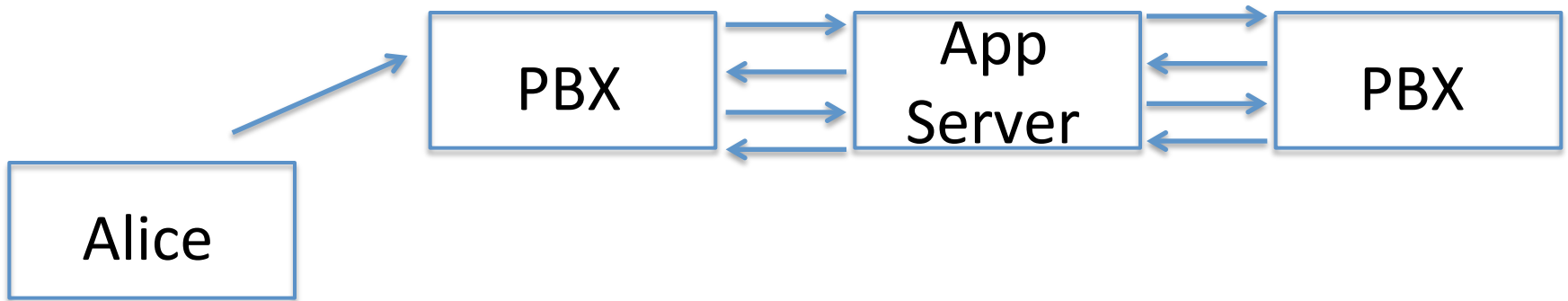Chinese Fireball

Hungarian Horntail

Loop detection mechanisms for SIP B2BUAs

draft-kaplan-straw-b2bua-loop-detection-01

loopy: Hadriel Kaplan

The Problem(s)

- SIP Requests are getting looped, without end
  - In particular, dialog-forming INVITEs
  - Because the left side has a route to the right, while the right side has a route to the left
- PBXs and App Servers replace Via, Record-Route, Max-Forwards, and do other evil things
  - SBCs, on the other hand, do nothing wrong – as usual

Not The Solution

- Look for same To/From pair
- Look for same P-Asserted-ID from wrong side
- Look for same media info coming back

The Solution

- Stop resetting Max-Forwards!
    - Copy and decrement the value
- Also support RFC 5393 for Max-Breadth as a Proxy would
    - And if you're a Proxy-B2BUA, then implement the RFC 3261/5393 Via-header check
- Is this perfect? NO! It will still loop a bunch of times before Max-Forwards reaches 0, but at least it *will* end eventually

What's changed since the last time we discussed this boring topic?

- There's a new AD selected, and one retired
- There's a new Pope selected, and one retired
  - Coincidence? I think not!
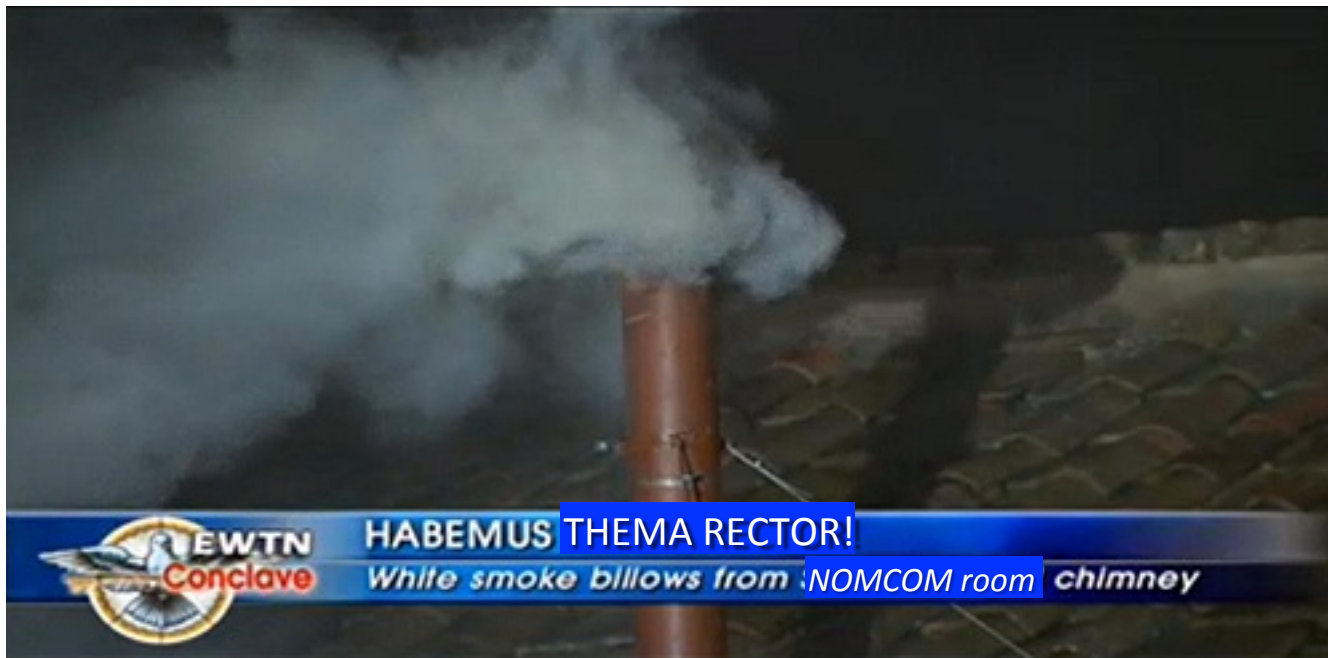
What's changed about the WG draft?

- New expiry date... 'ascii rehydration' at work!
- Section 5 of the draft has this now:

```
For B2BUAs that remove Record-Route headers, they MUST
only perform the copying and checking rules above for
out-of-dialog requests.  The reason for this is other
User Agents might send in-dialog requests using a very
low Max-Forwards value, based on the number of Record-
Route headers they received.
```

See you in Berlin!