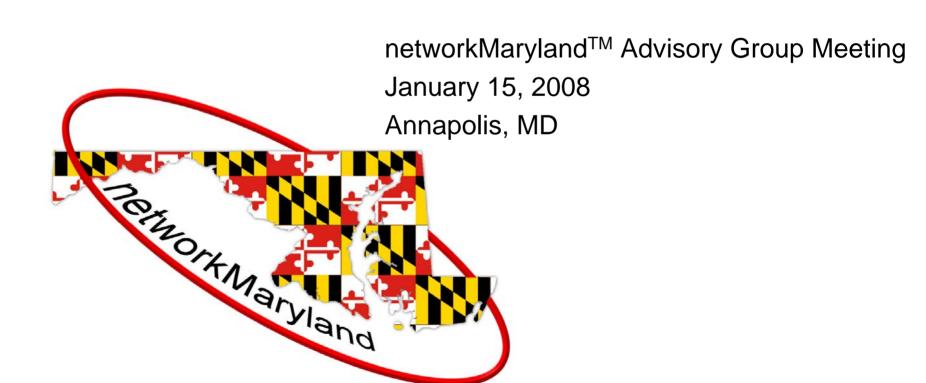
Statewide High Speed Network





Meeting Agenda



- Welcome & Introductions
- State of the Network
- Status of Project
- Pricing Model Discussion
- Other Business



Welcome



- Introductions
- Gregory Urban − Director, networkMarylandTM
- Guests/Visitors
- Meeting Minutes Approval
 - November 2007



Meeting Agenda



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Operational Customers



- 73 Subscribers today
 - Circuit Breakdown
 - 80 ISP Circuits
 - 87 SwGI Circuits
 - 1158 Layer 2 Circuits
 - 10 VPN Connections



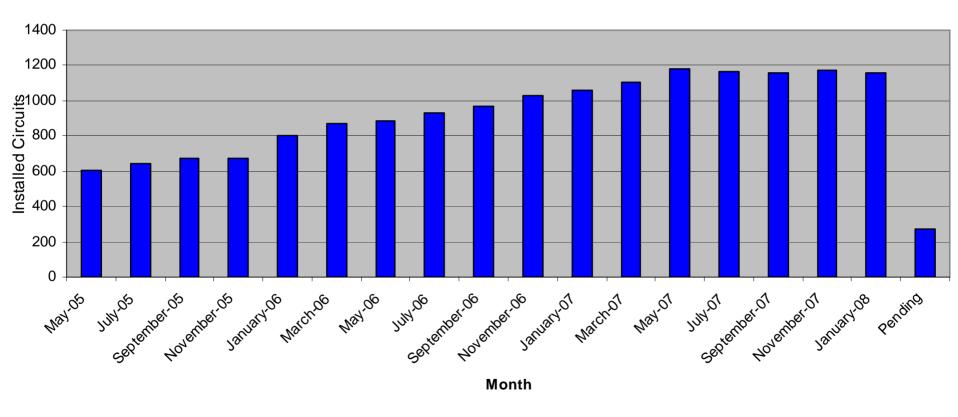
Customer Provisioning

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



Installed Circuits



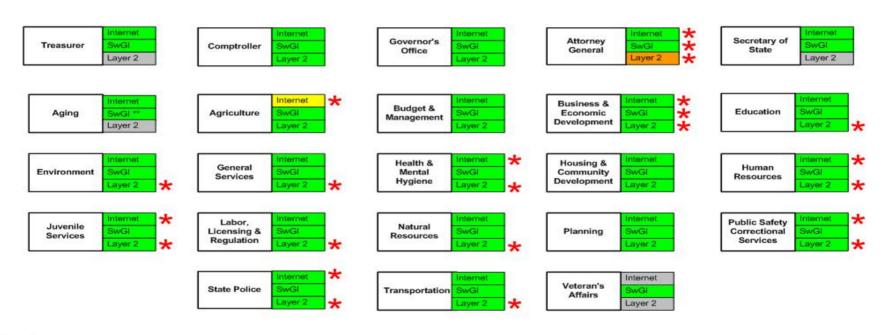








Executive Branch networkMaryland Subscribers as of January 9, 2008



Legend:

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

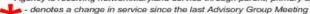
Agency Expressed Interest in Receiving networkMaryland Service

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

^{**} Agency is receiving networkMaryland service through parent, primary agency



^{*} networkMaryland Provisioning has been completed, Department is is process of migrating to service



Non-Executive Branch



Non-Executive Branch networkMaryland Subscribers as of January 09, 2008

Office of People's Council	Internet	Judiciary	Internet	MD General Assembly	Internet	Office of	Internet SwGI	State Lottery	Internet
	SwGI		SwGl		SwGI	Legislative			SwGI
	Layer 2		Layer 2		Layer 2	Auditors	Layer 2		Layer 2
	Internet	Maryland	Internet	Department of	Internet		Internet		Internet
State Board of Elections	SwGl	State	SwGl	Assessment	SwGl	MIEMMS	SwGl	Subsequent	SwGl
	Layer 2	Archives	Layer 2	and Taxation	Layer 2	-	Layer 2	Injury Fund	Layer 2
Commission of Human Relations	Internet	Office for	Internet	Office of	Internet	Dept. of	Internet **	Dept. of	Internet
	SwGl	Children	SwGl	Public	SwGl	Rehabilitative	SwGI**	Military	SwGl
	Layer 2		Layer 2	Defender	Layer 2	Services	Layer 2		Layer 2
Workers'	Internet	State	Internet	Maryland	Internet	MD Auto	Internet	State Board of	Internet
0	SwGl 🜟	Retirement Agency	SwGl	State Retirement	SIAICSI	Insurance Fund	SwGl	Contract Appeals	SwGl
	Layer 2		Layer 2	Plan		Pulid	Layer 2	Appears	Layer 2
Education Sv	Internet	College	Internet *	Office of	Internet	Maryland	Internet	MD Stadium	Internet
	SwGl	Savings Plans of Maryland	SwGl 🜟	& Prevention	SwGI	Emergency Management Agency	SwGl	Authority	SwGl
	Layer 2		Layer 2		Layer 2		Layer 2	3	Layer 2
Public Service Commission	Internet	Office of	Internet	MD Insurance	Internet	Office of State	Internet	Canal Place	Internet
	SwGl	Admin	SwGl	Administration	SwGI	Prosecutor	SwGl	Authority	SwGl
	Layer 2	Hearings	Layer 2	,	Layer 2	1.53000101	Layer 2		Layer 2

Register of

Wills

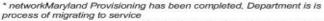
SwGI

Layer 2

Legend:

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



^{**} Agency is receiving networkMaryland service through parent, primary agency



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



Non-State Customers



Non-State entities\Counties\Municipalities networkMaryland Subscribers as of January 09, 2008



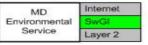
connecting to networkMaryland or the service is not required

Size of Agency is small and does not realize a significant cost savings by

Agency is Receiving networkMaryland Service

process of migrating to service

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







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

^{*} networkMaryland Provisioning has been completed, Department is is

^{**} Agency is receiving networkMaryland service through parent, primary agency







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
- OAG: Upgrading Internet service.
- MDOT & MSDE: Ethernet Everywhere service pilots at Cresaptown, Gaithersburg & Baltimore
- Register of Wills: Centralization of Servers at ADC
- DPSCS: Fiber build-out at MRDCC (Maryland Reception, Diagnostic and Classification Center) in Baltimore



Operations



- Consulting Services Engagements
 - DPSCS: turn up networkMaryland on-net connections
 - OPD: turn up networkMaryland on-net connections
 - WCC: migrate HQ connections from a leased line to fiber
 - MSP: migrate from DPSCS's WAN
 - SBE: set up a syslog server for security logging
 - MSLA: network integration with their key partner
- Working with agencies to update WAN architecture
 - MSP
 - DPSCS
 - MDOT
 - JUD/JIS



Operations



Operations Improvements

- DNS servers: Installation at POPs completed. Operation manual and procedures being written
- ATM Switches: Upgrading Ericsson TNX-1100 ATM switches to most recent code revision.
- Firewall Logging: Implementation of SYSLOG server for firewall logging completed
- DC Power Plant Maintenance: New contract for 6 St. Paul and UMCP awarded to incumbent
- MPLS Provisioning Tool: Evaluating MPLS circuit provisioning and management tool



Meeting Agenda



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- Migration from ATM to Native IP
 - Completed UMCP/Annapolis/Baltimore Core
 - Completed Western Maryland
 - Completed design for Southern Maryland
 - Creating design for MSCs
 - Evaluating software tool to replace Service on Data for circuit provisioning and management







- 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 February '08
 - Phase V: MultiService Centers June '08







- Catonsville MSC
 - Catonsville MSC completed
- Salisbury MSC
 - Initially connect to network via leased line
 - PMP approved
 - DS3 clear channel circuit (to Easton) completed
 - No ATM will be deployed at this POP
 - Expected completion March 2008



Project Status



Towson POP

- Will connect to the backbone via the UMBC POP
- All fiber splicing completed
- Equipment ready for deployment
- Completion expected in January
- No ATM will be deployed at this POP







Denton MAN

- Connects subscribers to the Eastern Shore microwave backbone
- All equipment installed
- Moving our presence in the County Data Center to the building's telecommunications room
- Preparing WAN request forms for subscribers to assist in transition from off-net leased services to on-net circuits



Project Status



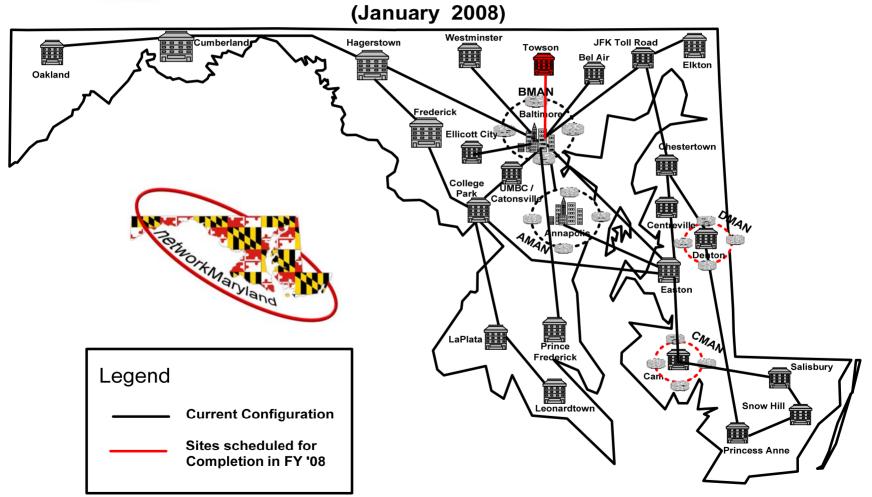
Cambridge MAN

- 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 in progress
- No change since last AG meeting











Projects in Planning



BMAN Upgrade

- Create architecture consistent with AMAN
- Hardware refresh for edge switches
 - Replace Cisco 4006 with Cisco 3750 Metro
 - Allows for 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
- Redesign of core
 - Reduce dependency on 6 St. Paul
 - Increase presence at 301 W. Preston for connectivity to core



Projects in Planning



Fiber Projects

- St. Mary's County: Receive one pair of fiber from Leonardtown MSC to US301 connecting to LaPlata and last mile subscriber access
- Resource sharing agreement with Fibergate: Additional fiber in Montgomery County, Prince George's County, and to Fort Detrick. Agreement drafted/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.



MEETING AGENDA



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Additional Services



- CIOs will report their priority for enterprise wide consolidated services at next ITAC (1/28)
- Discussions will revolve around
 - Email
 - Meeting Collaboration / Video Conferencing
 - Remote Access
 - Unified Messaging
 - VolP



Additional Services



Ethernet Everywhere

- Product selection competed and procurement process has started
- Three pilot sites are in progress
- Circuit orders have been placed and are nearing completion

VolP

- Met with Verizon to discuss PBX requirements for trunking
- Look to engage DBM Telecom to re-energize project to trunk PBXs at MSCs (Westminster and Bel Air)







- 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
- Rate structure used to create agency budget allocations completed and posted on-line
 - <u>www.networkmaryand.gov</u> : FY2009 Rates



Other Business



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



Thank You



Meeting Adjourned