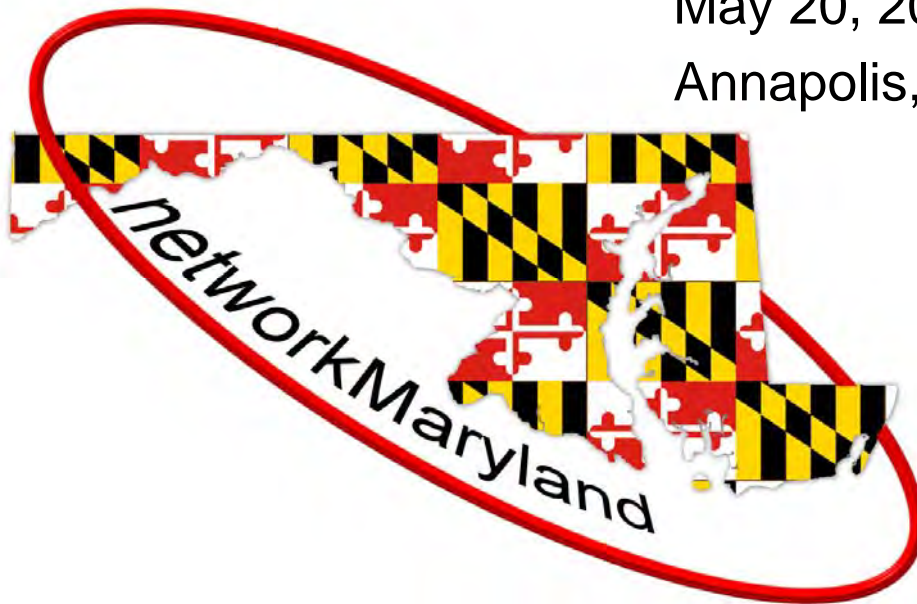


Statewide High Speed Network

networkMaryland™ Advisory Group Meeting
May 20, 2008
Annapolis, MD





Meeting Agenda



- Welcome & Introductions
- State of the Network
- Status of Project
- networkMaryland™ Transition
- Other Business



Welcome



- Introductions
- Gregory Urban – Director, networkMaryland™
- Guests/Visitors
- Meeting Minutes Approval
 - March 2008



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Operational Subscribers



- 76 Operational Subscribers (+2)
- Circuit Breakdown
 - 83 ISP Circuits (+1)
 - 87 SwGI Circuits (-2)
 - 1329 Layer 2 Circuits (+84)
 - 10 VPN Connections (+0)



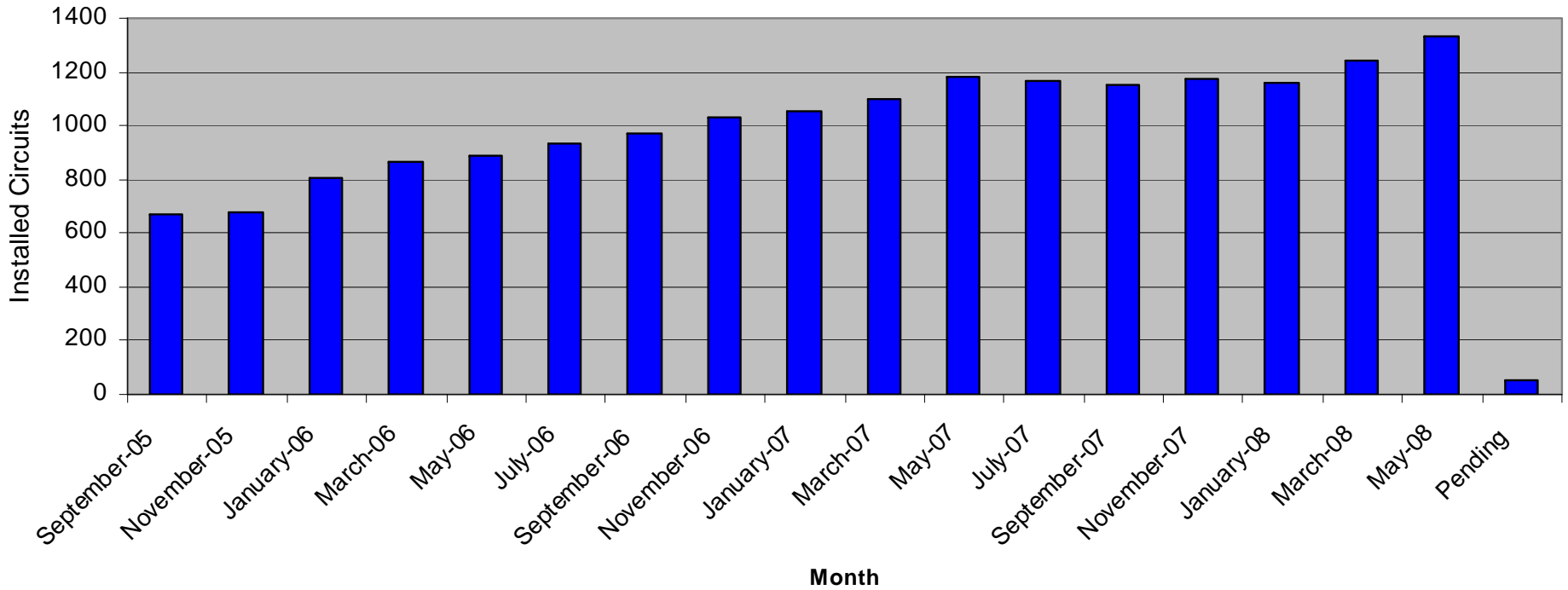
Subscriber Provisioning



- 29 circuits are currently in the subscriber's testing/implementation phase
- 66 new circuits have been provisioned since the last meeting
- 101 circuits have been accepted by the subscriber since the last meeting



Installed Circuits





Executive Branch

Executive Branch networkMaryland Subscribers as of May 19, 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 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 May 19, 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

Legend:

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Register of Wills Internet SwGI Layer 2
--

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Non-State Customers



Non-State entities\Counties\Municipalities networkMaryland Subscribers as of May 19, 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

Legend:

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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



New Subscribers & Services



- *MDA (Dept. of Agriculture)*: Transitioned to Internet service in late March.
- *MDOT(MTA) & MSDE*: Ethernet Everywhere service active at Gaithersburg & Baltimore
- *MSP*: Turned up 64 networkMaryland™ connections, migrating off of DPSCS's backbone
- *Denton MSC*: Started provisioning new on-net circuits (pending fiber repair in Denton)
- *Salisbury MSC*: Started provisioning new on-net circuits



Operations



- Operational Improvements
 - *ATM Switches*: Retirement of Ericsson TNX-1100 ATM switches at two PoPs: 29 St. John St-Annapolis & LaPlata
- Consulting Services Engagements
 - DPSCS: turned up four networkMaryland on-net connections. Completed in April.
 - WCC: migrated HQ connections from a leased line to fiber. Completed in March.
 - MSP: migrate off of DPSCS's WAN. Completed in May.
 - MSLA: assistance on WAN design. Completed in April.



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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 – We have procured the software and will install and configure it in June/July.



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 to be 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



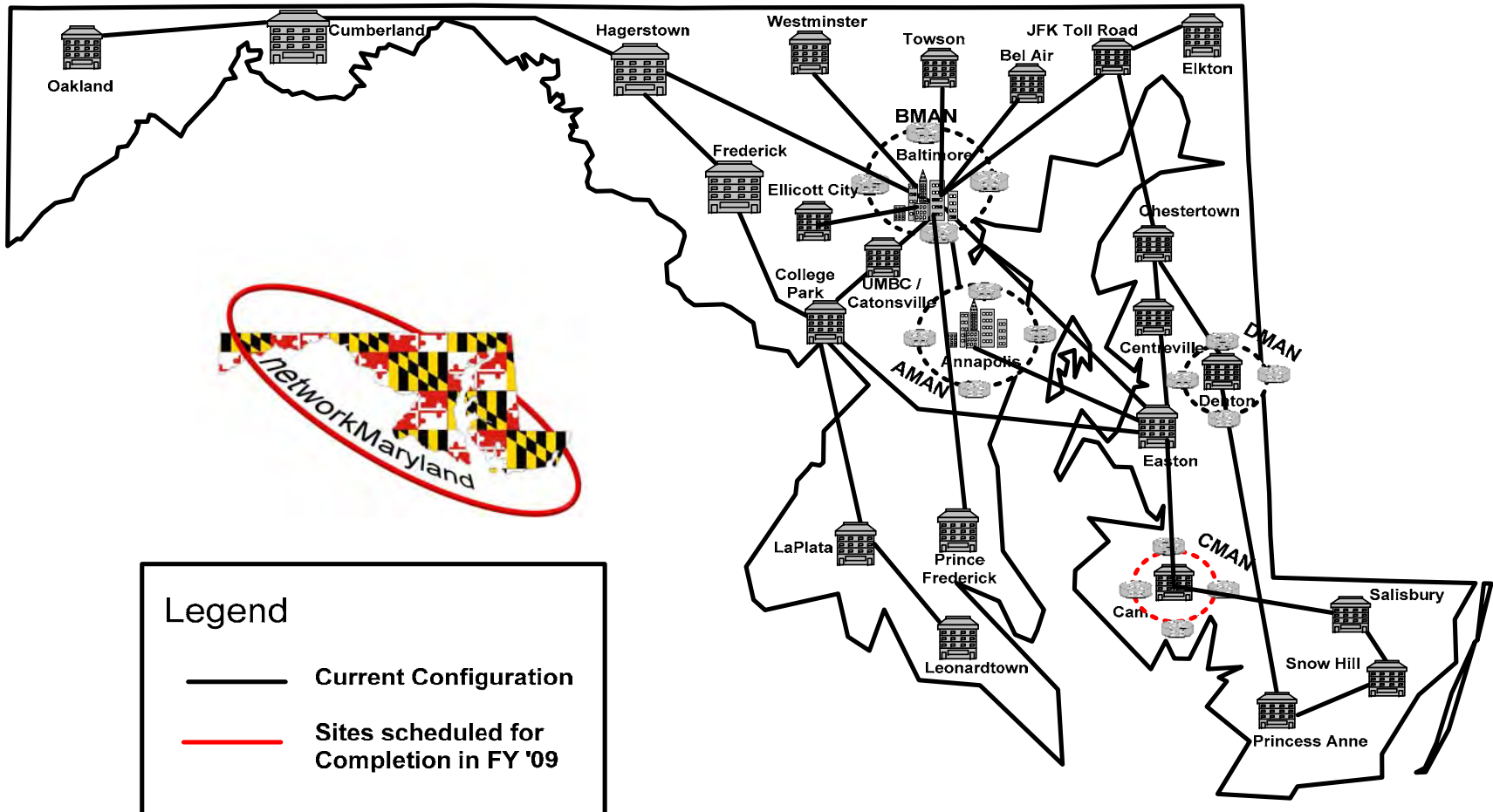
Project Status

- 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

(May 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 in progress.
- Fibergate Resource Sharing Agreement
 - Additional fiber in Montgomery County, Prince George's County, and Fort Detrick area.
 - Agreement reviewed by AGs and being revised.



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Transition to PTG



- NOC Transition
 - Change Freeze commenced on Tuesday, May 13 at 12:01 AM
 - NOC hand-off occurred on Friday, May 16 at 12:01 AM
 - Transferred opened help desk tickets to PTG
- New Help Desk / Operations Center contact information
 - New NOC phone number: 1-877-664-6963
 - New NOC e-mail: noc@networkmaryland.gov
- Current Activities
 - Transferring provisioning orders to PTG
 - CSC finishing up remaining tasks until May 31
 - New work orders to PTG should begin next week



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Additional Services

- Ethernet Everywhere
 - *Ethernet Everywhere Service is ready for general availability in Baltimore & Western MD LATAs*
- FY2009 Pricing
 - Re-evaluating pricing based upon current circuit levels
 - Expecting prices to be reduced even more for higher bandwidth circuits (L2 and ISP)



Other Business



- networkMaryland™ Engineering Committee meeting
 - June 9th, 2008, 1:30 PM @ UMBC Technology Center
 - Merged with UMATS engineering meeting
- Closing Questions or Comments



Thank You



- Meeting Adjourned