRI\_SECTION1\_569800E5FEA5400D83890C5D1246F3E4

**ORMAP Tools Meeting**

**Wed 10-12**

**Review what each has been doing**

Dean/Eric- Got design out. Initial Review of conversion with Bryce/Robin. Working on Annotation Tool. Tools under review (Sandbox review from John) Update to 10.81

Jon- Working on attribute for annotext for taxlots (has bug) using a task to ignore bug. (turn topology rule off when loading data).

Binh- Not a lot of time. Working on attribute rules – taxlot create point – Questions on how historical will play into process/flow.

Michael- starting to look at canceled number tool. Shad/Michael want to look at upgrading the project.

Bryce- Reviewed import process introduction. Installed 2.71 and ran stuff. Getting started on conversion.

Robin – Have LOTS of questions written out. Has questions on portal etc..

Nick- Got the share drive access and looked at it. Touched really quickly on conversion There are issues running attribute rules that are from later version (rule built in 2.7 needs to be redone to work in 2.6). So… need to build rules in 2.6 or they error out.

Thom – Not too much going – tidying up edit documents and aggregating ORMAP data.

ESRI- Getting questions on fabric. How to make it available. Has had quite a bit more questions directed at him. Our answer… Get up to speed on ArcPro and Fabric. We are a few months away from having all the tools built.

**Process**

* Does new site work for folks? – New site is working fine

*To Do: John S to post links to videos on new sites.*

**Data Design Review**

* Condo Draft - Has been added (Any changes needed?) – Add them in as a parcel type – for next sub release.
* Adding Twn/Rng/Sect - Needed or Not (Dean has demo on ORMAPNUM Edit/Update
  + - * (Request – Drive from Mapnum – county specific customization)
* Annotation Scales - Issues for Import - There is a difference in how we are doing annotation.  Those that care about SymbolID and those that do not.  Has an impact on the design.
* Strange/dumb questions - why is long chord distance not included?  Jon is going to check this out. Not sure what is going on with Long Chord – do they keep it. Michael to check it out maybe?

*To Do: Dean Add in Condo as parcel type and Update in Design*

*Jon/Mike to look at LongChord Distance how it is used/stored in ArcPro*

*Annotation*

*Dean update the Mapindex Tool to drive MapNum from ORMAPNUM*

**Tools**

* Dean MapIndex Edit Tool (See Above) – Update mapnum from ormapnum – Add a check box – update all taxlots in that map.
* Arrow/Hook - Spec sent to David he will have a quote in a week or so (Start March if approved)
* Canceled Number Tool - Binh – Has a tool add records.
* Old Canceled Number Tool - Deschutes would like to make this happen. Be a couple months. Folks said go for it.
* AddAnno - Dean/Jon working on a label to anno tool
* Add Single Anno - Cannot be done at this time using rules as it has a bug (jon bug will be fixed). Jon has a work around using tasks.
* Consolidation Join/Tool - ESRI has sample need to look at thi To Do: s more

*To Do: Dean/Jon demo batch annotation update tool*

*Dean to get quote for review of new Hook/Arrow Hook tool by Dave*

*Binh to finish up his tool and make it available.*

**Map Production (tool)**

* How does it look ?  (Did not do much on this)

**Attribute Rules**

* Defaults sent out
* Please send samples to include
* Jon put in the attributes – exported and then imported. Errors – importing from nick – were connected with using some rules with a newer user of arcade. Write attribute rule – check which version of arcade needs to run. Check this out.

*To Do: Get Samples to Dean*

*From Above (edit attribute rules in 2.6)*

**Version Review** (Nick asked for a version review – Mike provide group with link to ESRI Doc.)

* 2.6 – 10.8.1
* 2.7 – 10.9 - not out until May
* 2.8 - 10.9
* 2.9 - ??

**Enterprise Update**

* John S - The sandbox concept is currently dead unless something is set up. ESRI had accounts in Amazon to spin up test environments but that is no longer public facing. So, it will not work. Maybe Cy has some options thru geohub. DOR could host but would be pretty far down the list and lots
* What do we tell folks:
  + Build an image – put it in Azure (pay for it out of tools group) the folks could download.
  + Have a list of people to call

We elected to spend $500-600/mo to setup an azure/aws site for a sandbox. Azure we could setup backups. Sandbox will be in 10.81.

*To Do: John S will get a quote for work. Dean/Eric to create quote for group for hosting a sandbox*

**Continued Technology Rollout Discussion**

* Dean did a short conversion review with Robin and Bryce.

*To Do: Robin is getting written questions to Dean to help clarify process.*

**Additions**

* When using cursors – Code may need to be modified for python code when going to enterprise.
* Had a good conversation regarding on of the ArcMap Tools (update dates) based on a question from Thom. How the update dates work is that way it is and was a design decision.

**Next Meeting – March 17th**

**ORMAP Tools Meeting**

**March 17, 2021**

**Meeting Notes**

**1. Review what each has been doing**

Dean (Polk)- Still finishing design and tool updates.  Will post new versions after the meeting  Developed a prototype for label to anno that works ok.

Mike (Deschutes) – I actually tried to clean up a lot of obsolete folders and data that I created in the past while I was testing and I actually deleted some useful data.  So, I have actually been rebuilding my parcel fabric and it actually might have been a good thing because I was able to fully integrate myself instead of constantly going back and forth with these maps and tools.  I booked out some time to do this and piecing it together better. The cancelled tool is still a go on our end.  No update to give, but the early estimate of a few months out seems to be that.

Eric/Kris(Polk) – Not a lot

John S (ESRI) – Trying to get the sandbox options in place.

Thom (DOR) – Just finishing statewide integration. Staff are going to take the Parcel Fabric course. Going to take ESRI enterprise workflows class.

Jon(Clackamas) – cleaned up arcade script for bearing distance. Looking at MapIndex update tool. Doing production level testing. Taking edits and running them through ArcPro using a large subdivision. Learning ins/outs of editing – when editing turn topology off.

Binh (Washington) – looking at mapindex update/input tool. Driving it from the mapnumber. Calc is going slow. Working on annotation and arcade script.

Nick (Clackamas) – regular production testing. Setup is pretty well set to go to push to ArcPro.

Bryce(Harney) – Been talking about training. Would nice to get some training.

**2. Data Design Review**

* Condos - Has been added. Thanks Jon and Nick
* Twn/Rng/Sect/Qtr in MapIndex - Not needed
* Long Chord - Not needed and left out by ESRI by design
* Anything else?
* Some folks are having questions regarding seeds to polygons. Some problems as the only way to update a polygon through is through a seed. That has some frustration.

Action Items: Dean to post latest update

**3. Tools Update**

* MapIndex Edit Tool - Updated in T7-4 Prototype (Demo)
* Arrow/Hook - David Proposal (needs approval)
* Cancelled Number Tool - Binh Tool has been added (Demo)
* Deschutes Cancelled Number Tool - Deschutes? (canceled number should be a text field)
* Add Batch Anno - Prototype added to T7-4 (Demo)
* Single Anno Add - Not possible with existing attribute rules. Update coming in future release
* Closure Report - ESRI is working on it (see attachment)
* Consolidation Join Tool - Not reviewed yet
* Plan Voucher Polk - Dean is starting to work on this
* Map Production - Prototype exists
* Other Tools and/or Demos? – Thom wants the ability to do a halo around a text
* Add two new maps – issues with the page number. Need to have a tool so a map series is renumbered. Otherwise the map production will not work correctly.

Action Items: Dean to update demo tools and get next version out.

Dean to demo changing font characteristics at the next meeting (halo)

Jon to demo tool for renumbering page/series numbers

**4. Attribute Results**

* T7-4 Prototype - Updated so export should work
* Please export and rules you have an email them to Dean
* Attribute Rule Note – Make sure you set up the rules for BOTH insert and update if that is what you need.
* Binh – Working on a rule to create taxlot centroid labels from the polygons. But. Creating centroids from polygons is difficult and needs lots of filters.

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Members to export their rules and send to Dean

**5. Training & Rollout (Test with New Members)**  
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**March 17, 2021**

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*Members to export their rules and send to Dean*

**5. Training & Rollout (Test with New Members)**

Discussion on how we get folks trained (joined by Carol from ESRI at 11am)  
------

After talking with folks I have developed the following very rough draft that identifies the training needs for GIS staff to support the ORMAP effort.  I hope we can develop a training plan and test it with newer members of our committee.   We will still have to add additional training requirements for cartographers. (We have already invested in supporting the Enterprise environment so that is not included.)

GIS Staff Person: A GIS Professional (that may also be doing some assessment taxmap map cartography).  Technically uses GIS to support their own activities as well as cartographers in how to use ArcPro and then Parcel Fabric to maintain an Oregon Taxlot Map using the ORMAP tools and design. Needs a good working knowledge of ArcPro, basic ArcMap/ArcPro data conversion concepts, and how to setup and manage the ArcPro Map Editing and Map Production environment.  Need to working knowledge of Arcade script and a basic understanding of python (edit and existing script). These folks will not need Enterprise training at this time.

Had a good discussion about options. For the short term we are looking at developing a proposal to get new tools committee training. (Jefferson, Wasco, Harney, Columbia, Clatsop, Douglas). Each County will have the option to take two instructor led courses (Migrating from ArcMap to Arcpro and Parcel Fabric). Counties that have staff with ArcPro familiarity will not need to take the migration class. Counties that participate will need to actively review the ORMAP Design and Tools and participate in ORMAP Tools Meetings. Please note. We will be working on additional training so if you do not have time to participate with the tools committee there will be ample opportunity in the future to take the appropriate training.

In the future we will need additional training. One option will to potentially hire Frank (Pandas) to do a custom training. This may meet our needs better and be cheaper than a standard ESRI training class.

Training implementation will be done following a similar process as past trainings.

*Action Item: Dean will get a list of counties that will participate and their class options and will submit this as a grant to Phil.*

**6. Enterprise Discussion**

John gave slideshow of options. Showed off the sandbox. John will send it out.

* 1. Access = 12Noon to 5PM (mon/fri)
  2. Maybe get a few more concurrent users (5-10 concurrent users)
  3. No special DNS naming (use their ugly URL or IP)
  4. Backup/Recovery – not needed as we can make snapshots
  5. Environment Windows/Postgres RDBMS
  6. Needs to run “fast” enough to have folks use it
  7. Would like to look at VDI as part of this if possible as a cost option (look at this an option)
  8. John S will help set this up be we really need to be aware of John’s time as John is a busy guy. Ultimately the management of this site will need to relie on our group.

*Action Items: Based on our clarification John will get us costs*

*Polk Co to review and send out proposal*

*After approval will go for grant*

**7. Additions**

John Ruffing – OSACA coming up April 6th. Assessor GIS Training

**8. Action Items and Next Meeting**

See Above on Action Items

**Next Meeting Tuesday April 13 from 10-12**

**ORMAP Tools Meeting**

**April 13, 2021**

**Meeting Notes**

**1. Review what each has been doing**

Dean/Eric (Polk) - Posted 1.05 Release. Doing conversion of old stuff. Will start 2.8 beta testing this week.

Mike (Deschutes) – Recovering. Doing updates on Pro. Need info on Attribute Rules.

Nick (Multnomah) – No real updates. Doing production work and Data Cleanup – Getting data ready.

Binh (Washington) – Annotation tool work. Creating a task for this. Can ARCADE rotate test. Turn radius 90 degrees to the line.

Thom (DOR) – Not a lot to report. Finished ORMAP Aggregation. Working with Pro More. Training is coming. Meeting with IT and ESRI on things for enterprise.

Jon (Clackamas) – Team will not implement by end of role. Pushing it back. But moving forward with Pro sooner. Also on working annotation copy. Setting up to work in 10.8.

Brian (Clatsop) – Not a lot going on. Do not know a lot about parcels. Adam is learning Pro. Brian interested in Fabric class.

Bryce (Harney) – Not much to update. Waiting on training. One thought – get trained on Arcade?

Ivan (Wasco) – Heading out into the field. Looking forward to training on Pro, Parcel fabric and Python editing.

Leo (Jefferson) – Not much since last meeting – looking forward to training.

Robin (Columbia) – Nothing really new. Geomoose question. Helion going in-house.

Vyla (Douglas) – Not quite there. Trying ramp ESRI at Douglas County. Getting more for next fiscal. Looking at using SQL Spatial to help move from GeoModia.

ESRI – Other things – Last week was Zoom meeting with Assessors and had 50+ attendees. Seemed to go well but could be better. Any feedback would be appreciated. What is next is they will be doing follow up with some who attended. Tried to stay away from too technical stuff. Helion has been connected with the ESRI development team. Recording is available from the assessor’s meeting.

**2. Data Design Review**

* V1.05 – Has been made available for download
* Do we want to add attributes (CreatedByRecord, and CurrentLine, CurrentAnno, CurrentPoly).  I am OK with NOT doing it as I will add it to our version.
* It is a PAIN to add new fields – Add them now is the consensus

Action Items: Dean Add do V1.06 – Add fields in.

**3. Tools Update - Starting to test 2.8**

* V1.05 – Has new tools
* John to demo (Renumbering pages) – Jon wrote code to assign a page number to the map series. This allows page numbers to be redone. (Jon will send code to dean as part of the mapindex update process).
* Review Changing Annotation Doc Dean sent out
* Programming Styles (standard) – Discussed documentation and Dean/Eric/Jon will work on draft.
* Outstanding tools
* Arrow/Hook - David Proposal (needs approval)
* Deschutes Cancelled Number Tool - Deschutes? (canceled number should be a text field)
* Single Anno Add - Not possible with existing attribute rules. Update coming in future release
* Closure Report - ESRI is working on it
* Consolidation Join Tool - Not reviewed yet
* Plan Voucher Polk - Dean is starting to work on this
* Add two new maps – issues with the page number. Need to have a tool so a map series is renumbered. Otherwise the map production will not work correctly.

Action Items: Dean/Eric/Jon to draft a programming standard.

Following the arrow tool we will do a demo/update for cartographers.

Jon to send page code to Dean. Who will add it.

**4. Attribute Rules**

* No Change latest posted to demo
* SEND YOUR RULES TO DEAN as an export

Action Items: Folks need to send attribute rules to dean

**5. Training** - Need approval for training – Group approved training.

Action Items: Dean work with Phil to get training going.

**6. Enterprise** - John has some numbers for a discussion. John reviewed costs. Comparisons not apples to apples. Azure needs to be a little cheaper and performance is a little faster. Cost to run is $8-10/hr making cost be about $80-100 week. Somebody not ESRI needs to setup the accounts. Once the accounts are setup then the process for setting it up is pretty automated using ESRI’s cloud builder application. Need to know who is the account manager.

Some typical roles.

IT Superuser – Ultimate IT system of the system.

Database Admininstrator (SQLServer) – DBA in charge of sql serversetup

ESRI Enterprise – Manage users (County) have multiple administrators that can build geodatabase.

Within Enterprise – Responsible for enterprise user – build or manage other users.

For Example… Counties need to be able to create and add users and manage users within the county. You also may want to have a collaborative that all have access to. But then each county needs to work on their own specific areas.

Also is a one day branched versioning class that we may want to consider (in plan Carl sent us).

Action Items: Dean and Eric to setup. Polk County will own this.

**7. Other Items**

None

**8. Next Meeting** – **Wed May 5 10-12**

**ORMAP Tools Committee Meeting**

**5/5/2021**

**\*\* Notes from this month are pretty sketchy – sorry**

**Meeting Notes**

**1. Review what each has been doing**

Dean/Eric – Beta Testing (till laptop broke), updated design & doc standard, waiting on 10.9 enterprise, Converting old data, testing map production, playing with labels

Mike (Deschutes) – Gone has basics setup – needs to redo conversion to move to production

Thom (DOR)

Nick (Multnomah) – Missed

Binh (Washington) – Working on Annotation

Jon (Clackamas)

Bryce (Harney) – Waiting on training

Leo (Jefferson) – Waiting on training

Ivan (Wasco) – Waiting on training

Vyla (Douglas) – Not Present

Johns (ESRI)

**2. Data Design Review**

Added Attributes as discussed last time

Any Additions?  

*Action Item: Dean Post 1.06 Design*

**3. Tools Update**

Arrows – David is working on it. Hit a bug and is waiting for answers from ESRI.

Started Test Beta 2.8   
Programming Standard - Draft to discuss

*Action Item: Finalize Standard and Update Programs*

*Add Jon’s Page Update Code*

**4. Attribute Rules**

     No Change latest posted to demo - SEND YOUR RULES TO DEAN as an export

*Action Item: None*

**5. Training**

Getting Organized. Everyone who needs to can trained in ArcPro and ArcPro/Fabric

*Action Item: Sign up for classes*

**6. Enterprise**

Update from Eric/John – Trying get licenses to do this from State.

*Action Item: Need to get environment setup*

**7. Other Items**

**Next Meeting June 16**

**ORMAP Tools Meeting Notes**

**June 16 10-12 AM**

**AGENDA**

**1. Member Review**

Dean (Polk Co) – Built scripts to convert the entire county to pro – takes about 1.5 hrs to run. Setup test area and cartographers are playing with Traverse/Constructions tools in ArcProFabric. Working on annotation tools.

Tom (DOR) – Completed admin refresher. Concerned that setting up/publishing the fabric is complicated and additional training is probably needed (group training?) Also working with their IT on ORMAP Modernization. Made them aware that conversion should happened before the end of 2023. They are working on priorities.

Binh (Washington) – Having a cartographer starting testing. Made a tax number annotation tool. Struggling with annotation symbology. Looking at doing a couple of steps. More testing. Hopefully setting up a branch version database this month to start testing in enterprise.

Robin (Columbia) – Just got back from vacation. Did take the migrating class in and taking the fabric class next. Has moved the entire database to fabric.

Leo (Jefferson) – Took migrating class. Good class. Have not started migrating parcels. Trying to finish cartography work by July 1.

Doug/Tim (Benton) – Invited by Tim. Start to look at schedules for moving forward. Just getting started.

Nick (Multnomah) – Working on getting stuff done for July 1 deadline. Not moving fast.

Brian (Clastop) – Took fabric class. Did the 10.9 update on enterprise. Have 2.8 installed on desktop. 10.9 broke web apps so is fixing stuff.

Esri (John) – Talking to Yamill and Benton County assessor’s about moving to pro. There is a branch versioning class.

Jon (Clackamas) – Tested zoom code. Have some suggestions. Filter works well. Got hardware. Going to 2.8. Get testing environment setup.

Milke/Shad (Deschutes) – Taking class next week. Test database setup. Done subdivision tests. Not too tough.

Bryce – Waiting for training in couple weeks.

Ivan – Been on leave of absence. Will take class in couple of weeks.

Adam (Marion) – Working on plan. Doing the A&T conversion.

**2. Enterprise Update (John/Eric**): State of Oregon could bring on enterprise but has license problems. Eric (Polk Co) offered to support the process using a Polk Co ELA License. Dean/Eric will write up a proposal to cover costs.

How are folks supporting Enterprise with Portal?

Clackamas – going to 10.9

Deschutes – upgraded to 10.9

Multnomah – 10.8 up and running with portal

Clatsop – Jumped to 10.9 (4core and 64gb ram) – Seems to work fine but load is low.

Binh – 10.8 upgrade and most things are working well.

*Action Item: Eric/Dean to writeup proposal for group to review to cover cost of enterprise sandbox. Group to review then Dean will pass it on to DOR.*

**3. Training**

Core group is signed up and taking classes. Binh / Nick – want to take fabric class. Bobbie shared some example training plans and will share with the group. John R shared that the Assessor’s have funds (40K+) to get staff trained on ArcPro/Fabric migration. We need to keep training plans flexible. Some counties are being incremental with training, others would like training and just start and others are already are using it on projects. Most counties are starting with basic ArcPro and moving on. Robin just took the migration class and felt it went pretty fast. May not work best as introduction for cartographers. Bottom line is we need a flexible plan that includes training for GIS Support staff as well as cartographers. Mike/Eric/Others felt any training is good. We need to provide ESRI (John/John) with a good plan that they can share with Assessors. Cost for a 2day private migration class for 15 people is $15,500.

*Action Items:*

* *Dean to make proposal to DOR to add Binh and Nick to take Fabric Training.*
* *Training Plan to be developed for review by John R, John S, Bobby, Tim, Adam, Doug*
* *Dean (any anyone else) to share implementation*

**2. Data Design**: The design is available in 2.6. No changes were proposed. Minor modifications (sample data and tools) will be made to a 2.6 version.

*Action Item: John to add new folks to his share list so they can access the samples and Dean will follow up with a short review of the design, sample data, and conversion steps.*

**3.  Tools Update**

Interactive Anno Tool – Dean has a tool for taxlots and taxlot acreage anno. It currently uses a task and attribute rule. The attribute rule will be replaced at 2.9 with arcade task.

Zoom Tool – Jon reviewed. Works well but needs more error trapping.

Arrow Tool - David working with ESRI

Programming Standard - Done and sent out

Make Exchange Standard - Tool still needs to be written.

Cancelled Numbers – Shad working on proposal

Old Maps – Shad brought up a tool they use for managing/archiving old maps (maps that are replaced in the publishing process). This is a potential tool. So when you publish a map you need to keep old maps and provide access. There was general interest in the tool and that will be looking into it.

Discussion about tasks – How counties will implement tasks will be variable and we are not going to create standard tasks. We will provide sample tasks with the converted data and develop a process for exporting and sharing tasks. (Export process identify from John S)

*Action Item: Dean to add Fabric Tasks to the sample project file.*

**Next Meeting:** Wed July 21. 10-12

ALSO Don’t for ESRI User Conference the week before – free to sign up