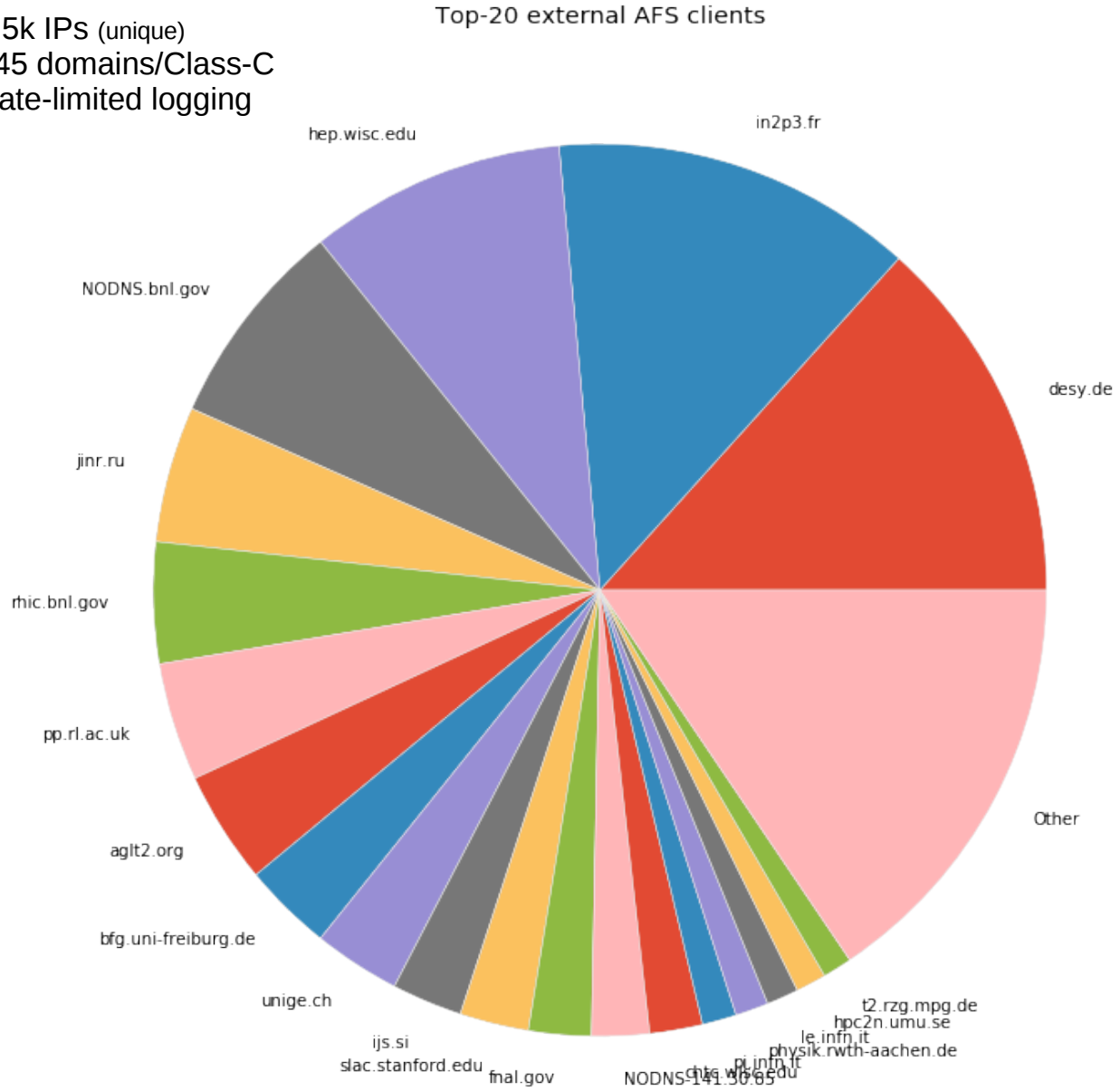
AFS phaseout meeting 2017-03-01

- Disconnection test
- Status & 2017 plans

external AFS **disco**nnection test

- **2017-02-15 09:00** CET ; **24h** ; ITSSB entry ; flush AFS dependencies + spread news
- Results – see TWiki page
  - 3 sites affected:
    - NIKHEF (whitelisted),
    - U.Geneva/ATLAS,
    - U.Munich/ATLAS(?)
  - 4 user tickets, incl 1 new CVMFS→AFS dependency (old gcc)
  - Experiments:
    - so far have feedback only from ATLAS:
      - ”..from ATLAS Grid jobs we did not see obvious problems.”
        - (but also that the test was too short for non-massive failures to show up)

7.5k IPs (unique)
345 domains/Class-C
Rate-limited logging



(Minor) lessons learned:

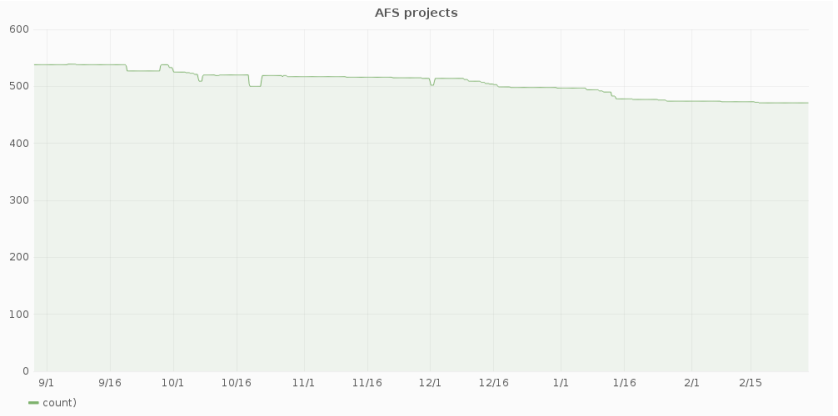
- CERN external FW drops our ICMP packets
  - AFS clients would hang for longer
- Blocking only fileservers, not VLDB
  - AFS clients would try longer/harder

= More noticeable than intended.
(this is not really bad…)

REDO in ~3 months?
Longer: 3 days? 1 week?

Phaseout status

- /eos FUSE mount
  - PLUS / BATCH /EOSWEB since July 2016
  - Desktops: since CC7.3 (have recipe for SLC6/others)
  - Several known issues:
    - File creation/deletion latency
    - Stability – continuous stream of bugfixes
- Project migrations started Sep 2016
  - ~10% (mostly trivial) cases done
  - Many “dormant” projects – low priority? Unclear?
    - Many users seem to wait for 1-to1-replacement , no use case review



AFS dashboard

2017 plans – AFS “harder stuff”

- (continue with 2016)
  - Project migrations – reminders..
  - Actually remove software from AFS
  - Webspace migration (also for user pages)
- **`/work`:**
  - 2Q2017: Stop self-service, create via tickets (justification? things not working on EOS)
  - 4Q2017: no longer create AFS workspaces (per-experiment decision), start migration
- **`/user`:** groundwork for later $HOME (on EOSUSER)
  - Split “UNIX” account from “AFS account”
  - Later: test cluster “lxplus-eos”
- “HEPIX scripts”: live? CVMFS. Else: RPM – group-by-group decision

2017 plans, 2

- Account management changes
  - Create “UNIX” account (UID+GID) by default, but without home directory
  - “PLUS account” button creates a homedirectory (AFS for now, EOS later)
  - Later: Various UNIXy services (AFS, EOS, CASTOR, ACRON?, BATCH? etc) exposed individually (opt-in/-out)
- Clean up of unused AFS accounts
  - Leftover AFS Grid pool accounts - done for LHC (~1k)
  - Created-but-no-files (~12k = 30%):
    - can propose deletion campaign - once we can easily re-create

2017 - EOS service changes

- Development – see CHEP2016 - EOS Developments
  - New EOS-FUSE client - ETA 2Q2017
    - More aggressive caching should help with small file creation
    - Performance should be on par with AFS. *This is still slower than local disk.*
  - New EOS namespace - ETA 3Q2017
    - Remove limitation on number of files
    - Hope to keep NS performance
- Update from EOS-0.3 to EOS-4 (“citrine”), xrootd-3 → xrootd-4, SLC6 → CC7
  - Several updates in EYETS
  - Massive re-installation campaign (background)

Administrativa / Feedback?

- Communication
  - Do we miss some channels? (ex: bulletin?)
  - Are your users well-informed about the phaseout?
  - Are your blocking issues known + tracked?
- Escalation?
  - phaseout taken seriously = resources allocated?
- Timelines
  - Is “shut AFS off during LS2” still feasible?
- Tools / support – any requests?