

MD iMap Technical Committee Meeting Minutes

Place: Department of the Environment (MDE): Terra Conference Room (Baltimore, MD)
Date: 1/15/13
Time: 1:00PM – 3:00 PM
Attendees: Kristen Ahearn (StateStat), Michael Bentivegna (CGIS), Ashley Buzzeo (CGIS), Bill Fearington (DHR), Julia Fischer (DoIT), Matt Folley (MDP), Jason Keppler (DoIT), Erin Lesh (SHA), Lisa Lowe (DoIT), Kate Majchrzak (MDE), Tom Nasuta (MDE), Frank Siano (MDE)
Phone Attendees: Mary Creamer (ESRGC), Kaushik Dutta (MDtA), Doug Reedy (Frederick County) and Brad Wolters (DHCD)

AGENDA:

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| • Introductions | 1:00 – 1:10 |
| • Addressing Initiative | 1:10 – 1:20 |
| • Data Management Plan | 1:20 – 1:40 |
| • Data and Resources Subcommittee Updates | 1:40 – 2:00 |
| • Outreach Subcommittee Updates | 2:00 – 2:10 |
| • Application Subcommittee Updates | 2:10 – 2:20 |
| • How to consume Socrata services in MD iMap | 2:20 – 2:40 |
| • Additional Business | 2:40 – 3:00 |

NEW ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:
Service Alert • Email and tweet service alert to go out tomorrow concerning service pack implementation and 2 hour downtime from 6 – 8p.m. Friday, January 18, 2013	Submitted: 1/15/13	Julia Fischer
MD iMap Portal • Request that everyone take a look at the current website and provide suggestions for cleanup to Julia Fischer (julia.fischer@maryland.gov)	Submitted: 1/15/13	Technical Committee
Geocortex	Submitted:	DoIT GIO

<ul style="list-style-type: none"> Request DoIT contractors explore and report back to the group concerning the raw code and opportunities for modification 	1/15/13	Office
<p>How to consume Socrata services in MD iMap</p> <ul style="list-style-type: none"> Test the potential for automated updates using available .xml feeds or other resources out of Socrata and report back to the group 	Submitted: 1/15/13	Kristen Ahearn, Kaushik Dutta & Jason Keppler

ON-GOING ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:
<p>USDOT Cloud Utilization Survey</p> <ul style="list-style-type: none"> Send acceptance to USDOT, we are on the second tier list of user's discussion. No further communication Phone conversation with them to start 	<p>Updated: 1/15/13</p> <p>Submitted: 11/20/2012</p>	Kaushik Dutta & Barney Krucoff
<p>Future Agenda Item</p> <ul style="list-style-type: none"> Bring a regular report to the meeting about what credits are being used and discuss what to publish, etc. 	Submitted: 8/7/12	GIO & Co-Chairs

Application Subcommittee:		
Description:	Date Assigned:	Follow Up By:
<p>SwGi Connection</p> <ul style="list-style-type: none"> DoIT to test this week or early next week and get back to group 	Submitted: 12/4/12	Jason Keppler
<p>Google Map Engine</p> <ul style="list-style-type: none"> Negotiate with Google through the existing Google contract with DoIT 	Submitted: 9/4/12	GIO
<p>SwGi/Version 10.1 Migration</p> <ul style="list-style-type: none"> MD iMap infrastructure being kept at Esri Version 10.0 at present DoIT providing a server for development at Esri Version 10.1 at present Meeting scheduled w/Amazon for Wed. 9/5/12 10.1 migration anticipated by January 2013 by CGIS 1 meeting at CGIS Not yet created design Invite Esri to participate in a design session 	<p>Updated: 11/20/12; 9/4/12; 7/17/12; 3/23/12</p> <p>Submitted: 3/6/12</p>	GIO
<p>Application Submission Procedures</p> <ul style="list-style-type: none"> Update detailed procedures for application creation and update Resend Application Submission Procedures draft to Technical Committee (Co-chairs) 	Submitted: 6/21/11	Technical Committee
<p>Code Acquisition for MD iMap Portal</p> <ul style="list-style-type: none"> DoIT developers working with DoIT staff to obtain code from various application developers Provide updated worksheet to Kenny Miller for review, after updates have 	<p>Updated: 12/4/12; 7/5/11; 6/7/11;</p>	GIO Office

<ul style="list-style-type: none"> • been applied (Kaushik Dutta) • Development Code Worksheet Generated (Kaushik Dutta) • Date of Launch add this additional column and information to worksheet (Kaushik Dutta) • Work on filling in missing information (Kaushik Dutta & Kenny Miller) • Meeting to be scheduled to discuss next steps • Excel spreadsheet inventory being produced by CGIS and MES • Actively being pursued • Obtain Flex code from CGIS and MES for MD iMap based applications 	<p>1/4/11; 12/21/10; 12/7/10; 11/16/10</p> <p>Submitted: 10/19/10</p>	
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Data & Resources Subcommittee:		
Description:	Date Assigned:	Follow Up By:
Topography Updates <ul style="list-style-type: none"> • Share Salisbury map service URL with the group 	Submitted: 6/5/12	GIO
REST Endpoint Service Descriptions <ul style="list-style-type: none"> • Any changes that need to be made to these descriptions or legends should be submitted to Ashley Buzzeo 	Submitted: 12/20/11	MD iMap Service Data Owners
WFS-Enabled OSPREY Services <ul style="list-style-type: none"> • Instructions and list of available WFS enabled services to be added to Portal early September • Ownership in question • Follow up with owners of OSPREY data to determine if layers can be WFS-enabled 	Updated: 9/4/12; 3/23/12 Submitted: 12/6/11	Kenny Miller
GIS/Archives Appraisal Questions <ul style="list-style-type: none"> • Distribute survey to as many municipal, county and state agencies, as possible, for potential participation 	Submitted: 7/5/11	Technical Committee
Feedback/Requests concerning MD iMap <ul style="list-style-type: none"> • Statewide tax map service being developed by MDP – will be made available on MD iMap in future • PFA map service now includes a field “State Eligible” w/ Yes or No • Look to obtain most recent statewide DEM from Salisbury and discuss effort/timeline for generating hillshade and getting posted • Still updating • Add Plat # to parcel • Maybe add address • Add PFA in/out: resistance to this update • Check for hillshade, which can be added as map service, @ MDP • Add Hillshade Service: Inquire at DNR if they have a hillshade available – to check • Add Map/Parcel ID Look-Up: Follow up with requestor (Jason Zhao – MDE) to clarify request 	Updated: 9/4/12; 3/23/12; 10/4/11 Submitted: 6/7/11	Jim Cannistra
Point of Interest/Place Name Geocoder	Updated:	CGIS

<ul style="list-style-type: none"> • Geocoders have been defined, data being collected, geocoders to be created and tested in the upcoming weeks • Research concerning development of composite geocoder underway • Composite geocoder on task list for CGIS FY2013 • Ashley Buzzeo will work with Brad Wolters to determine if this composite geocoder will meet these additional search criteria needs 	1/15/13; 12/4/12; 9/4/12 Submitted: 1/18/11	
WFS Services <ul style="list-style-type: none"> • Top 10 list to be assembled during next Data & Resources Subcommittee meeting • List of enable services, email to group 	Updated: 4/5/11 Submitted: 3/15/11	Data & Resources Subcommittee
Web Mercator Data Service Projection <ul style="list-style-type: none"> • DoIT recreating MD iMap map services in 10.1 Web Mercator projection • Need to move projections to Web Mercator • Per MES, EMMA replacement will use Web Mercator projection • Assess costs in labor and storage for creation of MD iMap data services (except imagery) in Web Mercator projection – Will determine with DNR & CSSC (lots of variables: migration to 10, etc.) 	Updated: 11/20/12; 3/6/12; 10/4/11; 4/5/11 Submitted: 1/4/11	GIO Office
Metadata Services <ul style="list-style-type: none"> • Forward electronic list to group • Updated list to be provided by Friday, 1/7/2011 • Updated list to be provided at 1/4/2011 meeting • Remaining “offenders” actively being pursued • Resend email to “offenders” to complete metadata • Email resent and follow-up by Kenny Miller to occur • MDP has provided metadata for all their services on MD iMap • Follow-up concerning how to obtain the missing metadata for services currently being hosted on MD iMap • Email sent to Kenny • Agency leads from Tech. Comm. to make progress <ul style="list-style-type: none"> ○ Direct contact of data owners • A listing of services for which metadata is needed was provided. It was discussed that some metadata may not be available from the data producers. This is especially true for parcel data. Metadata at the service level will be written by MDP for parcel data to go along with the MD iMap refresh process 	Updated: 1/18/11; 1/4/11; 12/21/10; 10/5/10; 8/3/10; 7/12/10; 6/22/10; 5/18/10 Submitted: 4/20/10	Data & Resources Subcommittee Co-chairs

Education & Outreach Subcommittee:		
Description:	Date Assigned:	Follow Up By:
Twitter/Communication Plan <ul style="list-style-type: none"> • List of every CIO for inclusion on email alerts 	Submitted: 11/15/11	GIO
<ul style="list-style-type: none"> • Recruit participants • Obtain feedback concerning how to improve upon current outreach 	Updated: 5/18/10;	Outreach Subcommittee

strategies <ul style="list-style-type: none"> Email potential new members directly 	4/20/10 Submitted: 3/16/10	
<ul style="list-style-type: none"> Proactive Marketing of MD iMap 	Submitted: 9/21/10	Outreach Subcommittee

COMPLETED ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:
Cascading Geocoder <ul style="list-style-type: none"> Compile information from meeting discussion and send out to the group for review and comment 	Assigned: 12/4/12	Ashley Buzzeo
<ul style="list-style-type: none"> Link to Merlin needs to be added to MD iMap Portal webpage 	Submitted: 12/21/10	Lisa Lowe
<ul style="list-style-type: none"> Discuss with Broadband Team concerning functionality and code availability Discuss adding a feedback button to MD iMap Portal webpage 	Updated: 10/4/11 Submitted: 12/21/10	Outreach Subcommittee Lisa Lowe

Introductions

Round-the-room

Addressing Initiative (Presentation Available)

Background

- Contact is: Addressing Coordinator, Russell Provost (russell.provost@maryland.gov)
- Funded by Maryland Broadband Cooperative (MBC)
- Contract through Salisbury University as an extension of the existing broadband mapping effort being funded by NTIA (National Telecommunications and Information Administration)
- Contract for 2 years, position working out of Annapolis office of DoIT

Big Picture

- Not a re-addressing project, but a collection effort
- Anticipate putting together a single, master address point database for the entire State of Maryland
- Currently meeting with local, regional and state organizations to assess existing products, assess gaps, discover inconsistencies, learn best practices and adopt existing workflows
- Anticipate implementing an ETL workflow to minimize the intrusion to existing workflows
- A centralized, statewide address point data layer will:
 - Support high-quality geocoding
 - Enhance emergency management, damage estimation and 911 dispatch

Feedback/Follow-Up

- MDE would prefer parcel centroids as an output of the addressing initiative

- Frederick County GIS Municipal users group often asking about addressing and how to address
 - Should Russell Provost show up at this meeting? – Yes, request information from Doug Reedy
 - Search for other groups which are similar
 - Frederick County was not able to find any similar organizations within Maryland

Data Management Plan (Document Available)

- Plan is designed to:
 - Formalize the data
 - Determine QAQC requirements
 - Standardize procedures for submitting data
- Suggestions, questions, issues or additions can be sent to Lisa Lowe via email (lisa.lowe@maryland.gov)
- **Purpose:** Why the plan is being put together
- **General Data Specifications:** Format requirements for various information types which are accepted into the system
- **File Naming Convention & Service Naming Convention:** Reinforce the naming conventions currently being put into practice
 - Will have to change periods to underscores because 10.1 doesn't accept periods
- **Coordinate System:** Moving away from state plane to WGS 1984 Web Mercator (auxiliary sphere)
- **Metadata:** FGDC-compliant metadata
 - Still working out what minimum number of fields and requirements should be requested
 - Do we want additional fields from the ones which are in the minimal FGDC-compliant standards?
 - Resurrect the original data submission documents with some of the additional field requirements and determine whether or not these need to continue to be supported
 - At the minimum want metadata for what is required to drive the look-up site
- **QAQC:** Standards to be defined
 - Should the data owner be required for keeping the data up-to-date
 - Request that the data be updated at least 2 times a year, this can be adjusted to more or less often
 - Do we want to put procedures in, which are processed once the data is submitted for inclusion into the system?
 - Any QAQC is dependent on the data itself, can something generic cover all data
 - Consider MD iMap as consuming other people's data
 - Only data stewards and not responsible for cleanliness of the data
 - Make sure data conforms to the guidelines of the data submission process and not proceed beyond these checks once received for submission
 - Include in metadata what QAQC procedures were followed
- **Data Distribution and Security:** Three levels of data included
 - Do we want more detail concerning this section of the document?
 - Don't currently have provisions for storing secure data
 - Aspire to allow for secure data in the future, keep this section to be expanded later
 - Put the government and restricted levels in italics and note that these as future considerations only
 - Don't want to give people the idea that these levels are currently available
- **Organization of Data:** ISO Categories modified slightly from the overall standards supplied by ISO
- **Procedures for Publication of Data onto MD iMap:**

- Will need to be changed depending on where the 10.1 production environment is located
- **Roles & Responsibilities:** Need to build this section out concerning all of those groups/individuals involved
- **Data Inventory:** Include a static list of the available datasets within the system
 - Add a secondary contact person for each dataset
- Eventually this document will go to the Executive Committee for review and agreement
 - Once accepted by Executive Committee, document will be distributed and posted on Portal
- Recruiting for the Data & Resources Subcommittee – only have 1 person at this time, Erin Lesh
 - Additional participants include: Ashley Buzzeo, Frank Siano, Kristen Ahearn (Socrata-specific), Matt Folley (alternate)

Data & Resources Subcommittee Updates

- Service pack upgrades being done on the system
 - Moving to service pack 5, from pack 3
 - Upgrade completed for staging and prerelease
 - Memory issues should be resolved with the latest service pack
 - Anticipate outage on Friday, from 6 – 8p.m.

Action Item: Email and tweet service alert to go out tomorrow – Julia Fischer
- Cascading Geocoder
 - CGIS actively working on this item
 - Took information from the last Technical Committee and now have up to 11 geocoders
 - Recommendation of 10 maximum, might get a response lag, but will test
 - Collecting data from various sources, pull them together, create geocoders and conduct testing
 - Can/will build logic into the geocoder
 - A search will proceed through all geocoders
 - For example: if mile marker is the last geocoder and a mile marker is entered, the geocoder will go through all of the other geocoders until it finds the hit in the last one
 - Originally suggested 2 geocoders
 - 1 for addresses and 1 for place name
 - Discussions concluded consolidation to 1 geocoder which covers all searches
 - Includes: Municipalities, ZIP codes, MDPV address points, statewide addressing centerlines, intersections, highway exits, mile markers, community anchor institutions, points of interest, place names
- MDP census data has been updated for Society category services, updates to be pushed to production soon

Outreach Subcommittee Updates

- Migrating the Portal from CGIS to SharePoint at DoIT
- Action Item:** Request that everyone take a look at the current website and provide suggestions for cleanup to Julia Fischer (julia.fischer@maryland.gov)
 - Includes broken links, out-of-date documents, statements which need updates, etc.
- Looked at the API for SharePoint and its Silverlight based which limits the utilization on mobile devices

- Cross promotion with Open Data/Socrata will be investigated in the future

Application Subcommittee Updates

- GIO Office participated in Geocortex demo last week
- Product by Latitude Geographics, out of Canada
 - Suite of tools which takes ArcGIS Server and adds a management tool on top of current capabilities
 - Give abilities to take ArcGIS Server and push out services and components and applications beyond custom code or ArcGIS Online alone
 - Workflow of ArcGIS Online expanded
 - Sits on a server, as a web server, to serve out applications
 - Consumes REST services from any number of locations, local or mash-ups from multiple resources
 - Simple map applications and workflow processes
 - Geoprocessing steps can also be integrated without developer involvement
 - 60 day free trial period, DoIT to take advantage of this trial period
 - Contractors to determine how this does or doesn't overlap with their current efforts
 - Make recommendations to GIO for purchase
 - Silverlight and HTML5 applications are easy to deploy
 - Contractors are working on many of the same tools which are available as standard tools within the Geocortex framework
 - Purchase and implementation of this product might allow them to focus on what this product doesn't do that has been requested for the MD iMap templates
 - Ability to bring in ModelBuilder processes, can be consumed into Workflow tools of the product
 - Can implement own widget for geoprocessing tools which aren't in their existing toolbox
 - Would work well for individual agencies
 - Frederick County had a recent demo with Geocortex also
 - Allows for staff to tweak ModelBuilder without needing developer resources
 - What is it built in and how is the code exposed?
 - Dropdowns for changing workflows and appearance integrated into the base tools
 - Not sure yet about whether the code is exposed

Action Item: Request DoIT contractors explore and report back to the group
 - SHA took a look at Geocortex for just printing capabilities
 - Concluded it is too expensive for just printing
 - Consider review of the product as an integrated approach, rather than a separate application for each purpose
 - Could the templates being developed be rolled into Geocortex, as the next level of enhancements?

MD iMap Template Development Update

- Currently revamping the layout to adhere more closely to the State Standards
 - Working closely with the Web Team and guidance of Frank Perelli
 - Suggestions we are following regarding layout:
 - Table of Contents moved to the left side
 - Using icons instead of text in the buttons to reduce conflicts with state navigation buttons
 - Header and footer content will be managed by individual agency webmasters
- Keeping the integration with ArcGIS Online as demonstrated at the December Tech meeting

- Updating the code base to use the new released version 3.3 API.
 - New features include a World Composite Geocoder, allowing users to enter place names and points of interest.
 - Enhanced Drawing tools
 - Enhanced Pop-Ups
 - More support for JavaScript/HTML5/CSS 3 and Dojo 1.8
- Aiming to enhance the concept of a webmap to allow users to share maps via social media and save markup and results layers.

How to Consume Socrata services in MD iMap

- Looking at Open Data/Socrata data and there is a lot of GIS-enabled data which can be consumed by Esri products and vice versa
 - Both are publicly available data resources
- How do we get Excel spreadsheets from Socrata mapped onto MD iMap without duplicating the data in the 2 systems?
 - They can have web services and kml services as outputs to consume in Socrata
 - No web services on Open Data to date, only shapefiles
- Want to discuss how we can share data across the board
- 10.1 API allows expansion of REST endpoint and creation of shapefiles for download
 - Idea is when service is shut down and restarted that the latest data is available at a designated download site
 - Socrata can go through nightly to pull in this data
 - Shapefile would be sitting on Socrata server and would allow for the native tools of Socrata to be used
 - Moving MD iMap to 10.1 has been put on hold, doesn't allow for the shapefile download process to be implemented
 - Socrata would need to do some work to pull the shapefiles and see if they are updated
 - Socrata has also suggested that they can pull the feature service directly from the REST endpoint
 - This new functionality would need to be implemented by Socrata and not a priority of theirs at this time
 - Need to find out where we are in their queue
 - Having the download as a zipped shapefile is a good resource regardless of Socrata

Question concerning capabilities of Socrata:

- Can a user export data as a shapefile if a dataset is uploaded as an excel spreadsheet?
- Can a user add data to an existing file, which adds more rows to an existing dataset or is it added as a separate dataset?
- Is a unique id assigned for each dataset and can this be used to automate a process of searching for updates within a dataset?
- Excel spreadsheet of veterinary hospitals – geocodes addresses and stores lat/long based on internal geocode results

- Built in tools include a mapping functionality
 - Export options include: .csv, JSON, .xml – could create a script which allows for a service to be updated
 - Doing a similar process with other agencies who have .xml outputs which allow for automated updates
 - Have to make sure that the unique id stays the same and could look to automate a monthly update
- Socrata API endpoint – URL which provides a JSON file which other formats can consume
 - Work with Kristen Ahearn to determine a workflow that allows for data to be updated based on StateStat standards, but maintains the unique ID of a dataset

Action Item: Jason Keppler, Kaushik Dutta & Kristen Ahearn to work on trying to test this between now and the next meeting and report back to the group

- Can also extend the discussion of consuming data in MD iMap to include aggregate data to polygons
- Need to monitor the inclusion of additional services to make sure performance of the system is maintained
- Prioritize those which should be included as map services and those which don't need to be mapped

Question: Are FIPS codes being used for county datasets?

Response: Not sure at this time, talked yesterday about naming conventions of county names

- Need to take into consideration the geocoding capabilities of Socrata versus MD iMap
- Come out with time whether the process should run from Socrata to MD iMap or the other way around

Question: If a shapefile is pulled into Socrata will Socrata override the x,y with its own?

Response: If map by address, within Socrata, the lat/long might get overwritten by Socrata geocoder outputs

- Discussion has been on-going about metadata between the 2 systems and keeping these 2 systems consistent
 - Some names were inherent to the Socrata system and could not be changed