



networkMaryland™ Advisory Group
April, 2011
45 Calvert Street
Annapolis, Maryland



Attendees:

Advisory Group

Richard Aldridge
Paul Thorn
Michael Springfield
John Gallagher
Sidney Drake
Chuck Bristow

Guest

Ron Ward
Brent Pulsipher
Fred Smith
Rick Smith
Art Ray
Mike Brown

DoIT

Greg Urban
Jean Boyer
Gary Moulton
Cheryl Lincoln

• Welcome & Introductions

- Greg Urban called the meeting to order.

• Introductions

- Gregory Urban – Director, networkMaryland™
 - Quorum established
- Introduction of the networkMaryland™ team
- Introduction of guests/visitors

• New Business

- Resource Shares
 - NWT – state fiber for 10,000 sq ft data center in Cumberland
 - MdBC – state fiber for MdBC fiber on E. Shore and fiber services (9 yr agreement)
- Internet Capacity
 - Upgraded to 2.4 Gbps aggregate
 - Working with Level3 to increase another 2 Gbps with terms from the RSA (access at McLean, VA and 300 W. Lexington). Rates are very attractive. 300 W. Lexington will give NMD access to Level 3 meet-me and also give MAX ring for higher education net (redundancy)
- Baltimore & Annapolis fiber
 - Plant clean up in each MAN
 - 6 St Paul/WTC completed
 - General Services Building and ADC in process
 - 300 W. Lexington (Level3 & UMB) in process
 - Metro augmentations in process
 - MDA/MVA cooperative with Anne Arundel County
 - Discussion by Group regarding options for where to haul back subscriber conns to which POP (Riva? Parole? ADC?)

- MdBC Eastern Shore interconnect coming into Annapolis near Naval Academy – easement with Federal Government slowing things down. Chuck mentioned that agreement with MdBC expires in August.

- **State of the Network**

- New Subscribers
 - MCAC
 - Chuck mentioned they are only using for ISP and SwGI but not yet using SwGI to interconnecting to MDTA for License Plate Reader data. MDOT strongly encouraging to use SwGI.
- Provisioning
 - All 3 services continue to grow in demand.
- Virtual Private Routed Network (VPRN)
 - Quality of Service (QoS) is being developed
 - DoIT and DORS successfully using VPRN
 - DHR has started VPRN implementation
 - DPSCS is in the design phase with some deployments.
- Bundled Services Offering (ISP/SwGI)
 - 50 Mbps ISP/50 Mbps SwGI with a copper 10/100Mbps port -\$15K/year
 - 100 Mbps ISP/100 Mbps SwGI with 2 fiber 1 Gbps ports (active/standby) - \$25k/year
 - 200 Mbps ISP/200 Mbps SwGI with 2 fiber 1 Gbps ports (active/standby) - \$45k/year
 - Two subscribers have requested 500 Mbps service
 - Revenue is higher this year than costs, thus DoIT will apply a rebate to the end of the cycle invoices.
- Reviewed Performance Standards and Service Levels
 - Performance has increased overall
 - No Severity 1 tickets in March

- **Status of Project**

- Ethernet Everywhere
 - ISG6000 installations complete
 - Each LATA has at least one OC3 installed
 - Second OC3s being installed in Central and Western LATAs
 - Verizon has been mandated to complete all standing orders by June 30, 2011
 - DoIT has mandated an end-to-end test procedure for Verizon to follow
 - Verizon has assigned a new Project Manager from their Customer Care Organization
 - Concerns with Verizon’s ability to complete installations timely given challenges within their corporation
 - Ron expressed concern about the time to bring a services into production once Verizon has completed their work. It is expected that the final provisioning will take no more than one to two weeks, a few days in most cases.
- OMBN
 - NTIA site survey completed
 - FONSI received 4/18 – Environmental Assessment done; construction can begin
 - Equipment purchases and construction proceeding

- Calvert/Charles/St Mary's engineering work started
 - Wicomico/Worcester engineering to be released this month
 - Western counties pending pole agreements
 - New routers will architect the separation of core and edge areas of the network
- Pole Agreements
 - Verizon – completed
 - Allegany Power
 - BGE – Howard County leading negotiations
 - Delmarva Power
- *Request for Engineering sub-committee to be involved network architecture review – Cheryl Lincoln attends meetings with sub-committee regularly.*
- *Inquiry regarding County ownership of fiber resources and potential fees involved for usage – some plant will be handed over (schools, County Government locations, etc.); however, State can't just give it away w/o recovering some costs (Miss Utility/break/fix, etc.). Each County will be case-by-case basis – some counties have shared infrastructures (e.g. CCPN, WCPN), other counties have separate nets for County Entities (e.g. Charles County Gov vs Charles County Schools)*
- Cabling and Wireless Contract
 - Expires this year.
 - DoIT will release a new contract to cover OMBN
- ATM Decommission
 - Deadline to be extended to end of FY2013
- Network Resiliency
 - Dedicated routers – completed
 - Move Layer 3 terminations off of core routers – OMBN facilitating process
- Multicast over SwGI
 - Deployment planned for May 2011
- Akamai
 - Reduced ISP load by approximately 25%
- Metropolitan Area Networks
 - Frederick - No change in status
 - Cambridge – Challenges working with BCC
- Fiber Projects
 - Eastern Shore
 - 12 strands received
 - Easton and Cambridge on fiber
 - Princess Ann and Elkton next priority
 - Pikesville
 - Progressing on MD140
 - Hagerstown
 - DPSCS MCTC facility will be covered under OMBN
 - Fiber Documentation and Mapping

- Hagerstown – Completed
- Baltimore City – Completed
- Level 3 Backbone – MdBC to complete as part of the RSA (2 years to complete)
- *Request for all 48 State fiber projects to be documented – confirmed as part of the overall plan.*

- **Other Business**

- Dick Aldridge is retiring from Charles County
- UMATS is now MDREN (Maryland Education and Research Network)
- Engineering Committee meeting
 - Monday, July 11th @ 1:30p.m.
 - Location: UMBC Technology Center
- **Next Advisory Group meeting**
 - Tuesday, July 19th
 - Location: 45 Calvert St, Rm 164A/B

- **Closing Questions or Comments**

- **Meeting adjourned**