

Subnet Managers

November 18, 2009

Agenda Items

- Central Mail Services
- Middleware
- RamCT
- Licensing
- NOC
- Technology Demo – Thin Clients (ENGR)

ACNS Central Mail Services

- Authenticated SMTP is here!
 - Authenticated SMTP goes live Nov 18th (Today!)
 - Current off campus and on campus users will continue to function
 - Documentation for switching clients will be available soon
 - At some point, open smtp (non authenticated) will be shut off

ACNS Central Mail Services

- Using authSMTP
 - Folks may start using authSMTP immediately
 - Use your eldentity and ePassword to login
 - smtp.colostate.edu Port 587 Protocol TLS SSL required
 - On campus servers (and users) will not require authentication
 - No need for 'relay list' anymore!!

ACNS Middleware

- eID data modification
- Shibboleth
 - What is it?
 - Authentication and Authorization
 - Project Update

eID Modification

- Redefine when Applicant transitions to Student
 - Placed into production week of November 9
 - Affected ODS views:
 - csug_directory_all
 - csug_directory_privacy
 - csug_directory_eid
 - Affected eID data
 - weid_dir_person_00

eID Modification (cont')

- Before the change
 - Applicant to Student transition was at the point of admission.
- After the change
 - Applicant to Student transition will take place at the point he/she pays the enrollment deposit.
 - Only affects students required to pay the enrollment deposit (i.e. freshman, transfer students, and 2nd bachelor's).
 - Graduate students, returning students, etc. will not change.

Shibboleth – What is it?

- Allows **federated authentication**, which enables users of one domain to securely access data or systems of another domain seamlessly, and without the need for completely redundant user administration.
- User authenticates locally with their institutional credentials (in our case, eID).

Shibboleth – Authentication

- Based on 'authentication by trust'
 - User requests access to a Service Provider (SP)
 - SP redirects to WAYF server
 - WAYF server asks "Where Are You From?"
 - WAYF server redirects request to the user's Identity Provider (IdP)
 - Can user authenticate to IdP?
 - **Yes** – On to the authorization stage
 - **No** - User is denied access to resources

Shibboleth - Authorization

- Authorization logic
 - Only after successful authentication
 - IdP returns user to SP with a unique identifier called a 'handle'
 - SP requests attributes associated with the user's handle from the IdP
 - IdP passes attributes back to the SP
 - SP looks for the required attributes and determines if user has authorization to access resources
 - **Yes** – User is granted access to SP resources
 - **No** – User is not authorized, access to resources denied

Shibboleth Project Status

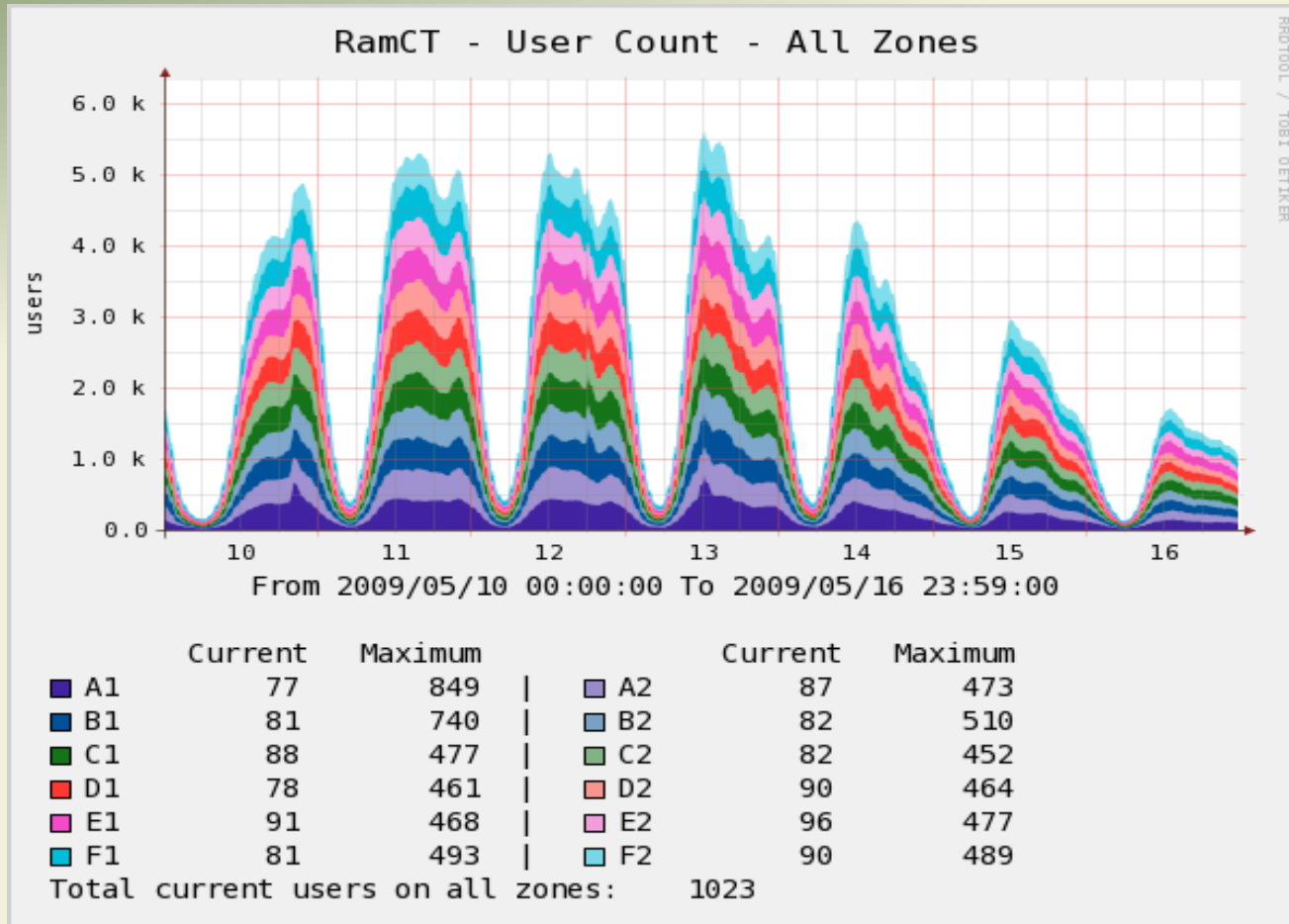
- Successful connection to Colorado Alliance of Research Libraries Fez test instance
- CSU IdP metadata is now registered with the InCommon Federation

Shibboleth Project Status (con't)

- Some possible federated (Shibbolized) resource providers:
 - National Science Foundation – Research.gov
 - Microsoft - Dreamspark
 - Apple - iTunes U
 - Google – Google Apps

RamCT

Skittles graph! Peak is 7,000 concurrent users during Dec 08 finals.



RamCT

- Most heavily used system in terms of concurrent users on campus
 - Daily load exceeds 4,000 concurrent users
 - Peak during finals last December exceeded 7,000 concurrent users
 - Over 5,000 sections a year are being taught (RI and Distance) in RamCT
 - 6 physical servers, 5 virtual servers, total 11
- Stable, no major issues this semester

RamCT

- When performing computer builds please take into account:
 - IE 8 - add colostate.edu to Compatibility View
 - SafeAssign – proper resource citing/anti plagiarism product now a part of RamCT
 - add <http://www.safeassign.com> to Trusted Sites
 - Safari 4 – Accept Cookies needs to be set to “Always”

RamCT

- Plan to apply Service Pack 3 to system over holiday break
 - Mostly behind the scenes fixes.
- Each college has a RamCT Coordinator who participates in support and planning.
 - Names posted on RamCT help website
- RamCT Help Website
 - <http://help.ramct.colostate.edu>
 - Quick Start documentation updates

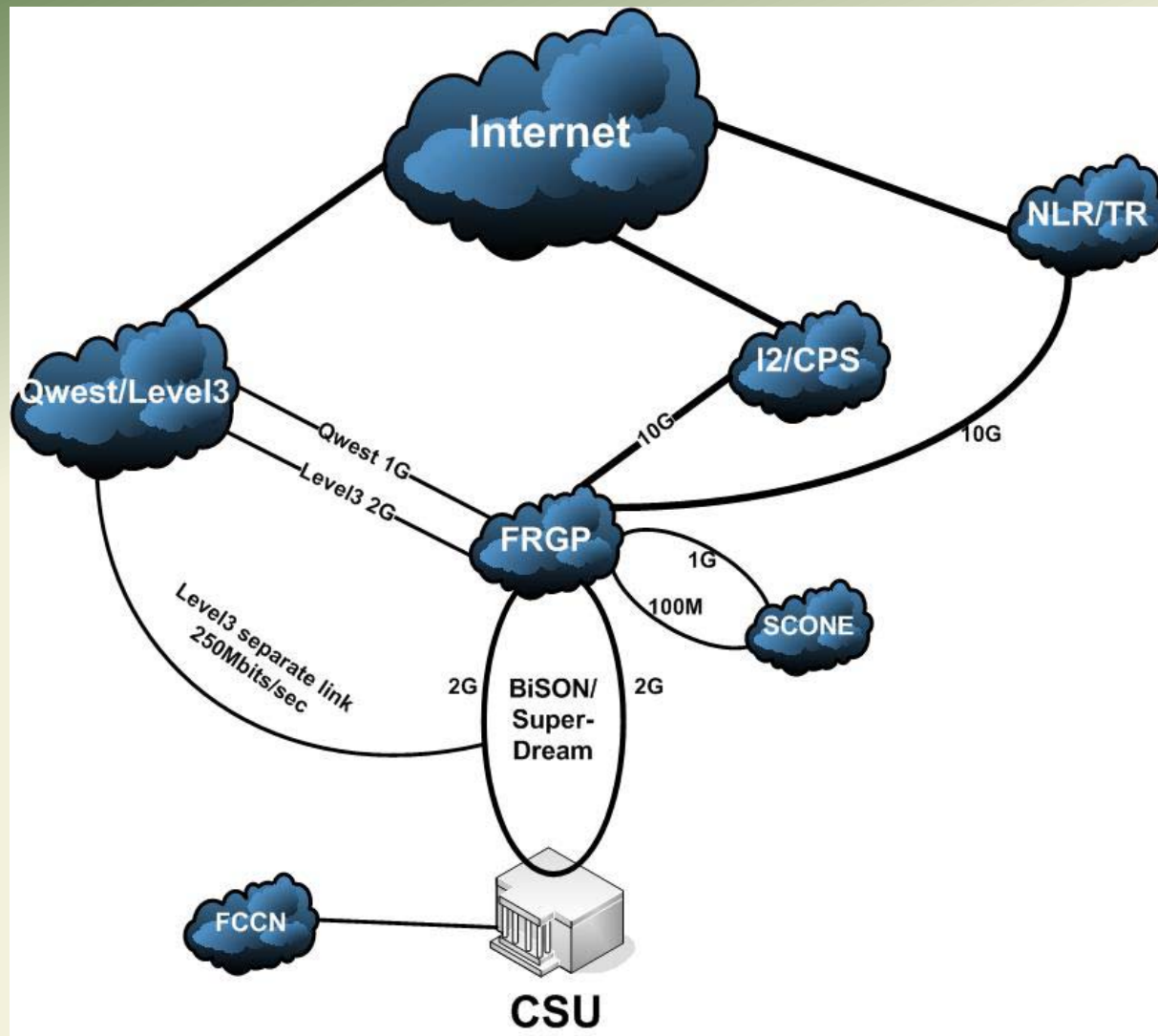
Software Licensing

- Site License
 - Mathematica
 - Ghost
 - Microsoft Select Bid

Network Operations Center (NOC) Agenda (noc@colostate.edu)

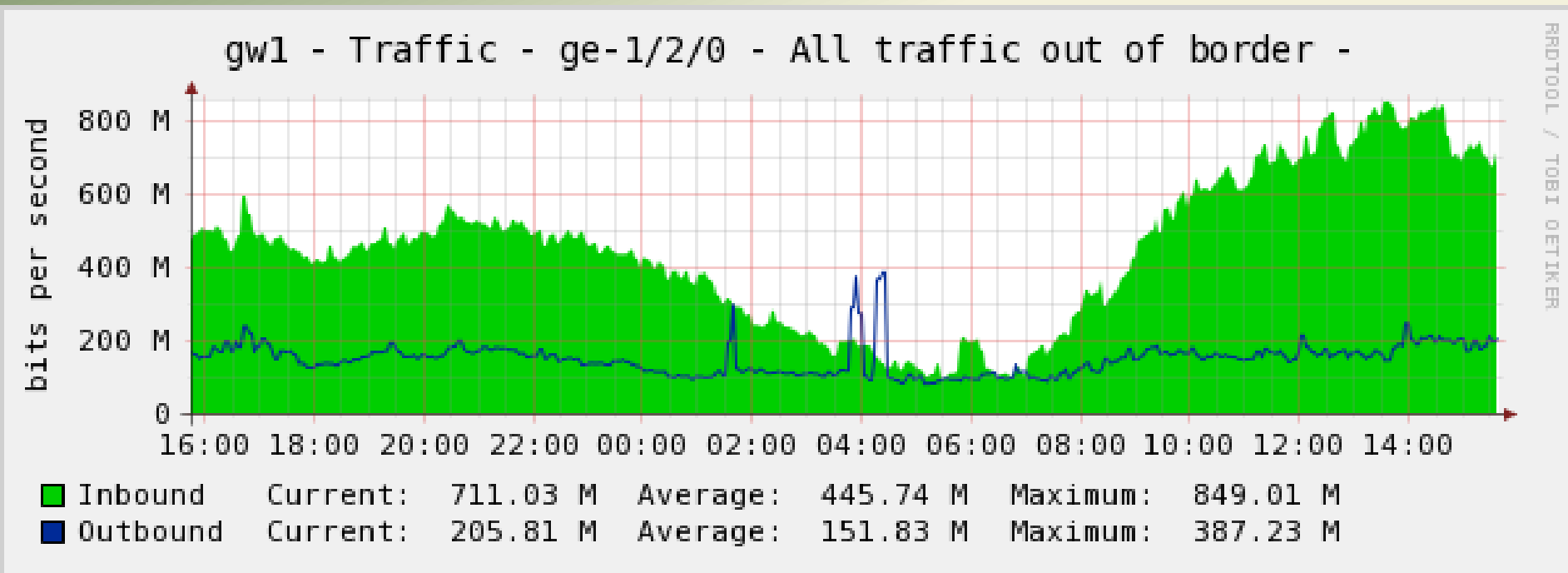
- Traffic updates
- Wireless upgrades/status
- E 7 remodel
- Green networking: Video Conference and Secure meeting!
- Security: VPN/SSL

Traffic updates (intro)



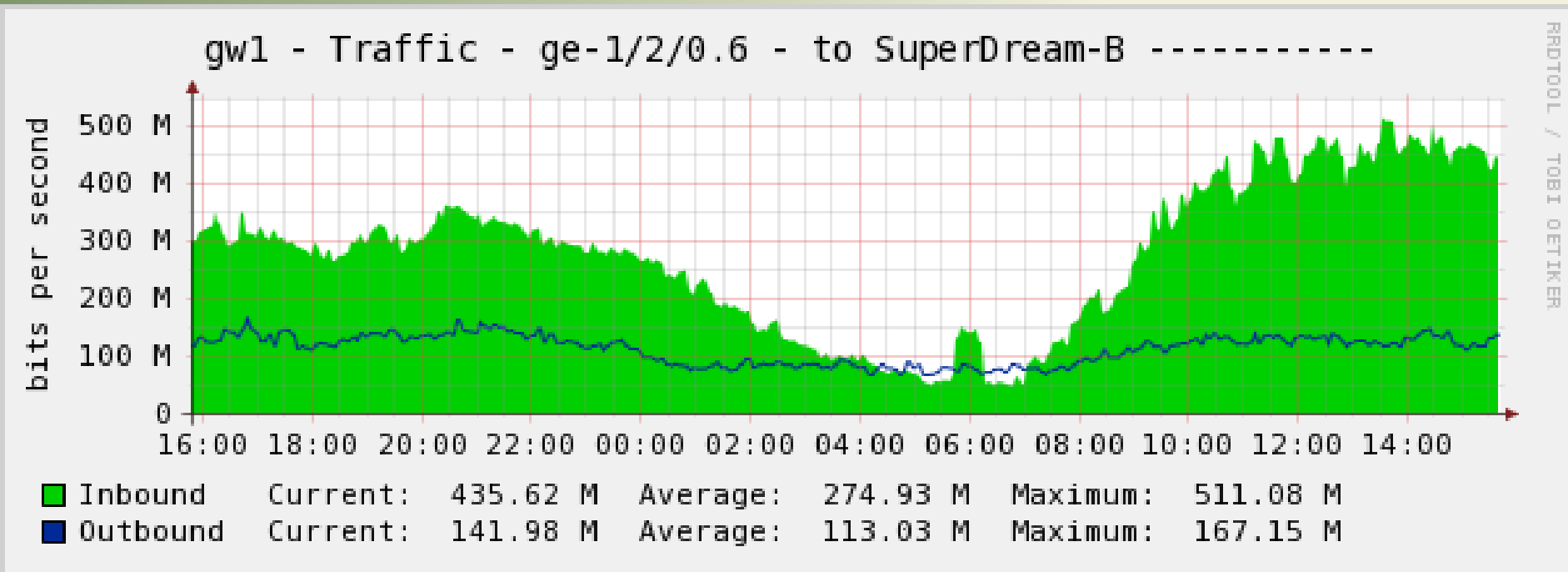
Traffic updates

All traffic leaving border (CSU + FCCN)

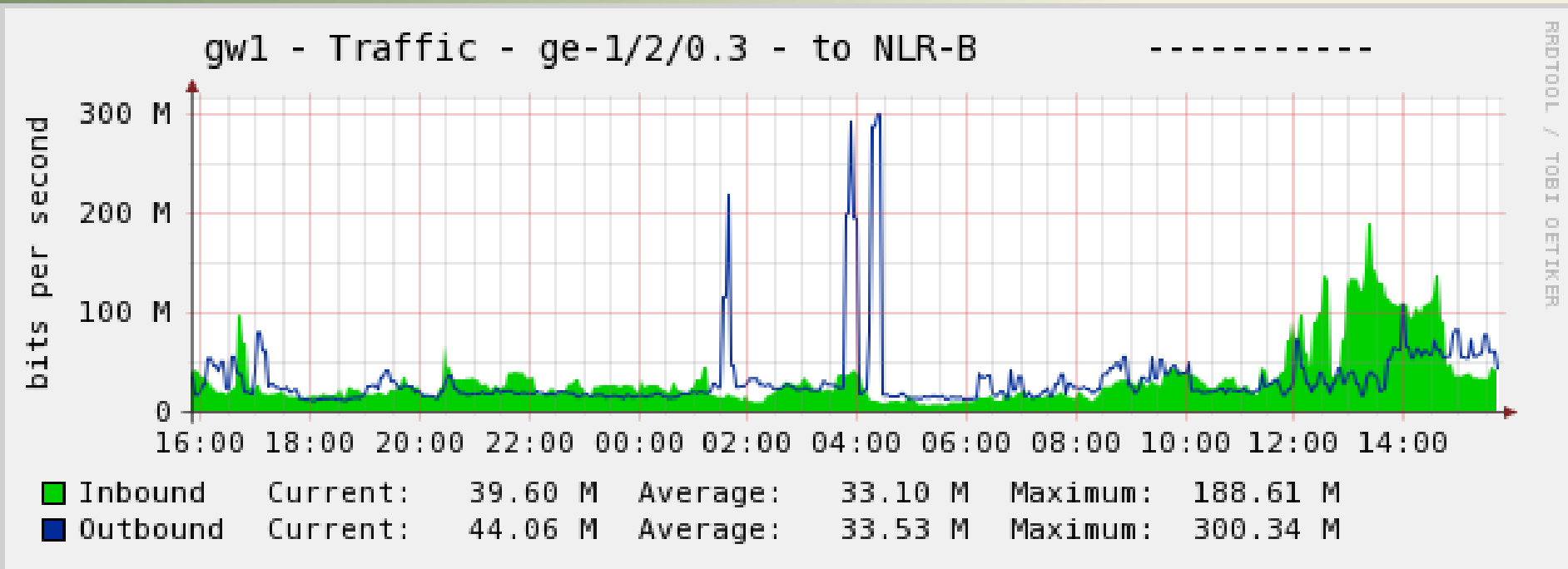


Traffic updates

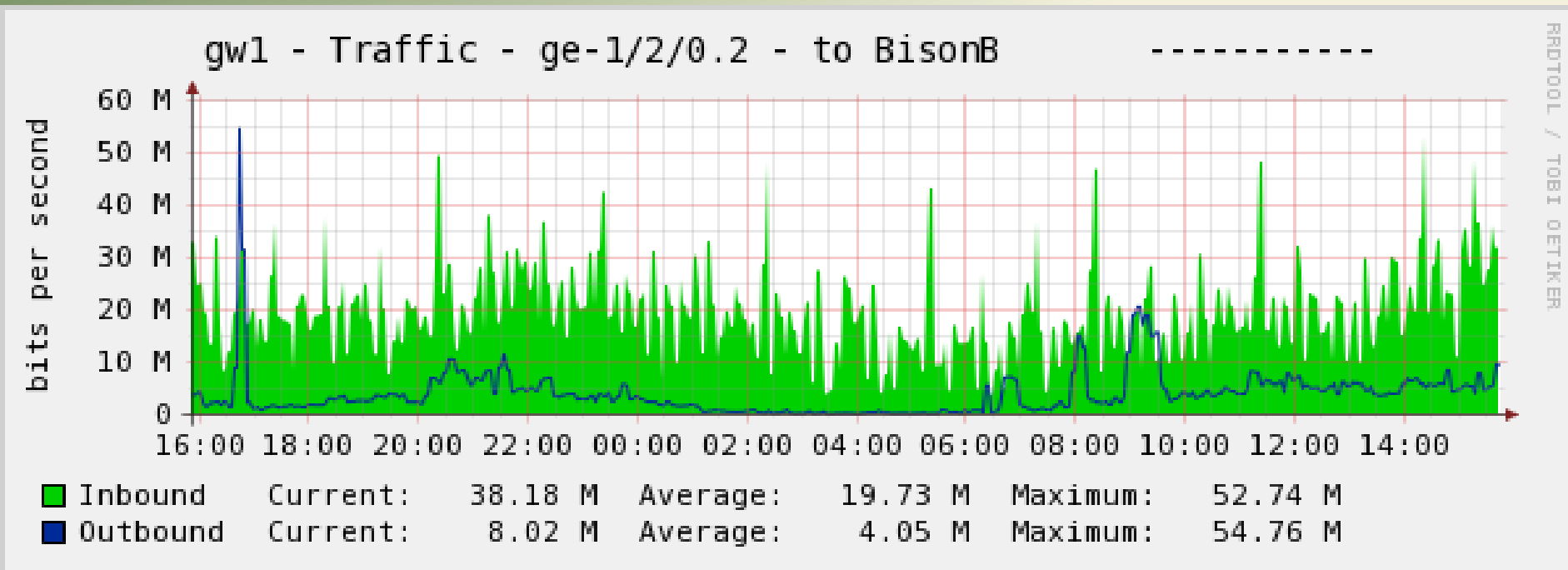
(All traffic to Qwest/Level3/I2)



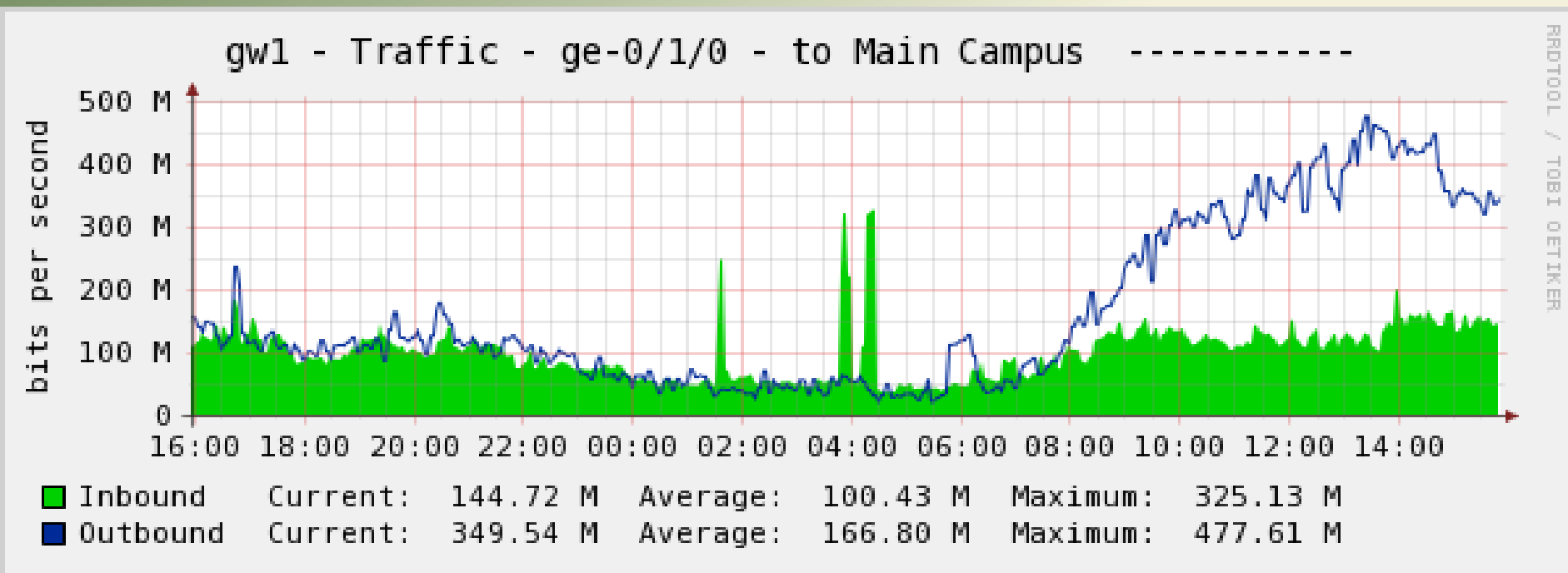
Traffic updates (NLR-B/TransitRail)



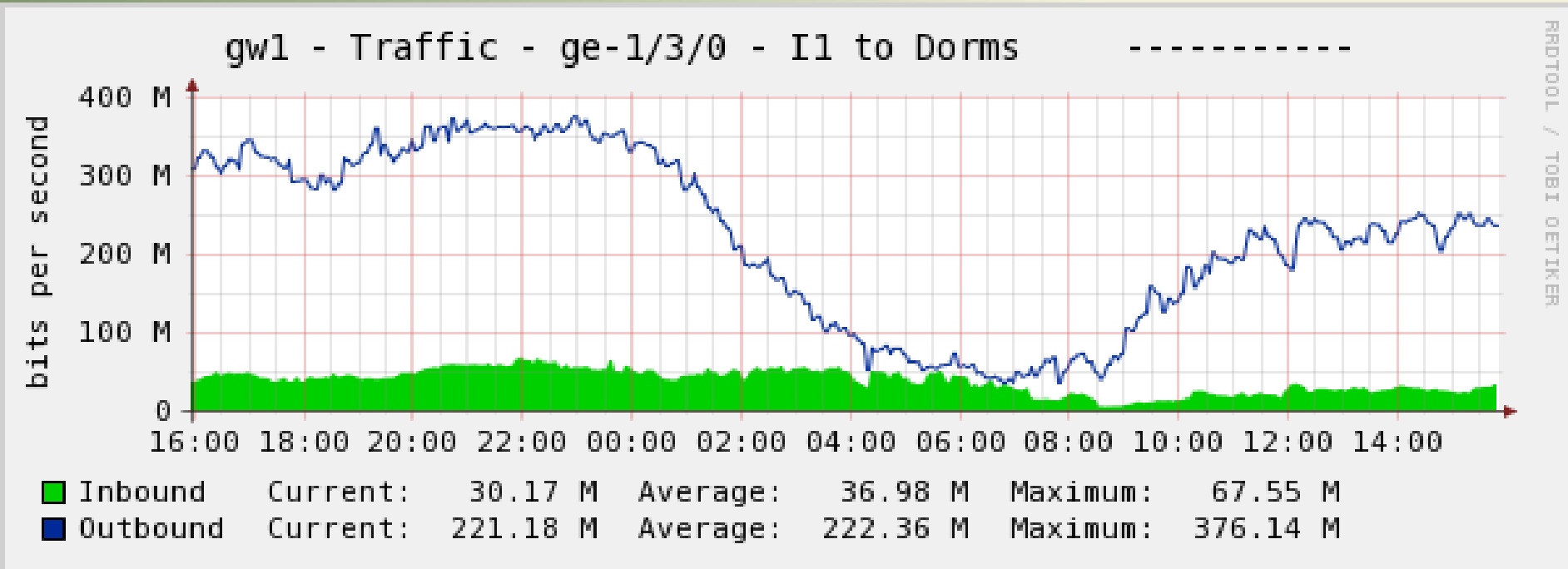
Traffic updates (FRGP sites on BiSON ring)



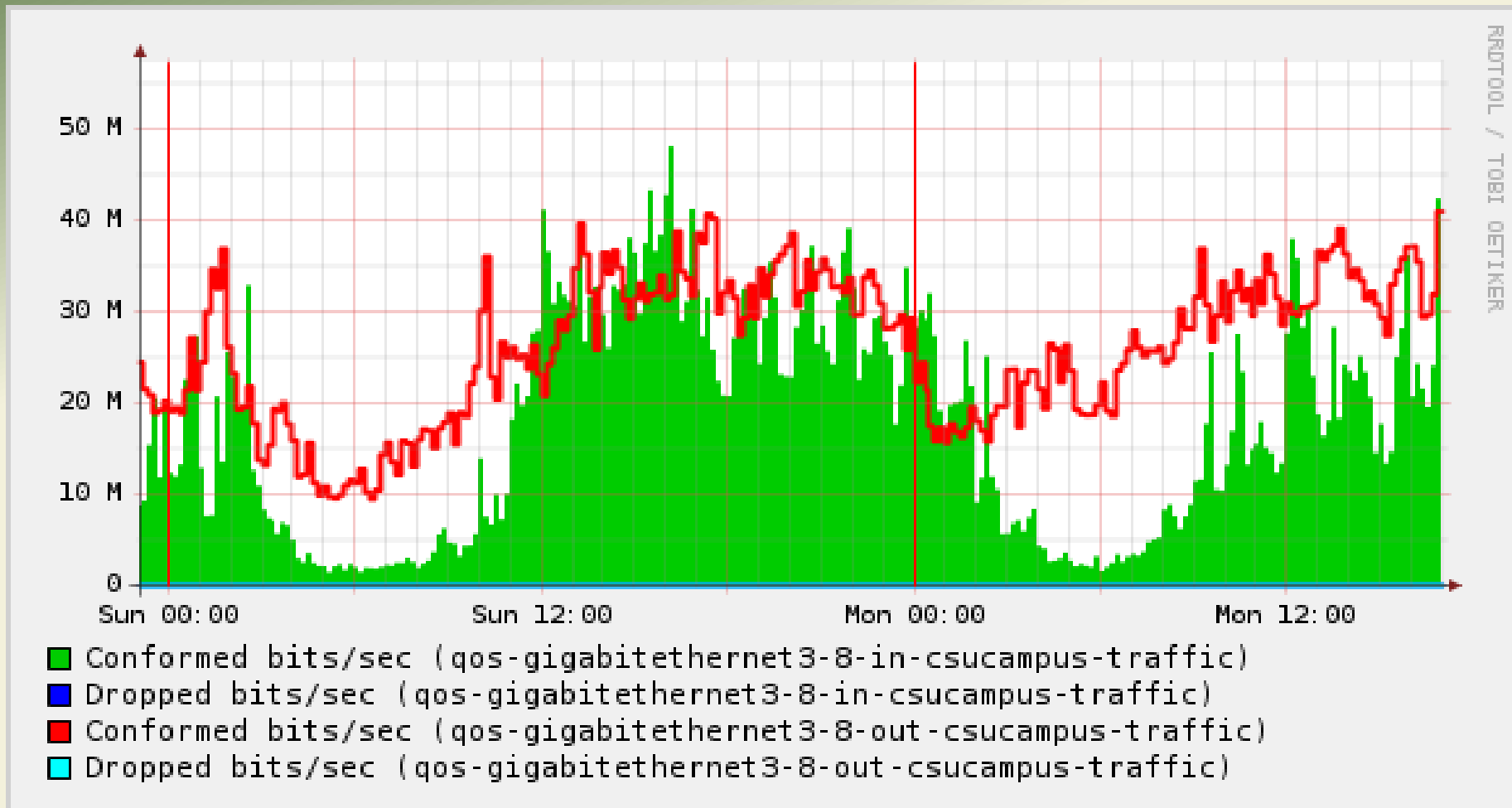
Traffic updates (main campus)



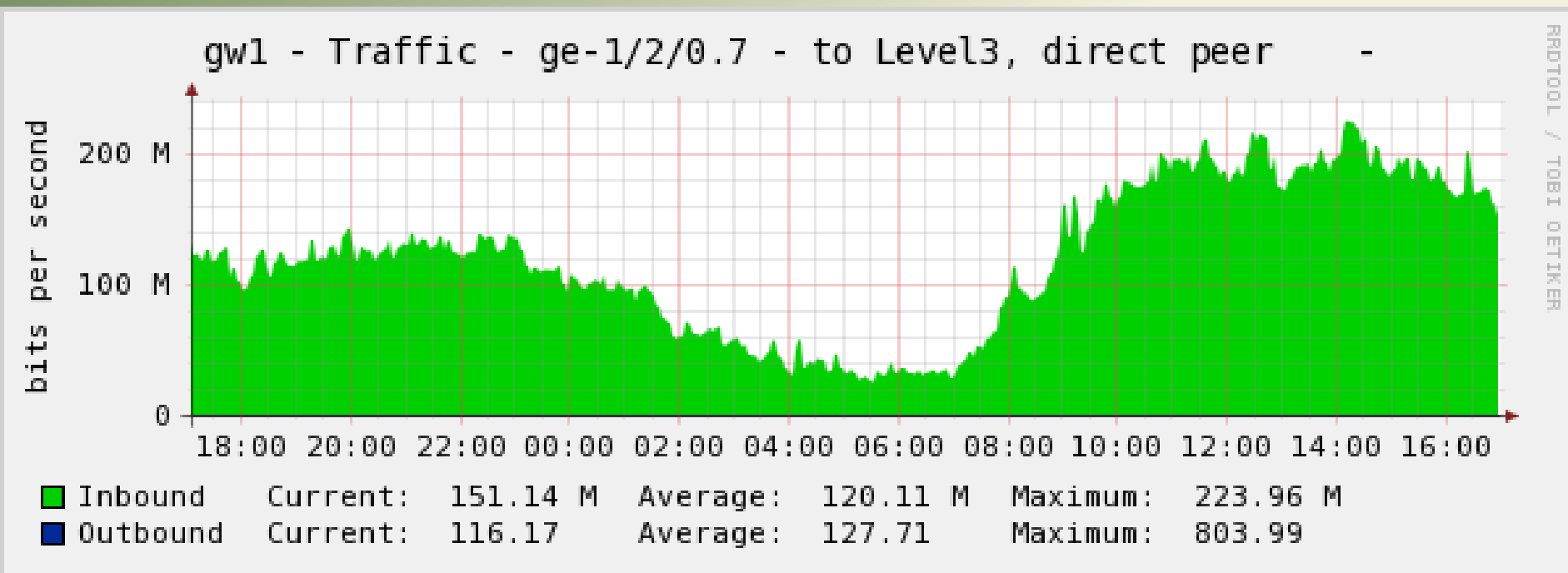
Traffic updates (I1 to residence halls)



Traffic updates (Qwest/Level3)



Traffic updates (Level3 backup link)



Wireless Upgrades/Status

- UTFAB
 - Phase 1 vs. phase 2
 - Eddy: phase 1 completed
 - Education: phase 1 completed
 - Engineering A-D: phase 1 completed
 - Chemistry: pending over break
 - Morgan: status improving
 - CS: status improved and upgraded
 - Next buildings per UTFAB: Plant Sciences, Wagar, Old Rockwell, NR (?)

Wireless Upgrades/Status

- Other (non-UTFAB) upgrades/installs
 - Industrial Sciences
 - CSFS Fire Management
 - Moby/Hughes
 - Laurel Hall
 - ATC
 - GSB
 - DMC (Pending)
 - IPF (Pending)

Wireless upgrades/status

Welcome to the Colorado State University
Wireless Network

Colorado State University

Staff, Students, Faculty

[Click Here](#)

Choose one of the following and use your eID and password to connect:

Easy Access: Using the "csu-net" network is the preferred connection for campus users. All traffic is encrypted without needing the Virtual Private Network (VPN) or Secure Sockets Layer (SSL) gateways. If you cannot connect to the Easy Access wireless, use the SSL Gateway or VPN.

SSL Gateway: Using the "csu" wireless network, campus users can connect from any web browser. Login and password information is protected and traffic is encrypted across the network. Please refer to SSL instructions as needed.

VPN: This gateway requires installation of VPN client software and connection to the "csu" wireless network. The Cisco VPN gateway will not support Windows Vista 64 bit clients in the future and it is no longer the recommended option for normal campus or off-campus use. Users will need to update older Cisco clients due to known vulnerabilities.

Guest User Login

[Click Here](#)

Username:
Password:

Logging in as a registered user indicates you have read and accepted the [Acceptable Use Policy](#).



Wireless upgrades/status

- “csu-visitor” -> “csu”
 - The “csu” SSID incorporates all the features of the “csu-visitor” SSID as well. This negates the need for “csu-visitor”.
 - “csu-visitor” to be removed over Winter Break. Visitors can click on the “csu” SSID and login with their visitor ID. (It will remain at Housing until Summer at the latest.)

E7 remodel

- Timeframe
 - Some backbone connections to be moved out of E7 starting as early as next week.
 - Moves to continue until start of semester – some to be significant (core and border router and core switches)
- Significant improvement in redundancy/reliability/capability!
- Upgrades started yesterday morning.

Green networking: Video Conference and Secure meeting!

- Video conferencing: Numerous video conference sites exist across campus. Many of these can be scheduled - contact noc@colostate.edu
- Secure meeting: secure.colostate.edu/meeting – cheap (free) and simple WebEx style meeting tool. Personalized training/help available – contact noc@colostate.edu
- Stay on campus, save paper – be “green”!

Security: VPN/SSL

- Steve Lovaas...

Technology Demo

- Thin Clients at the College of Engineering
 - Mark Ritschard.