



networkMaryland™ Advisory Group  
July 15, 2008  
45 Calvert Street  
Annapolis, Maryland



**Attendees:**

**Advisory Group**

Sidney Drake  
Ron Brothers  
Pat Wallace  
Ron Ward  
Mike Springfield  
John Gallagher  
Inna Young  
Mike Brown  
Norwin Malmberg

**Guest**

Ed Quattrone  
Greg Faries  
Dan Vestal  
Ryan Whipp

**DBM**

Greg Urban  
Tim Kwong  
Gary Moulton  
Cheryl Lincoln

## Welcome & Introductions

- Greg Urban called the meeting to order at 10:02 a.m.
- Guests introduced themselves: Ed Quattrone (Verizon), Greg Faries (PTG), Dan Vestal (ARINC), Ryan Whipp (Juniper)

## New Business

- Retirement Announcement – Pat Wallace
  - Retired from State Service
  
- Meeting Minutes Approval May 2008
  - Ron Ward made motion to approve
  - Seconded by Norwin Malmberg
  - None opposed
  - Minutes unanimously approved as written.
  
- Transition
  - NOC fully transitioned to PTG
  - All circuit provisioning assigned to PTG
  - Projects are re-engaging
  - Everything has been migrated over to the new operations center which is handling all of the tickets.
  - The NOC is up to speed on resolving all the outages and the issues in the network. They are getting all the monitoring tools configured and are getting pretty comfortable.
  - In time, the NOC will no longer will rely on Engineers on call to resolve problems.
  - In June there was no circuit provisioning due to direction from the networkMaryland™ program office. The focus was stabilizing operations with no service impact to the customers. We are now on track provisioning new orders.
  - There has been little progress on Major projects as they have just been recently reengaged.
  
- On July 1 the Office of Information Technology split from DBM and became a new state agency called the Department of Information Technology (DoIT)
  - Our new website address is: [doit.maryland.gov](http://doit.maryland.gov)
  - Elliot Schlanger will be the Secretary.
  - There is no Deputy Secretary at this time.
  - There is no change in personnel
  - DoIT is in charge of statewide IT procurements
  - Groups now under DoIT
    - Statewide IT procurement
    - The Project Management Office
    - Major Project Fund
    - Networks Division (Including networkMaryland™)
    - Web Systems

- Enterprise Information Systems
- Mainframe group / Personnel system
- Governor's office support
- State Help Desk
- There will be a focus on centralizing some services and network Maryland™ will have a role in that.
- Agencies will continue to manage their own infrastructures.
- DoIT will be setting standards and policies.

### **State of the Network (Presented by Tim Kwong)**

- Operational Subscribers
  - 76 Operational Subscribers (+0)
- Circuit Breakdown
  - 83 ISP Circuits (+0)
  - 88 SwGI Circuits (+1)
  - 1395 Layer 2 Circuits (+66)
  - 10 VPN Subscriber Connections (+0)
- Subscriber Provisioning
  - 24 circuits are currently in the subscriber's testing/implementation phase
  - 34 new circuits have been provisioned since the last meeting
  - 7 circuits have been accepted by the subscriber since the last meeting

### **Installed Circuits**

- We have approximately 40 circuits pending acceptance.

### **Executive Branch**

- There are still a healthy amount of request being submitted.
- 17 Executive Branch Agencies are receiving new services.

### **Non-Executive Branch**

- 6 Non Executive Branch Agencies are receiving new services.

### **Non-State Customers**

- Changes have been sparse.

### **New Provisioning Activity**

- Ethernet Everywhere: Demand is huge!
  - MDOT(MTA) & MSDE: Ethernet Everywhere service active at Gaithersburg & Baltimore
  - Lots of Agencies have inquired about the services and have submitted WAN requests for the service.
- MSP: Continued migration off of DPSCS's backbone, 5 new provisioning requests
- Maryland Insurance Administration: Moving to 200 St. Paul Place. Likely to be another BMAN PoP. (We have fiber connecting this building to 6 St. Paul)
- DHR: Discussions on connecting to their data center at 1100 Eastern Blvd.
  - Interested in Ethernet Everywhere.

- Wants a dual setup, main data center at 311 W. Saratoga and their secondary data center at 1100 Eastern Blvd.
- Denton MSC: The fiber repair in Denton just completed last week. This allows us to go forward with provisioning for our on-net subscribers in our Denton area subscribers. Provisioning has begun.
- Salisbury MSC: Started provisioning new on-net circuits
- Frederick County: Discussions on a diverse ISP connection

### **Operations**

- Maintenance and Support contracts for FY2009 are in place
- POP hardware to terminate Ethernet Everywhere deployments installed at 6 St. Paul. The DS 3 has finished testing. It's just a matter of further configuration of the platform.
- Operational Improvements
  - Dorado Implementation in place
  - Next steps: Training the staff and creating operating procedures

### **Project Status (Presented by Gregory Urban)**

- Migration from ATM to Native IP
  - Phase I: AMAN - \*Completed\*
  - Phase II: UMCP/Annapolis/Baltimore core – \*Completed\*
  - Phase III: Western Maryland – \*Completed\*
  - Phase IV: Southern Maryland – \*Completed\*
  - Phase V: MultiService Centers – September 2008
    - Design completed
  - Phase VI: Last Mile (FRASI Replacement) – t.b.d.
  - MPLS Provisioning Software
  - Dorado Redcell – Software is ready for use. Next step: Training and Operational Procedures.
- BMAN Upgrade
  - Create architecture consistent with AMAN
  - Phase I: Refresh edge switches - \*Completed\*
    - Replace Cisco 4006 with Cisco 3750 Metro
  - Phase II: Refresh distribution switches – \*Completed\*
    - Replace Cisco 7609 with Cisco ME3400
  - Phase III: Redesign of core – t.b.d.
    - Reduce dependency on 6 St. Paul
    - Increase presence at 301 W. Preston for connectivity to core
      - We wanted to add some additional redundancy in Baltimore. This helps to reduce our exposure 6 St Paul.
- World Trade Center
  - New PoP established initially to support DBED
  - Fiber connected to BMAN (6 St. Paul)
  - Building redundant fiber connection to building
- CHART Video
  - Working with CHART to distribute video feeds to non-MDOT

- subscribers
  - Requires multi-cast capabilities for SWGI
- Cambridge MAN (No status change)
  - Serve 17 agency connections
  - PMP completed and approved
  - Equipment has been received
  - Fiber installation in progress by Bay Country Communications
- Frederick MAN
  - Terminate fiber at the Frederick Health Department Bldg
  - Build a diverse fiber path to the city.
  - Dual connect Frederick to UMCP/Hagerstown

### Network Overview

- We have accepted the Denton MAN – it is completed.

### Other Projects

- St. Mary's County
  - Receive one pair of fiber from Leonardtown MSC to US301 connecting to La Plata via Level 3 fiber.
  - Construction connecting State & Metrocast fiber on hold pending a new work order under the Cable and Wiring Master Contract.
- Pikesville
  - Working with MSP, DPSCS, Baltimore County, and Baltimore City Police to build fiber along Reisterstown Road in the Pikesville Area
  - Still in planning / feasibility analysis. The plan is for about 10 sites that are along Reisterstown Road. This would include a couple DPSCS sites, State Police, County Fire houses and Libraries and work together to do the project to help defer the cost.
- Ethernet Everywhere
  - Service is ready for general availability in Baltimore & Western MD LATAs
  - Roll out of service on the Eastern Shore underway
  - Every channel assignment in Baltimore has been spoken for. We are prepared to put the second order in.
  - One of the things that slowed us down is Verizon. They would not allow us to order the T1s until the DS3 was accepted nor would they do any of the engineering.
- Fibergate Resource Sharing Agreement
  - Additional fiber in Montgomery County, Prince George's County, and Fort Detrick area
  - Agreement being reviewed by MDOT

**Question:** *Will Ethernet Everywhere be the only thing we (networkMaryland<sup>TM</sup>) do?*

**Answer:** I'm not sure. It's going to be a replacement for FRASI for sure. There may still be a need for some low speed sites. We are still trying to stay flexible.

- MPLS to the edge
  - The next step is for us to do deployment of MPLS out to the customer edge. We welcome any experiences or information from the members on potential hardware, performance considerations, or architecture. We will use the technical committee to vet out potential hardware solutions.

**Other Business**

- Elliot Schlanger addressed the group, thanking them for their continued support and in their role making networkMaryland™ a successful multi-agency project.
- The next networkMaryland™ Engineering Committee meeting:
  - August 11th, 2008, 1:30 PM @ UMBC Technology Center
  - Merged with UMATS engineering meeting
- Closing Questions or Comments

**Gregory Urban adjourned the meeting at 10:33 a.m.**