



# ALT-C 2011 Wireless Statistics

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## Background

This report is a summary of the wireless statistics for the ALT-C conference 2011 that took place from Monday 5<sup>th</sup> September to Thursday 8<sup>th</sup> September 2011.

## General information

1. The University of Leeds has deployed a Cisco wireless network.
2. The primary locations for the ALT conference are:
  - a. Conference Auditorium: 7 WAPs
  - b. The Edge: 10 WAPs
3. As the locations are public the statistics detailed below will include members of the University that may not have attended the conference.

Table1: Wireless statistics summary for 2008 and 2011 conferences

Wireless statistics	2008	2011
Unique conference users	342	790
Maximum concurrent conference users	120	261
Maximum bandwidth	9 Mbps	24 Mbps
Number of authentications	1951	10147

Chart 1: Number of wireless authentications per day

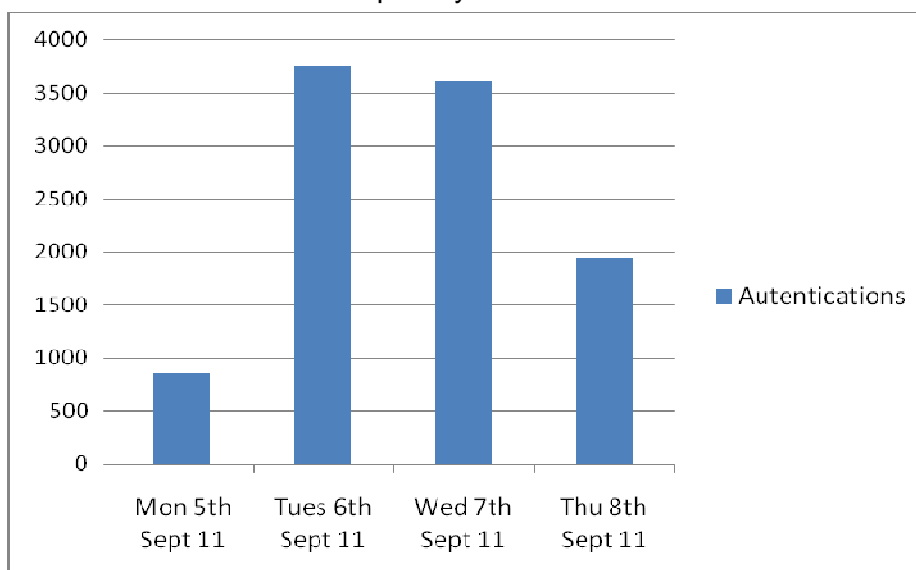


Table2: 122 unique eduroam users visited from 49 global academic institutions

No	University	Country
1	Bangor University	UK
2	Birkbeck University of London	UK
3	Delft University of Technology	Netherlands
4	Dublin City University	Ireland
5	Fontys University of Applied Sciences	Netherlands
6	Goldsmith University of London	UK
7	Heriott Watt University	UK
8	Imperial College London	UK
9	Institute of Education University of London	UK
10	JANET (UK)	UK
11	Kingston University London	UK
12	La Trobe University	Australia
13	Leeds Metropolitan University	UK
14	Liberec Technical University	Czech Republic
15	London School of Economics	UK
16	Loughborough University	UK
17	Newcastle University	UK
18	Northumbria University	UK
19	Open Universiteit Nederland	Netherlands
20	Open University	UK
21	Plymouth University	UK
22	Queen Mary University of London	UK
23	Queensland University of Technology	Australia
24	Roskilde University	Denmark
25	Royal Veterinary College	UK
26	University College London	UK
27	University Leicester	UK
28	University of Amsterdam	Netherlands
29	University of Bath	UK
30	University of Birmingham	UK
31	University of Bristol	UK
32	University of Cambridge	UK
33	University of Edinburgh	UK
34	University of Essex	UK
35	University of Exeter	UK
36	University of Glamorgan	UK
37	University of Glasgow	UK
38	University of Greenwich	UK
39	University of Huddersfield	UK
40	University of Hull	UK
41	University of Kent	UK
42	University of London	UK
43	University of Manchester	UK
44	University of Oxford	UK
45	University of Reading	UK
46	University of Sheffield	UK
47	University of Sussex	UK
48	University of York	UK
49	Vrije University Amsterdam	Netherlands

Table3: Unique wireless users

Day	Unique users			Total
	University of Leeds user account	eduroam roaming user account	University conference user account	
Mon 5th Sept	117	36	50	203
Tues 6th Sept	147	98	257	502
Wed 7th Sept	154	100	249	503
Thu 8th Sept	139	80	161	380
5th -8th Sept	338	122	330	790

Chart 2: Concurrent wireless clients – Conference auditorium

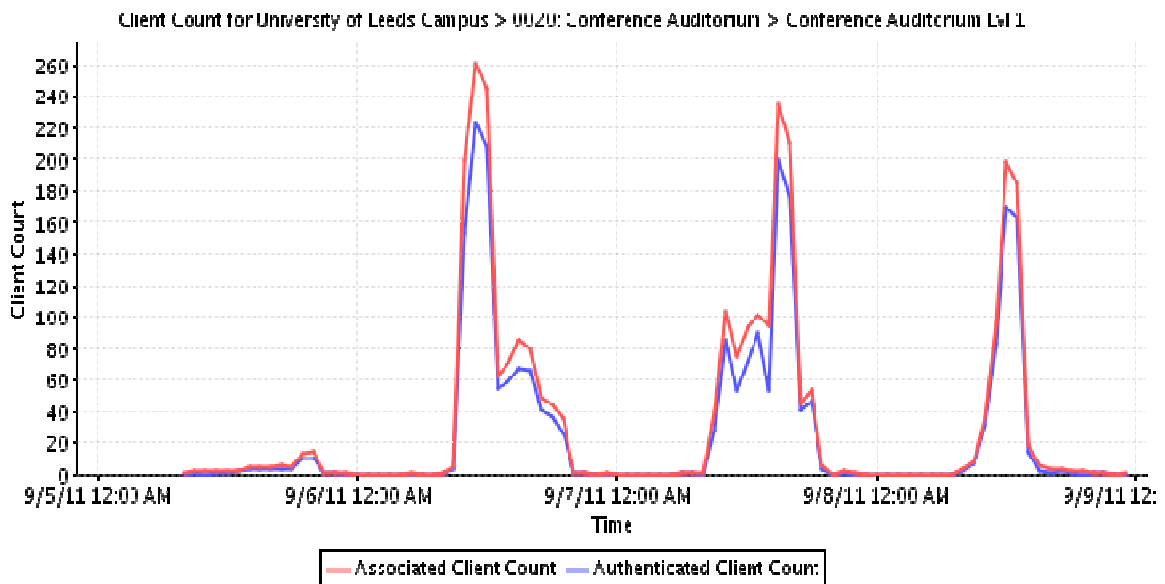


Chart 3: Concurrent wireless clients – The Edge

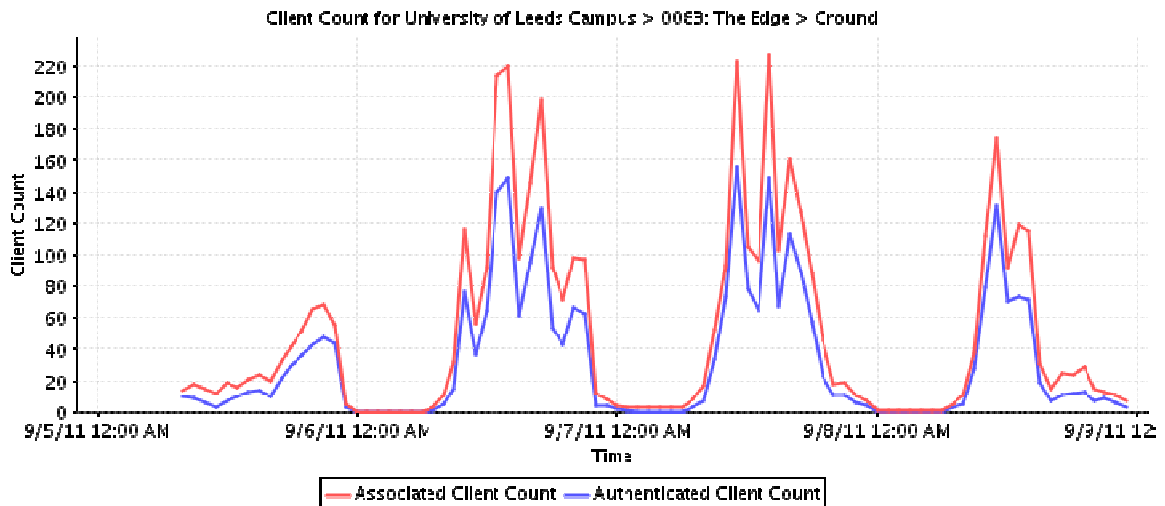


Chart 4: Bandwidth throughput in Mbps – Conference auditorium

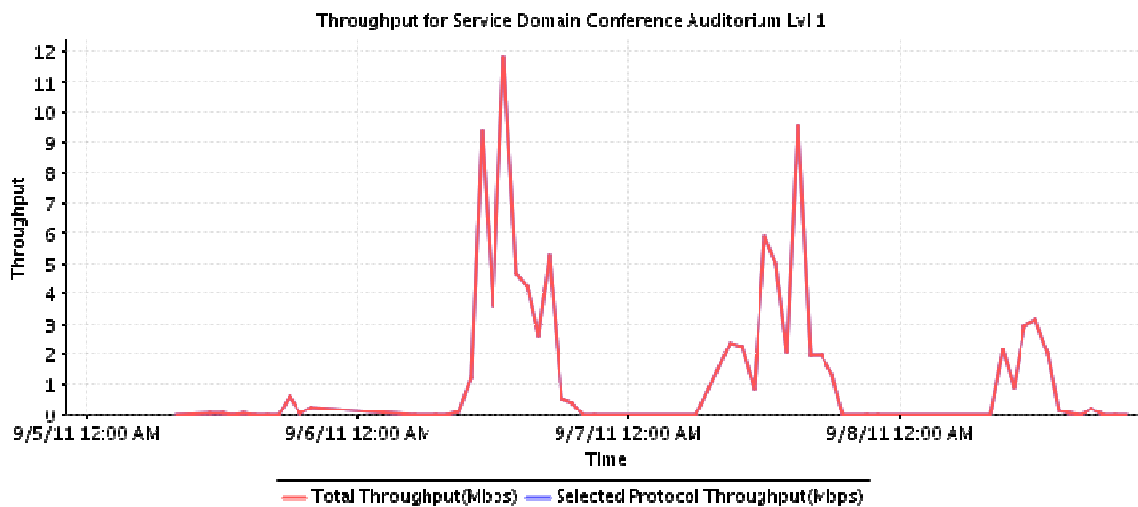
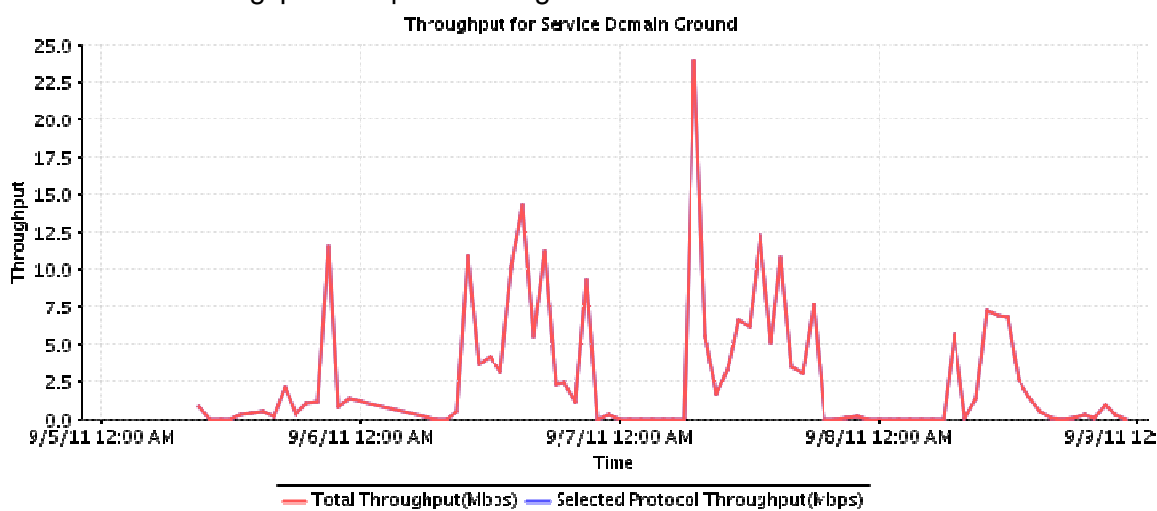


Chart 5: Bandwidth throughput in Mbps – The edge



**Conclusions**

1. This is the highest number of concurrent wireless conference users the University has supported to date.
2. The number of visiting eduroam users has increased.
3. The majority of visiting users require a user account from the conference office.
4. The bandwidth used was small considering the large number of users.
5. The wireless network required little support. The majority of users connected without issue. A handful of users had client configuration issues.
6. We have received little feedback. The wireless network just worked.