Imagery TWG Meeting Notes
Idaho Water Center
August 5, 2009

Attendees:

| | | |
|---|---|---|
| Margie Wilkins, IDWR | Eric Rafn, IDWR | Todd Quast, Cassia Co.* |
| Gail Ewart, CIO | Michael Ciscell, IDWR | James Zehner, Idaho Co.* |
| Jerry Korol, NRCS | Bruce Godfrey, InsideIdaho * | Paul Schneider, Bingham Co. * |
| Jim Szpara, DEQ | Don Patterson, USFS R1 * | Dawn Letham, Bonneville Co. * |
| Chris Clay, IDL | Mike McGuire, Ascent GIS * | |
| Ross Dodge, COMPASS | Craig Molander, Surdex* | |

*via telephone

**2009 NAIP DOQQ Acquisition Status**

- Idaho is 90% acquired
- South Central Idaho remains to be completed
- Surdex provided an updated proposal "focused on the seamless mosaic proposal and its details". See Surdex Proposal: Seamless Mosaic for 2009 Idaho NAIP 08-03-09 on the Framework website.
- Surdex's updated proposal for the seamless mosaic data (approximately $30,000) is still out of reach for the consortium. The partnership will continue to pursue data delivery via web mapping service provided by InsideIDAHO and ISU's GIS Center.

**ArcGIS Image Server vs LizardTech Express Server comparisons**

- response time using fused cache with ESRI's Image Server nearly identical to LizardTech Express Server. See graph comparing the two products on the Framework website
- need verification on the compatability of Intergraph products with the WMS products of ESRI
- cache scales need to be worked out – suggestions welcome; Google model?
- coordinate system for serving data needs to be decided by the consortium

Comparison Summary

| LizardTech's Express Server | ESRI ArcGIS Server Map Service (w/fused cache) | ESRI ArcGIS Server Image Server Extension |
|---|---|---|
| • GeoTIFF converted to SID format<br>• make entry into an XML catalog file<br>• runs a few command line executions<br>• restart Service | • Create MXD using Image Server service<br>• Generate cache beforehand or on-the-fly as users request<br>• Publish as ArcGIS Server map service, WMS, WCS, KML.<br>• Consume in desktop applications or develop web applications against this web service using APIs. | • Create service definition file using raw GeoTIFFs<br>• Publish Image Service<br>• consume in ArcMap or several other clients by connecting directly to the Image Server |
| serves compressed GeoTIFFs in SID format | Serves a picture based on agreed upon tile scheme (format (jpg, png, etc), cache scales, tile size, projection, etc) | serves GeoTIFFs natively; users have the ability to extract, change band combinations, apply brightness & contrast stretch, etc. (acts like a raster dataset). |
| requires INSIDE Idaho to purchase LizardTech license, ISU GIS Center already LizardTech licensed | INSIDE Idaho & ISU GIS Center have ESRI license | INSIDE Idaho & ISU GIS Center have ESRI license |
| limited to 3-band data (SID)<br>require two data sets: true color and color infrared | Will require multiple services for different band combinations | may serve 4-band data (GeoTIFF) |

**Miscellaneous Discussion**

- Data acquisition is proceeding North to South, so most likely, CCMs will be submitted to APFO for QA/QC in the same direction – northern counties before southern
- Suggested QA/QC standards:
  - use 24K DRGs, 2004 NAIP, and DOQQs in detecting alignment and registration errors
  - approxiamtely 1:20000 scale
- DEQ supports (but cannot provide) processing 2009 NAIP data into 100k tiles – especially appropriate for field and tablet use
  - Gail said there are compensation funds available for processing data into 100k tiles
  - Margie said that IDWR would not likely have the man hours/resources to do the 100k tile processing
- Efforts are under way to correct an error that had been made regarding funding allocations: Local Federal agency contributions had been lumped into National Federal agency contributions (rather than as part of the State partnership) thereby creating a consortium contribution shortfall.

- Below are instructions for connecting directly to the Image Server Services at InsideIDAHO for testing reliability, response time, and practicality. Feel free to try it out!

  In ArcMap:
  - Tools > Main menu > Customize.
  - Click the Commands tab on the Customize dialog box.
  - Choose Image Server in the Categories list.
  - Drag and drop the Add Image Server Connection command onto a toolbar.
  - Click Close to close the dialog box.
  - Click the Add Image Server Connection button (the one you just added to a toolbar).
  - The Add Image Server Connection dialog box is displayed.
  - Type the name of a server in the Server Name text box: maps.insideidaho.org
  - The list that appears includes all services served by the selected image server. Some services are organized in folders, which you need to double-click to view the contents.
  - Double-click NODECMAPS
  - Double-click imageryBaseMapsEarthCover
  - Double-click 2004_1m_idaho
  - Click OK to add the image service and close the Add Image Server Connection dialog box.
  - The image service is displayed.

## NEXT MEETING September 2nd, 2009