Statewide High Speed Network

networkMaryland Advisory Group Meeting

January 16, 2007

Annapolis, Maryland

MEETING AGENDA

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

Welcome

- Introductions
- Gregory Urban – Director
- Ellis Kitchen – State CIO
- Meeting Minutes Approval

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Operational Customers

- 66 Subscribers today

- Circuit Breakdown
  - 73 ISP Circuits
  - 76 SwGI Circuits
  - 1056 Layer 2 Circuits
  - 10 VPN Connections

Executive Branch
networkMaryland Subscribers as of January 12, 2007

| 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 |

| 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 is process of migrating to service
** Agency is receiving networkMaryland service through parent, primary agency

Non-Executive Branch
networkMaryland Subscribers as of January 12, 2007

Charles County Government	Internet
	SwGI
	Layer 2

Office of People's Council	Internet
	SwGI
	Layer 2

State Lottery	Internet
	SwGI
	Layer 2

University System of Maryland	Internet
	SwGI
	Layer 2

Frederick County Government	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

Montgomery County Government	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
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Office of Legislative Auditors	Internet
	SwGI
	Layer 2

Prince Georges County Government	Internet
	SwGI
	Layer 2

Workers' Compensation Commission	Internet
	SwGI
	Layer 2

State Retirement Agency	Internet
	SwGI
	Layer 2

Judiciary	Internet
	SwGI
	Layer 2

Alleghany County Board of Education	Internet
	SwGI
	Layer 2

Dept. of Rehabilitative Services	Internet **
	SwGI**
	Layer 2

MD Higher Education Commission	Internet
	SwGI
	Layer 2

College Savings Plans of Maryland	Internet
	SwGI
	Layer 2

Maryland State Retirement Plan	Internet
	SwGI
	Layer 2

Maryland Emergency Management Agency	Internet *
	SwGI
	Layer 2
★

State Board of Contract Appeals	Internet
	SwGI
	Layer 2

Public Service Commission	Internet
	SwGI
	Layer 2

Baltimore City	Internet
	SwGI
	Layer 2

MD Insurance Administration	Internet
	SwGI
	Layer 2

MD General Assembly	Internet
	SwGI
	Layer 2

Baltimore City Community College	Internet
	SwGI
	Layer 2

Legend:

CAPWIN	Internet
	SwGI
	Layer 2

Anne Arundel County Government	Internet
	SwGI *
	Layer 2
★

Howard County Government	Internet
	SwGI
	Layer 2
★

Carroll County Gov't	Internet
	SwGI
	Layer 2

Office of Admin Hearings	Internet
	SwGI
	Layer 2

MD Auto Insurance Fund	Internet
	SwGI
	Layer 2

★ | Caroline County Gov't | Internet |
|---|---|
| | SwGI |
| | Layer 2 |
★★

MD Stadium Authority	Internet
	SwGI
	Layer 2

MD Public TV (MPT)	Internet
	SwGI
	Layer 2

Operations

Milestones\New Business

- Legacy FMIS migration
  - Only 1 remaining customer
    - Remaining Agency waiting for their circuit to be ready
- Baltimore ISP bandwidth upgrade completed
- Initiated Engineering Resiliency study on the network
  - Intend to achieve redundancy\diversity at key sites
- Bearing Point completed Disaster Recovery Planning document
- DNS for SwGI
  - Reserved "swgi.state.md.us" domain name from SAILOR
- DC Power plant maintenance for UMCP & 6 St. Paul awarded to SEI, Inc.

Upcoming Tasks

- Customers on the Horizon
  - Baltimore City State's Attorney's Office (depending on fiber connections within 6 St. Paul)
  - SAILOR Ethernet hand-off @ Elkton (pending PoP completion)
  - WCC (Ready to transition from leased line to direct fiber connection – Spring 2007)
  - St. Mary's County – ISP & SwGI (pending MOU)
  - Caroline County – ISP & SwGI (pending MOU)
  - Garrett County – ISP (pending MOU)
  - VoIP trial with MSP (Northeast to Easton)
    - Router is in place and ready to deliver services
    - Test date for MSP: Jan. 23, 2007

VPN Pricing

- VPN Pricing Model
  - Two types of VPN offerings
    - IPSec LAN-to-LAN (firewall-to-VPN Concentrator)
    - IPSec Remote VPN Client (VPN client-to-VPN Concentrator)
  - VPN provides access to only SwGI-hosted resources
  - Flat fee of $500 per month
  - Remote VPN clients – up to 20 connections. If more connections are needed, additional charges will apply.

Circuit Provisioning and Acceptance

- 180 circuits are currently in the customer's testing/implementation phase

- 55 new circuits have been provisioned since the last meeting

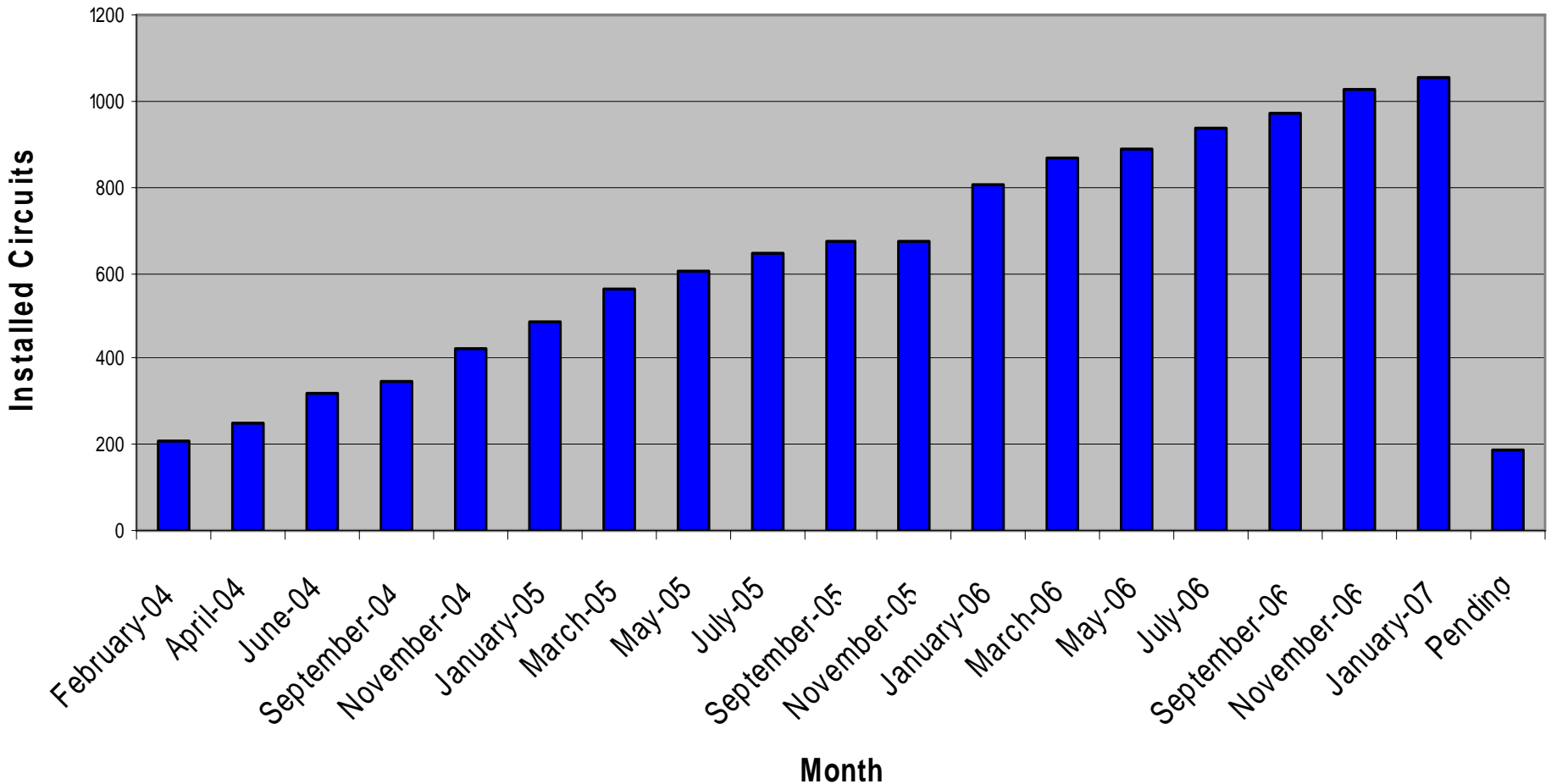- 30 circuits have been accepted by the customer since the last meeting

Network Operational Status

- Growth Chart

networkMaryland Installed Circuit Chart

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Project Status

- DWDM Ring (Partnership with USM, MDOT)
  - Fully Operational
  - Provisioned two fully redundant OC-48 circuits between UMCP and 6 St. Paul

- Legacy Cienna DWDM ring
  - Only used by MAX
  - Set to decommission in February

Project Status

- Elkton SONET PoP
  - Partnership with Sailor
  - Located at Elkton Library
  - Shelter is on site, requires assembly
  - Construction has begun

- 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)
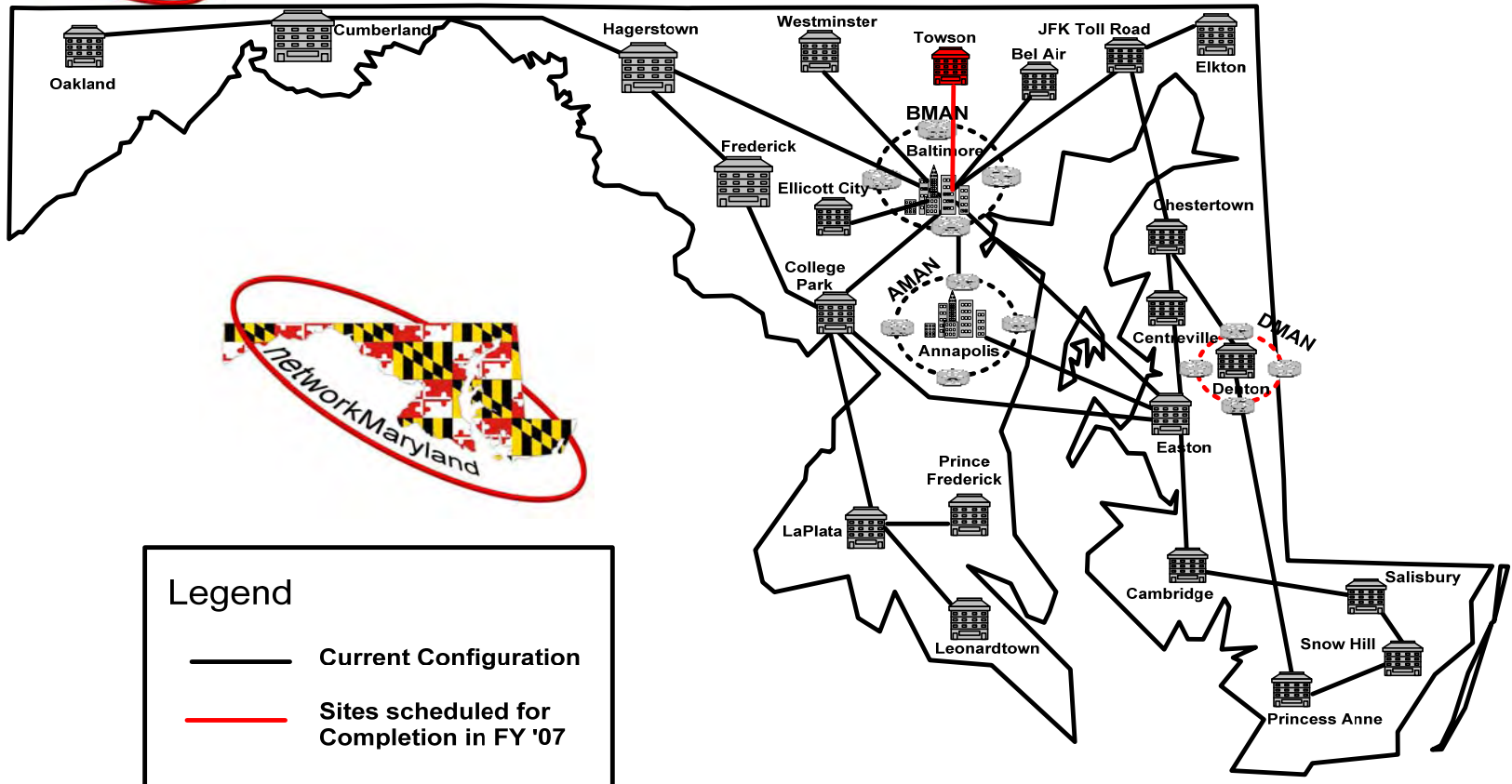
Project Status

- Denton MAN
  - Met with Caroline county to review fiber plant
  - Engineering design and overall layout completed
  - Product specification underway

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

Potential Projects

- 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

Potential Projects

- MSCs that do not have a networkMaryland presence
  - Arbutus
  - Centreville
  - Denton
  - Essex
  - Glen Burnie
  - Hagerstown
  - Patapsco Ave
  - Salisbury
  - Wabash

Potential Projects

Areas with a high density of private line circuits
Possible MAN builds

- Bel Air
- Cambridge
- Centreville
- Chestertown
- Cumberland
- Easton
- Elkton
- Ellicott City
- Frederick
- Hagerstown

- La Plata
- Leonardtown
- Oakland
- Prince Frederick
- Princess Anne
- Rockville
- Salisbury
- Snow Hill
- Upper Marlboro
- Westminster

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Other Business

- ● nwMD Engineering Committee meeting
  - – February 12th, 2006, 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