

Statewide High Speed Network

networkMaryland™ Advisory Group Meeting
July 15, 2008
Annapolis, MD





Meeting Agenda



- Welcome & Introductions
- New Business
- State of the Network
- Status of Project
- Other Business



Welcome



- Introductions
- Gregory Urban – Director, networkMaryland™
- Elliot Schlanger – Chief of Information Technology
- Guests/Visitors



New Business

- Retirement Announcement – Pat Wallace
- Meeting Minutes Approval
 - May 2008
- Transition
 - NOC fully transitioned to PTG
 - All circuit provisioning assigned to PTG
 - Projects are re-engaging
- New contact information
 - New NOC phone number: 1-877-664-6963
 - New NOC e-mail: noc@networkmaryland.gov



S T A T E O F M A R Y L A N D

DEPARTMENT OF INFORMATION TECHNOLOGY



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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)



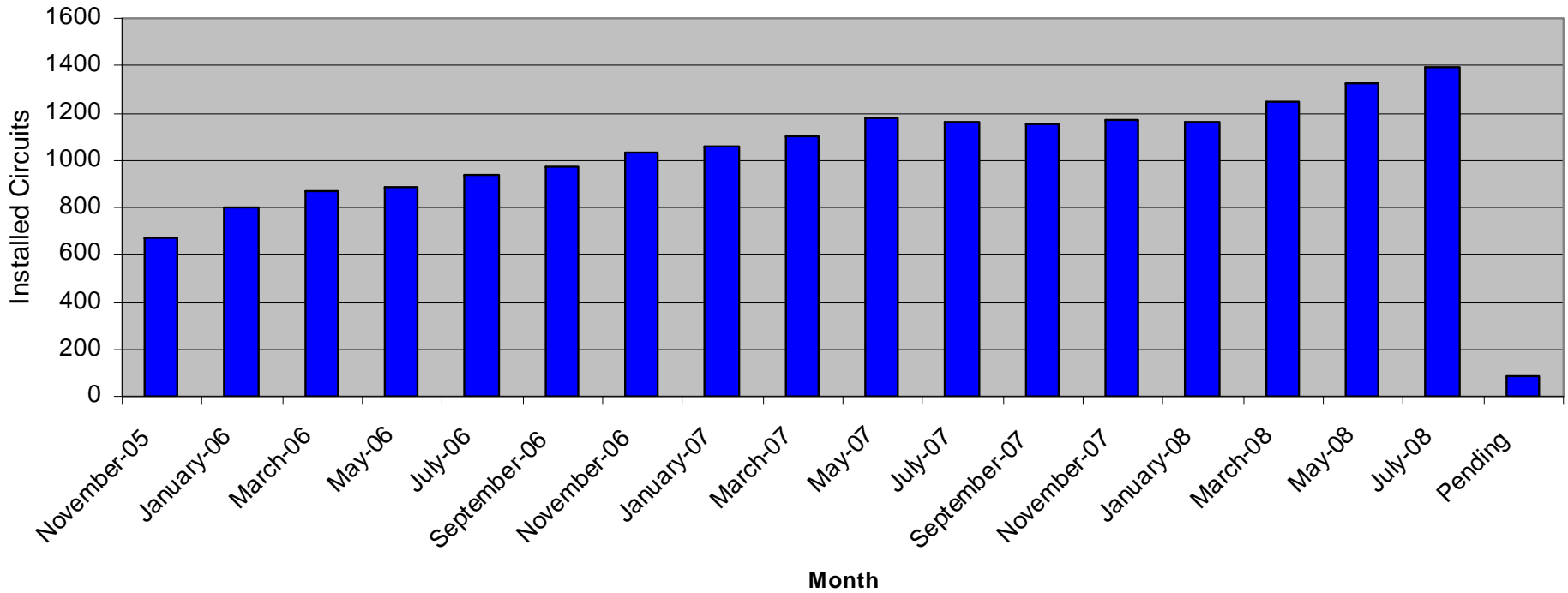
Subscriber Provisioning



- 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





Executive Branch

Executive Branch networkMaryland Subscribers as of July 14, 2008

Treasurer	Internet SwGl Layer 2	Comptroller	Internet SwGl Layer 2 *	Governor's Office	Internet SwGl Layer 2 *	Attorney General	Internet SwGl Layer 2	Secretary of State	Internet SwGl Layer 2
Aging	Internet SwGl ** Layer 2	Agriculture	Internet SwGl Layer 2 *	Budget & Management	Internet SwGl Layer 2 *	Business & Economic Development	Internet SwGl Layer 2 *	Education	Internet SwGl Layer 2 *
Environment	Internet SwGl Layer 2 *	General Services	Internet SwGl Layer 2	Health & Mental Hygiene	Internet SwGl Layer 2 *	Housing & Community Development	Internet SwGl Layer 2	Human Resources	Internet SwGl Layer 2 *
Information Technology	Internet SwGl Layer 2 *	Juvenile Services	Internet SwGl Layer 2 *	Labor, Licensing & Regulation	Internet SwGl Layer 2 *	Natural Resources	Internet SwGl Layer 2 *	Planning	Internet SwGl Layer 2
		Public Safety Correctional Services	Internet SwGl Layer 2 *	State Police	Internet SwGl Layer 2 *	Transportation	Internet SwGl Layer 2 *	Veteran's Affairs	Internet SwGl 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 in 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 July 14, 2008

Office of People's Council Internal SwGI Layer 2	Judiciary Internal SwGI Layer 2 *	MD General Assembly Internal SwGI Layer 2	Office of Legislative Auditors Internal SwGI Layer 2	State Lottery Internal SwGI Layer 2
State Board of Elections Internal SwGI Layer 2 *	Maryland State Archives Internal SwGI Layer 2	Department of Assessment and Taxation Internal SwGI Layer 2 *	MIEMMS Internal SwGI Layer 2	Subsequent Injury Fund Internal SwGI Layer 2
Commission of Human Relations Internal SwGI Layer 2	Office for Children Internal SwGI Layer 2	Office of Public Defender Internal SwGI Layer 2 *	Dept. of Rehabilitative Services Internal SwGI** Layer 2	Dept. of Military Internal SwGI Layer 2
Workers' Compensation Commission Internal SwGI Layer 2	State Retirement Agency Internal SwGI Layer 2	Maryland State Retirement Plan Internal SwGI Layer 2	MD Auto Insurance Fund Internal SwGI Layer 2	State Board of Contract Appeals Internal SwGI Layer 2
MD Higher Education Commission Internal SwGI Layer 2	College Savings Plans of Maryland Internal SwGI Layer 2 *	Office of Crime Control & Prevention Internal SwGI Layer 2	Maryland Emergency Management Agency Internal SwGI Layer 2	MD Stadium Authority Internal SwGI Layer 2
Public Service Commission Internal SwGI Layer 2	Office of Admin Hearings Internal SwGI Layer 2	MD Insurance Administration Internal SwGI Layer 2	Office of State Prosecutor Internal SwGI Layer 2	Canal Place Authority Internal SwGI Layer 2

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Register of Wills Internal SwGI Layer 2 *
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Non-State Customers

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

Baltimore City	Internet
	SwGI
	Layer 2

Charles County Government	Internet
	SwGI
	Layer 2

University System of Maryland	Internet
	SwGI
	Layer 2

Frederick County Government	Internet
	SwGI
	Layer 2

Baltimore City State's Attorney Office	Internet *
	SwGI
	Layer 2

Carroll County Gov't	Internet
	SwGI
	Layer 2

Maryland School for the Deaf	Internet
	SwGI
	Layer 2

Montgomery County Government	Internet
	SwGI
	Layer 2

Baltimore City Community College	Internet
	SwGI
	Layer 2

Caroline County Gov't	Internet
	SwGI
	Layer 2

Alleghany County Board of Education	Internet
	SwGI
	Layer 2

Prince Georges County Government	Internet
	SwGI
	Layer 2

Baltimore County Government	Internet *
	SwGI
	Layer 2

Ocean City Gov't	Internet
	SwGI
	Layer 2

Anne Arundel County Government	Internet
	SwGI
	Layer 2

Howard County Government	Internet
	SwGI
	Layer 2

MD Public TV (MPT)	Internet
	SwGI
	Layer 2

Garrett County Gov't	Internet
	SwGI
	Layer 2

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

CAPWIN	Internet
	SwGI
	Layer 2

City of Laurel Gov't	Internet
	SwGI
	Layer 2

Washington County (BWA)	Internet
	SwGI
	Layer 2

Maryland Environmental Service	Internet
	SwGI
	Layer 2

Washington County Public Network (WCPN)	Internet
	SwGI
	Layer 2

College of Southern MD	Internet
	SwGI
	Layer 2 *

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

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New Provisioning Activity



- *Ethernet Everywhere: DEMAND is HUGE!!!*
 - *MDOT(MTA) & MSDE*: Ethernet Everywhere service active at Gaithersburg & Baltimore
- *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.



New Provisioning Activity



- *Denton MSC*: Started provisioning new on-net circuits (fiber repair in Denton just completed last week)
- *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
- Operational Improvements
 - *Dorado Implementation in place*
 - Next steps: Training the staff and creating operating procedures



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- **Status of Project**
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Project Status

- 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.



Project Status

- 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



Project Status

- 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



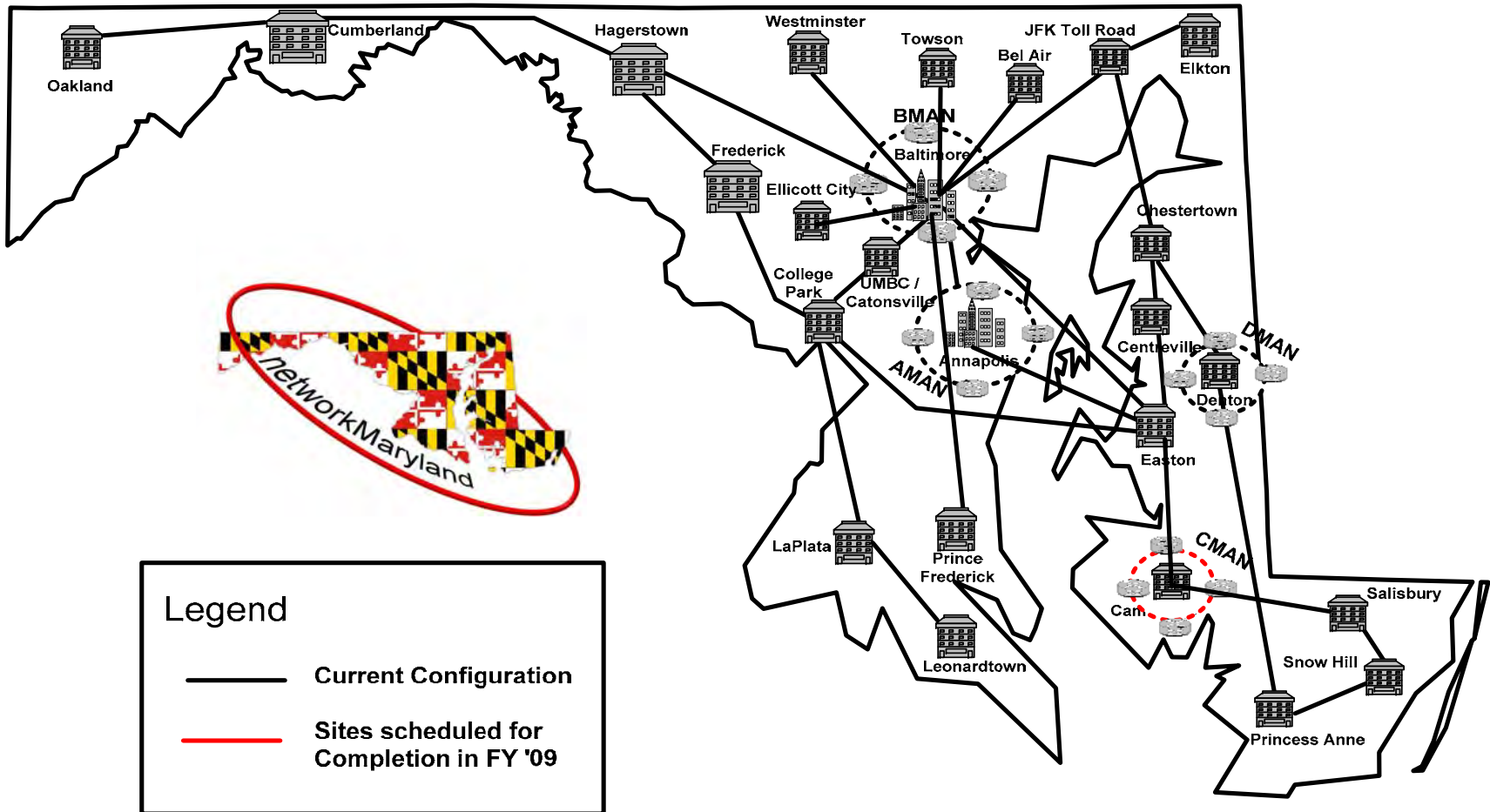
Project Status

- 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

(July 2008)



Legend

- Current Configuration
- Sites scheduled for Completion in FY '09



Fiber 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



Additional Services

- Ethernet Everywhere
 - *Ethernet Everywhere Service is ready for general availability in Baltimore & Western MD LATAs*
 - *Roll out of service on the Eastern Shore underway*
- Fibergate Resource Sharing Agreement
 - Additional fiber in Montgomery County, Prince George's County, and Fort Detrick area
 - Agreement being reviewed by MDOT



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Other Business

- networkMaryland™ Engineering Committee meeting
 - August 11th, 2008, 1:30 PM @ UMBC Technology Center
 - Merged with UMATS engineering meeting
- Closing Questions or Comments



Thank You



- Meeting Adjourned