Missouri Spatial Data Information Service

2nd Period Bi-Annual Report August 2014 – January 2015

Build or implement a survey to identify gaps in the statewide data inventory.

<u>Strategy</u>: Watch the development of the NSGIC initiative to build a national data survey / needs assessment. Once developed, implement within the Missouri Clearinghouse. <u>MEASURE:</u> Completion of NSGIC survey tool and implementation on the MSDIS. <u>MSDIS with MGISAC</u> participation. Participation of personnel from MSDIS. Possible NSGIC national model development.

Current Status: Active

1st Period February, 2014 – July, 2014 comments – LiDAR issues still exist but we're fixing them as they come up.

2nd Period August, 2014 – January, 2015 comments – Ongoing.

Continue to develop an Internet mapping interface for MSDIS holdings.

Strategy: Increase utility of MSDIS Web site by continuing to developing the internet mapping user interface for interaction with the data elements compiled in MSDIS. This includes the development of new maps, evolution of mapping interface, maintenance, update, and upgrades to the Mapper. **MEASURE:** Continued evolution of the design and map services available on MSDIS-maps and MCDC-maps web site. <u>MSDIS with MGISAC participation in review</u> <u>Participation of personnel from MSDIS.</u>

Current Status: Ongoing

1st Period February, 2014 – July, 2014 comments – The 4973 2007-2008 2' imagery files have been configured – we're just waiting on available staff hours to draft them into the portal and – eventually – into Data.Gov.

2nd Period August, 2014 – January, 2015 comments – Most of the staff time has been utilized to build out the new virtual servers – first at Rolla (MST) – and lately at the Telecom site (Imagery-TC and Web-TC). Servers have been configured and software is being loaded. There is still a period of housecleaning and then testing before the new TC servers will become available – hopefully by the March MGISAC monthly meeting.

Develop and deploy a search interface for MSDIS holdings.

<u>Strategy</u>: Increase utility of MSDIS Web site for data discovery and query by thematically grouping data holdings.

<u>MEASURE:</u> Redesign of MSDIS Web site and development of milestones. This schedule will be developed jointly by MSDIS and MGISAC. <u>MSDIS with MGISAC participation in review</u> <u>Participation of personnel from MSDIS.</u>

Current Status:

1st Period February, 2014 – July, 2014 comments – Portal files are at 539. The 2007-2009 State 2' imagery files will soon increase that number exponentially by another nearly 5000 files.

2nd Period August, 2014 – January, 2015 comments – Portal files are at 836. Files are increasing rapidly temporarily – as the "Structures" Project data sets are imported. A new student staff member has been hired – Austin Gauthier – who replaces Chris Stephens who has gone back to school. Austin is being trained.

Duplicate existing coverage files as geodatabases for all MSDIS holdings.

<u>Strategy</u>: Migrate the entire MSDIS Clearinghouse to the geodatabase format and host both for a period of time. MSDIS will proactively evolve with changes in the software arena and make the site more usable to new start-ups

MEASURE: Reformatting of MSDIS coverage holdings as zipped geodatabases. Requires participation of personnel from MSDIS.

Current Status: Ongoing.

1st Period February, 2014 – July, 2014 comments – File conversion continues as older files go into the Portal. The 2007-2008 2' imagery will be added to the geoportal as soon as staff finish the "Structures" final review.

2nd Period August, 2014 – January, 2015 comments – New student staff member will continue to add the imagery files after he is trained.

To promote interoperability and standardization among core data layers being developed by the state and local government agencies and organizations.

Objectives

Development and endorsement of geospatial standards for database development and attribution.

<u>Strategy:</u> Review existing state, federal and international geospatial standards. Create or add new components, modify components, or adopt reviewed standards. Release drafts through MSDIS, MGISAC, and subcommittees for peer review and comment. Revise as appropriate and publish final standards within MAEA.

Disseminate geospatial related standards for active review process.

Current Status: Ongoing

1st Period February, 2014 – July, 2014 comments – There have been no new standards to disseminate – the state agencies led by OGI are currently working on standards but it is not clear just when those standards will be available for dissemination and review...

2nd Period August, 2014 – January, 2015 comments – There have been no new standards to disseminate – the state agencies led by OGI are currently working on standards but it is not clear just when those standards will be available for dissemination and review...

Homeland Security

Develop and maintain the data and infrastructure necessary to support Homeland Security Emergency Response.

<u>Strategy</u>: Coordinate with OIT, Office of Homeland Security, and MSDIS on the development of the communication infrastructure necessary to support Homeland Security efforts. Develop an action plan for the development of the databases and geospatial layers necessary to support homeland security planning, mitigation, risk assessment, and other operations.

<u>MEASURE:</u> Completion of data development plans for identified data layers based on priorities set jointly by MGISAC, Office of Homeland Security, and OIT. Completion of secure access and password/firewall protected portal to homeland security data and related geospatial layers. <u>Homeland Security</u>: <u>Participation of personnel from MSDIS on data development and QA/QC.</u>

Current Status: Ongoing

1st Period February, 2014 – July, 2014 comments – Support continues... The new "Tall Structures" data being digitized at MSDIS\GRC will enhance this effort.

2nd Period August, 2014 – January, 2015 comments – Structures data sets are now up and available for download on MSDIS FTP and through the Portal.

Other MSDIS quarterly activities that contribute to MGISAC Strategic Plan outcomes...

Outreach / Education / Training

Support the MGISAC to expand the visibility and understanding of the committee's work within Missouri.

1st Period February, 2014 – July, 2014 comments – Attended and presented at Northeast Regional Workshop. MSDIS staff presented and\or instructed at the 2014 MAGIC Symposium and MOMappers Conference. Scheduled to present at the Kansas Association of Mappers in October, 2014.

2nd Period August, 2014 – January, 2015 comments – Attended and presented at the annual SEMO Symposium and later LiDAR Workshop. MSDIS staff presented and\or instructed at the 2014 MAGIC Clearinghouse Summit and the 2014 KAM Conference.

Encourage use of GIS technology and geographic data resources across all levels of state government by providing practical support to new and established users.

List server Users

1st Period 2013 comments -

GIS Vendors @ 21 KCAIUG-Announce @ 272 KCAIUG-L @ 64 KCCCGG-L @ 12 LGOV-L @ 48 MAGIC_Public @ 434 MAGIC_Steering @ 29 MAGIC_Consortium @ 45 MAGIC_Executive @ 9 **MGISAC @ 135** MGISDATADEV @11 MISSOURIMAPPERSASSOC-L @ 36 MMGUG-L @ 111 MOGIS ADVISORY COUNCIL-L @ 32 MSDIS-NEWS @ 201 PONYEXPRESSGUG@ 17 STCHGISUG-L @ 49 STLGIS-L @ 282 STLRIC-L @ 23

2nd Period August, 2014 – January, 2015 comments – GIS Vendors @ 20 KCAIUG-Announce @ 263 KCAIUG-L @ 63 KCCCGG-L @ 12 LGOV-L @ 46 MAGIC_Public @ 425 MAGIC_Steering @ 29 MAGIC_Consortium @ 48 MAGIC_Executive @ 9 MGISAC @ 141 MGISDATADEV @11 MISSOURIMAPPERSASSOC-L @ 37 MMGUG-L @ 106 MOGIS ADVISORY COUNCIL-L @ 33 MSDIS-NEWS @ 197 PONYEXPRESSGUG @ 15 STCHGISUG-L @ 59 STLGIS-L @ 288 STLRIC-L @ 20

Conference / meeting Participation:

1st Period February, 2014 – July, 2014 comments – MSDIS staff members attended numerous meetings during this period on the following topics:

MGISAC Strategic Planning Meetings (2) MGISAC Data Development Committee (1) **Outreach & Education Committee (Conference calls)** Mid-America Geographic Information Consortium (MAGIC) meetings & retreats (7) MSDIS Rolla Site Planning meetings (2) MO Broadband staff meetings (numerous) **GEOMAP** meetings 2014 MAGIC Clearinghouse Summit conference calls (planning) MACOG\RPC Broadband "Structures" project and report meetings MAGIC Grants Committee (review and award) Implementation meetings with MU DOIT ITSD Server maintenance and issues meetings FGDC Metadata Workgroup Conference calls (numerous) MAGIC 2014 Symposium (Kansas City) Northeast Regional GIS Workshop (presented) HuGeo meetings (numerous) Bi-Weekly Technical Exchange (NGA) Missouri Mappers Executive Committee meetings 2014 Missouri Mappers Conference planning meetings 2014 Missouri Mappers Conference RPC "Structures" project training meetings and site visits MU Cyber-infrastructure Meeting East-West Gateway Ecological Data - Storage and serving at MSDIS meetings and conference calls Research Data Alliance in Dublin, Ireland GeoInt, Tampa, FI

2nd Period August, 2014 – January, 2015 comments – MSDIS staff members attended numerous meetings during this period on the following topics:

Broadband Structures Progress Meetings (13) MOGISCON2015 meetings and phone conference (numerous) Outreach & Education Committee (Conference calls) Mid-America Geographic Information Consortium (MAGIC) meetings & retreats (8) MSDIS Virtual Server Conversion (3) GEOMAP meetings 2014-2015 MAGIC Clearinghouse Summit conference calls (planning X2) MAGIC Grants Committee (review and award) Implementation meetings with MU DOIT FGDC Metadata Workgroup Conference calls (numerous) FGDC GIS Inventory Training (webinar) MAGIC 2014 GIS Clearinghouse Summit (Champaign, IL) Southeast (SEMO) Symposium (September) SEMO LiDAR Workshop (November) Kansas Association of Mappers Conference (October) HuGeo meetings (numerous) Bi-Weekly Technical Exchange (NGA) Missouri Mappers Executive Committee meetings MU Cyber-infrastructure Meeting GeoInt, Tampa, FI Structures Final Report to the RPC Director's meeting (November) GIS Day Event (MST Springfield) – November)

Continue maintenance and publishing of an inventory of data holdings available at the MSDIS.

1st Period February, 2014 – July, 2014 comments –

Wednesday August 20th, 2014 The July 2014 MODOT data are available to all MSDIS users. Updates are provided to MSDIS by MODOT on a quarterly basis.

Click to download the "Raw" unparsed data in file geodatabase format.

Also available as a web map service here:

/ArcGIS/rest/services/MoDOT_Roads_Quarterly/MoDOT_Roads_Quarterly_July_2014_WMS/MapServer

Wednesday, August 13, 2014 Missouri Dept. of Natural Resources has released updated data depicting locations of samples on streams that were collected for aquatic invertebrate analysis.

These new data can be found here:

ftp://msdis.missouri.edu/pub/Environment_Conservation/MO_2014_Invertebrate_Monitoring_Locations_shp.zip

NOTE: These data replace the older data MO_2013_Invertebrate_Monitoring_Locations_shp.zip which have been removed from MSDIS.

Wednesday July 16, 2014

Missouri Dept. of Natural Resources has released updated data set depicting the locations of active Underground Storage Tanks and Leaking Underground Storage Tank facilities in Missouri.

These updated data replace older data named, MO_2010_Below_Ground_Tanks_shp.zip, which have been removed from MSDIS. These updated and renamed data can be found here:

ttp://msdis.missouri.edu/pub/Facilities Structures/MO 2014 Below Ground Tanks shp.zip

Wednesday June 25, 2014 The East-West Gateway regional council of governments has released 6 new data sets as follows:

MO_2010_East_West_Gateway_Regional_Ecological_Significance_shp.zip MO_2012_East_West_Gateway_Wetlands_shp.zip MO_2010_East_West_Gateway_Current_Vegetation_shp.zip MO_2010_East_West_Gateway_Project_Level_Ecological_Significance_shp.zip MO_2012_East_West_Gateway_Wetland_Restoration_Rank_gdb.zip MO_2012_East_West_Gateway_Wetland_Importance_gdb.zip Wednesday June 25, 2014

Missouri Department of Economic Development has released new data depicting Enhanced Enterprise Zone Boundaries for the year 2000

MO 2000 Enhanced Enterprise Zone Boundaries shp.zip

Wednesday, April 23rd, 2014 Missouri Department of Natural Resources has released two updated data sets as follows:

MO 2014 Alluvium Deposits shp.zip - Alluvium deposits in the floodplains of the State of Missouri.

MO 2014 Certified Wells shp.zip - Provides information about wells that are certified by the State of Missouri.

These files replace MO_2012_Certified_Wells_shp.zip and MO_2006_Alluvium_Deposits_shp.zip which have been removed from MSDIS.

Wednesday March 11th, 2014

Missouri Dept. of Natural Resources has released nine new data sets depicting subsurface temperatures in various geologic formations and aquifers.

These new data can be found here:

<u>ftp://msdis.missouri.edu/pub/Geological Geophysical/MO 2014 Thermoclines Basement Confining Unit shp.zip</u>: This data set depicts temperatures in Precambrian basement rocks.

<u>ftp://msdis.missouri.edu/pub/Geological Geophysical/MO 2014 Thermoclines Ozark Aquifer shp.zip</u>: This data set depicts temperatures in the Ozark Aquifer.

<u>ftp://msdis.missouri.edu/pub/Geological Geophysical/MO 2014 Thermoclines Ozark Confining Unit shp.zip</u>: This data set depicts temperatures in the Ozark confining unit.

<u>ftp://msdis.missouri.edu/pub/Geological_Geophysical/MO_2014_Thermoclines_PostPaleo_Bootheel_Alluvium_shp.zi</u> <u>p</u>: This data set depicts temperatures in post-Paleozoic sediments (bootheel alluvium).

<u>ftp://msdis.missouri.edu/pub/Geological_Geophysical/MO_2014_Thermoclines_PostPaleo_Glacial_Till_shp.zip</u>: This data set depicts temperatures in post-Paleozoic sediments (glacial till).

<u>htp://msdis.missouri.edu/pub/Geological Geophysical/MO 2014 Thermoclines Springfield Plateau Aquifer shp.zip</u>: This data set depicts temperatures in the Springfield Plateau Aquifer.

<u>ftp://msdis.missouri.edu/pub/Geological Geophysical/MO 2014 Thermoclines StFrancois Aquifer shp.zip</u>: This data set depicts temperatures in the St. Francois Aquifer.

<u>ftp://msdis.missouri.edu/pub/Geological Geophysical/MO 2014 Thermoclines StFrancois Confining Unit shp.zip</u>: This data set depicts temperatures in the St. Francois confining unit.

<u>ftp://msdis.missouri.edu/pub/Geological_Geophysical/MO_2014_Thermoclines_WestInterior_Plains_Confining_Sys_shp.zip</u>: This data set depicts temperatures in the Western Interior Plains confining system.

Friday, March 7th, 2014

The datasets depicting two school entities have been updated.

These updated data can be found here:

<u>ftp://msdis.missouri.edu/pub/Facilities_Structures/MO_2013_Public_Disabled_Schools_shp.zip</u> <u>ftp://msdis.missouri.edu/pub/Facilities_Structures/MO_2013_Private_Schools_shp.zip</u>

Thursday March 6th, 2014

Missouri Dept. of Natural Resources has released two new data sets depicting locations of well cores and well cuttings that are warehoused at the Missouri Geological Survey.

These new data can be found here:

<u>ftp://msdis.missouri.edu/pub/Geological Geophysical/MO 2014 Well Cores shp.zip</u>This data set depicts locations of well cores that are warehoused at the Missouri Geological Survey.

<u>ftp://msdis.missouri.edu/pub/Geological_Geophysical/MO_2014_Well_Cuttings_shp.zip</u> This data set depicts locations of well cuttings that are warehoused at the Missouri Geological Survey.

Thursday February 27th, 2014

The February 2014 MODOT data are available to all MSDIS users. Updates are provided to MSDIS by MODOT on a quarterly basis.

Click to download the "Raw" unparsed data in file geodatabase format.

Also available as a web map service here:

/ArcGIS/rest/services/MoDOT_Roads_Quarterly_February_2014_WMS/MapServer

Thursday, February 27th, 2014 The public school districts data have been updated and renamed with annual timestamp.

These updated data can be found here:

ttp://msdis.missouri.edu/pub/Facilities Structures/MO 2013 Public Schools shp.zip

The Metadata only dataset depicting Long Term Care Facilities and Day Care Facilities have been updated.

These updated metadata can be found here:

<u>ftp://msdis.missouri.edu/pub/metadata_gos/MO_2013_Long_Term_Care_Facilities_shp.xml</u> <u>ftp://msdis.missouri.edu/pub/metadata_gos/MO_2013_Day_Care_Facilities_shp.xml</u>

2nd Period August, 2014 – January, 2015 comments –

Wednesday January 21st, 2015

Missouri Department of Natural Resources has released one new data set. This data set contains a collection of bedrock geologic maps produced at a scale of 1:24,000.

MO 2014 Bedrock 24K shp.zip

These data were formally named MO_2011_Bedrock_24K_shp.zip which have been removed from MSDIS at MoDNR request.

Wednesday January 21st, 2015

Missouri Department of Natural Resources has released one new data set. This data set depicts stream segments classified as either losing or gaining by the Missouri Department of Natural Resources (DNR), Missouri Geological Survey (MGS). Classification is dependent on the change in flow rate over a set distance at the time of the site visit.

MO_2014_Losing_and_Gaining_Stream_Segments_shp.zip

These data were formally named MO_2013_Losing_and_Gaining_Stream_Segments_shp.zip which have been removed from MSDIS at MoDNR request.

Wednesday January 14th, 2015

Missouri Department of Natural Resources has released one new data set. This data set contains permitted oil and gas wells within the State of Missouri that are not protected under confidentiality rules.

MO 2014 State Permitted Oil and Gas Wells shp.zip

These data were formally named MO_2012_State_Permitted_Oil_and_Gas_Wells_shp.zip which have been removed from MSDIS at MoDNR request.

Wednesday January 7th, 2015 Missouri Department of Natural Resources has released updated data depicting the overburden thickness or depth to bedrock in the State of Missouri.

MO 2015 Depth to Bedrock shp.zip

Wednesday December 24th, 2014 Missouri Department of Natural Resources has released updated data depicting the locations of regulated and non-regulated dams in Missouri.

MO 2014 Dams shp.zip

These data were formally named MO_2010_Dams_shp.zip which have been removed from MSDIS at MoDNR request.

Friday December 19th, 2014 The December 2015 MODOT data are available to all MSDIS users. Updates are provided to MSDIS by MODOT on a quarterly basis.

Click to download the "Raw" unparsed data in file geodatabase format.

Web map service coming soon:

Thursday December 18th, 2014

The <u>Geographic Resources Center</u> has released new data for the <u>Missouri Structures Project</u>. These data consists of categorized points and footprints for every building in Missouri - over 5 million features in total. These data are organized by county and type i.e. Footprints or Points.

A description page and linked index can be found here: http://www.grc.missouri.edu/bbstructures.html

These data can be downloaded here: ftp://msdis.missouri.edu/pub/Facilities_Structures/

Friday December 12, 2014

Missouri Department of Natural Resources has released updated data containing a partial inventory of mines, occurrences, and prospects for the State of Missouri.

MO_2014_Inventory_of_Mines_Occurences_and_Prospects_shp.zip

These data were formally named MO_2008_Inventory_of_Mines_Occurences_and_Prospects_shp.zip which have been removed from MSDIS at MoDNR request.

Monday December 8th, 2014

The USDA Farm Services Agency Aerial Photography Field Office has released the 2014 National Agricultural Imagery Program photography for the State of Missouri. The imagery now available from MSDIS as countywide files in zipped MrSID format.

A description page and linked index can be found here: http://www.msdis.missouri.edu/data/naip2014/index.html

These data can be downloaded here: <u>ftp://msdis.missouri.edu/pub/Imagery_Base_Maps/naip2014/county_mrsid/</u>

Monday December 01, 2014 Missouri Department of Natural Resources has released updated data. This data set contains a collection of bedrock geologic maps produced at a scale of 1:100,000.

MO 2014 Bedrock 100K shp.zip

These data were formally named MO_2011_Bedrock_100K_shp.zip which have been removed from MSDIS at MoDNR request.

Thursday November 20, 2014

Missouri Department of Natural Resources has released updated data. This data set provides information about wells in the State of Missouri. The parent data set is the Wellhead Information Management System (WIMS) database that is maintained by the Missouri Department of Natural Resources (DNR), Missouri Geological Survey (MGS), Geological Survey Program (GSP), Wellhead Protection Section (WHP). The WIMS database resulted from implementation of the Water Well Drillers Law of 1985. The information about well location, well ownership, well completion date, well construction, well yield, static water level, and borehole stratigraphy was provided by well drillers as required by state statute RSMo 256.600-256.640. Wells drilled prior to July of 1987 are not included in this data set. A new WIMS Well Search is also available online at http://dnr.mo.gov/mowells/publicLanding.do.

MO_2014_Wells_shp.zip

These data were formally named MO_2014_Certified_Wells_shp.zip which have been removed from MSDIS at MoDNR request.

Friday November 14, 2014 Missouri Department of Natural Resources has released four updated data sets as follows:

MO_2014_Below_Ground_Tanks_shp.zip MO_2014_WQS_Stream_Classifications_and_Use_shp.zip MO_2014_Sinkholes_shp.zip MO_2014_WQS_Lake_Classifications_and_Use_shp.zip

These data were formally named as follows:

MO_2009_WQS_Stream_Classifications_and_Use_shp.zip MO_2010_Sinkholes_shp.zip MO_2009_WQS_Lake_Classifications_and_Use_shp.zip

Older data have been removed from MSDIS.

Wednesday October 24, 2014

Missouri Department of Natural Resources has released new data depicting glades throughout the State of Missouri.

MO 2014 Natural Glades shp.zip

Wednesday October 15, 2014

Missouri Department of Natural Resources has released updated data depicting names, locations and additional data for active Industrial Mineral Mines permitted with the Missouri Department of Natural Resources, Division of Environmental Quality, Land Reclamation Program. Industrial Mineral Mines permitted are rock quarries, clay pits, sand and gravel pits, or in-stream sand and gravel operations.

MO_2014_Industrial_Mineral_Mines_shp.zip

These data were formally named MO_2008_Industrial_Mineral_Mines_shp.zip which have been removed from MSDIS at MoDNR request.

Wednesday September 24, 2014

Missouri Department of Natural Resources has released new data depicting glades throughout the State of Missouri.

MO 2014 Natural Glades shp.zip

Thursday September 18th, 2014 The September 2014 MODOT data are available to all MSDIS users. Updates are provided to MSDIS by MODOT on a quarterly basis.

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Also available as a web map service here:

/ArcGIS/rest/services/MoDOT_Roads_Quarterly/MoDOT_Roads_Quarterly_September_2014_WMS/MapServer

Wednesday August 20th, 2014 The July 2014 MODOT data are available to all MSDIS users. Updates are provided to MSDIS by MODOT on a quarterly basis.

Click to download the "Raw" unparsed data in file geodatabase format.

Also available as a web map service here:

/ArcGIS/rest/services/MoDOT_Roads_Quarterly/MoDOT_Roads_Quarterly_July_2014_WMS/MapServer

Wednesday, August 13, 2014

Missouri Dept. of Natural Resources has released updated data depicting locations of samples on streams that were collected for aquatic invertebrate analysis.

These new data can be found here:

ftp://msdis.missouri.edu/pub/Environment_Conservation/MO_2014_Invertebrate_Monitoring_Locations_shp.zip

NOTE: These data replace the older data MO_2013_Invertebrate_Monitoring_Locations_shp.zip which have been removed from MSDIS.

To the extent possible increase the amount of MSDIS activities (data development, clearinghouse functionality, hardware costs, etc.) funded by alternative sources.

MOCAP / National Map and other projects...

1st Period February, 2014 - July, 2014 comments -

MSDIS staff completed the Kansas Counties (Atchison and Doniphan) that MoKan requested us to complete for them so that they would have a complete "Structures" fabric for their Regional Planning Commission.

2nd Period August, 2014 – January, 2015 comments – MSDIS staff have been partially subsidized by the Broadband Now stimulus project – as this reporting period comes to an end - so does the stimulus project.

<u>Management</u>

Provide for review of MSDIS operations and budget.

1st Period February, 2014 – July, 2014 comments – Annual MSDIS (FY13) fiscal report is attached.

2nd Period August, 2014 – January, 2015 comments – An annual MSDIS budget report will be available – as scheduled – with the next report in August.

Maintenance and development of the MSDIS computing environment for the support of the clearinghouse function and provision of security and continuity for MSDIS functionality.

1st Period February, 2014 – July, 2014 comments – The Rolla site now supports MSDISIMAGERY-MST and MSDISWEB-MST is within days of being available for internal testing – the last remaining services are being built as this report is being written, Martin is working on testing a new FTP application - with results soon to follow.

2nd Period August, 2014 – January, 2015 comments – Rolla tested out satisfactorily – staff are in the process of a virtualization of the TC Servers (both Imagery and Web) – North Node (NN) is still prime with Rolla (MST) as fail-over.