Reverse delegation in ip6.int space

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Current status

- RFC3152
  - Introduces ip6.arpa and deprecates ip6.int
- RIR space
  - ip6.int and ip6.arpa are supported
  - Different policies and procedures apply
- 6bone space (3FFE)
  - Delegations are done in ip6.int
  - Delegation of e.f.f.3.ip6.arpa to be done soon (RFC3681)
- Software dependencies
  - Some still have ip6.int hardcoded, some implement a fallback mechanism
What’s the problem?

• RFC3152 deprecates ip6.int
  – but doesn’t specify a roadmap
• Chicken & egg problem
  – not enough incentive to support ip6.arpa in sw
  – requirement to request both, prolonging ip6.int lifetime
• Hard to identify “broken” sw
• Operational overhead in managing reverse
  – and possible inconsistency
Proposal

• Define a clear phase out process
  – Step 1: RIRs freeze ip6.int space
  – Step 2: Remove existing delegations in ip6.int space
  – Step 3: Recommend to IETF to instruct IANA to remove ip6 delegation from .int zone

• Coordinated plan is necessary
  – RIR open policy process
  – I-D to publish
  – Coordination with 6bone

• Do it as soon as possible while the load is low