

# networkMaryland™ Advisory Group Meeting

April 17, 2012  
Annapolis, MD



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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: Deputy State CIO - Operations
- Guests/Visitors





# NEW BUSINESS

- Meeting Minutes Approval
  - January 2011
- Personnel Update
- Presence at Equinix
  - Part of the ISP Peering fabric
  - Access to more ISPs
  - Future redundant path to western Maryland





# NEW BUSINESS - ISP

- Rates reduced - bandwidth increased

Bandwidth (Mbps)	Cost/Month	NRC	Cost/Mbps
10	\$ 150.00	\$ -	\$ 15.00
15	\$ 225.00	\$ -	\$ 15.00
20	\$ 300.00	\$ -	\$ 15.00
25	\$ 375.00	\$ -	\$ 15.00
50	\$ 725.00	\$ -	\$ 14.50
75	\$ 1,050.00	\$ -	\$ 14.00
100	\$ 1,300.00	\$ -	\$ 13.00
150	\$ 1,875.00	\$ -	\$ 12.50
200	\$ 2,400.00	\$ -	\$ 12.00
300	\$ 3,450.00		\$ 11.50
400	\$ 4,400.00		\$ 11.00
500	\$ 5,250.00		\$ 10.50
600	\$ 6,000.00		\$ 10.00
700	\$ 6,650.00		\$ 9.50
800	\$ 7,200.00		\$ 9.00
900	\$ 7,650.00		\$ 8.50
1000	\$ 8,000.00		\$ 8.00





# NEW BUSINESS - BUNDLES

## Bundles : ISP + SWGI / OMBN

100Mbps ISP : 100Mbps SWGI/OMBN

isp-00100  
swgi-00100

100 Mbps ISP  
100 Mbps SWGI / OMBN

**\$ 20,000 annual**

500Mbps ISP : 1000Mbps SWGI/OMBN

isp-00500  
swgi-01000

500 Mbps ISP  
1 Gbps SWGI / OMBN

**\$ 80,000 annual**

1000Mbps ISP : 1000Mbps SWGI/OMBN

isp-01000  
swgi-01000

1 Gbps ISP  
1 Gbps SWGI / OMBN

**\$112,000 annual**





# NEW BUSINESS - INTRANET

- Intranet (SwGI / OMBN)
  - Only two tiers
  - Second (redundant) connection: \$100/month (active/standby)

## Statewide Government Intranet (SWG I) / One Maryland Broadband Network (OMB N)

Bandwidth (Mbps)	Cost/Month	NRC	Cost/Mbps	
100	\$ 400.00	\$ -	\$ 4.00	
1000	\$ 2,000.00	\$ -	\$ 2.00	





# MEETING AGENDA

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# OPERATIONAL SUBSCRIBERS

- 81 Operational Subscribers – one new subscriber  
**DLLR/DUI – Division of Unemployment Insurance**
- Circuit Breakdown
  - 91 ISP Circuits (+0)
  - 90 SwGI Circuits (+0)
  - 1459 Layer 2 Circuits (+54)
  - 13 VPN Subscriber Connections (+0)
  - 44 VPRN Circuits (+8)
  - 403 EE Circuits (+70)





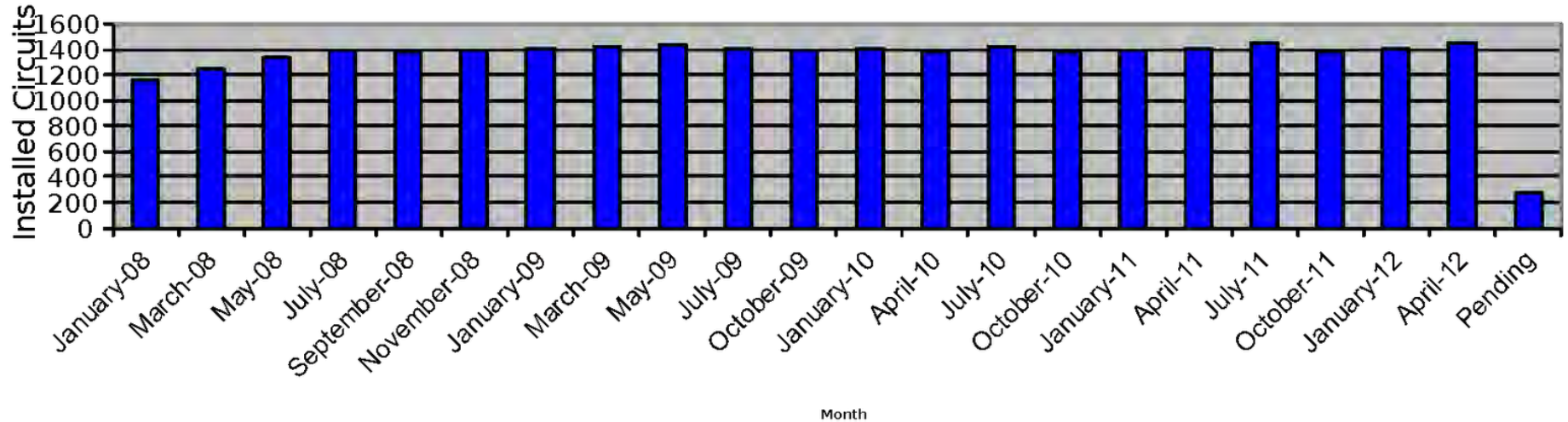
# Subscriber Provisioning

- 131 Provisioning requests were received
- 281 Active provisioning requests are in process
- 140 tickets were completed  
(Customer Acceptance form sent to customer)
- Of the 140 completed tickets, 92 were accepted/closed
- Completed large push by DHMH to migrate to EE





# Installed Circuits



\*



# Executive Branch

## Executive Branch networkMaryland Subscribers as of April 17, 2012

Agency	Service	Status
Treasurer	Internet	*
	SwGI	
	Layer 2	
	EE	
Comptroller	Internet	*
	SwGI	*
	Layer 2	*
	EE	
Governor's Office	Internet	*
	SwGI	
	Layer 2	
	EE	
Attorney General	Internet	*
	SwGI	
	Layer 2	
	EE	
Secretary of State	Internet	*
	SwGI	
	Layer 2	
	EE	
Environment	Internet	*
	SwGI	*
	Layer 2	*
	EE	
Agriculture	Internet	
	SwGI	*
	Layer 2	
	EE	
Budget & Management	Internet	
	SwGI	
	Layer 2	
	EE	
Business & Economic Development	Internet	
	SwGI	
	Layer 2	
	EE	
Education	Internet	
	SwGI	
	Layer 2	
	EE	
Information Technology	Internet	*
	SwGI	
	Layer 2	
	EE	
General Services	Internet	
	SwGI	
	Layer 2	
	EE	
Health & Mental Hygiene	Internet	
	SwGI	
	Layer 2	*
	EE	*
Housing & Community Development	Internet	
	SwGI	
	Layer 2	
	EE	
Human Resources	Internet	*
	SwGI	*
	Layer 2	*
	EE	*
Labor, Licensing & Regulation/ Division of Unempl. Ins.	Internet	*
	SwGI	
	Layer 2	
	EE	
Juvenile Services	Internet	
	SwGI	
	Layer 2	*
	EE	
Public Safety Correctional Services	Internet	*
	SwGI	*
	Layer 2	*
	EE	*
Labor, Licensing & Regulation	Internet	*
	SwGI	
	Layer 2	
	EE	
Natural Resources	Internet	
	SwGI	
	Layer 2	*
	EE	*
Planning	Internet	*
	SwGI	
	Layer 2	
	EE	
State Police	Internet	*
	SwGI	*
	Layer 2	*
	EE	*
Transportation	Internet	*
	SwGI	*
	Layer 2	*
	EE	*
Veteran's Affairs	Internet	
	SwGI	
	Layer 2	
	EE	
Maryland Energy Admin.	Internet	*
	SwGI	
	Layer 2	
	EE	
Maryland Coordination & Analysis Center	Internet	
	SwGI	
	Layer 2	
	EE	

- 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 April 17, 2012

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# NON-STATE CUSTOMERS

Non-State entities\Counties\Municipalities  
networkMaryland Subscribers as of April 17, 2012

<b>Baltimore City</b>	Internet SwGI Layer 2 EE	<b>Charles County Government</b>	Internet SwGI Layer 2 EE *	<b>MD Public TV (MPT)</b>	Internet SwGI Layer 2 EE	<b>University System of Maryland</b>	Internet SwGI Layer 2 EE	<b>Frederick County Government</b>	Internet SwGI Layer 2 EE
<b>Baltimore City State's Attorney Office</b>	Internet SwGI Layer 2 EE	<b>Carroll County Gov't</b>	Internet SwGI Layer 2 EE	<b>Garrett County Public Schools</b>	Internet SwGI Layer 2 EE	<b>Alleghany County Board of Education</b>	Internet SwGI Layer 2 EE	<b>Prince Georges County Government</b>	Internet SwGI Layer 2 EE
<b>Baltimore City Community College</b>	Internet SwGI Layer 2 EE	<b>Caroline County Gov't</b>	Internet SwGI Layer 2 EE	<b>St. Mary's County Gov't</b>	Internet SwGI Layer 2 EE	<b>Anne Arundel County Government</b>	Internet SwGI Layer 2 EE	<b>Howard County Government</b>	Internet SwGI Layer 2 EE
<b>Baltimore County Government</b>	Internet SwGI Layer 2 EE	<b>Ocean City Gov't</b>	Internet SwGI Layer 2 EE	<b>City of Laurel Gov't</b>	Internet SwGI Layer 2 EE	<b>City of Annapolis Gov't</b>	Internet SwGI Layer 2 EE	<b>Harford County Gov't</b>	Internet SwGI Layer 2 EE
<b>Maryland School for the Deaf</b>	Internet SwGI Layer 2 EE	<b>Montgomery County Government</b>	Internet SwGI Layer 2 EE	<b>CAPWIN</b>	Internet SwGI Layer 2 EE	<b>College of Southern MD</b>	Internet SwGI Layer 2 EE	<b>Washington County (BWA)</b>	Internet SwGI Layer 2 EE
						<b>Garrett County Government</b>	Internet SwGI Layer 2 EE	<b>Washington County Public Network (WCPN)</b>	Internet SwGI Layer 2 EE
						<b>Wicomico County</b>	Internet SwGI Layer 2 EE	<b>Baltimore City Police Department</b>	Internet SwGI Layer 2 EE
						<b>Frederick County Public Schools</b>	Internet SwGI Layer 2 EE		

**Legend:**

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\*



# SERVICE LEVEL PERFORMANCE

January 2012	1 - Critical	2 - High	3 - Normal
# of Cases Relating to Outages	14	61	16
Initial Response from Detection (10m, 10m, 10m)	14 100 %	61 100 %	15 94 %
Begin Diagnosis (10m, 10m, 10m)	14 100 %	60 98 %	15 94 %
Initial Notificaiton to State (10m, 10m, 10m)	100 %	100 %	100 %
# of Cases for Onsite Support with Parts	0	1	0
Onsite Support With Parts (4h, 4h, 24h)	0 100 %	0 0 %	0 100 %
Total # of Cases Included in Escalation SLA's (Not Approved for Exemption)	8	33	14
1st Escalation (20m, 4h, 24h)	8 100 %	32 97 %	14 100 %
2nd Escalation (1h, 4h, 24h)	8 100 %	32 97 %	14 100 %
3rd Escalation (1h, 4h, 24h)	8 100 %	32 97 %	14 100 %
Resolution Notification (10m, 10m, 10m)	100 %	100 %	100 %



\*



# SERVICE LEVEL PERFORMANCE

February 2012	1 - Critical	2 - High	3 - Normal
# of Cases Relating to Outages	6	56	21
Initial Response from Detection (10m, 10m, 10m)	6 100 %	56 100 %	21 100 %
Begin Diagnosis (10m, 10m, 10m)	6 100 %	56 100 %	21 100 %
Initial Notificaiton to State (10m, 10m, 10m)	100 %	100 %	100 %
# of Cases for Onsite Support with Parts	0	0	0
Onsite Support With Parts (4h, 4h, 24h)	0 100 %	0 100 %	0 100 %
Total # of Cases Included in Escalation SLA's (Not Approved for Exemption)	6	36	15
1st Escalation (20m, 4h, 24h)	6 100 %	36 100 %	14 93 %
2nd Escalation (1h, 4h, 24h)	6 100 %	36 100 %	15 100 %
3rd Escalation (1h, 4h, 24h)	6 100 %	36 100 %	15 100 %
Resolution Notification (10m, 10m, 10m)	100 %	100 %	100 %



\*





# SERVICE LEVEL PERFORMANCE

March 2012	1 - Critical	2 - High	3 - Normal
# of Cases Relating to Outages	3	82	18
Initial Response from Detection (10m, 10m, 10m)	3 100 %	82 100 %	18 100 %
Begin Diagnosis (10m, 10m, 10m)	3 100 %	81 99 %	18 100 %
Initial Notificaiton to State (10m, 10m, 10m)	100 %	100 %	100 %
# of Cases for Onsite Support with Parts	0	0	0
Onsite Support With Parts (4h, 4h, 24h)	0 100 %	0 100 %	0 100 %
Total # of Cases Included in Escalation SLA's (Not Approved for Exemption)	2	30	10
1st Escalation (20m, 4h, 24h)	2 100 %	29 97 %	10 100 %
2nd Escalation (1h, 4h, 24h)	2 100 %	29 97 %	10 100 %
3rd Escalation (1h, 4h, 24h)	2 100 %	29 97 %	10 100 %
Resolution Notification (10m, 10m, 10m)	100 %	100 %	100 %



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# MAINTENANCE PLANNING

- Planning maintenance activities for 3 quarters
- Fewer service impacting maintenance work
- Schedule regular quarterly (i.e. code upgrades)
- Group work by hardware manufacturer
- Use extended release code versions whenever possible





# SONET NETWORK

- Problems with SONET equipment at Keyzers Ridge
  - Multiple power outages at site / loss of backplane communication
  - Replaced chassis with last spare
- Decommissioned Elkton chassis to replenish spares
- Will decommission McLean and La Plata as part of 10Gig upgrade





# MEETING AGENDA

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





# PROJECT STATUS

- One Maryland Broadband Network
  - Received backbone hardware
  - Engineering work substantially complete
  - Construction is underway in Southern MD and eastern shore
  - Equipment installation completed at UMCP
  - Staging equipment for southern ring
    - UMCP
    - Annapolis (ADC, GenServ)
    - LaPlata
    - Leonardtown
    - Prince Frederick





# PROJECT STATUS

- Creating new MSC / Fiber connected deployments
  - 44 North Potomac Street, Hagerstown
  - PG County Courthouse, Upper Marlboro
  - 315 High Street, Chestertown
  - 100 W. Patrick Street, Frederick
  - 100 E. All Saints Street, Frederick
  - Wabash Courthouse, Baltimore
  - 7500 Ritchie Highway, Glen Burnie





# PROJECT STATUS

- Network Resiliency: Separate service delivery & core
  - Dedicated routers for upstream ISP connectivity: *completed*
  - Move Layer 3 terminations off core routers
  - Migrate MANs from Layer 2 to Layer 3 connections
  - See *OMBN Design Criteria document*
- Backbone Upgrade to 10Gbps: Full schedule developed
  - Southern Ring: July 2012
  - Northern Eastern Shore Ring: September 2012
    - Annapolis
    - Centerville
    - Chestertown
    - Elkton
    - Baltimore





# PROJECT STATUS

- Deployment of multi-cast capabilities on SWGI
  - All devices installed and code at proper levels.
- Frederick MAN
  - Build a diverse fiber path through Frederick: County will supply a pair of fiber to get a redundant path LEC to Health Dept.
- Cambridge MAN
  - District Courthouse and Dorchester County Office Building
- Initiate Eastern Shore Fiber Backbone project
  - 12 strands of fiber received from MdBC on entire shore
  - Princess Anne and Elkton next on the list



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# FIBER PROJECTS

- Pikesville
  - Compete: Migrated backbone circuits to our private fiber connection
  - Redundant fiber connection via Verizon TLS to ADC
- Hagerstown: Fiber to DPSCS complex:
  - Part of OMBN project
- Fiber documentation and mapping project
  - Level3 Backbone: To be completed by MdBC as part of Resource Share Agreement (2 years to complete - clock reset to April 2012)





# MEETING AGENDA

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





# OTHER BUSINESS

- networkMaryland™ Engineering Committee meeting
  - Monday May14th, 2011, 1:30 PM @ UMBC Technology Center
  - Merged with MDREN engineering meeting
- Closing Questions or Comments



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# MEETING ADJOURNED

