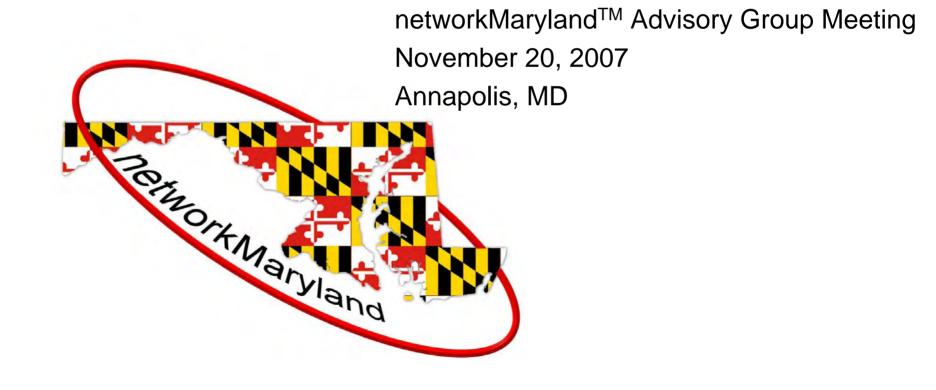
Statewide High Speed Network





Meeting Agenda



- State of the Network
- Status of Project
- Other Business







- Introductions
- Gregory Urban Director, networkMaryland[™]
- Ellis Kitchen State Chief of Information Technology
- Guests/Visitors
- Meeting Minutes Approval
 - September 2007



Meeting Agenda



- State of the Network
- Status of Project
- Financial Review
- Other Business



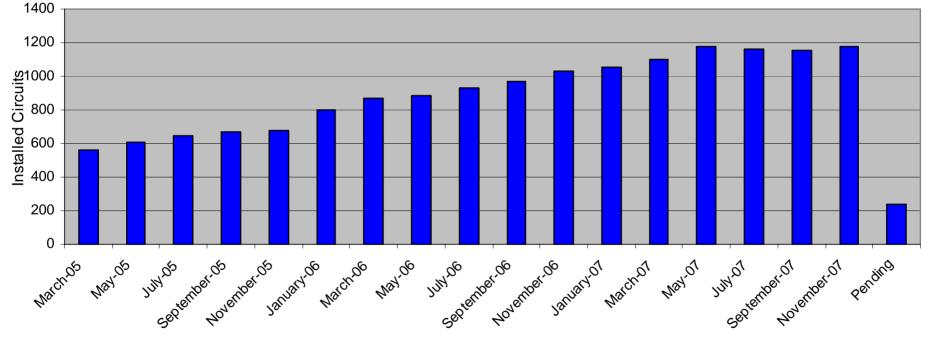
Operational Customers

- 73 Subscribers today
 - Circuit Breakdown
 - 79 ISP Circuits
 - 87 SwGI Circuits
 - 1174 Layer 2 Circuits
 - 10 VPN Connections



- 69 circuits are currently in the customer's testing/implementation phase
- 30 new circuits have been provisioned since the last meeting
- 19 circuits have been accepted by the customer since the last meeting





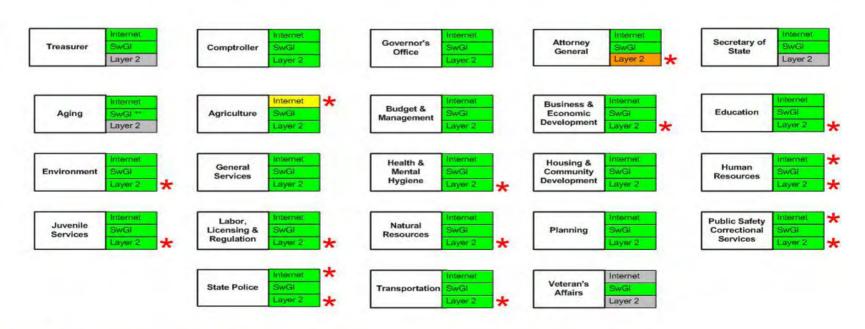
Month



Executive Branch

Rethort Maryland

Executive Branch networkMaryland Subscribers as of November 16, 2007



Legend:

Agency	s Not Receiving networkMaryland Service - A Cost Savings exists if networkMaryland provides service
Agency	Expressed Interest in Receiving networkMaryland Service
Agency	s in Process of Receiving networkMaryland Service (JCR submitted)
Agency	s Receiving networkMaryland Service
Size of /	gency 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

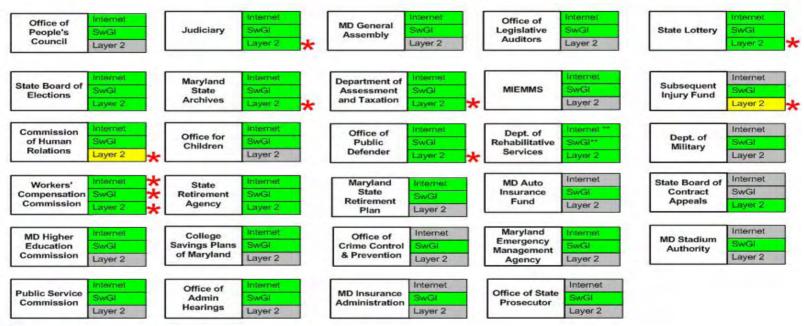
- denotes a change in service since the last Advisory Group Meeting



Non-Executive Branch

Reinorkwarvland

Non-Executive Branch networkMaryland Subscribers as of November 16, 2007



Legend:



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

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



Non-State Customers

Non-State entities\Counties\Municipalities networkMaryland Subscribers as of November 16, 2007

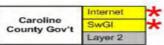
	Internet	Charles
Baltimore City	SwGI	County
	Layer 2	Government
Baltimore City	Internet	0
State's Attorney	SwGI	Carroll County Gov
Office	Layer 2	
		1
Baltimore City	Internet	Caroline
Community	SwGI	County Gov
College	Layer 2	
0.11	Internet	
College of Southern MD	SwGl Layer 2	Ocean City Gov*t
	SwGi Layer 2	
Southern MD	SwGI	Gov't
Southern MD	SwGi Layer 2 Internet	Gov't
Southern MD	SwGi Layer 2 Internet SwGi	Gov't
Southern MD	SwGi Layer 2 Internet SwGi	Gov't
MD Public TV (MPT)	SwGl Layer 2 Internet SwGl Layer 2 st in Receiving networ	Gov't Garrett County Gov
MD Public TV (MPT) xpressed Interes	SwGl Layer 2 Internet SwGl Layer 2 st in Receiving networ	Gov't Garrett County Gov

* 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

Charles County	Internet
	SwGI
Government	Layer 2
	Internet
Carroll County Gov't	Internet SwGl



Laver 2

-	Internet
Ocean City Gov't	SwGI
0011	Layer 2

Garrett County Gov't	Internet
	SwGI
County Gov t	Layer 2

CR submitted)

University	Internet
System of	SwGI
Maryland	Louman 3

Maryland	Internet
School for the	SwGI
Deaf	Layer 2

Alleghany County Board	Internet
	SwGI
of Education	Layer 2

Anne Arundel	Internet
County	SwGi
Government	Layer 2

Frederick	Internet
County	SwGI
Government	Layer 2

Montgomery	Internet
County	SwGl
Government	Layer 2

Prince	Internet
Georges County	SwGI
Government	Layer 2

Howard	Internet
County	SwGI
Government	Layer 2

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

City of Laurel Gov't	Internet
	SwGl
	Layer 2

MD Environmental Service	Internet
	SwGl
	Layer 2

	Internet
NCRnet	SwGI
	Layer 2

1.00	Internet
CAPWIN	SwGl
	Layer 2

Washington	Internet
County	SwGI
(BWA)	Layer 2

Washington	Internet	
County Public Network	SwGI	*
(WCPN)	Layer 2	

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



New Customers

Stellhort Maryland

- Department of Agriculture Internet service
- Washington County Government Hagerstown
- Women, Infants & Children (WIC) Program L2 connection to their Data Center in Beltsville, MD
- Caroline County ISP & SwGI







- 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







- DNS servers: hardware installation at POPs by December
- Re-provisioned Archive's L2 connection between Hall of Records and UMBC onto newer equipment
- Purchased Kiwi Syslog software for firewall logging
- Internal Operations and Support
 - Continuing to identify & gather legacy network equipment for trade in or for surplus
 - DC Power Plant maintenance contract up for renewal



Meeting Agenda

- Welcome & Introductions
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- Migration from ATM to Native IP
 - Realize reduction in management/maintenance costs
 - Use MPLS to provision Layer2 circuits
 - Use Ethernet over TDM (EoTDM) for MSC connectivity
- Schedule
 - Phase I : AMAN *Completed* in October
 - Phase II: UMCP/Annapolis/Baltimore core November
 - Phase III: Western Maryland December
 - Phase IV: Southern Maryland January '08
 - Phase V: MultiService Centers June '08





• UMBC POP

- UMBC POP Completed
- Connects to backbone @ UMCP and 6 St. Paul
- Archives has been migrated to permanent networkMaryland equipment and services re-provisioned
- Catonsville MSC
 - Fiber between UMBC and Catonsville MSC completed
 - Equipment deployed, punch list items remain



• Towson POP

- Will connect to the backbone via the UMBC POP
- Baltimore County fiber splicing completed
- networkMaryland awaiting fiber splicing along I-695
- Completion expected in December
- No ATM will be deployed at this POP

• Salisbury MSC

- Initially connect to network via leased line
- PMP is in development
- DS3 clear channel circuit (to Easton) completed
- No ATM will be deployed at this POP





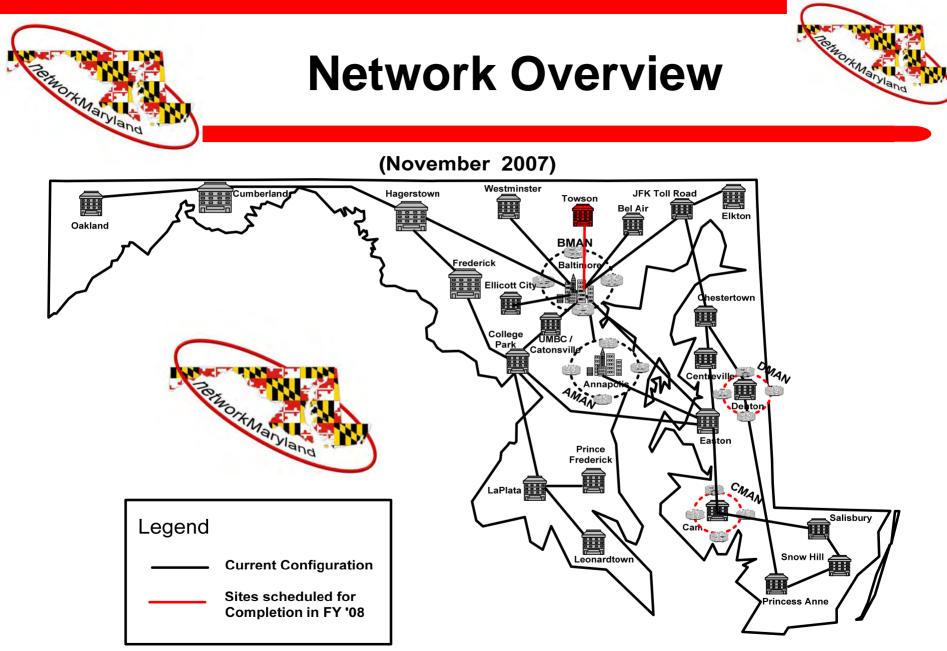
- Denton MAN
 - Connects subscribers to the Eastern Shore microwave backbone
 - All parts procured and received
 - Installed equipment in 7 buildings in Denton
 - Moving our presence in the County Data Center to the building's telecommunications room
 - Preparing WAN request forms for subscribers to assist in transition from off-net leased services to on-net circuits



• Cambridge MAN

Forkmary

- 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





Projects in Planning

- Western Maryland Microwave
 - Partnership with UMATS and Sailor
 - Re-evaluation has caused this project to be discontinued
- Washington County Connectivity
 - MOU with WCPN
 - networkMaryland will establish POP in Hagerstown
 - WCPN will receive SWGI and Tower access
 - networkMaryland will receive last mile access to subscribers



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.
 - 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



- Welcome & Introductions
- State of the Network
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Additional Services



- Ethernet Everywhere: Support Ethernet handoff for non-MSC locations
- Clear channel (non-ATM) access: Provide greater than T1 bandwidth and support QoS
- Network Services
 - VPN: Support small/remote offices and tele-workers
 - Voice: Circuit Emulation; PBX Trunking; VoIP



Additional Services



- Application Services
 - Consolidated directory services
 - Hosted email
 - Meeting Collaboration / Video conferencing
- Data Center Services
 - Remote storage (SAN)
 - Remote backup
 - Data center colocation
 - Managed servers
 - Managed web hosting / application hosting



Rate Structure



- 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
- "Straw Man" cost model build and being analyzed
 - Agency allocations due at the end of the month



Other Business



- December 10th, 2007, 1:30 PM @ UMBC Technology Center
- Merged with UMATS engineering meeting
- Closing Questions or Comments







• Meeting Adjourned