networkMaryland™ Advisory Group
July 20, 2010
45 Calvert Street
Annapolis, Maryland 21401

Attendees:

Advisory Group	**Guest**	**DOIT**
Chuck Bristow	Jim Millette	Greg Urban
Sidney Drake	Paul Lennon	Jean Boyer
John Wood	Brent Pulspher	Gary Moulton
Michael Springfield	Joe Hafner	Cheryl Lincoln
Paul Thorn		Tia McCoy-Johnson

Welcome
- Introductions
- Gregory Urban: Deputy State CIO - Operations
- Guests/Visitors

New Business
- Meeting Minutes Approval
    - April 2010

- Announcements
    - Personnel
    - Jean Boyer : Operations Manager

New Business
- Product Roadmap
    - We are in the process of establishing dates for services that are in deployment and development, including
        - EE (multiple sites per LATA)
        - VPRN
        - Managed CPE
        - QoS
        - Security/Remote Access (as a service)
        - Diverse/Redundant data circuits

- Baltimore & Annapolis Fiber
    - "Clean up" fiber plant issues in each MAN

Meeting Agenda
- State of the Network

Operational Subscribers
- 76 Operational Subscribers: One new customer
    - Wicomico County

- Circuit Breakdown
    - 81 ISP Circuits (+3)
    - 82 SwGI Circuits (NC)
    - 1397 Layer 2 Circuits (+15)
    - 11 VPN Subscriber Connections (NC)
- 26 VPRN Circuits (+26)

Subscriber Provisioning
- 26 circuits are currently in the subscriber's testing/implementation phase

- 58 new circuits have been provisioned since the last meeting

- 45 circuits have been accepted by the subscriber since the last meeting

Installed Circuits
Executive Branch

Non-Executive Branch

Non-State Customers

New Provisioning Activity
- Virtual Private Routed Network (VPRN)
    – Private Layer 3 (IP) routed network
    – Allows "many to many" connections
    – QoS will be supported
    – SwGI was the "template" configuration
    – DOIT deployment completed
    – DORS deployment is completed
    – DHR deployment is underway
    – DPSCS limited deployment in design phase

Performance Standards & Service Levels – April 2010

Performance Standards & Service Levels – May 2010

Performance Standard & Service Levels – June 2010

Meeting Agenda
- Status of Project

Project Status
- Transition
    – We have re-engaged projects

- Ethernet Everywhere
    – We are at capacity in several POPs
    – Received two Overture 6000s
    – Established contract for OC-3s
    – Ordered OC-3s : anticipated delivery late August
    – Working on establishing multiple "hub" sites in each LATA

Project Status
- ARRA Round 2
    – DoIT submitted a round 2 application to cover the entire State

    – Working with consortium of counties (Inter County Broadband Network - ICBN) on broadband infrastructure deployment in central Maryland

    – Working with MdBC for deployment in rural counties

    – Project is in "due diligence". First round of review completed and project is moving to next phase. Anticipated notification by August 31st

Project Status
- Migration from ATM to Native IP
    – Phase VI: Last Mile (FRASI Replacement)
        - Agencies that have migrated: MDA, MSDE(DORS), DLLR(DUI)

- In progress: MSP

    – Phase VII: Direct ATM Connections
        - Completed: Montgomery County; DJS, MSP, DPSCS (ISP/SwGI)
        - In progress: DJS; DORS
        - In planning: DHR; MDOT; DHMH; WCC; DPSCS

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Project Status
- Network Resiliency Initiative : Separate service delivery from core
    – Dedicated routers for upstream ISP connectivity (Completed)
    – Move Layer3 terminations off core routers
        - UMCP: In progress
        - Baltimore: In progress
        - Deliver L3 services at 6 Saint Paul as an MSC: In progress
        - Deliver L3 services at 301 W Preston as an MSC: In progress
        - Direct fiber connected buildings in Baltimore @ 6 Saint Paul
        - Direct fiber connected buildings in Baltimore @ 301 W Preston
        - Hagerstown
        - Easton

Project Status
- Deployment of multi-cast capabilities on SWGI
    – Distribute CHART video feeds to non-MDOT subscribers
    – Established access to CHART application via SWGI
    – Distribute Flash video over SWGI (unicast): *completed*
    – Awaiting code fix for Juniper software bug.

- Akamai Agreement
    – Signed agreement with Akamai for caching servers located at UMCP
    – Hardware was delivered last week to Skyline
    – Expected completion by end of August

Project Status
- Frederick MAN
    – Build a diverse fiber path through Frederick
    – Frederick County is dual connected to networkMaryland at diverse POPs (UMCP and Hagerstown)

- Cambridge MAN
    – Meetings with Bay Country to establish timeline for fiber installations at State offices

- Initiate Eastern Shore Fiber Backbone project
    - On hold pending ARRA funding

Project Status
- Glen Burnie MSC: Bring MSC on-net
    - Project completed in June
    - In process of bringing customers "on-net"

- Redundant MSC Connections
    - Prince Frederick/Leonardtown: microwave link completed

Fiber Projects
- Pikesville
    - Working with MSP, DPSCS, Baltimore County, and Baltimore City Police to build fiber along Reisterstown Rd near Pikesville

- Hagerstown: Fiber to DPSCS complex:
    - Looking for funding or partnership – part of ARRA proposal

- Fiber documentation and mapping project
    - Hagerstown: Documentation in Progress
    - Baltimore City: Documentation in Progress

Network Overview

Meeting Agenda
Other Business

Other Business
- networkMarylandTM Engineering Committee meeting
    - August 9th, 2010, 1:30 PM @ UMBC Technology Center
    - Merged with UMATS engineering meeting

- Closing Questions or Comments

Meeting Adjourned