

Pros and Cons of IPv6 Transition Technologies for IPv4aaS

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The IPv4aaS mess

- 5 Transition mechanisms with some market penetration
 - 464XLAT, DS-Lite, lw4o6, MAP-E & MAP-T
- Few others with very few deployments
 - LISP, GREoIPv6, 4over6, 4rd, etc.
- How easy for an ISP to decide?
 - Analyze Pros & Cons

High-Level Architecture

- How each IPv4aaS traverse the ISP network
- How each IPv4aaS “shares” IPv4 addresses

Summary (1)

- Detailed analysis
 - Architectural differences among the IPv4aaS
 - Basic comparison
- Tradeoff between port number efficiency and stateless operation
- Support for Server Operation
- Support and Implementations
 - OSs, Cellular and Broadband
 - Implementation code sizes

Summary (2)

- Typical deployment and traffic volume
 - Deployment possibilities
 - Cellular with 464XLAT
- Load sharing
- Performance comparison
- Security considerations

What else?

- What other aspects would you be interested in?
- What other considerations would be helpful?

Next steps

- Measurements are planned to confirm our observations
- Become a WG item ?
- New inputs ?