

ICE vs. ANAT

Jonathan Rosenberg
Cisco

Question: Relationship of ICE and ANAT

- Option 1 (ICE): ICE deprecates ANAT, used as the v4/v6 transition technique
- Option 2 (ANAT/+ICE): ANAT is the v4/v6 transition technique, can add ICE on top of it
- Option 3 (SDPCap/+ICE): SDPCap deprecates ANAT, can add ICE on top of it

Pros/Cons

- ICE
 - (+) V4/v6 selection dynamic – deals with v6 connectivity breaks – good for transition
 - (+) wouldn't need to add something for FW/NAT
 - (+) allows path characteristic based v4/v6 selection
 - (+) Can use RFC 3484 with it
 - (-) complex
 - (-) will need ICE even if there is no NAT/FW anymore
 - (+) will be on endpoints anyway
- ANAT/+ICE
 - (+) ANAT simpler than ICE if you only need static v4/v6 selection
 - (+) already specified
 - (-) Must always use ANAT even when ICE is used too for backwards compatibility - ANAT adds no value there
 - (-) Doesn't work with RFC 3484
 - (-) static selection doesn't allow fallback in case of path problems
 - (-) no path based selection

Hums

- Option I:
 - V4/v6 sipping document uses ICE as the transition technique
 - ICE deprecates ANAT
- Option II:
 - V4/V6 document uses ANAT as the transition technique (as it does now)
 - ICE describes usage with ANAT