

TWG Meeting Summary 2011-01-26

Draft

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Issues from the summary of the previous meeting

- Andy to expand on what a “credible plan” for hosting a tile server really is.
- Andy to contact IC w.r.t backups. DB backups currently just over 100GB and growing by ~5GB/month (trend seems stable). GPX traces a further ~240GB.
- No answer to board question about Smaug twin / backup. Decision was to go ahead - Grant to (re)spec a machine. Expected cost ~£10K.
- Andy to follow up about getting a small contractor VPN at IC for OOB.
- Yevaud currently not purging tiles, but might be soon. Disk usage ~77%, estimate 6 weeks until purging might be necessary.
- Server Katie’s hardware now used in Ridley. Ridley’s old hardware to be junked, except for the case(s?) which belong to Nick Hill.
- General need to get rid of the junk at UCL.
- Grant to (continue to) check out the GPX dumper.
- Andy to forward Wikimapia issue to SWG. There are questions there about whether they’re implicitly promoting copyright infringement. Especially given their recent “license” activity.

Other items

- **Yevaud:** Peaking daily ~60/70Mb/s with Konqi doing another 60Mb/s on top of that. New IC machine should alleviate that. Data has grown 2x in 1 year and much of the load is due to re-rendering very often in complex areas (e.g: moving a node in central Berlin causes a re-render of a much more complex metatile than somewhere less well-mapped). Furthermore, better-mapped areas are more likely to have updates. Andy reckons backing off to a 5min expiry saves a lot of re-rendering (but that going from hourly to daily doesn’t save much). On OCM it takes 2h per day to expire tiles at 100% iowait. Applying the diff is ~50% (or more) of the time. Discussed the merits of different URLs for weekly / minutely tiles, as most consumers don’t need minutely tiles. Alternatively - be more clever about how we filter data for expiry / re-rendering. Of the possible options the most promising seems to be getting a twin for Yevaud. Yevaud will be OK for several months yet, esp. with a better squid in front. The new IC machine will also be configured as a backup, and we will revisit the issue in a few months.
- **Gazetteer:** Switch off. Need to give notice / write proxy service. Don’t know enough about the users - think it’s 50/60 separate IPs per day. Ask Serge to look into who’s using what on the server. Grant to send email to dev@ saying we’re going to turn it off soon.

- **Yevaud:** Need to add new keys in PG DB + style file. May take the opportunity to upgrade to version 9. Discussion of the alternatives, but most practical seems to be just to turn off rendering for a few days / week.
- **Power:** Almost everything now connected to APCs. (Update: 29 Jan 2011 - all done)
- **XAPI:** New machine to run this? Have a rough idea how much data & how fast it needs to be. First, needs to be a reasonably finished bit of software & capable of taking the load. Would prefer the machine at IC due to bandwidth. Would also like to see a federated / mirrored service. Machine same as Orm would be ~£5K.
- **Horntail:** Extra PSU £350.
- **Orm:** Schedule a visit to IC to install.
- **Albi:** Buy a fold-away LCD monitor and keyboard & rack up the old Dell array.

Priority-Immediacy Matrix

| | High priority | Medium priority | Low priority |
|-----------------|-----------------------------|------------------------|--|
| Urgent (now) | Horntail PSU (£350). | | Off-site backup. Fold-away monitor. |
| Planned (<6mo) | Smaug twin / backup (£10K). | New XAPI server (£5K). | Upgrade Puff / Fuchur (£3K) |
| Future (6-18mo) | | | |