

networkMaryland™ Advisory Group
January 15, 2008
Judiciary Education & Conference Center
Annapolis, Maryland



Attendees:

Advisory Group

Sidney Drake
Mike McCarty
Ron Brothers
John Gallagher
Chuck Bristow
Michael Springfield
Norwin Malmberg
Pat Wallace
Dick Aldridge
John Wasilisin
Mary Baykan

Guest

Jason Ross
Jerry Ryznar
Ron Ward
Ed Quattrone

DBM

Greg Urban
Tim Kwong
Gary Moulton
Cheryl Lincoln
Joanne Rusk

Welcome & Introductions

Greg Urban called meeting to order at 10:05 a.m.

Greg introduced himself, Tim Kwong, Gary Moulton, Cheryl Lincoln and Joanne Rusk. He said the reason Elliot Schlanger, the new State CIT, wasn't in attendance, was because there was a conflict on his calendar.

Greg then introduced the guests, along with John Wasilisin and Mike Springfield in attendance for Advisory Group members.

The Minutes of the November, 2007 meeting were approved. The September, 2007 Minutes were approved by email from members.

State of the Network (Tim Kwong)

Operational Customers

- There are 73 subscribers as of today, including
 - 80 ISP circuits, an increase of one since the last meeting
 - 87 SwGI circuits, representing no change
 - 1158 layer 2 circuits
 - 10 VPN connections (no change)

Customer Provisioning

80 circuits are currently in customer's testing/implementation phase
59 new circuits have been provisioned since the last meeting
29 circuits have been accepted by customers since last meeting.

Growth Chart

We are close to 1200 circuits.

Executive Branch

We are consistently receiving requests for upgrades, example, DBED in anticipation of their move to the World Trade Center.

There have been many changes to this group of users, as denoted by red asterisks.

Non Executive Branch

There have been quite a few changes to this group of users, denoted by red asterisks provided on the handouts.

Non-State Customers

Includes MD Public TV, Ocean City Government, Caroline County, Frederick County Governments.

Operations

- New Subscribers and Services
 - Maryland Public Television: Three DS3 circuits to extend broadcast from Hagerstown to Oakland
 - DBED: Preparation for move to World Trade Center (new Baltimore Man PoP at that facility)
 - OAG: Upgrading Internet service from 200 St. Paul Place to 6 St. Paul
 - MDOT & MSDE: Ethernet Everywhere service pilots at Gaithersburg, Cresaptown and Baltimore
 - Register of Wills: Centralization of Servers at ADC

- DPSCS: Fiber build-out at Maryland Reception, Diagnostic & Classification Center (MRDCC) in Baltimore will be a great cost savings
- Consulting Services Engagements
 - DPSCS: Turn up networkMD on-net connections
 - OPD: Turn up networkMD on-net connections
 - WCC: Migrate HQ connections from a leased line to fiber. Have leased services to migrate over to the network.
 - MSP: Migrate from DPSCS's WAN. This is a change to their technology.
 - SBE: Set up a syslog server for security logging of firewalls
 - MSLA: network integration with their key gaming partner
- Working with Agencies to update WAN architecture
 - MSP
 - DPSCS
 - MDOT
 - JUD/JIS
- Operations Improvements
 - DNS servers: Hardware installation at PoPs completed. Operation manual and procedures are being written
 - ATM Switches: Upgrading Ericsson software for TNX-1100 ATM switches to most recent code revision; anticipate more. Chuck Bristow asked why the ATM switches were being upgraded. The ATM switches at 6 St. Paul had software bugs that needed to be fixed; we intend to retire all ATM switches later on.
 - Firewall Logging: Implementation of Syslog server for firewall logging completed and is in operation
 - DC Power Plant Maintenance: New contract for 6 St. Paul and UMCP has been awarded to the incumbent, SEI DC Power.
 - MPLS Provisioning Tool: Evaluating MPLS circuit provisioning and management tool (Dorado product)

Project Status (Greg Urban)

- Migration from ATM to Native IP (is our number one project)
 - Completed UMCP/Annapolis/Baltimore Core
 - Completed Western Maryland (Gaithersburg, Frederick & Hagerstown)
 - Completed design for Southern Maryland
 - Creating design for MSCs and deciding which hardware to use
 - Evaluating software tool to replace Service on Data for circuit provisioning and management (subscribers won't have to participate)
- 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: We had anticipated January completion, but are putting equipment in LaPlata; thus anticipate a February completion date
- Phase V: Multiservice Centers: Anticipate June '08 completion
- Catonsville MSC
Completed
- Salisbury MSC
Waiting for product selection
Initially connect to network via leased line
PMP approved
DS3 clear channel circuit to Easton completed
No ATM deployed at this PoP (Will be the model for MSCs)
Expected completion in March '08
- Towson PoP
Will connect to backbone via the UMBC PoP
All fiber splicing has been completed
Equipment is ready for deployment
Completion is expected in January
No ATM will be deployed at this PoP.
This is over and above an MOU
- Denton MAN
Connects subscribers to the Eastern Shore microwave backbone
All equipment installed
Moving our presence in County Data Center to building's telecommunications room
Preparing WAN request forms for subscribers to assist in transition from off-net leased services to on-net circuits
- Cambridge MAN (no change since last meeting)
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 by Bay Country Communications is in progress

networkMaryland™ Overview

No changes

Projects in Planning

- BMAN Upgrade
 - Create architecture consistent with AMAN
 - Hardware refresh for edge switches
 - Replace CISCO 4006 with CISCO 3750 Metro
 - Allows appropriate enforcement of subscriber usage
 - Hardware refresh of distribution switches

- Replace CISCO 7609 with CISCO ME3400
- Connect MAN buildings to both 6 St. Paul and 301 W. Preston
- This is very dependent on 6 St. Paul; in Annapolis, we have diversity and want to have same in Baltimore: Layer3 at both locations
- Chuck Bristow asked if this had gone through the Engineering Committee. Greg Urban didn't know but promised to check.
- Mike McCarty noted that Bernet might want to establish a presence as well and thinks Bernet meets next week.
- Redesign of core
 - Reduce dependency on 6 St. Paul
 - Increase presence at 301 W. Preston
 - Mike McCarty expressed strong interest in the participation of this effort. He wants to discuss this at the next BERNET engineering meeting.
- Fiber Projects
 - St. Mary's County: Receive one pair of fiber from Leonardtown MSC to US 301, connecting to LaPlata and last mile subscriber access.
 - Resource sharing agreement with Fibergate: Additional fiber in Montgomery and Prince George's Counties and to Fort Detrick. Agreement and LPC letter posted.
 - 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.

Other Initiatives/Additional Services

- Agency CIOs will discuss their priorities for enterprise-wide, consolidated services at the next ITAC meeting, January 28.
- Discussions will attempt to prioritize initiative(s) to move forward:
 - Email
 - Video Conferencing
 - Remote Access
 - VoIP
 - LAN/WAN Support
 - Unified Messaging
- Ethernet Everywhere:
 - Product selection competed and procurement process begun
 - Three pilot sites in progress
 - Circuit orders have been placed and are nearing completion
- VoIP
 - Met with Verizon to discuss PBX requirements for trunking
 - Looking to engage DBM Telecom to re-energize project to trunk PBXs at MSCs in Westminster and Bel Air

- Rate Structure
 - Distributed Spread Sheets
 - These are the first rate changes since we started billing
 - Reduction in overall subscriber costs and bandwidth rates
 - Better alignment of costs and subscriber fees
 - Installation charges
 - Port charges
 - Introduction of new products and services
 - Ethernet Everywhere (includes the VZ circuit costs. Should be distance insensitive.)
 - Rate structure used to create agency budget allocations completed and posted online at www.networkmaryland.gov: FY 2009 Rates
 - Chuck Bristow asked if agencies had been notified. Yes, the rates are part of their budget process. Agencies should not have to have two separate networks
 - On networkMaryland, moves/additions/deletes are very costly
 - ISP services are lowering operational costs (a new contract is possible in September which will be ISP and Layer2 circuit related). Agencies will just pay for circuit connections.
 - Norwin Malmberg asked Greg Urban about the feasibility of a central data center. Greg sees merit to this.
 - The new rate structure goes into effect July 1, 2008

Other Business

- The Governor wants to create a Cabinet-level Department of Information Technology, and indications are that it will happen.
- Chuck Bristow said that he thought there had to be a legislative initiative for a July 1, 2008 Department of Information Technology (DoIT)
- It is not anticipated that there will be many large-scale changes in FY'09
- The networkMaryland Engineering Committee meeting:
 - February 11, 2008, 1:30 p.m. at UMBC Technology Center
 - Merged with the UMATS Engineering meeting

Meeting adjourned

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