

# *Network Update*

CSCF Staff Meeting  
2010-3-31



# *What's new with the network?*

- VLAN update
- EduRoam and uw-guest
- unauthenticated DHCP
- ONA user search
- Maintain host expiry-date
- wireless address change
- MC vlan back-haul



## *VLAN update*

- new VLANS being created, old ones removed
- old standard of 129.97.*vlan-id* **no longer works!**
  - 129.97.59.128/25 is vlan 1594
  - vlan 1732 is 129.97.173.192/26
- size matters! (/24, /25, etc)
- See [Wiki reference](https://www.cs.uwaterloo.ca/twiki/view/CF/VLANInformation#Current_VLAN_assignments)  
([https://www.cs.uwaterloo.ca/twiki/view/CF/VLANInformation#Current\\_VLAN\\_assignments](https://www.cs.uwaterloo.ca/twiki/view/CF/VLANInformation#Current_VLAN_assignments))



## *VLAN update*

- new networks being created in private address spaces 10.15.0.0/16 and 172.19.0.0/16
- old VLAN numbering scheme definitely not applicable here:
  - eg 10.15.3.0/24 is VLAN 806
- VLAN number assignments are arbitrary (by IST) so you must refer to the Wiki to find out what's what
- NB: Maintain zones for private addresses



# *EduRoam*

- solving the visitor wireless-access problem
- EduRoam: <http://www.eduroam.org/>
  - use your uwaterloo.ca WatIAM credentials worldwide (at participating institutions) for network access, and *vice versa*
  - 802.1x network, WPA2 secured
  - running now at UW [and elsewhere](#)



## *uw-guest*

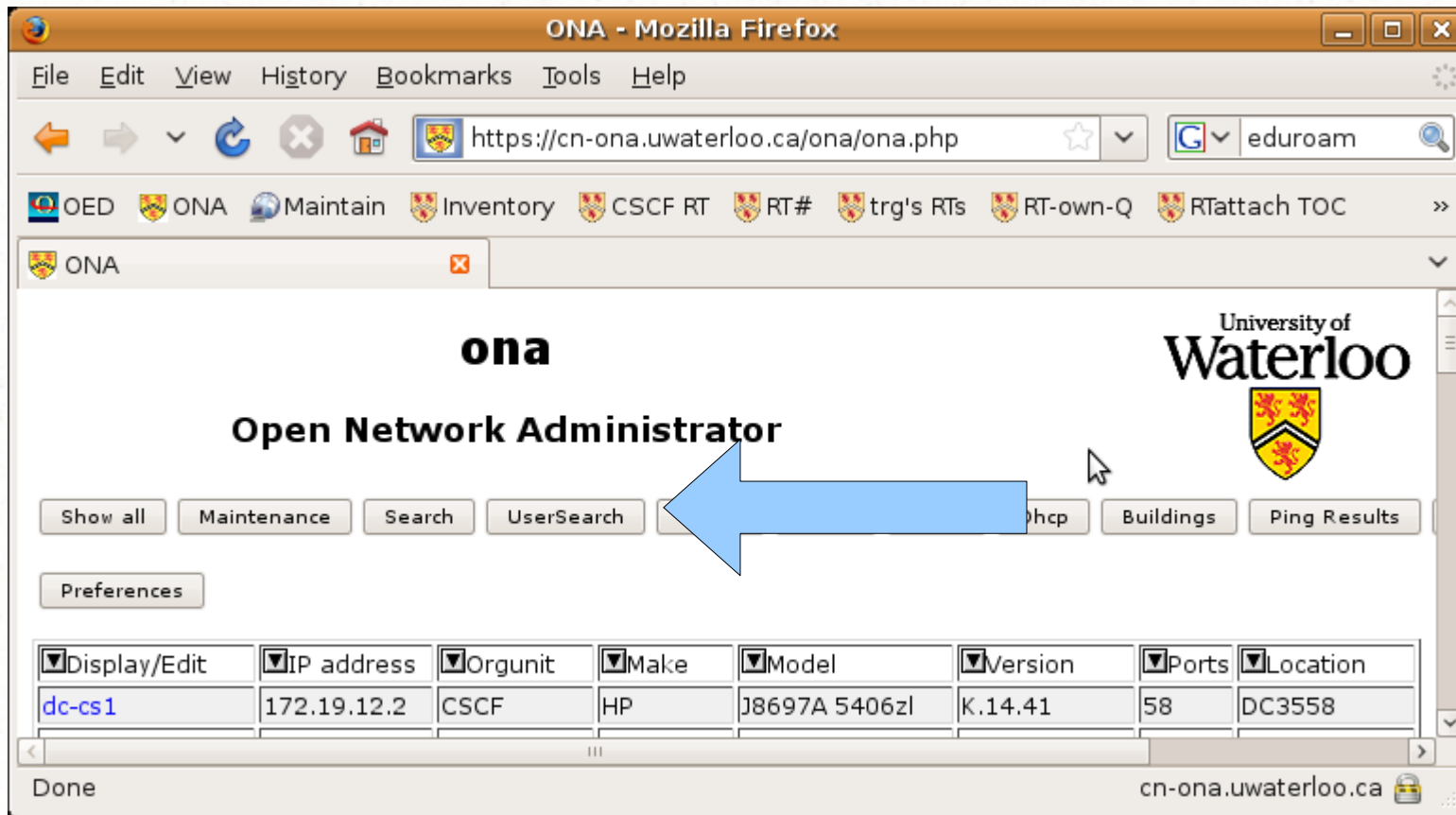
- wireless network that doesn't require any authentication
- very low bandwidth (500Kb/sec)
- intended to provide access for email and non-graphic-oriented applications
- currently deployed in DC library, “leakage” to other adjacent areas in DC
- full deployment eventually



## *Unauthenticated DHCP*

- UW policy change to allow unauthenticated DHCP
- must still be able to track users & usage if necessary – not for “public access”
- planning a test network that will provide a private address via DHCP and NAT it to a public address
  - use in visitor offices, meeting rooms

# *ONA user search*



- <https://cn-ona.uwaterloo.ca/ona/ona.php>
- MAC 001f1615c360, 904CE50B7076



## *Maintain expiry date*

- for documentation of temporary setups, post-docs, visitors
- generally ignored by Maintain and DNS



Maintain - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://nsbuild.uwaterloo.ca/maintain311/host.php?action eduroam

OED ONA Maintain Inventory CSCF RT RT# trg's RTs RT-own-Q RTattach TOC UWSA Shpt

ONA Maintain

**Maintain**  
powerful network management

You are currently logged in as: **trg**  
You are currently working in zone: **cs-inet**  
**Automatic updates are scheduled for 15 minutes past the hour.**

cs-inet Go!

Home Search Preferences Help UW Maintain Documentation Logout

### Modifying Host

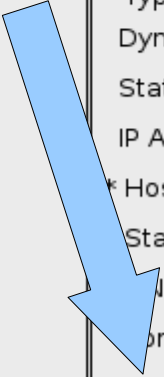
Edit Delete Edit Next By Name Edit Next By IP Create New Host Show Host List

View DHCP Options for this Host

[Advanced] [Basic]

* Hostname	trg-desktop.cscf
* Domain	uwaterloo.ca
HW Address	00:22:15:d0:ef:b6
* Type	<input type="radio"/> Dynamic <input checked="" type="radio"/> Static
Dynamic Range	
Static Range	
IP Address	129.97.15.226
* Host TTL	86400
Status	Enabled
US Visibility	Public
Workgroup	
Expire Date	
* CC Field	

Done nsbuild.uwaterloo.ca





## *Wireless address change*

- campus wireless now uses a private address from the range 172.21.0.0/16
- NATted for off-campus use, remains as is for on-campus
- causes problems
  - firewall rules
  - printer ACLs
  - anything that thinks UW addresses are 129.97



## *MC VLAN back-haul*

- attempting to eliminate all inter-building VLANS
  - ongoing process, not there yet
- setup and testing may require a device to be “in the MC”
  - dedicated fibre from MC to DC for MC VLANs to switch in dc2560g (mc-dc-cs3)
  - tag the VLAN on mc-cs2:A7, mc-dc-cs3:26
- create and RT and assign to Dan or Trevor if you need a patch to your office