

## MD iMap Technical Committee Meeting Minutes

**Place:** Maryland Department of the Environment (MDE): MDE Stat Room (Baltimore, MD)

**Date:** 4/16/12

**Time:** 1:00 PM – 3:00 PM

**Attendees:** Julia Fischer (DBED), Tom Lasuta (MDE), Bill Fearington (DHR), Kevin Coyne (DNR), Jim Cannistra (MDP), Kristen Ahearn (GOV), Kenny Miller (DoIT), Matt Folley (MDP), Barney Krucoff (DoIT), Jason Kepler (MDA), Erin Lesh (MES), Mike Sheffer (SHA), Anthony Puzzo (Esri) and Brad Wolters (DHCD)

### AGENDA:

- |   |             |
|---|-------------|
| • Introductions   | 1:00 – 1:10 |
| • MD iMap and the CAD Community – <i>Erin Lesh &amp; Mike Sheffer</i> | 1:10 – 1:30 |
| • Application Subcommittee Updates                                    | 1:30 – 1:45 |
| • Data and Resources Subcommittee Updates                             | 1:45 – 2:00 |
| • Outreach Subcommittee Updates                                       | 2:00 – 2:15 |
| • Security Subcommittee Updates                                       | 2:15 – 2:30 |
| • Additional Business   | 2:30 – 3:00 |

### NEW ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:

### ON-GOING ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:
Central License Server <ul style="list-style-type: none"> <li>• Contact Barney Krucoff if you want to test your agencies' accessibility to CLS</li> </ul>	Submitted: 12/6/11	Technical Committee
ELA License Request Form/Website <ul style="list-style-type: none"> <li>• Website is now ready (Must have SwGi connectivity to access) <a href="https://www.doit.state.md.us/selectsurvey/TakeSurvey.aspx?SurveyID=n4LJ5n4">https://www.doit.state.md.us/selectsurvey/TakeSurvey.aspx?SurveyID=n4LJ5n4</a></li> </ul>	Updated: 2/8/12; 12/20/11; 12/6/11 Submitted: 11/1/11	GIO
ELA Renewal <ul style="list-style-type: none"> <li>• Post GSA price schedule for reference</li> </ul>	Submitted: 11/1/11	GIO
ELA <ul style="list-style-type: none"> <li>• Provide list of contributing agencies to MD iMap Tech Comm</li> </ul>	Updated: 11/1/11;	GIO

<ul style="list-style-type: none"> <li>Provide list of contributing agencies</li> </ul>	8/2/11 Submitted: 7/19/11	
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<b>Application Subcommittee:</b>		
<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
Google Earth Builder Pilot <ul style="list-style-type: none"> <li>Double check w/Jim Cannistra before committing MDP to participate</li> </ul>	3/6/2012	Matt Folley
Stronger Maryland Together Campaign <ul style="list-style-type: none"> <li>Write synopsis of process and see if update manual can be shared with the group</li> </ul>	Updated: 11/15/11  Submitted: 11/1/11	Michael Bentivegna
Future of Flex Programming <ul style="list-style-type: none"> <li>Approach Steven Anderson (Axis Geospatial) about presenting his pros/cons presentation to the group</li> </ul>	Submitted: 11/1/11	Jim Cannistra
Application Specific Services <ul style="list-style-type: none"> <li>Facilitate a discussion with CGIS concerning potential options for map service storage and organization</li> </ul>	Updated: 11/1/11  Submitted: 7/5/11	GIO
Support of StateStat Application (Capital Budget & ARRA applications) <ul style="list-style-type: none"> <li>Graph of hours/budget of efforts to support these applications (CGIS)</li> <li>Provide an understanding of when support crosses from normal, budgeted attention to custodian of application needs to be charged extra because of rush charge, etc. (CGIS)</li> </ul>	Submitted: 6/21/11	CGIS
Application Submission Procedures <ul style="list-style-type: none"> <li>Update detailed procedures for application creation and update</li> <li>Resend Application Submission Procedures draft to Technical Committee (Co-chairs)</li> </ul>	Submitted: 6/21/11	Technical Committee
License Agreement in regards to Code Sharing <ul style="list-style-type: none"> <li>Brian Sivak wants applications and their code to be in the public domain and freely available for sharing</li> <li>Awaiting response from Kenny Miller concerning how to proceed</li> <li>Check with Brian Sivak for comment concerning whether to code share through MD iMap Portal or another open source repository</li> </ul>	Updated: 11/1/11; 7/5/11; 6/21/11  Submitted: 6/7/11	GIO
Code Acquisition for MD iMap Portal <ul style="list-style-type: none"> <li>Provide updated worksheet to Kenny Miller for review, after updates have been applied (Kaushik Dutta)</li> <li>Development Code Worksheet Generated (Kaushik Dutta)</li> </ul>	Updated: 7/5/11; 6/7/11; 1/4/11;	Kaushik Dutta Kenny Miller

<ul style="list-style-type: none"> <li>• Date of Launch – add this additional column and information to worksheet (Kaushik Dutta)</li> <li>• Work on filling in missing information (Kaushik Dutta &amp; Kenny Miller)</li> <li>• Meeting to be scheduled to discuss next steps</li> <li>• Excel spreadsheet inventory being produced by CGIS and MES</li> <li>• Actively being pursued</li> <li>• Obtain Flex code from CGIS and MES for MD iMap-based applications</li> </ul>	12/21/10; 12/7/10; 11/16/10  Submitted: 10/19/10	
Developer Contact List <ul style="list-style-type: none"> <li>• Submitted to Deputy GIO</li> </ul>	Updated: 9/20/11; 4/5/11; 12/21/10  Submitted: 11/16/10	Application Subcommittee Kaushik Dutta

<b>Data &amp; Resources Subcommittee:</b>		
<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
Socrata <ul style="list-style-type: none"> <li>• Demo GIS data options to group</li> </ul>	3/6/2012	CGIS
SwGi/Version 10.1 Migration <ul style="list-style-type: none"> <li>• Invite Esri to participate in a design session</li> </ul>	3/6/2012	GIO
REST Endpoint Service Descriptions <ul style="list-style-type: none"> <li>• Any changes that need to be made to these descriptions or legends should be submitted to Ashley Buzzeo</li> </ul>	Submitted: 12/20/11	MD iMap Service Data Owners
WFS-Enabled OSPREY Services <ul style="list-style-type: none"> <li>• Follow up with owners of OSPREY data to determine if layers can be WFS-enabled</li> </ul>	Submitted: 12/6/11	Julia Fischer
Log Package Acquisition <ul style="list-style-type: none"> <li>• Provide package name and cost for next meeting</li> </ul>	Submitted: 12/6/11	Michael Bentivegna
Loading 2011 Imagery <ul style="list-style-type: none"> <li>• Will need to verify that the visual quality of .jpgs is as good as .tiffs</li> </ul>	Submitted: 12/6/11	Jim Cannistra
NAIP 2011 Imagery <ul style="list-style-type: none"> <li>• Check that DNR has this information to be posted on MD iMap</li> </ul>	Submitted: 12/6/11	Kevin Coyne
GreenPrint Mapping Application <ul style="list-style-type: none"> <li>• Determine if GreenPrint version on MD iMap infrastructure can be removed</li> </ul>	Submitted: 11/15/11	Kevin Coyne
Data Submission Policy Updates: <ul style="list-style-type: none"> <li>• Add “Update frequency, “Last updated” and “WFS-enable: Y/N” in Data Submission Policy</li> </ul>	Submitted: 10/4/2011	Data and Resources Subcommittee
WGS Basemap from OSPREY	Submitted:	Data and

<ul style="list-style-type: none"> <li>Check to determine status of providing this basemap via MD iMap</li> </ul>	10/4/2011	Resources Subcommittee
<b>SHA Basemap</b> <ul style="list-style-type: none"> <li>Cache being reviewed by SHA, awaiting their response</li> <li>MXD being generated, cache to follow</li> <li>Obtain information from SHA, re-cache and add as map service to MD iMap</li> </ul>	Updated: 3/6/12; 12/6/11 Submitted: 10/4/2011	Ashley Buzzeo
<b>GIS/Archives Appraisal Questions</b> <ul style="list-style-type: none"> <li>Distribute survey to as many municipal, county and state agencies, as possible, for potential participation</li> </ul>	Submitted: 7/5/11	Technical Committee
<b>Feedback/Requests concerning MD iMap</b> <ul style="list-style-type: none"> <li>Check for hillshade, which can be added as map service, @ MDP</li> <li>Add Hillshade Service: Inquire at DNR if they have a hillshade available</li> <li>Add Map/Parcel ID Look-Up: Follow up with requestor (Jason Zhao – MDE) to clarify request</li> </ul>	Updated: 10/4/2011  Submitted: 6/7/11	Jim Cannistra
<b>“Political Boundaries” Map Service</b> <ul style="list-style-type: none"> <li>MXD and data submitted by Cindy Powell at DNR</li> <li>MXD modified in May 2011</li> <li>Review the “Political Boundaries” map service, determine the source and last update date</li> </ul>	Updated: 10/4/11  Submitted: 6/7/11	Ashley Buzzeo Brad Wolters
<b>Point of Interest/Place Name Geocoder</b> <ul style="list-style-type: none"> <li>Ashley Buzzeo will work with Brad Wolters to determine if this composite geocoder will meet these additional search criteria needs</li> </ul>	Submitted: 1/18/11	Ashley Buzzeo Brad Wolters
<b>WFS Services</b> <ul style="list-style-type: none"> <li>Top 10 list to be assembled during next Data &amp; Resources Subcommittee meeting</li> <li>List of enable services, email to group</li> </ul>	Updated: 4/5/11  Submitted: 3/15/11	Ashley Buzzeo Data & Resources Subcommittee
<b>Web Mercator Data Service Projection</b> <ul style="list-style-type: none"> <li>Need to move projections to Web Mercator</li> <li>Per MES, EMMA replacement will use Web Mercator projection</li> <li>Assess costs in labor and storage for creation of MD iMap data services (except imagery) in Web Mercator projection – Will determine with DNR &amp; CSSC (lots of variables: migration to 10, etc.)</li> </ul>	Updated: 3/6/12; 10/4/11; 4/5/11  Submitted: 1/4/11	CGIS
<b>Metadata Services</b> <ul style="list-style-type: none"> <li>Forward electronic list to group</li> <li>Updated list to be provided by Friday, 1/7/2011</li> <li>Updated list to be provided at 1/4/2011 meeting</li> <li>Remaining “offenders” actively being pursued</li> <li>Resend email to “offenders” to complete metadata</li> <li>Email resent and follow-up by Kenny Miller to occur</li> </ul>	Updated: 1/18/11; 1/4/11; 12/21/10; 10/5/10; 8/3/10; 7/12/10;	Data & Resources Subcommittee Co-chairs

<ul style="list-style-type: none"> <li>• MDP has provided metadata for all their services on MD iMap</li> <li>• Follow-up concerning how to obtain the missing metadata for services currently being hosted on MD iMap</li> <li>• Email sent to Kenny</li> <li>• Agency leads from Tech. Comm. to make progress <ul style="list-style-type: none"> <li>○ Direct contact of data owners</li> </ul> </li> <li>• 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</li> </ul>	6/22/10; 5/18/10  Submitted: 4/20/10	
<p>Basemap Template Upgrade/Gazetteer Service Update</p> <ul style="list-style-type: none"> <li>• Review and provide feedback to Ashley Buzzeo (Technical Committee)</li> <li>• Provide hours concerning clean-up, update and reaching of this layer (Ashley Buzzeo)</li> <li>• Submit additional comments for updates to Ashley Buzzeo</li> <li>• Obtain most up-to-date county boundary from SHA</li> <li>• Add state and county boundaries and Interstate and US Highways for all states adjacent to Maryland and NJ</li> <li>• Comments for changes should be sent to Ashley Buzzeo</li> <li>• Meeting to be scheduled to discuss next steps</li> <li>• Upgrade basemap using Esri template</li> </ul>	Updated: 6/7/11; 4/5/11; 1/4/11; 12/21/10  Submitted: 10/19/10	CGIS Data & Resources Subcommittee Technical Committee

<b>Education &amp; Outreach Subcommittee:</b>		
<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
<p>Twitter/Communication Plan</p> <ul style="list-style-type: none"> <li>• List of every CIO for inclusion on email alerts</li> </ul>	Submitted: 11/15/11	GIO
<ul style="list-style-type: none"> <li>• Link to Merlin needs to be added to MD iMap Portal webpage</li> </ul>	Submitted: 12/21/10	Lisa Lowe
<ul style="list-style-type: none"> <li>• Discuss with Broadband Team concerning functionality and code availability</li> <li>• Discuss adding a feedback button to MD iMap Portal webpage</li> </ul>	Updated: 10/4/2011  Submitted: 12/21/10	Outreach Subcommittee Lisa Lowe
<ul style="list-style-type: none"> <li>• Recruit participants</li> <li>• Obtain feedback concerning how to improve upon current outreach strategies</li> <li>• Email potential new members directly</li> </ul>	Updated: 5/18/10; 4/20/10  Submitted: 3/16/10	Outreach Subcommittee
<ul style="list-style-type: none"> <li>• Proactive Marketing of MD iMap</li> </ul>	Submitted: 9/21/10	Outreach Subcommittee

<b>Security Subcommittee:</b>		
<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
Charter <ul style="list-style-type: none"> <li>• Generate a charter</li> </ul>	Submitted: 12/7/10	Security Subcommittee
Security Model <ul style="list-style-type: none"> <li>• On hold for funding availability</li> <li>• <del>Provide a copy of MD iMap Security Presentation to Brian Sivak (Jim Cannistra)</del></li> <li>• <del>Price quotes from proposal submission to be updated</del></li> <li>• <del>Additional documentation needed to address:               <ul style="list-style-type: none"> <li>○ <del>Cost of Delay</del></li> <li>○ <del>Justification of security (limitations, efficiencies)</del></li> <li>○ <del>Needs Assessment to determine groups and definitions</del></li> </ul> </del></li> <li>• <del>Schedule meeting for Friday, October 22, 2010 to formalize document and format presentation for October 27, 2010 Exec. Comm. meeting</del></li> <li>• <del>Generate detailed document and presentation for October 27, 2010 Exec. Comm. meeting</del></li> <li>• <del>Document for presentation to Exec. Comm. at Oct. meeting</del></li> <li>• <del>Demo accompanying document to Exec. Comm. at Oct. meeting</del></li> <li>• <del>In progress, to be submitted by next Tech. Comm. meeting (10/5/10)</del></li> </ul>	Updated: 6/7/11; 3/1/11; 10/27/10; 10/19/10; 9/21/10  Submitted: 8/3/10	Security Subcommittee

**COMPLETED ACTION ITEMS:**

<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
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**Introductions:**

*Round-the-room*

**MD iMap and the CAD Community – Erin Lesh & Mike Sheffer**

- 3 years with CADD users trying to use ESRI services
- SHA has a few hundred CADD users, not all trying to use ESRI services

History

- Have been relying on imagery tiles which are large datasets, have to use them individually and load each one individually
  - Use of WMS-enabled cached map service of imagery can solve this time constraint issue
- 2007/2008 imagery cache was completed using Image Server through ESRI
  - SHA had purchased Image Server at an additional cost, hosted at EDGE (external to SHA)
  - This was not purchased by MD iMap
  - Another software allowed for use of Imager Service in CADD software
- New versions of MicroStation (v8.1) can pull in a map service which is WMS-enabled

## Proposed of sharing image service from MD iMap

- Only serving out the cached map service of imagery
- EDGE server is serving up old imagery and is being heavily use
- Plan will be needed to transition users from EDGE to MD iMap
- Image Service is a dynamic link to raw imagery
  - Processing, radiometry, brightness can be adjusted user to user
  - Some users might be sufficient with cached service, but some need additional service capabilities
- Some additional clients: GeoMedia, Map Info also have abilities to access ESRI map services
- Store .wms file on MD iMap
  - Documentation to connect and create .wms files or create them and allow for them to use created ones
- Currently able to bring in what is currently available without projection issues
  - Reprojects on-the-fly based on the software file that the imagery is being pulled into
- Documentation of how to participate to post on Portal
- Would MD iMap support a cached file of the imagery, as well as, an image service of the imagery
  - Takes up more space
  - Duplication of efforts
  - Without image service, only the users with the latest version of MicroStation can access cached service
    - All users at SHA are using v8.i, but secondary users might not be up-to-date
  - ESRI is providing an image service of imagery of Maryland
- What other layers would CADD users be interested in?
  - Imagery and contours are #1 & #2 requests, parcels and building footprints would be #3 & #4

## **Question:** Has testing been done concerning responsiveness of EDGE image service vs. ESRI image service

- Internet capabilities for SHA is limited and can slow this process
- Comparable response time of EDGE service and MD iMap service
- Composite SIDs could be created on a local network and made available to users to improve some efficiency/responsiveness from an internal network
- Creation of county-wide SIDs or jpgs could be done fairly easily, not currently a deliverable
- Moving services onto SwGi and the pipe can be control through purchase of Network Maryland
  - More involved to set this up in the future
  - An option for serving bigger datasets, intranet, for the future – preferred network for state users
  - Same information would be available on the internet for consultants, performance could be managed better for internal users

- Can extract from an image service (clip, zip and ship)
- CGIS has been loading jpg files into MD iMap
  - Slight degradation between cached jpps and native jpps (at 100 or 200 scale, the difference won't be too noticeable)
  - Similar degradation between native jpps and tiffs

**Action Item:** Add a page for CADD users to the Portal

- Add documentations and files that are needed – content from Erin Lesh
- Would need to support MicroStation and AutoCAD documentation, GeoMedia and MapInfo also
- Would not have to be limited to imagery accessibility

Future Considerations: Performance Issue

- Do we want to get into CD-ROM distribution without charging for this information
- Would like to steer to the service instead
- Data will be on the National Map (USGS) shortly and data requests can go to them instead of to the state
- Dewberry is also charging a small amount for the distribution of Eastern Shore imagery
- CADD users aren't always aware that this is available as a capability and a resource
- Still want to look at Image Server for performance and other potential positive benefits
- Go the other way and more easily extract data created in CADD into GIS
  - Currently getting research done to edit in CADD environment and impact SDE database which could also be connected with map service
  - Standards will need to be considered to enhance and make sure that standards are universal
- Service page section or Tab on Portal
- Rename Services tab to Data
- Have some discussions about renaming the tabs based on discussions from Outreach Subcommittee meeting
- Another meeting to determine redesign of Portal and content that needed to fill the space

County Boundaries

- There are 2 boundaries which do not match and laws have changed the lawful boundary and through the years different datasets have utilized different lines for data creation (Garrett & Allegany Counties)
- Want to get county boundary files from SHA
  - Waiting for approval before this can official, but already being used
  - Clay Supensky, Mike Sheffer – send to Jeremy and Ashley at CGIS, cc Julia, Frank, Barney, Kenny
  - Posted as a WFS service – separate county boundary
- Municipal boundaries and urban areas are also be redefined and can be made available
- Urban Area boundaries from the Census have been provided to MD iMap from MDP (WFS-enabled)
  - Clipped to shorelines

**Application Subcommittee Updates**

## Google Earth Builder Pilot Update

- Agreement being signed by the State that is being waiting on before passwords can be granted to the Google Pilot team (Addendum to existing statewide Google documentation being put together)
- No specific next meeting has next been setup

## StateStat/Oracle

- Rounding up data and putting in Oracle business environment
- Working on longitudinal network system
- Building a data warehouse for StateStat – excel spreadsheets collected monthly
  - Pulling this information into Oracle business environment
  - Some mapping capabilities, dashboards, reports
- First phase is to pull data from spreadsheets to database

## Data and Resources Subcommittee Updates

- Data service updates have been happening, quite a few
- Need to step up communicating this information
- Most of the broadband services have been WFS-enabled
- Poll Map is about to be installed shortly for StateStat Office
- All Western Shore imagery has been updated

## House Bill 987

- Impervious surface mapping
- Start discussion for MD iMap to start collection process for this dataset
  - Discussion about who should get involved, how and to what extent
- 9 jurisdictions covered in this bill, all have planimetrics already
  - Not clear on which counties, “densest or most populous” counties
- Goal: MD iMap, MDP, MDE stay ahead of action and have covered over largest jurisdiction instead of segmented
  - Paid for by impervious surface fee to be charged based on results

## Poll Map

- Question/Vote map (Flex application w/JavaScript embedded, one config file)
- Maps results from questions of the poll
- Map story to be put together with ESRI cartographer, coming from StateStat Office
  - One Idea: Update Governor’s Kidneys of Death talk – utilize GIS to determine where to put homeland security funding – watch the change from red to dispersed hot spots
  - Covers why Maryland schools are best in country
- Help service request made by Kenny Miller and no outages have been reported through this reporting system during the time MDP experienced their internet outage
  - MDP to ask internal (Ted Cozmo) about reason for outage

## Outreach Subcommittee Updates

*No updates at this time*

**Security Subcommittee Updates**

*No updates at this time*