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OARnet
an Ohio Technology Consortium Member



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OARtech



About OARnet

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OARnet

Weathermaps

- Provides live details of network status and utilization
- Primarily used by engineering and service desk
- Implemented with a mix of available open source tools and in-house development
- Access to maps is limited to OARnet customers, password + IP address restrictions
- Contact the Service Desk for your login information

https://oar.net/
weathermap

Home

Network WeatherMaps



OARnet Client use only

best viewed by Chrome or recent Firefox

Please note: maps include service and non-service affecting maintenance and outages. For example, a red link or node may indicate scheduled maintenance that does not effect customers.

A **username, password and OARnet client IP address** is required to view the maps. Please contact the [service desk](#) with questions or to obtain your institution's security information.

Overview Maps

- **100Gbps**
100Gbps deployment status
- **Core Services**
Utilization of core services (updated every 5 minutes)
- **Optical Backbone**
DWDM optical network status (updated every minute)

Backbone utilization by ring

(updated every 5 minutes)

- **Ring 0** (Columbus)
- **Ring 1** (Columbus - Toledo - Cleveland)
- **Ring 2** (Cleveland - Youngstown - Akron - Columbus)
- **Ring 3** (Cincinnati - Dayton - Columbus)
- **Ring 4** (Athens - Portsmouth - Columbus)
- **Ring 5** (Lima - Columbus)
- **Ring 6** (Columbus)

Utilization by link type

(updated every 5 minutes)

- 10g backbone connections
- 1g backbone connections
- K-12 (ITC) network
- Transit Peering and Services
- Shared Gig Circuits

Upcoming Events more

- Wednesday, October 10, 2012 - [OARtech Meeting](#) (Akron, Ohio)
- October 23, 2012 - [OARnet BOR-CIO Advisory Board Meeting](#) (Columbus, OH)
- November 1, 2012 - [OARnet Advisory Board Meeting \(BOR\)](#) (Columbus, OH)

Recent News more

- [Columbus, Ohio](#) (September 24, 2012) - [Ohio State Leads Project to Develop "Science DMZ" on Internet](#)
- [Columbus, Ohio](#) (September 11, 2012) - [OARnet hosts national meeting of networking community](#)
- (June 1, 2012) - [Kasich Highlights the Future of OARnet- Ohio's Academic Research Network](#)



OARnet Working at the #2fmm12 Internet bar along side people from Japan, United States, and China. Awesome.
7 days ago · [reply](#) · [retweet](#) · [favorite](#)

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DWDM OPTICAL BACKBONE
 53 Optical Nodes
 8 SA Events Today
 0 NSA Events Today
 1 Standing Alarm

Overall status.
 Daily status resets
 at midnight.

Node status alarms classified
 SA (service affecting) or
 NSA (non service affecting)



status

Hover over
 nodes to
 see status
 message

status
 message

status

```
hwscq
hwscq-o1.ring6 -1,1
4106:incomingOverheadSignalAbsent=minorNSA
```

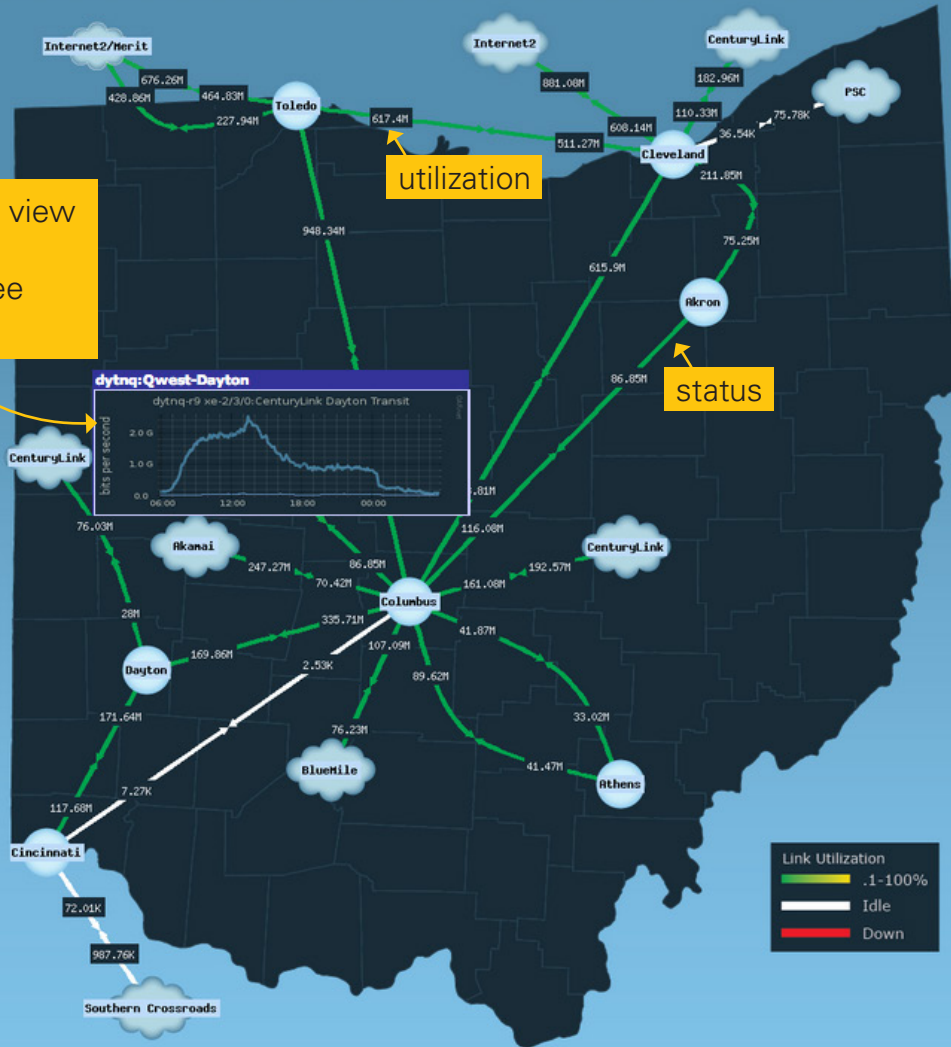
Link/Node State	
Green	Ok
Yellow	Warning
Blue	Unknown
Red	Critical
Grey	Disabled

Updated: Oct 10 2012 05:54:06

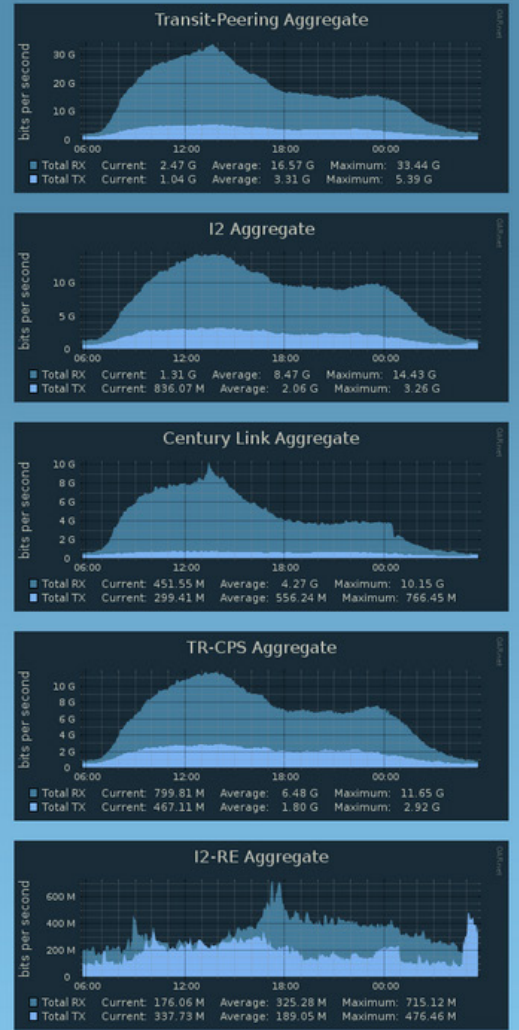
- updated once per minute
- high level overview - good / bad / unknown
- Hover over a node to see alarms details
- DWDM fiber backbone topology
- Fiber Status - communicate fiber cuts
- Many alarms are due to routine maintenance such as turning up new circuits or preventative maintenance.

- custom back end
- php weathermap front end
- in-house artwork

- Hover over a link to view Time Series Graph
- Click on graph to see longer history



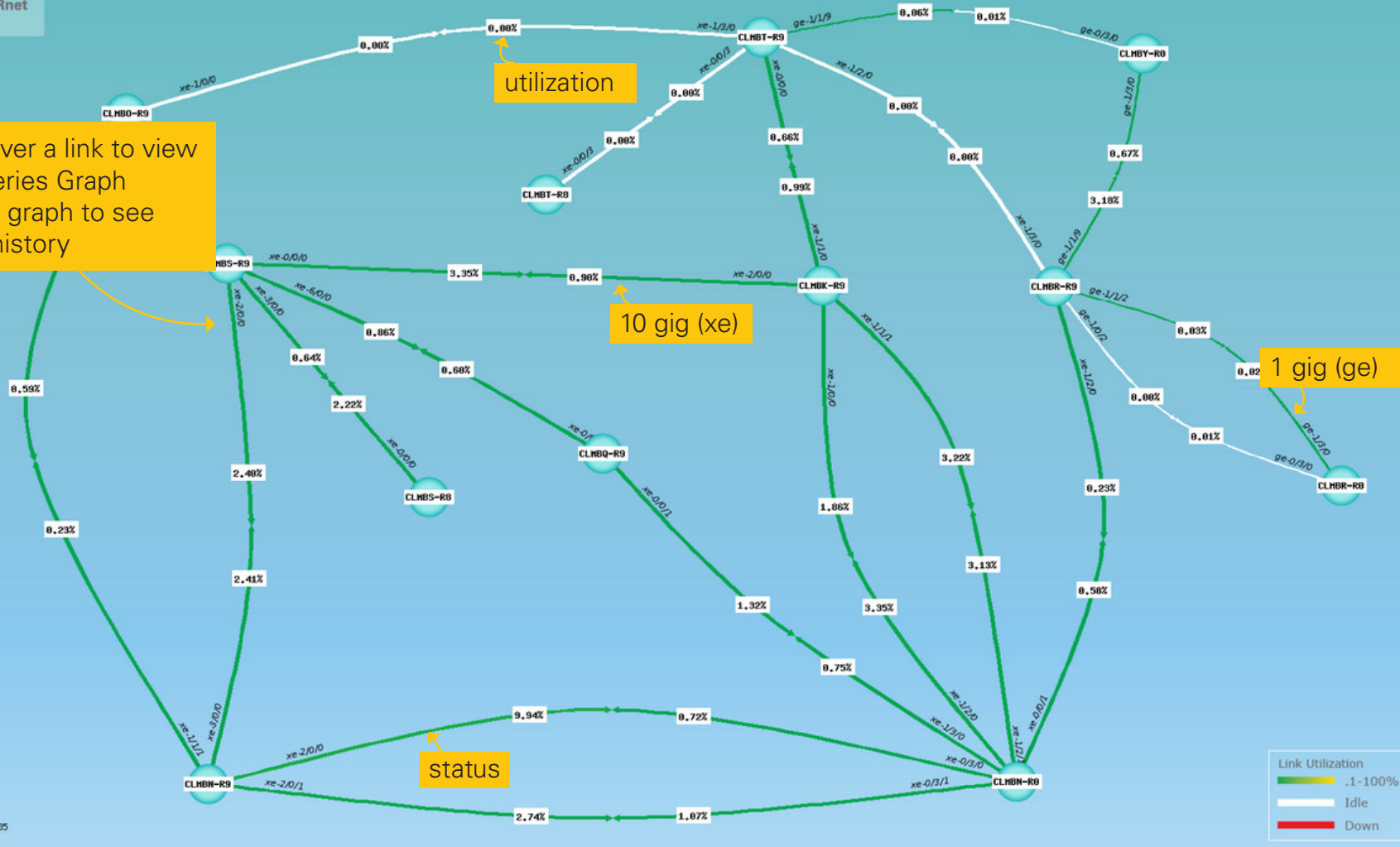
Updated: Oct 10 2012 05:45:14



- updated once every 5 min
- overview, not real topology

- cacti and custom automation to generate maps based on router configurations
- php weathermap front end
- in-house artwork

- Hover over a link to view Time Series Graph
- Click on graph to see longer history



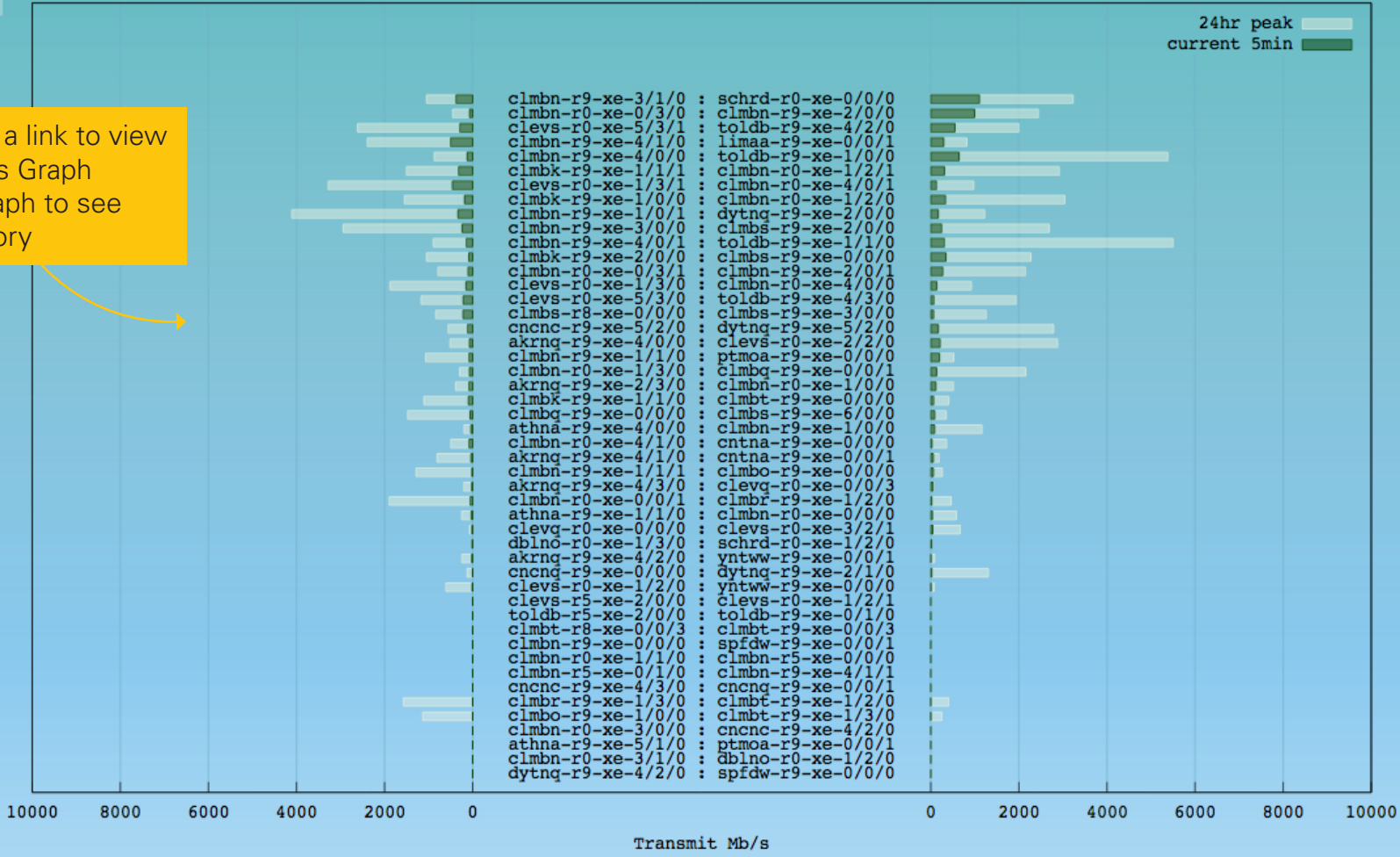
Updated: Oct 10 2012 05:45:35

- updated once every 5 min
- logical topology maps grouped by ring

- cacti and custom automation to generate maps based on router configurations
- phpweathermap front end
- in-house artwork

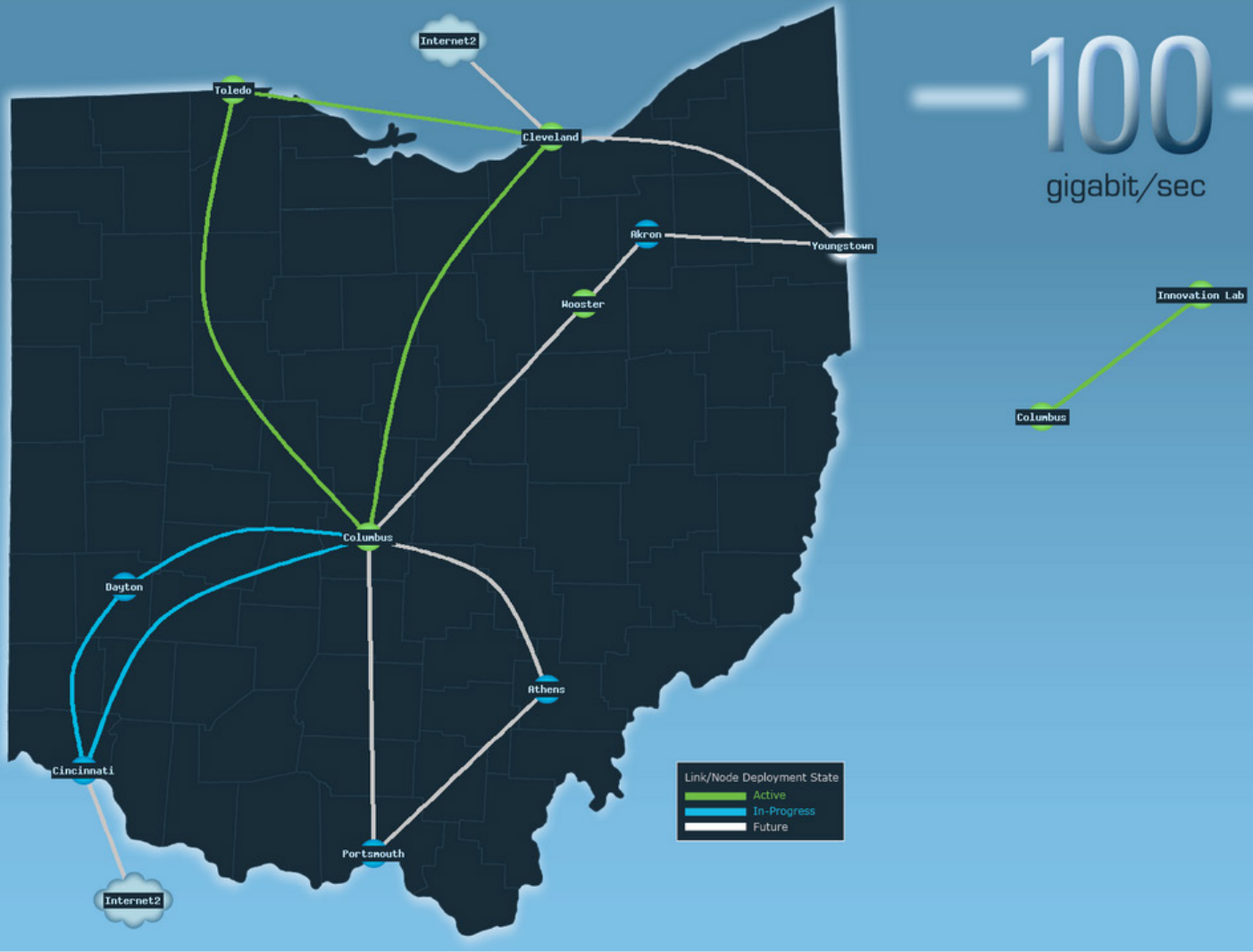
NETWORK UTILIZATION

- Hover over a link to view Time Series Graph
- Click on graph to see longer history



- updated once every 5 min
- single page whole network summary
 - all backbone 1 gig links
 - all backbone 10gig links
 - shared gig links (AT&T, TW, etc)
 - Transit Peering, and Services
 - k12 community

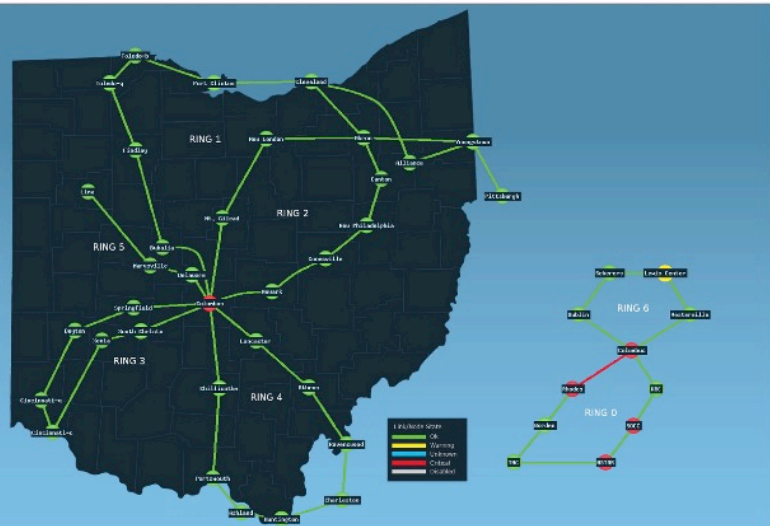
- cacti and custom automation to generate pages based on router configurations
- gnuplot front end
- in-house artwork



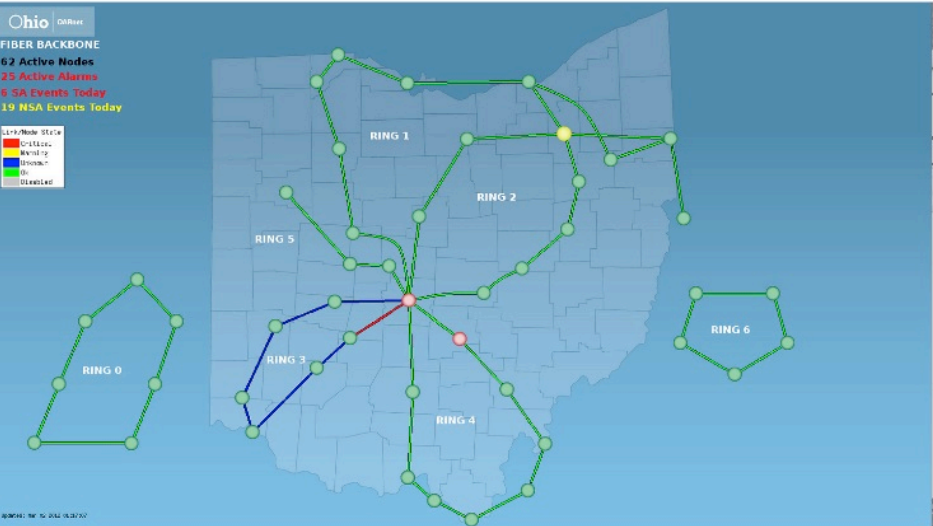
Updated: Oct 10 2012 05:40:43

Deployment Map
Manually maintained (indicating "active"
"in-progress" and "future")

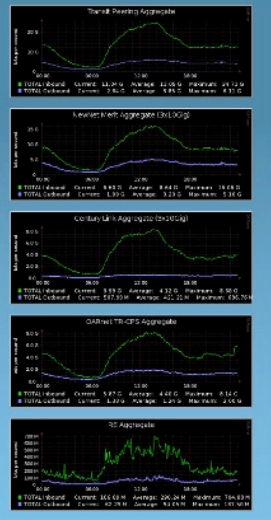
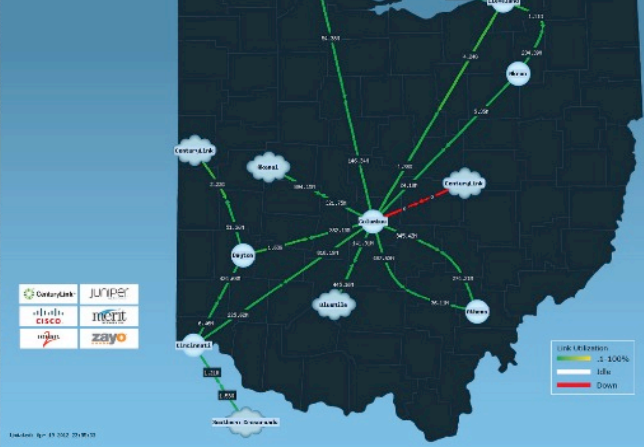
DWDM OPTICAL BACKBONE
 62 Active Nodes
 25 Active Alarms
 6 SA Events Today
 16 Standing Alarms



FIBER BACKBONE
 62 Active Nodes
 25 Active Alarms
 6 SA Events Today
 19 NSA Events Today



CORE NETWORK RESOURCES



DWDM OPTICAL BACKBONE
 61 Active Nodes
 41 SA Events Today
 25 NSA Events Today
 16 Standing Alarms

