

networkMaryland™ Advisory Group  
March 18, 2008  
45 Calvert Street  
Annapolis, Maryland



**Attendees:**

**Advisory Group**

Sidney Drake  
Ron Brothers  
Chuck Bristow  
Norwin Malmberg  
Pat Wallace  
Ron Ward  
Elliot Schlanger

**Guest**

Jason Ross  
Ed Quattrone  
Greg Faries  
Peter Chakales  
Robert Bowman  
Nisman Williams  
Paul Lennon

**DBM**

Greg Urban  
Tim Kwong  
Gary Moulton  
Cheryl Lincoln  
Tia Johnson

## **Welcome & Introductions**

- Greg Urban called meeting to order at 10:09 a.m.
- Greg introduced himself, Tim Kwong, Gary Moulton, Cheryl Lincoln and Tia Johnson. He introduced Elliot Schlanger, the new State CIT.

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

### **Managed Serviced Contract**

- Performance Technology Group (PTG) Selected
  - The NOC number will change but it will not happen in the future
    - networkMaryland™ now has it's own toll-free number
  - PTG has more dedicated O&M staff.
  - networkMaryland™ can now focus more on engineering with PTG
  - The cut over is planned for mid-May.
  - The transition plan has been defined (at a high level). Details will be added once the plan is mapped out.
- CSC and PTG may be working in tandem during the transition period.

### **Operational Customers**

- There are 74 subscribers as of today, including
  - 82 ISP circuits, an increase of one since the last meeting
  - 89 SwGI circuits, representing no change
  - 1245 layer 2 circuits
    - Recent activity from MD State Police helped get the number of L2 circuits over the 1200 mark
  - 10 VPN connections (no change)

### **Customer Provisioning**

- 36 circuits are currently in customer's testing/implementation phase
- 68 new circuits have been provisioned since the last meeting
- 150 circuits have been accepted by customers since last meeting.

### **Growth Chart**

- We are over 1200 circuits.

### **Executive Branch**

- We are still getting plenty of WAN requests.
- There have been quite a few changes to this group of users, denoted by red asterisks provided on the handouts.

### **Non Executive Branch**

- There have been some changes to this group of users, denoted by red asterisks provided on the handouts.

### **Non-State Customers**

- Baltimore County and the WIC program are both in the process of receiving networkMaryland™ services (at the time).

### **Operations**

- New Subscribers and Services

- *DBED*: Preparation for move to World Trade Center
- *OAG*: Upgraded Internet service & SwGI via fiber connection between their office & 6 St. Paul.
- *MDOT(MTA) & MSDE*: Ethernet Everywhere service active at Gaithersburg & Baltimore
- *Register of Wills*: Centralization of Servers at ADC
- *DPSCS*: Fiber build-out at MRDCC (Maryland Reception, Diagnostic and Classification Center) in Baltimore completed. Successful turn-up.
- *MDA (Dept. of Agriculture)*: Transition to Internet service scheduled for next week.
- Consulting Services Engagements
  - *DPSCS*: turn up networkMaryland on-net connections. One of four sites completed. Anticipate completion in April.
  - *WCC*: migrated HQ connections from a leased line to fiber
  - *MSP*: migrate from *DPSCS*'s WAN (on-going)
  - *SBE*: syslog server setup (for security logging) completed.
  - *MSLA*: network integration with their key partner. Anticipate completion by end of April.
- Working with agencies to update WAN architecture
  - *MSP*
  - *DPSCS*
  - *MDOT*
  - *JUD/JIS*
- Operations Improvements
  - *ATM Switches*: Ericsson TNX-1100 ATM switches upgraded to most recent code revision.
  - *Firewall Logging*: Implementation of SYSLOG server for firewall logging completed
  - *Emergency Generator Maintenance*: New contract for 6 St. Paul and UMCP awarded to incumbent for 3 years
  - *MPLS Provisioning Tool*: Submitted as a Purchase Order Request for Proposal (PORFP), utilizing the new State Software Contract. Waiting for vendors to bid. Management tool selected (Dorado Red Cell)

**Project Status (Greg Urban)**

- Migration from ATM to Native IP Schedule
  - Phase I : AMAN - \*Completed\*
  - Phase II: UMCP/Annapolis/Baltimore core – \*Completed\*
  - Phase III: Western Maryland – \*Completed\*
  - Phase IV: Southern Maryland – May 2008
    - Parts ordered
    - Procurements are in process.

- Phase V: Multiservice Centers – September 2008
  - Design completed
  - Project pushed back due to transition.
- Selected software to provision circuits via MPLS
  - Dorado Redcell – Procurement in progress
- BMAN Upgrade
  - Create architecture consistent with AMAN
  - Phase I: Refresh edge switches - \*Completed\*
    - Replaced Cisco 4006 with Cisco 3750 Metro
    - Allows for appropriate enforcement of subscriber usage
      - Mostly Operational issues.
      - We can now police at each customer level.
  - Phase II: Refresh distribution switches – April 2008
    - Replace Cisco 7609 with Cisco ME3400
      - Helps with sparing and maintenance.
  - Phase III: Redesign of core – T.B.D.
    - We would like to split up services.
    - CSC is to come up with a high level design.
  - Towson POP
    - Completed
    - In process of provisioning Baltimore County
      - SwGI and ISP free with MOU.
  - Salisbury MSC
    - Completed March 2008
    - Initially connected to network via leased line
    - No ATM deployed
    - Will prepare WAN request forms for subscribers to assist in transition from off-net leased services to on-net circuits
  - Denton MAN
    - Connects to the Eastern Shore microwave backbone
    - All equipment installed. Most fiber properly terminated.
    - Presence at the County Data Center established in the telecommunications room
    - Prepared WAN request forms for subscribers to assist in transition from off-net leased services to on-net circuits
  - World Trade Center
    - New PoP to be established initially to support DBED
    - Fiber connected to BMAN (6 St. Paul)
  - 200 Saint Paul Place
    - Fiber connected to backbone @ 6 St. Paul
    - Supports OAG 10 Mbps connection
      - Another State agency might move into the building

- Cambridge MAN (No status change)
  - Resource Share with Bay Country Communications
  - Install equipment in 4 buildings in Cambridge
  - Serve 17 agency connections
  - PMP completed and approved
  - Equipment has been received
  - Fiber installation in progress
    - BCC had to get wetlands permits.
    - It was State fiber.
    - The State is exempt from wetlands fees.

### **networkMaryland™ Overview**

- Denton & Towson went from red to black to show completion.

### **Projects in Planning**

- Fiber Projects
  - St. Mary's County: Receive one pair of fiber from Leonardtown MSC to US301 connecting to LaPlata via Level 3 fiber.
  - Resource sharing agreement with Fibergate: Additional fiber in Montgomery County, Prince George's County, and to Fort Detrick. Agreement in legal review (DBM & SHA).
  - Frederick MAN: Add an additional POP in Frederick and build a diverse fiber path to the city. Partnership with Frederick County Government. Relies on Fibergate fiber

### **Additional Services**

- Ethernet Everywhere
  - Two pilot sites were successfully turned up in early March.
  - Third pilot site is still in progress.
    - No production date yet.
    - We've had a successful turn-up.
    - We ran into space issues with Verizon.
- Voice/Video/Data Convergence
  - DBM Voice Services now part of the Networks Division
  - Re-focus PBX trunking and VoIP projects
  - MDOT CHART program wants to distribute camera video via SwGI

### **Other Business**

- networkMaryland™ Engineering Committee meeting
  - April 14th, 2008, 1:30 PM @ UMBC Technology Center
  - Merged with UMATS engineering meeting

### **Meeting adjourned**

Greg Urban adjourned the meeting at 11:07 a.m.