

Statewide High Speed Network

networkMaryland Advisory
Group Meeting

July 17, 2007

Annapolis, Maryland





Meeting Agenda



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



Welcome



- Introductions
- Gregory Urban – Director
- Ellis Kitchen – State CIT
- Guests/Visitors
- Meeting Minutes Approval
 - March
 - May
- Recertification



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Operational Customers



- 69 Subscribers today
- Circuit Breakdown
 - 75 ISP Circuits
 - 83 SwGI Circuits
 - 1164 Layer 2 Circuits
 - 10 VPN Connections



Executive Branch

Executive Branch networkMaryland Subscribers as of July 16, 2007

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	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 July 16, 2007

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

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Non-State Customers

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

Baltimore City	Internet
	SwGl
	Layer 2

Charles County Government	Internet *
	SwGl
	Layer 2

University System of Maryland	Internet
	SwGl
	Layer 2

Frederick County Government	Internet
	SwGl
	Layer 2

Baltimore City State's Attorney Office	Internet
	SwGl
	Layer 2

Carroll County Gov't	Internet *
	SwGl
	Layer 2

Maryland School for the Deaf	Internet
	SwGl
	Layer 2

Montgomery County Government	Internet
	SwGl
	Layer 2

Baltimore City Community College	Internet
	SwGl
	Layer 2

Caroline County Gov't	Internet
	SwGl
	Layer 2

Alleghany County Board of Education	Internet
	SwGl
	Layer 2

Prince Georges County Government	Internet
	SwGl
	Layer 2

College of Southern MD	Internet
	SwGl
	Layer 2

Ocean City Gov't	Internet
	SwGl
	Layer 2

Anne Arundel County Government	Internet
	SwGl *
	Layer 2

Howard County Government	Internet *
	SwGl
	Layer 2

MD Public TV (MPT)	Internet
	SwGl
	Layer 2

Garrett County Gov't	Internet
	SwGl
	Layer 2

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

CAPWIN	Internet
	SwGl
	Layer 2

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City of Laurel Gov't	Internet
	SwGl
	Layer 2

Washington County	Internet *
	SwGl *
	Layer 2

MD Environmental Service	Internet *
	SwGl
	Layer 2

NCRnet	Internet *
	SwGl
	Layer 2



Operations



- Staffing
 - Tim Conner joins our team as Project Manager
- Internal Operations and Support
 - Renewed yearly maintenance with major vendors on network equipment
 - New contract for Fire Alarm/Suppression System vendor
 - Documenting Procurement processes for better tracking of orders
 - Continued Planning for the next networkMaryland Managed Services Contract



Operations



- DNS servers: Procurement for hardware underway
- Deploying lower-port density devices throughout network to lower operational costs (e.g. AMAN & BMAN)
- Shutdown several dial-up lines at the ADC



Operations



- Consulting Services Engagements

- Assisting DPSCS in turning up networkMaryland on-net connections
- Assisting MEMA to support network requirements for their WebEOC Application
 - WebEOC Statewide Exercise held June 13, 2007
 - Internet bandwidth to both providers exceeded provisioned capacity
 - Additional hardware purchased to support bandwidth upgrade
 - Towson University will host EMA application on a trial basis



Customer Provisioning



- 56 circuits are currently in the customer's testing/implementation phase
- 8 new circuits have been provisioned since the last meeting
- 11 circuits have been accepted by the customer since the last meeting



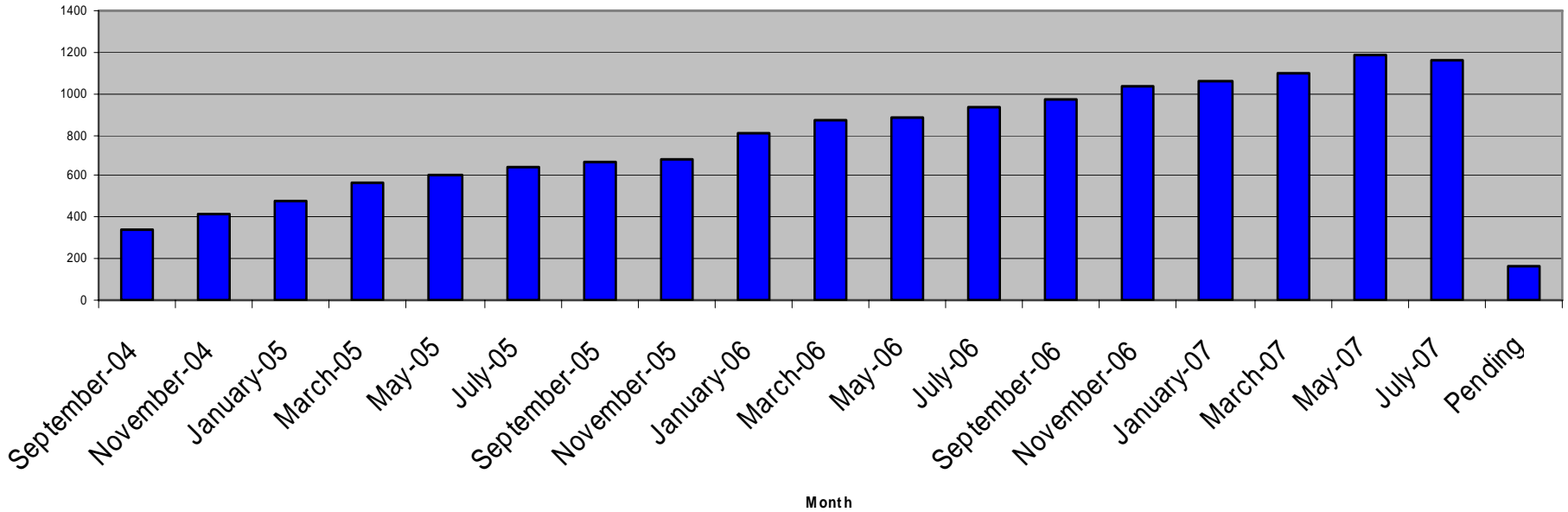
New Customers



- Baltimore County Government – Towson POP (in progress)
- Judiciary/JIS – Identified LaPlata as DR site
- WCC: Transitioning from leased line to direct fiber connection (Waiting for parts)
- NCR (National Capitol Region) Interoperability Network: Discussions on connecting DC, VA & MD entities together using SwGI
- Caroline County – ISP & SwGI
- Howard County – ISP (via MOU)



Installed Circuits





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Project Status



- DWDM Ring (Partnership with USM, MDOT)
 - Provisioning an additional wavelength
 - Parts expected in August
- Elkton SONET POP
 - Partnership with Sailor located at Elkton Library
 - Shelter is completed
 - Fiber connected to the backbone
 - Requires backbone splice for completion
 - Equipment is ready for deployment



Project Status



- **Towson POP**
 - Baltimore County is building a fiber route to County Data Center
 - Fiber installation expected by end of July
 - PMP in development
 - No ATM will be deployed at this POP
- **Salisbury MSC**
 - Initially connect to network via leased line
 - Site has been surveyed
 - PMP under development
 - No ATM will be deployed at this POP



Project Status



- Denton MAN
 - Connection to County Data Center Established
 - Engineering design and overall layout completed
 - PMP and parts lists approved
 - Install equipment in 4 buildings in Cambridge
 - Serve 17 agency connections
 - Procurement submitted. Waiting for arrival of parts.
 - Connects subscribers to the Eastern Shore microwave backbone



Project Status



- Cambridge MAN
 - Resource Share with Bay Country Communications
 - Install equipment in 4 buildings in Cambridge
 - PMP completed and approved
 - Procurement in progress
 - Serve 17 agency connections



Project Status

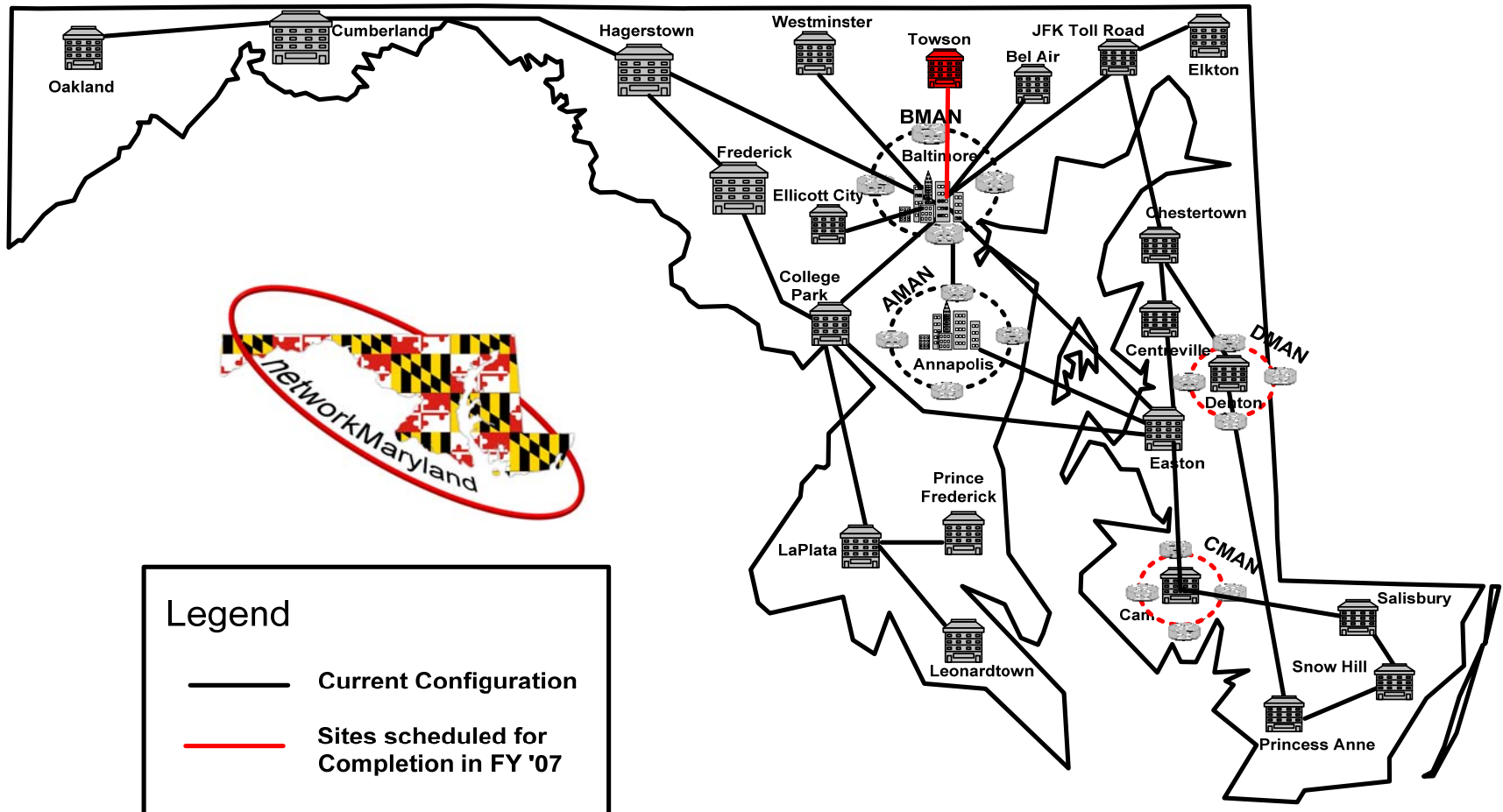


- UMBC POP
 - Service State Archives connectivity between Annapolis and their backup datacenter located at UMBC
 - Termination point for microwave connection to Hagerstown
 - Engineering of fiber route completed
 - Site surveyed and prep work completed
 - Will be connected redundantly to core via the DWDM network



Network Overview

(July 2007)





Projects in Planning



- Western Maryland Microwave
 - Partnership with UMATS and Sailor
 - High Speed microwave from UMBC to Hagerstown
 - Provide redundant path out of Hagerstown
 - Allows the decommissioning of 3 Inter-LATA circuits
- 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

- Resource sharing agreement with Fibergate: Additional fiber in Montgomery County, Prince George's County, and to Fort Detrick. Terms agreed upon and LPC letter 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.
- Oakland MSC: Resource Share agreement to bring fiber from Oakland to backbone.



Other Initiatives



- Working with MDBC on statewide fiber agreement
- Working with agencies to update WAN architecture
 - MSP
 - DPSCS
 - MDOT
 - JUD/JIS
- Evaluating various Last-Mile Access Solutions
 - Ethernet over TDM
 - Clear channel (non-ATM) access
- Migration from ATM on the backbone



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Other Business



- nwMD Engineering Committee meeting
 - August 20th, 2007, 1:30 PM @ UMBC Technology Center
 - Merged with UMATS engineering meeting
- Items for discussion from the Group
 - Acceptable Use Policy (AUP)
 - Legislative and policy sub-committee (for discussion in September)
- Closing Questions or Comments



Thank You



- Meeting Adjourned