ISATAP Applicability
(draft-ietf-ngtrans-isatap-scenario-00.txt)

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Applicability document

- Enterprise/managed network environment
- Deployment scenario for ISATAP
- Applicability of ISATAP

Enterprise/Managed network environment

- E.g. corporate/academic campus networks ("intranets")
- Normally organized as arbitrarily-large "stub" networks:
  - may include multiple security compartments
  - may have multiple peering points with global Internet
- Normally operated by single administrative authority:
  - may be centralized or distributed, but united by commonality of interests/policies

Deployment scenario for ISATAP

- Deploy one or more ISATAP routers, each with
  - Link(s) to IPv4 enterprise network
  - (Possibly) a link to the IPv6 internet
- One entry in the DNS
  - For "isatap.domainname"
  - "A" record for every ISATAP routing interface
- Clients auto-configure themselves

Applicability of ISATAP

- Automatic tunneling, no configured tunnel state
  - hosts can be added without manual configuration
- Non globally unique IPv4 addresses useable
- No special IPv4 services within the site (e.g., multi-cast)
- Compatible with other mechanisms (e.g., [6TO4])
- Supports both stateless address autoconfiguration and manual configuration
- Eases aggregation issues at border gateways
  - Prefix per site, not per host

Feedback

- Enterprise-internal firewalls may exist

  - May need to split the enterprise into one or more ISATAP sites

  - Native/tunneled IPv6 routing and firewalling between these sites

Document future

- Content updates
  - Growth (and shrinkage) of ISATAP sites
  - Site splitting
    - Relates to growth and internal firewall issues
- Content location
  - Evolve into a more general document?
  - Contribute ideas to a separate document?