DHCPv6 Failover Update IETF89

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(Former) DHCPv6 Failover Grand Plan

- Step 0: Redundancy considerations
    - Published as RFC6853

- Step 1: Requirements document (info)
    - Published as RFC7031

- **Step 2: Design document (std)**
    - Passed WGLC
    - AD review
    - IESG submission

- Step 3: Protocol document (std)
   - TBD

- Possible extension drafts

AD feedback for dhc-dhcpv6-failover-design-04

- Can't publish as std (not implementable on its own)
- Design decision discussion not really appropriate for std
- What if protocol draft (step 3) needs some changes that belong to the design?
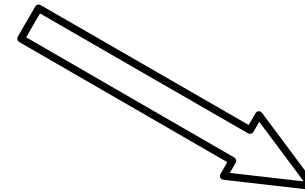- Not ready for IESG

Result:

Ted, Kim and Tomek decided to split failover-design.

draft-ietf-dhc-dhcpv6-failover-design-04 split
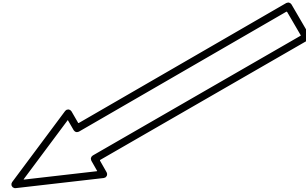
failover-design-05 (info)

- Answers question: why?
- Intro
- Protocol overview
- Resource allocation
- Information model
- Failover mechanisms overview

failover-spec-00 (std)

- Answers question: how?
- Connection management
- Failover states
- DDNS Considerations
- Messages
- Option formats

To be determined:
- Time Skew, Lazy Updates, MCLT, Unreachability detection
- Re-allocating Leases,
- Sending/Receiving Binding Update, Conflict Resolution
- Acknowledging Reception

Some sections are expected to float back and forth between drafts

DHCPv6 Failover Design :: Next steps

1. Kim, Tomek will do the initial split
2. Publish trimmed down failover-design-05 (info)
3. Publish initial failover-spec-00 (std)
4. Adoption call for failover-spec
5. Work on both in parallel
6. Request WGLC together
7. Request publication together

   Asking the WG:
- Respond to adoption call for failover-spec
- Review both drafts once they become available

(Current) DHCPv6 Failover Grand Plan

- Step 0: Redundancy considerations
- Step 1: Requirements document (info)

- **Step 2: Design document (info, was std)**
  - Publish trimmed down failover-design-05
  - Wait for failover-spec to reach WGLC-ready
  - Double WGLC
  - Send both to IESG

- **Step 3: Protocol document (std)**
  - Publish failover-spec-00
  - Adoption
  - Tweak design/spec split
  - WGLC
  - Send both to IESG

Thank you