networkMarylandTM Advisory Group Meeting



October 19, 2010 Annapolis, MD





Meeting Agenda

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





Welcome

- Introductions
- Gregory Urban: Deputy State CIO Operations
- Guests/Visitors





New Business

- Meeting Minutes Approval
 - April 2010
- Announcements
 - Personnel
 - Jean Boyer : Operations Manager





New Business

- Product Roadmap
 - We are in the process of establishing dates for services that are in deployment and development, including
 - EE (multiple sites per LATA)
 - VPRN
 - Managed CPE
 - QoS
 - Security/Remote Access (as a service)
 - Diverse/Redundant data circuits
- Baltimore & Annapolis Fiber
 - "Clean up" fiber plant issues in each MAN



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Operational Subscribers

- 76 Operational Subscribers
- Circuit Breakdown
 - 82 ISP Circuits (+1)
 - 82 SwGI Circuits (NC)
 - 1384 Layer 2 Circuits (-13)
 - 11 VPN Subscriber Connections (NC)
 - 26 VPRN Circuits (NC)
 - 137 EE Circuits (+10)





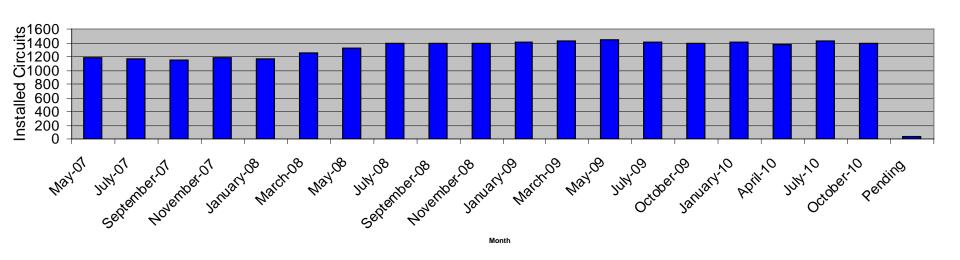
Subscriber Provisioning

- 41 circuits are currently in the subscriber's testing/implementation phase
- 47 new circuits have been provisioned since the last meeting
- 16 circuits have been accepted by the subscriber since the last meeting





Installed Circuits

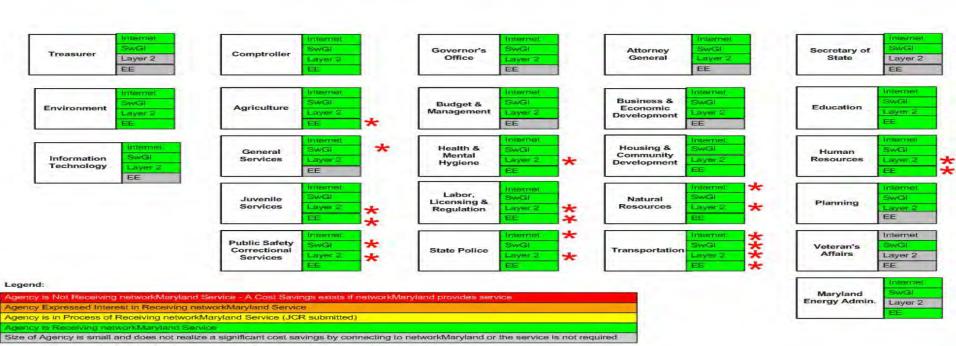






Executive Branch

Executive Branch networkMaryland Subscribers as of Oct. 19, 2010





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





Non-Executive Branch

Administration

Layer 2

EE

Non-Executive Branch networkMaryland Subscribers as of Oct. 19, 2010 Office of Office of MD General SWGI Judiciary Legislative State Lottery People's Assembly Layer 2 Layer 2 Layer 2 Layer Council Auditors EE EE EE EE Internet Maryland Department of wGl State Board of Subsequent State Assessment MIEMMS Elections Injury Fund aw. Laver 2 aven Archives and Taxation EE EE EE EE Internet Office of Commission Dept. of Layer 2 SWGI Office for Dept. of of Human Public Rehabilitative Children Military Layer 2 Layer 2 SwGI Layer 2 Relations Defender Services EE EE Maryland State Board of Workers' State MD Auto SWG SWGI State Compensation Retirement Contract Insurance Retirement Layer 2 Layer 2 Layer 2 seven 2 Layer 2 Commission Agency Fund Appeals Plan EE EE EE EE EE Internet Interne: Maryland College **MD** Higher Office of MD Stadium Emergency Education Savings Plans Crime Control Layer 2 Layer 2 Layer 2 Management Layer 2 Authority Layer 2 Commission of Maryland & Prevention Agency EE EE EE Legend: Internet Agency Expressed Interest in Receiving networkMaryland Service Office of Agency is in Process of Receiving networkMaryland Service (JCR submitted) Register of Canal Place SWE Admin Wills Authority Agency is Receiving network/Maryland Service Layer 2 Layer 2 Layer 2 Hearings Size of Agency is small and does not realize a significant cost savings by EE EE connecting to networkMaryland or the service is not required * networkMaryland Provisioning has been completed, Department is is Internet process of migrating to service **Public Service** MD Insurance Office of State

Commission

Layer 2

EE



* Agency is receiving networkMaryland service through parent, primary

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

Layer 2

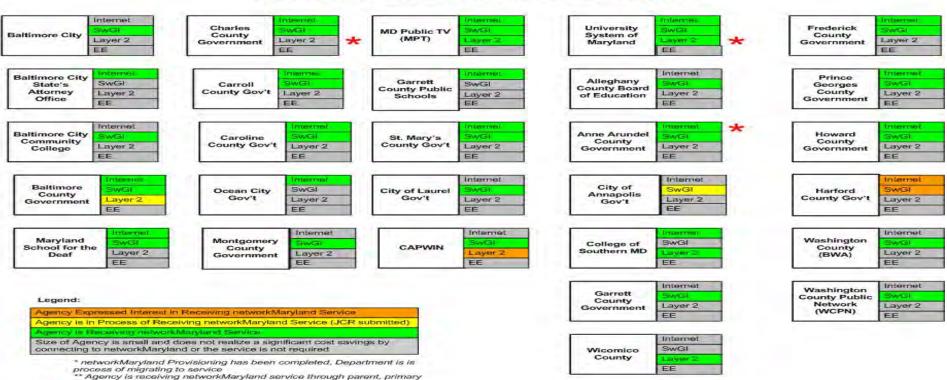
EE

Prosecutor



Non-State Customers

Non-State entities\Counties\Municipalities networkMaryland Subscribers as of Oct. 19, 2010





agency

denotes a change in service since the last Advisory Group Meeting



New Provisioning Activity

- Virtual Private Routed Network (VPRN)
 - Private Layer 3 (IP) routed network
 - Allows "many to many" connections
 - QoS will be supported
 - SwGI was the "template" configuration
 - DOIT deployment completed
 - DORS deployment is completed
 - DHR deployment is underway
 - DPSCS limited deployment in design phase





Performance Standards & Service Levels – July 2010

Jul-10	1 - Critical	2 - High	3 - Normal
# of Cases Relating to Outages	5	106	99
Initial Response from Detection (10m, 10m, 10m)	5	104	95
	100%	98%	96%
	5	104	95
Begin Diagnosis (10m, 10m, 10m)	100%	98%	96%
Initial Notificaiton to State (10m, 10m, 10m)	100 %	100 %	100 %
# of Cases for Onsite Support with Parts	0	3	4
Onsite Support With Parts (4h, 4h, 24h)	0	3	3
	100%	100%	75%
Total # of Cases Included in Escalation SLA's	5	73	84
1st Escalation (20m, 4h, 24h)	3	72	84
	60%	99%	100%
2nd Escalation (1h, 4h, 24h)	4	73	84
	80%	100%	100%
3rd Escalation (1h, 4h, 24h)	5	73	84
	100%	100%	100%
Resolution Notification (10m, 10m, 10m)	100 %	100 %	100 %





Performance Standards & Service Levels – August 2010

August 2010	1 - Critical	2 - High	3 - Normal
# of Cases Relating to Outages	7	69	83
Initial Response from Detection (10m, 10m, 10m)	7	69	78
	100%	100%	94%
	7	69	78
Begin Diagnosis (10m, 10m, 10m)	100%	100%	94%
Initial Notificaiton to State (10m, 10m, 10m)	100 %	100 %	100 %
# of Cases for Onsite Support with Parts	0	1	3
Onsite Support With Parts (4h, 4h, 24h)	0	0	3
	100%	100%	100%
Total # of Cases Included in Escalation SLA's	6	38	69
1st Escalation (20m, 4h, 24h)	6	36	68
	100%	95%	99%
2nd Escalation (1h, 4h, 24h)	6	37	68
	100%	97%	99%
3rd Escalation (1h, 4h, 24h)	6	37	68
	100%	97%	99%
Resolution Notification (10m, 10m, 10m)	100 %	100 %	100 %





Performance Standard & Service Levels – September 2010

September 2010	1 - Critical	2 - High	3 - Normal
# of Cases Relating to Outages	4	69	82
Initial Response from Detection (10m, 10m, 10m)	4	69	77
	100%	100%	94%
	4	69	78
Begin Diagnosis (10m, 10m, 10m)	100%	100%	95%
Initial Notificaiton to State (10m, 10m, 10m)	100 %	100 %	100 %
# of Cases for Onsite Support with Parts	1	1	6
Onsite Support With Parts (4h, 4h, 24h)	0	1	5
	100%	100%	83%
Total # of Cases Included in Escalation SLA's	4	40	68
1st Escalation (20m, 4h, 24h)	2	39	66
	50%	98%	97%
2nd Escalation (1h, 4h, 24h)	2	40	67
	50%	100%	99%
3rd Escalation (1h, 4h, 24h)	4	40	67
	100%	100%	99%
Resolution Notification (10m, 10m, 10m)	100 %	100 %	100 %





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- Ethernet Everywhere
 - We are at capacity in several POPs
 - Received two Overture 6000s
 - Installed two OC-3s
 - Ordering "tail circuits" for Baltimore and Eastern Shore
 - Working on establishing multiple "hub" sites in each LATA





- ARRA Round 2: DoIT awarded \$115M for Statewide project
 - Working with MdBC for deployment in rural counties
 - \$43M grant funds
 - \$14M State matching funds
 - Howard County led consortium of counties for deployment in central Maryland
 - \$72M grant funds
 - \$20M cash match (\$2M State match)
 - First 6-9 months: Environmental Assessment
 - Finalizing Site List and Fiber Routes
 - 1006 Anchor Institutions / 1293 miles of new fiber





- Migration from ATM to Native IP
 - Target for Migration : 12/31/2011
 - networkMaryland will create non-EE "TDM" offering for migration
 - DoIT will work with OBA for budgeting
 - DolT has budgeted for hardware required to migrate
 - DoIT will submit to OBA
 - Circuit costs / EE Costs for agencies
 - Consulting services
 - Phase VI: Last Mile (FRASI Replacement)
 - In progress: MSP; DPSCS, WCC
 - Phase VII: Direct ATM Connections
 - In progress: DJS; DHR; DORS; DPSCS; MDOT; WCC





- Network Resiliency Initiative : Separate service delivery from core
 - Dedicated routers for upstream ISP connectivity (Completed)
 - Move Layer3 terminations off core routers
 - UMCP: In progress (ARRA funding ties)
 - Baltimore: In progress (ARRA funding ties)
 - Deliver L3 services at 6 Saint Paul as an MSC: Completed
 - Deliver L3 services at 301 W Preston as an MSC: In progress
 - Direct fiber connected buildings in Baltimore @ 6 Saint Paul
 - Direct fiber connected buildings in Baltimore @ 301 W Preston
 - Hagerstown
 - Easton





- Deployment of multi-cast capabilities on SWGI
 - Distribute CHART video feeds to non-MDOT subscribers
 - Established access to CHART application via SWGI
 - Distribute Flash video over SWGI (unicast): completed
 - Awaiting code fix for Juniper software bug.
 - Currently Lab Testing New Code Version
- Akamai Agreement
 - Installed and Operational





- Frederick MAN
 - Build a diverse fiber path through Frederick
 - Frederick County is dual connected to networkMaryland at diverse POPs (UMCP and Hagerstown)
- Cambridge MAN
 - Meetings with Bay Country to establish timeline for fiber installations at State offices
- Initiate Eastern Shore Fiber Backbone project
 - On hold pending ARRA funding



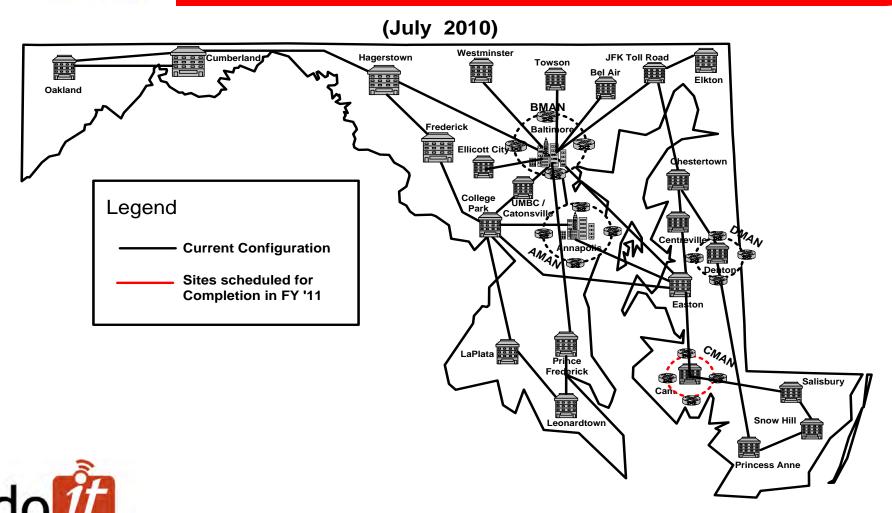
Fiber Projects

- Pikesville
 - Working with MSP, DPSCS, Baltimore County, and Baltimore City Police to build fiber along Reisterstown Rd near Pikesville
- Hagerstown: Fiber to DPSCS complex:
 - Part of ARRA proposal
- Fiber documentation and mapping project
 - Hagerstown: Documentation in Progress
 - Baltimore City: Documentation in Progress



DEPARTMENT OF INFORMATION TECHNOLOGY.

Network Overview





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Other Business

- networkMarylandTM Engineering Committee meeting
 - November 8th, 2010, 1:30 PM @ UMBC Technology Center
 - Merged with UMATS engineering meeting
- Closing Questions or Comments





Meeting Adjourned



