

# (O|T)WG meeting summary 2011-07-07

Present: Matt Amos, Andy Allan, Jon Burgess, Grant Slater, Tom Hughes

## From previous summary:

- Andy has written the tileserver hosting “credible plan” and will share it with TWG soon (for some values of “soon”).
- Andy to contact IC wrt backups
- Old hardware at UCL is still there and still needs throwing away / returning to Nick Hill
- GPX dumper - nothing new.
- Yevaud working well, SSD still at 100% disk lifetime remaining.
- Orm - has a copy of all the tiles in readiness for UCL downtime.
- Keyboard + LCD - got a donation for this and installed at UCL.
- Nominatim - Brian reckons the hardware is good enough, but is currently constrained by time.
- OWL and jXAPI - Grant to get specs for OWL/jXAPI-class hardware from Matt and Ian with an eye to speccing a pair of machines. Need disks for OWL - but donated machines only have 2 bays, would otherwise need to go external.

New items:

- Redundancy: Grant is getting a quote from Viglen, we’re expecting ~£11k for a roughly smaug-equivalent machine. Plan to buy one, ASAP, and decide on whether we want a second equivalent and recycle smaug, or continue to use smaug in this role. Alternative: buy a contract with guaranteed replacement hardware in short interval (means back up within a day, rather than hours for a replicated solution). Replacement - moar teh RAM, AMD/Intel, disks 15k/10k? choices, choices.
- Get quotes for combinations: AMD/Intel, 64/128/256Gb RAM, 15k/10k disks = 12 combos. Low combo is bare minimum to duplicate smaug. High combo is SSDs + platinum plated RAM.
  - Intel 2x6 core 2.66GHz, 96GB (expandable to 192), 13x600GB SAS 15k, Adaptec 5805 8-port RAID = £10,348.21 inc VAT.
- Smaug’s disk utilisation is very high, only being below 100% for a few hours each night. Last Aug the utilisation dropped significantly with the addition of moar RAM. £6.5k (inc VAT) to upgrade memory to 128GB (minus what we can get for the old RAM on ebay - approximately zero). Getting the same rough capacity in more modern RAM costs about half as much. => better to just get a more modern machine.
- Replace puff/fuchur with new G4p machines. But need to buy some RAM: ~£340 to max out each machine.

- Grant is short on space for offsite backups. Requires **£682.92 inc** to expand (Replace enclosure with SAS x8 enclosure, add 3x 2TB disks and purchase SFF8088 controller + cabling. Total: 16TB raw disk) will gain 6TB which will last somewhere around 6-9 months depending on pruning of older (smaller) db backups.