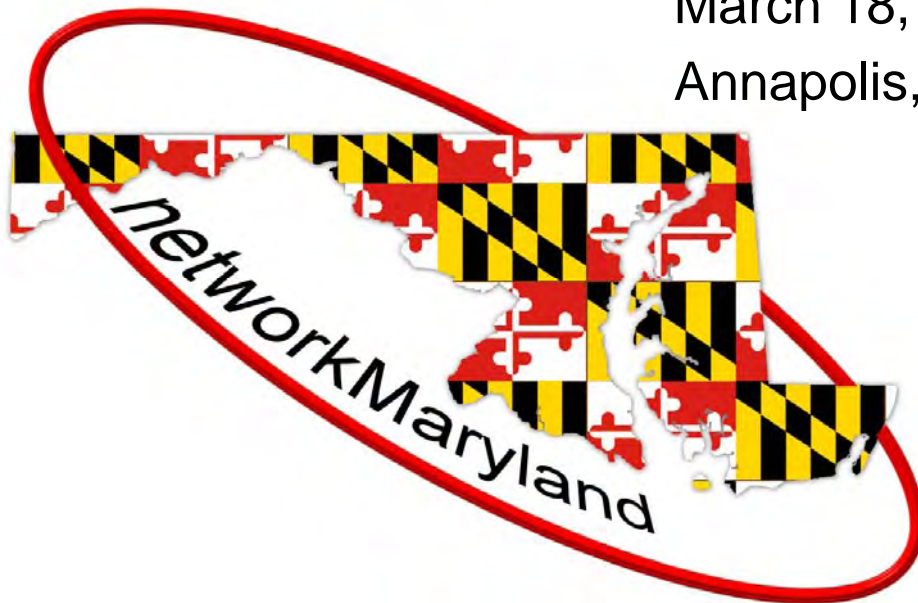# Statewide High Speed Network

networkMaryland[TM] Advisory Group Meeting

March 18, 2008

Annapolis, MD

Meeting Agenda

- Welcome & Introductions
- networkMaryland^{TM} Managed Services Contract
- State of the Network
- Status of Project
- Other Business

Welcome

- Introductions
- Gregory Urban – Director, networkMaryland^{TM}
- Guests/Visitors
- Elliot Schlanger – Chief of Information Technology
- Meeting Minutes Approval
  - January 2008

Meeting Agenda

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Managed Services Contract

- Performance Technology Group (PTG) selected
  - Ranked #1 with technical proposal
  - Ranked #1 with price proposal
  - Extremely close competition between PTG & CSC
- Similar management cost to current contract
- Contract transition has started
- Cut-over to new PTG will occur in May
- One week "change freeze" will be scheduled in the middle of May. Exact date to be announced.

Meeting Agenda

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Operational Subscribers

- 74 Operational Subscribers

- Circuit Breakdown
    - 82 ISP Circuits
    - 89 SwGI Circuits
    - 1245 Layer 2 Circuits
    - 10 VPN Connections
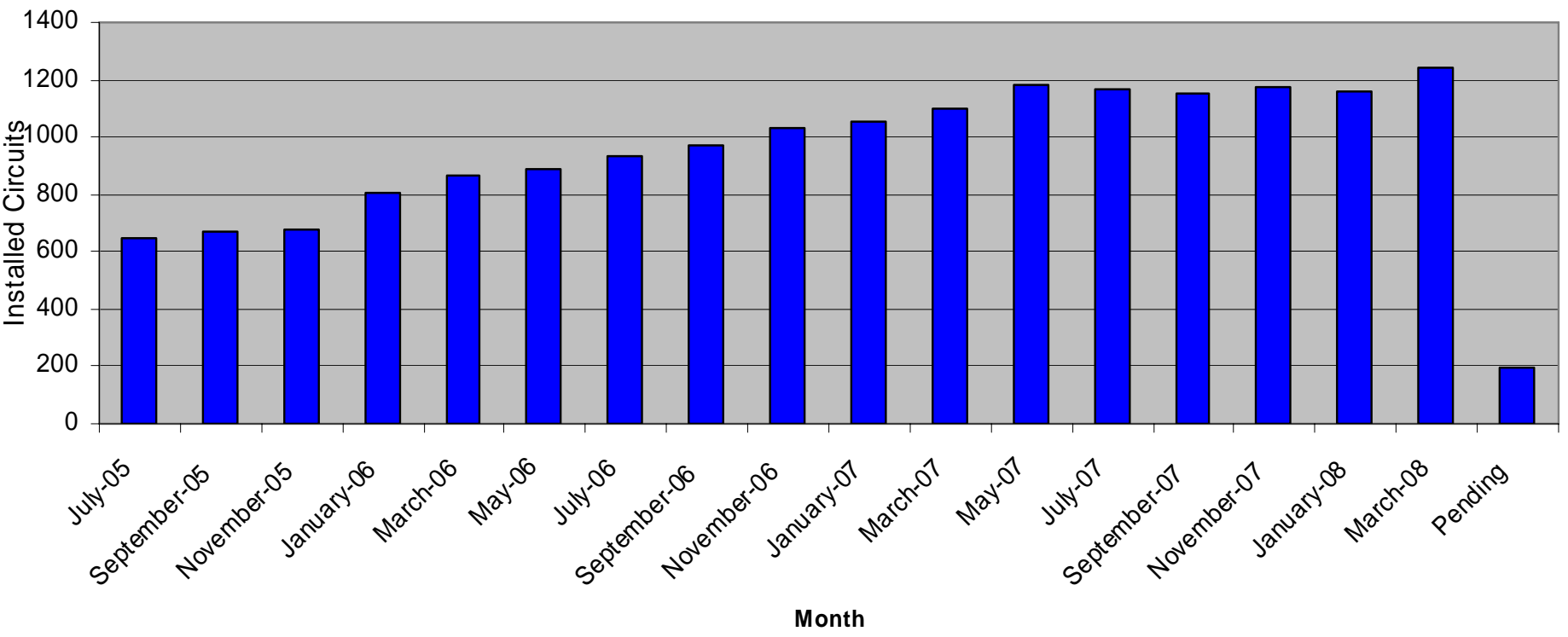
Subscriber Provisioning

- 36 circuits are currently in the subscriber's testing/implementation phase

- 68 new circuits have been provisioned since the last meeting

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

Installed Circuits

Executive Branch

Executive Branch
networkMaryland Subscribers as of March 14, 2008

Treasurer	Internet
	SwGI
	Layer 2

Comptroller	Internet
	SwGI
	Layer 2	*

Governor's Office	Internet
	SwGI
	Layer 2	*

Attorney General	Internet	*
	SwGI	*
	Layer 2

Secretary of State	Internet
	SwGI
	Layer 2

Aging	Internet
	SwGI **
	Layer 2

Agriculture	Internet	*
	SwGI
	Layer 2

Budget & Management	Internet
	SwGI	*
	Layer 2	*

Business & Economic Development	Internet	*
	SwGI	*
	Layer 2	*

Education	Internet
	SwGI
	Layer 2	*

Environment	Internet
	SwGI
	Layer 2

General Services	Internet	*
	SwGI
	Layer 2	*

Health & Mental Hygiene	Internet
	SwGI
	Layer 2	*

Housing & Community Development	Internet
	SwGI
	Layer 2

Human Resources	Internet
	SwGI
	Layer 2	*

Juvenile Services	Internet	*
	SwGI
	Layer 2	*

Labor, Licensing & Regulation	Internet
	SwGI
	Layer 2	*

Natural Resources	Internet
	SwGI
	Layer 2	*

Planning	Internet
	SwGI
	Layer 2

Public Safety Correctional Services	Internet
	SwGI
	Layer 2	*

State Police	Internet
	SwGI
	Layer 2	*

Transportation	Internet
	SwGI
	Layer 2	*

Veteran's Affairs	Internet
	SwGI
	Layer 2

Legend:

Agency is Not Receiving networkMaryland Service - A Cost Savings exists if networkMaryland provides service

Agency Expressed Interest in Receiving networkMaryland Service

Agency is in Process of Receiving networkMaryland Service (JCR submitted)

Agency is Receiving networkMaryland Service

Size of Agency is small and does not realize a significant cost savings by connecting to networkMaryland or the service is not required

* networkMaryland Provisioning has been completed, Department is is process of migrating to service
** Agency is receiving networkMaryland service through parent, primary agency

* - denotes a change in service since the last Advisory Group Meeting

Non-Executive Branch

Non-Executive Branch
networkMaryland Subscribers as of March 14, 2008

Office of People's Council	Internet / SwGI / Layer 2
Judiciary	Internet / SwGI / Layer 2 *
MD General Assembly	Internet / SwGI / Layer 2
Office of Legislative Auditors	Internet / SwGI / Layer 2
State Lottery	Internet / SwGI / Layer 2 *

State Board of Elections	Internet / SwGI / Layer 2 *
Maryland State Archives	Internet / SwGI / Layer 2
Department of Assessment and Taxation	Internet / SwGI / Layer 2 *
MIEMMS	Internet / SwGI / Layer 2
Subsequent Injury Fund	Internet / SwGI / Layer 2 *

Commission of Human Relations	Internet * / SwGI / Layer 2 *
Office for Children	Internet / SwGI / Layer 2
Office of Public Defender	Internet / SwGI / Layer 2 *
Dept. of Rehabilitative Services	Internet ** / SwGI ** / Layer 2
Dept. of Military	Internet / SwGI / Layer 2

Workers' Compensation Commission	Internet * / SwGI * / Layer 2 *
State Retirement Agency	Internet / SwGI / Layer 2
Maryland State Retirement Plan	Internet / SwGI / Layer 2
MD Auto Insurance Fund	Internet / SwGI / Layer 2
State Board of Contract Appeals	Internet / SwGI / Layer 2

MD Higher Education Commission	Internet / SwGI / Layer 2
College Savings Plans of Maryland	Internet * / SwGI * / Layer 2
Office of Crime Control & Prevention	Internet / SwGI / Layer 2
Maryland Emergency Management Agency	Internet / SwGI / Layer 2
MD Stadium Authority	Internet / SwGI / Layer 2

Public Service Commission	Internet / SwGI / Layer 2
Office of Admin Hearings	Internet / SwGI / Layer 2
MD Insurance Administration	Internet / SwGI / Layer 2
Office of State Prosecutor	Internet / SwGI / Layer 2
Canal Place Authority	Internet / SwGI / Layer 2

| Register of Wills | Internet * / SwGI / Layer 2 |

Legend:

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Non-State Customers

Non-State entities\Counties\Municipalities
networkMaryland Subscribers as of March 14, 2008

Baltimore City	Internet
	SwGI
	Layer 2

Baltimore City State's Attorney Office	Internet
	SwGI
	Layer 2

Baltimore City Community College	Internet
	SwGI
	Layer 2

Baltimore County Government	Internet
	SwGI
	Layer 2

**

MD Public TV (MPT)	Internet
	SwGI
	Layer 2

Charles County Government	Internet
	SwGI
	Layer 2

Carroll County Gov't	Internet
	SwGI
	Layer 2

Caroline County Gov't	Internet
	SwGI
	Layer 2

Ocean City Gov't	Internet
	SwGI
	Layer 2

Garrett County Gov't	Internet
	SwGI
	Layer 2

University System of Maryland	Internet
	SwGI
	Layer 2

Maryland School for the Deaf	Internet
	SwGI
	Layer 2

Alleghany County Board of Education	Internet
	SwGI
	Layer 2

Anne Arundel County Government	Internet
	SwGI
	Layer 2

St. Mary's County Gov't	Internet
	SwGI
	Layer 2

City of Laurel Gov't	Internet
	SwGI
	Layer 2

Maryland Environmental Service	Internet
	SwGI
	Layer 2

College of Southern MD	Internet
	SwGI
	Layer 2

Frederick County Government	Internet
	SwGI
	Layer 2

*

Montgomery County Government	Internet
	SwGI
	Layer 2

Prince Georges County Government	Internet
	SwGI
	Layer 2

Howard County Government	Internet
	SwGI
	Layer 2

CAPWIN	Internet
	SwGI
	Layer 2

Washington County (BWA)	Internet
	SwGI
	Layer 2

Washington County Public Network (WCPN)	Internet
	SwGI
	Layer 2

Women, Children & Infants Program(WIC)	Internet
	SwGI
	Layer 2

*

Legend:

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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.

Operations

- 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

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Operations

- Operational 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. Awaiting for vendors to bid.

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Project Status

- 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
  - Phase V: MultiService Centers – September 2008
    - Design completed
  - Selected software to provision circuits via MPLS
    - Dorado Redcell – Procurement in progress

Project Status

- BMAN Upgrade
  - Create architecture consistent with AMAN
  - Phase I: Refresh edge switches - *Completed*
    - Replace Cisco 4006 with Cisco 3750 Metro
    - Allows for appropriate enforcement of subscriber usage
  - Phase II: Refresh distribution switches – April 2008
    - 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

Project Status

- Towson POP
  - Completed
  - In process of provisioning Baltimore County

- 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

Project Status

- Denton MAN
  - Connects to the Eastern Shore microwave backbone
  - All equipment installed. All 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)

Project Status

- 200 Saint Paul Place
  - Fiber connected to backbone @ 6 St. Paul
  - Supports OAG 10 Mbps connection

- 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

Network Overview
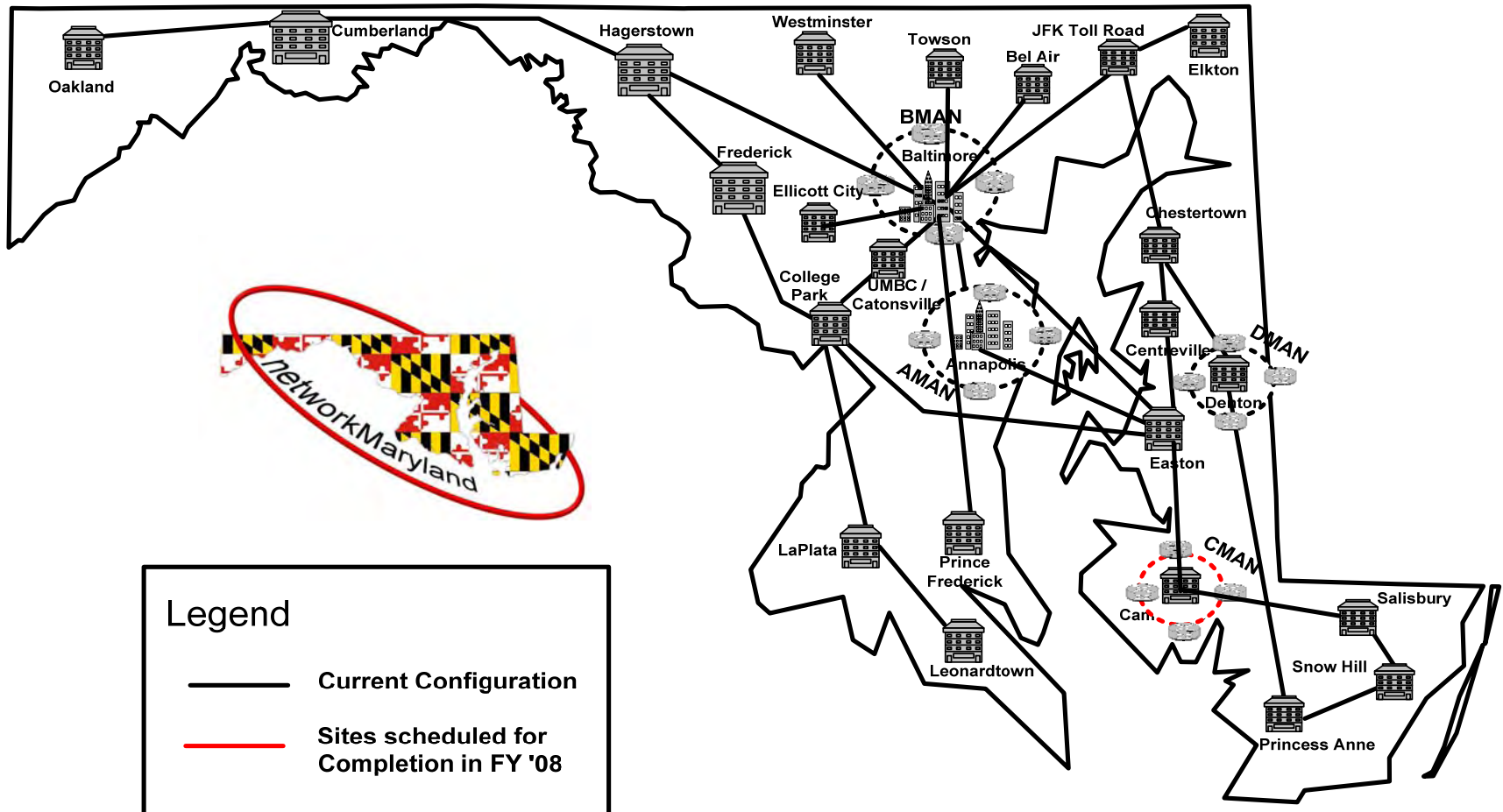
(March 2008)

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.

MEETING AGENDA

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Additional Services

- Ethernet Everywhere
  - Two pilot sites were successfully turned up in early March.
  - Third pilot site is still in progress.

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

- Closing Questions or Comments

Thank You

- Meeting Adjourned