

# *Network Update*

CSCF Staff Meeting  
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A copy of these slides is in:

<http://www.cs.uwaterloo.ca/cscf/internal/presentations/>



# *What's new with networks?*

- IP-space recovery: 75-net and 78-net
- Move from 152-net to 167-nets
- New DNS and DHCP
- Miscellaneous



## *IP-space recovery*

- “75-net” (129.97.75.0/24):
  - ~~Seven~~ Six names left: lucky, coronado, lex-dc2336, scg16, graceland, tapir-backup
- “78-net” (129.97.78.0/24):
  - ~~Six~~ Five names left: genome, bifgate, iapetus, southport, opeongo
- Would really like to get these done ~~by the end of August~~. Real Soon Now – October 14?
  - I can do the network and firewall stuff if you handle the client-side and client communications



## *Move from 152-net to 167-nets*

- The September deadline was missed:
  - Earliest opportunity now: end-of-exams, December 2011
  - Still need per-building DNS
  - Retiring 129.97.152.10 & 100 by 2011-12 may not be feasible
  - Still 119 names in use on 152
- This makes it doubly important that we can give back 75 and 78



## *New DNS and DHCP*

- New DNS running:
  - 172.19.32.6, dc-dns-2.cs.uwaterloo.ca
  - Feel free to try it out in static configs
  - Will be provided for select clients via DHCP
- New DHCP server running at 172.19.32.6
  - Is the new master, old server now slaved
  - Fully integrated with new inventory
  - May create race condition, depends on network
  - Reservations now specify multiple search domains:  
`"cs.uwaterloo.ca uwaterloo.ca"`



## *New DNS and DHCP, 2*

- DHCP client problem with Ubuntu
  - Might use only the first element of domain-search parameter, "cs.uwaterloo.ca"
  - Check: `/etc/dhcp3/dhclient.conf`; must contain  
`option domain-search code 119 = string;`
  - New standard image to be verified
- Three more DHCP and DNS servers to be deployed



## *Miscellaneous*

- Moving addresses between zones with Maintain:
  - “Pull” the existing entry into the new zone
  - May give erroneous errors – check the results