

# IT STARTED WITH:

- I was doing a project at Solcon (Dutch ISP)
  - Deploying IPv6 for FttH customers
  - Static /56 prefix per connection
  - Provisioning to CPE with IPv6 DHCP-PD
  - Connections identified by Remote-ID (RFC 4649)

# LOOKING FOR A DHCPv6 SERVER

- Existing DHCPv6 servers good at “Dynamic”
  - But we just want static prefixes per remote-id
  - Work-arounds to do this are ugly and error prone
- Maturity and stability not as good as we hoped
  - You don't want your DHCP server to commit suicide when encountering something it doesn't expect
- Not very flexible (same problems as Ron)

# THE RESULT: DHCPKIT

- DHCPv6 server and library for Python 3.4+
- Server doesn't have much hard-coded behaviour
  - Just the mandatory stuff, everything else can be configured
- Very easy to write additional plug-ins
  - Integration with your provisioning system
  - Debugging tools, looking glass, identifying clients etc.