

networkMaryland™ Advisory Group Meeting

September 16, 2008
Annapolis, MD



S T A T E O F M A R Y L A N D
D E P A R T M E N T O F I N F O R M A T I O N T E C H N O L O G Y



Meeting Agenda

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



Welcome

- Introductions
- Gregory Urban – Director, networkMaryland™
- Elliot Schlanger – Chief of Information Technology
- Guests/Visitors



New Business

- Announcements
- Meeting Minutes Approval
 - July 2008
- Transition to PTG
 - Completed
- State Budget
 - Continue fiscal responsibility and look for additional ways to reduce costs to the State
- New ISP Contract
 - Award recommendation completed





New Business

- Ethernet Everywhere Update
 - Problems with POP hardware (Turin TPE-1200)
 - Issues with stability and management of equipment threatened delivery of robust service
 - Equipment was returned to the vendor (full refund) with complete support from reseller and vendor
 - Re-evaluating equipment for near-term/long term solution
 - Turning up 8 Baltimore LATA orders
 - Expecting hardware specification for Hagerstown and Easton by the end of the month





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Operational Subscribers

- 77 Operational Subscribers (+1)
- Circuit Breakdown
 - 84 ISP Circuits (+1)
 - 89 SwGI Circuits (+1)
 - 1384 Layer 2 Circuits (-9)
 - 10 VPN Subscriber Connections (+0)

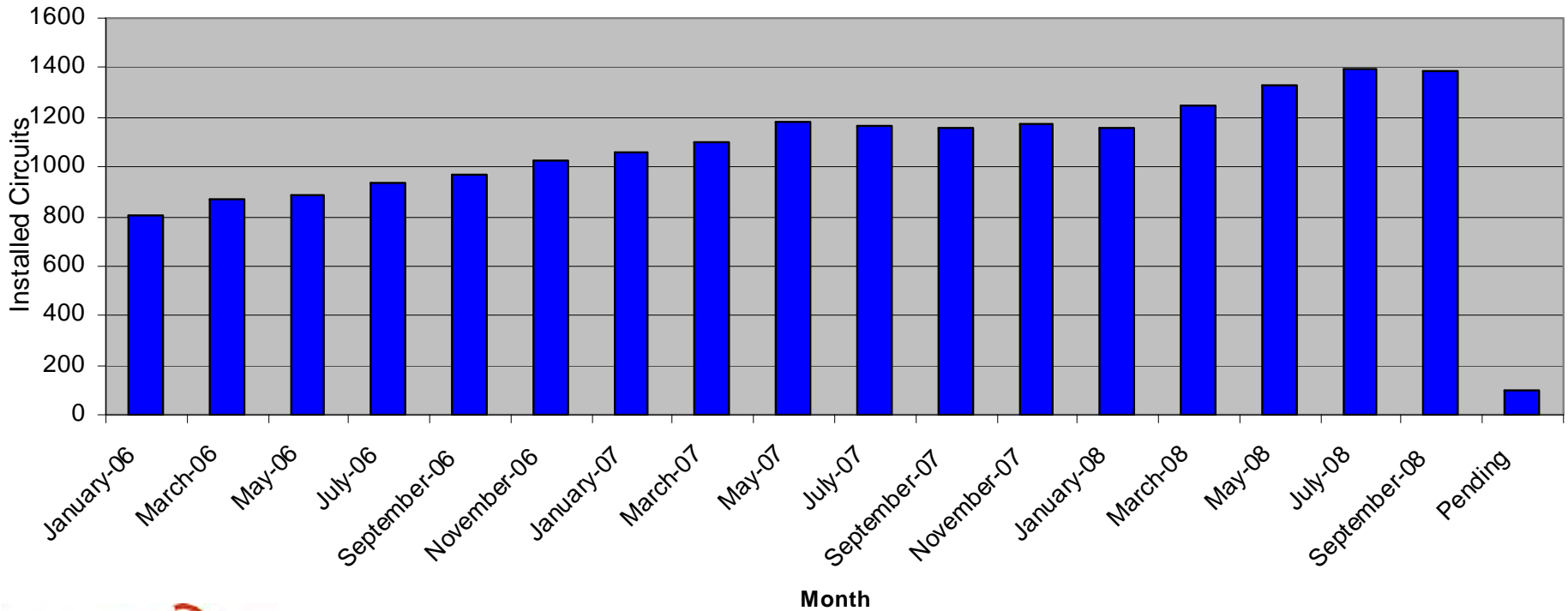


Subscriber Provisioning

- 95 circuits are currently in the subscriber's testing/implementation phase
- 35 new circuits have been provisioned since the last meeting
- 18 circuits have been accepted by the subscriber since the last meeting



Installed Circuits





Executive Branch

Executive Branch networkMaryland Subscribers as of September 12, 2008

Treasurer	Internet SwGl Layer 2	Comptroller	Internet SwGl Layer 2	Governor's Office	Internet SwGl Layer 2	Attorney General	Internet SwGl Layer 2	Secretary of State	Internet SwGl Layer 2
Aging	Internet SwGl ** Layer 2	Agriculture	Internet SwGl Layer 2 *	Budget & Management	Internet SwGl Layer 2	Business & Economic Development	Internet SwGl Layer 2	Education	Internet SwGl Layer 2 *
Environment	Internet SwGl Layer 2	General Services	Internet SwGl Layer 2	Health & Mental Hygiene	Internet SwGl Layer 2 **	Housing & Community Development	Internet SwGl Layer 2	Human Resources	Internet SwGl Layer 2 *
Information Technology	Internet SwGl Layer 2 *	Juvenile Services	Internet SwGl Layer 2 *	Labor, Licensing & Regulation	Internet SwGl Layer 2 *	Natural Resources	Internet SwGl Layer 2 *	Planning	Internet SwGl Layer 2 *
		Public Safety Correctional Services	Internet SwGl Layer 2 *	State Police	Internet SwGl Layer 2 *	Transportation	Internet SwGl Layer 2 *	Veteran's Affairs	Internet SwGl 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 September 12, 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

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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 September 12, 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 Public Schools *	Internet *
	SwGI
	Layer 2

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

CAPWIN	Internet
	SwGI
	Layer 2

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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 Provisioning Activity

- *Ethernet Everywhere: Requests continues to pour in!*
 - DHMH & MSDE: Services activated in Baltimore
 - Other Baltimore Sites (MSP, DPSCS) scheduled to be turned up by end of September
 - DHR: Plans to connect their data center @ 1100 Eastern Blvd.
 - 70 orders received or projected by agencies for FY2009

- Register of Wills

- First-time SwGI subscriber for connection to JIS

- DPSCS:

- Established a colocation router for the Baltimore LATA at 6 St. Paul





New Provisioning Activity

- Denton MSC
 - Provisioning of on-net circuits completed & CAFs distributed
 - All provisioned circuits will be Operational at end of month.
- Salisbury MSC
 - Provisioning of on-net circuits completed & CAFs distributed
 - All provisioned circuits will be Operational at end of month.
- Frederick County
 - Diverse ISP path for county
 - Waiting on FiberGate agreement to be signed.





Operations

- Operational Improvements
 - Implemented resource graphing tool (CACTI) to present bandwidth utilization reports to subscribers
 - Implemented Speedtest as an internal bandwidth testing tool
 - Implement disk mirroring and a more robust backup strategy for key network management system databases



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Project Status

- Migration from ATM to Native IP
 - Phase V: MultiService Centers
 - Updating design – evaluating MPLS aware equipment at each MSC
 - Exploring hardware options
 - Schedule will be updated
 - Phase VI: Last Mile (FRASI Replacement)
 - Ethernet Everywhere is expected to have a major role
 - Circuit aggregation equipment will support Ethernet Everywhere & clear channel circuits to customer owned CPE
 - MPLS Provisioning Software
 - Dorado Redcell – Creating operational procedures.





Project Status

- BMAN Upgrade
 - Phase III: Redesign of core – t.b.d.
 - Reduce dependency on 6 St. Paul
 - Increase presence at 301 W. Preston for connectivity to core
 - Add SONET node at Preston St.
 - Redesign SONET ring for Annapolis/Baltimore/College Park
 - Adding routing presence at Preston St
 - New schedule being created



Project Status

- CHART Video
 - Working with CHART to distribute video feeds to non-MDOT subscribers
 - Assist with the development and lab testing of CHART video services and distribution
 - Assist deploying equipment at subscriber locations
 - Deployment of multi-cast capabilities on SWGI



Project Status

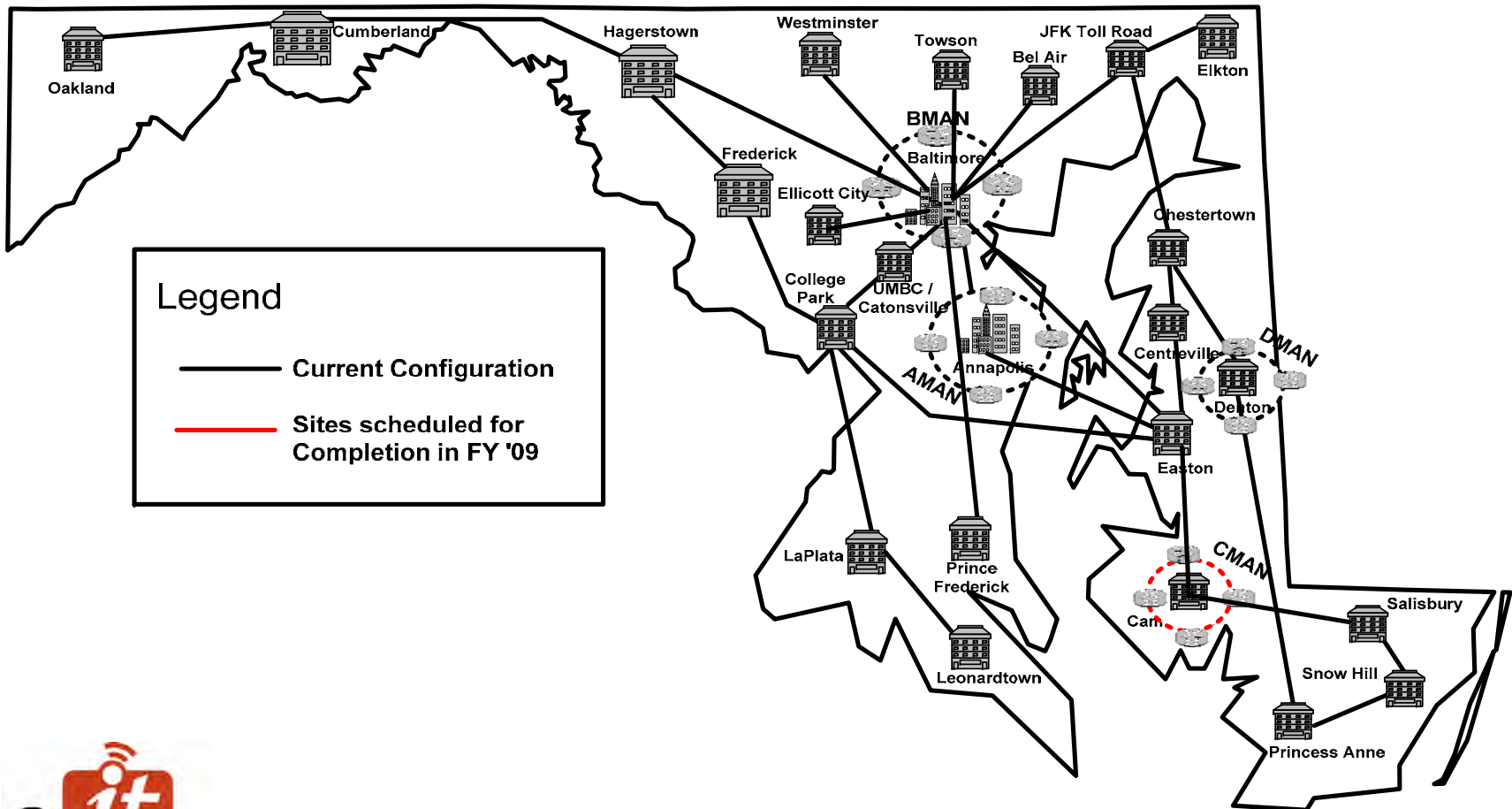
- World Trade Center (No status change)
 - New PoP established initially to support DBED
 - Building redundant fiber connection to building
 - Need to market to other tenants in the building
- Cambridge MAN (No status change)
 - Equipment has been received
 - Fiber installation in progress by Bay Country Communications
- Frederick MAN (No status change)
 - Pending FiberGate resource sharing agreement
 - Build a diverse fiber path to the city.
 - Dual connect Frederick to UMCP/Hagerstown





Network Overview

(September 2008)





Fiber Projects

- St. Mary's County
 - Receive one pair of fiber from Leonardtown MSC to US301 connecting to La Plata via Level3 fiber.
 - Construction connecting State & Metrocast fiber on hold pending a new work order under the Cable and Wiring Master Contract.
- Pikesville
 - Working with MSP, DPSCS, Baltimore County, and Baltimore City Police to build fiber along Reisterstown Road in the Pikesville Area
 - Still in planning / feasibility analysis





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Other Business

- networkMaryland™ Engineering Committee meeting
 - October 13th, 2008, 1:30 PM @ UMBC Technology Center
 - Merged with UMATS engineering meeting
- Closing Questions or Comments



Meeting Adjourned

