Statewide High Speed Network





MEETING AGENDA



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



Welcome



- Introductions
- Gregory Urban Director
- Ellis Kitchen State CIT
- Meeting Minutes Approval



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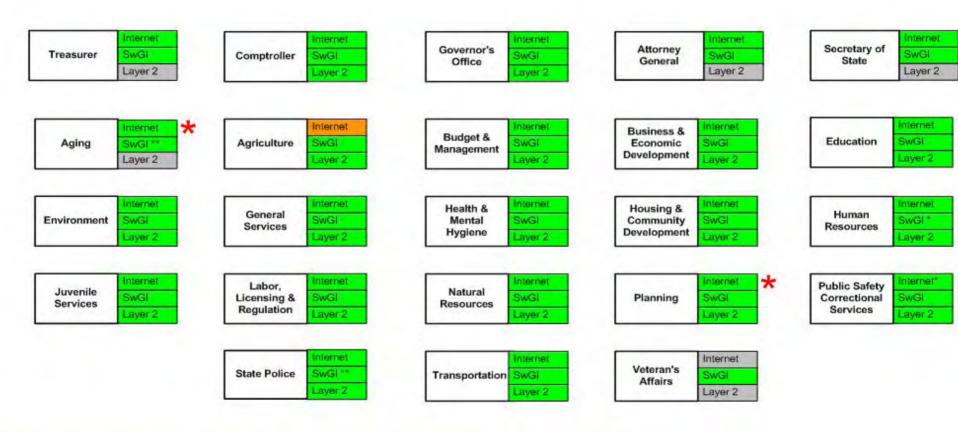


Operational Customers



- 67 Subscribers today
 - Circuit Breakdown
 - 75 ISP Circuits
 - 80 SwGI Circuits
 - 1102 Layer 2 Circuits
 - 10 VPN Connections

Executive Branch networkMaryland Subscribers as of March 16, 2007



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

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

Office of People's Council	Internet	Judiciary	550.65	MD General	Internet SwGI	Office of Legislative Auditors	Internet SwGl	State Lottery	Interne
	SwGl Layer 2			Assembly	Layer 2		Layer 2	State Lottery	Layer 2
State Board of Elections	Internet	Maryland State Archives	Internet	Department of Assessment and Taxation	Internet	T. Carrier	Internet	Subsequent Injury Fund	Interne
	SwGl		SwGl		SwGl	MIEMMS	SwGl		SwGl
	Layer 2		Layer 2		Layer 2		Layer 2		Layer
Commission of Human Relations	Internet	Office for Children	Internet	Office of	Internet	Dept. of	Internet **		Interne
	SwGl		SwGl	Public	SwGi	Rehabilitative	SwGl**	Dept. of	SwGl
	Layer 2		Layer 2	Defender	Layer 2	Services	Layer 2	Military	Layer
Workers' Compensation Commission	Internet-	State Retirement Agency	Internet	Maryland	Internet	MD Auto	Internet	State Board of	Intern
	SwGl		SwGl	State	SwGI	Insurance Fund	SwGl Cont	Contract	SwGl
	Layer 2		Layer 2	Retirement Plan	Layer 2		Layer 2	Appeals	Layer
MD Higher Education Commission	Internet	College Savings Plans of Maryland	Internet		Internet	Maryland Emergency	Internet *		Intern
	SwGl		SwGl	Office of Crime Control	SwGl		SwGl	MD Stadium	SwGl
	Layer 2		Layer 2	& Prevention	Layer 2	Management Agency	Layer 2	Authority	Layer
	Internet		Internet		Internet		Internet		
Public Service Commission	SwGl	Office of Admin Hearings		MD Insurance		Office of State			
	500 A S A S A S A S A S A S A S A S A S A		SwGl	Administration	SwGI	Prosecutor	SwGl		

Legend:

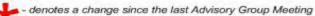
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Agency is in Process of Receiving networkMaryland Service (JCR submitted)

Agency is Receiving network/Maryland Service

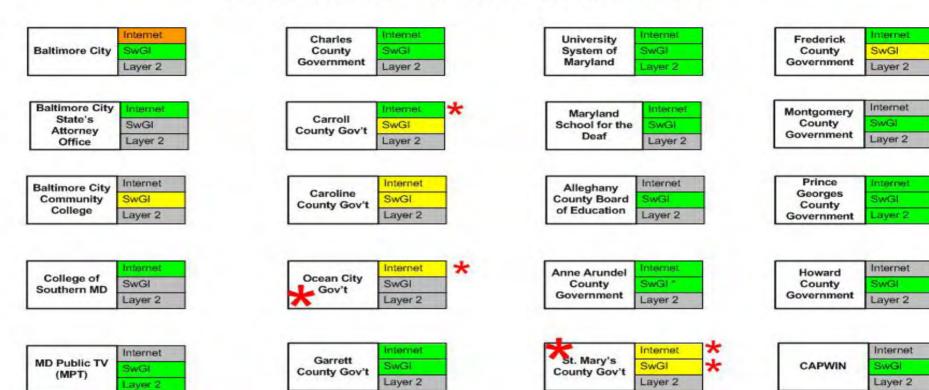
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Non-State entities\Counties\Municipalities networkMaryland Subscribers as of March 16, 2007



Legend:

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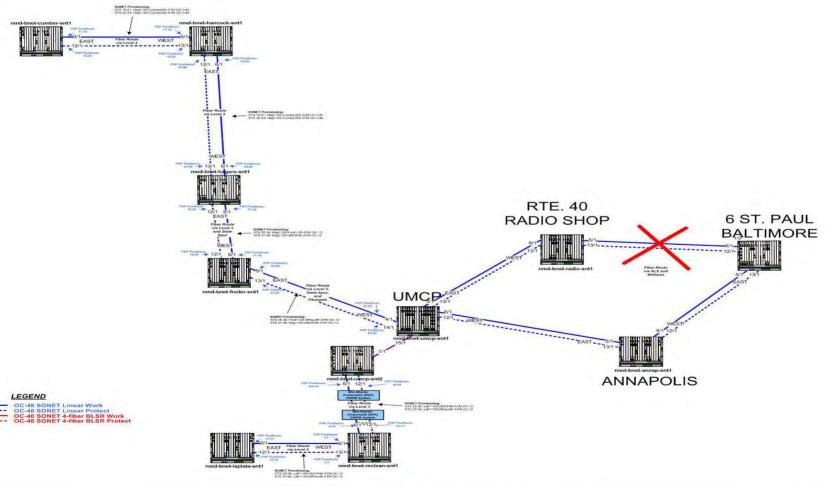
Milestones\New Business

- Working with Archives to establish a 100 Mbps circuit between Hall of Records & UMBC
- Assist MDoT in establishing connectivity to Shaw House
- Performed upgrades\configuration changes to address new DST rules on all nwMD equipment
- Engaged State Board of Elections with Consulting Services Offering
- DNS for SwGI
 - Reserved "swgi.networkmaryland.gov" domain name
 - Initial tests of DNS service successful so far
- Load Bank Test on UMCP Generator performed
- Feb. 20 damaged fiber found in Baltimore City
 - Services were not affected!
 - Resiliency within the network



February 20, 2007







Last Modified: 2/24/05



6 St. Paul fiber exposed

















- Customers on the Horizon
 - Archives UMBC Catonsville MSC turn-up
 - Ocean City Gov't ISP services Snow Hill
 - SAILOR Ethernet hand-off @ Elkton (pending PoP completion)
 - Judiciary\JIS identified LaPlata as DR site
 - WCC (Ready to transition from leased line to direct fiber connection – Summer 2007)
 - Caroline County ISP & SwGI (Denton MAN in early stages)
 - Dorchester County (pending MOU)
 - VoIP with MSP
 - VoIP trial was successful!
 - More Eastern Shore sites are going to use VoIP



Circuit Provisioning and Acceptance



- 153 circuits are currently in the customer's testing/implementation phase
- 40 new circuits have been provisioned since the last meeting
- 85 circuits have been accepted by the customer since the last meeting

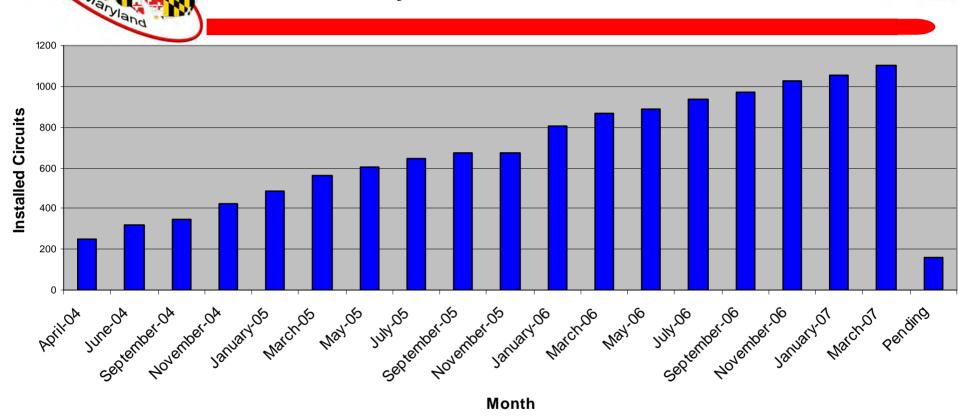


Network Operational Status

Growth Chart



networkMaryland Installed Circuit Chart





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Project Status



- DWDM Ring (Partnership with USM, MDOT)
 - Provisioned two fully redundant OC-48 circuits between UMCP and 6 St. Paul
 - Requested additional light color from UMATs for future needs
- Legacy Ciena DWDM ring
 - MAX migrated off in late January
 - Set to decommission in March (process started)



Project Status



Elkton SONET PoP

- Partnership with Sailor located at Elkton Library
- Shelter is on site and assembled
- Awaiting utilities and fiber connection to the backbone

Towson POP

- Baltimore County is building a fiber route to County Data Center
- Installation has started on the northern portion (I-83)
- Permit applications have been submitted for the southern portion (Bosley Ave)







Denton MAN

- Connection to County Data Center Established
- Engineering design and overall layout completed
- We have fiber access to 5 buildings housing state Agencies
- Product specification underway

Elkton MAN

- Fiber build from SONET node to MSC
- Path determination in progress
- Investigating options for redundant wireless link



Project Status

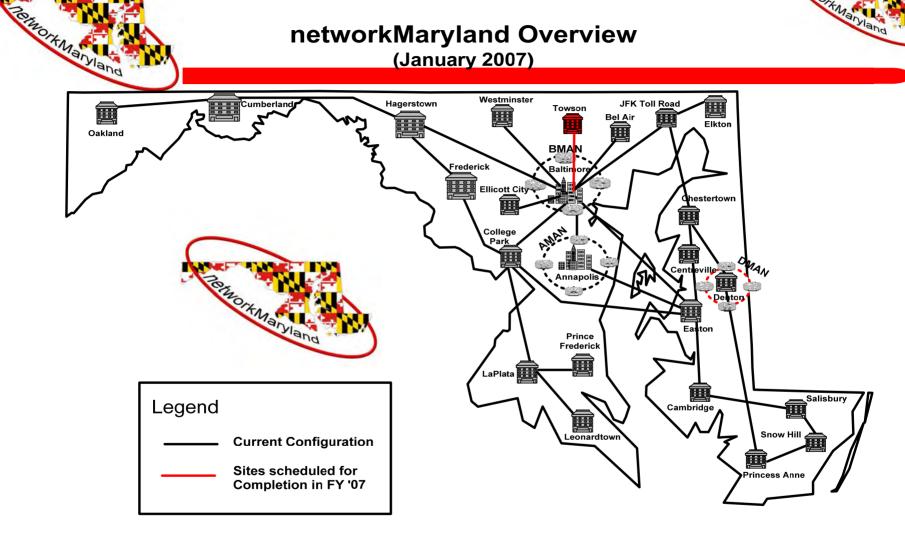


UMBC PoP

- Service State Archives connectivity between Annapolis and their backup datacenter located at UMBC
- Ability to service Catonsville MSC with a small fiber build
 - DGS
 - District Court
 - Juvenile Services
 - Parole and Probation
 - Public Defender
- Investigating partnership with UMATS and Sailor for a microwave path to Hagerstown from UMBC



networkMaryland Overview (January 2007)









Western Maryland Microwave

- Partnership with UMATS and Sailor
- Uses path of University of Maryland distance learning service no longer in use
- High Speed microwave (either OC-3 or 200 Mbps) from UMBC to Hagerstown
- Provide redundant path out of Hagerstown (does not rely on SHA Hagerstown facility)
- Leverages fiber installed by networkMaryland and UMATS
- Allows the decommissioning of 3 Inter-LATA DS-3 circuits







Fiber Projects

- Frederick MAN: Add an additional PoP in Frederick and build a diverse fiber path to the city. Partnership with Frederick County Government
- Oakland MSC: Resource Share agreement to bring fiber from Oakland to Cumberland. Agreement is under review by the State



Project Status



Other Initiatives

- Working with Maryland Broadband Cooperative (MDBC) for Statewide resource share agreement
- Working with agencies that are changing their WAN architecture
 - MSP
 - DPSCS
 - MDOT
- Updating budgeting and planning process
- Meeting setup with Carroll County to discuss joint opportunities



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Other Business



- nwMD Engineering Committee meeting
 - April 9th, 2007, 1:30 PM @ UMBC Technology Center
 - Merged with UMATS engineering meeting
- Items for discussion from the Group
- Closing Questions or Comments



Thank You



Meeting Adjourned