LISP VPNs
LISP is good for you!

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What’s InTouch NV?

- Managed Service provider
- Nice & decent network through West-Europe
- Sells technology independent products which we call “services”
- Example: Large private networks for multinationals in multi-tenant way
What is LISP?

• Location ID/Separation Protocol
• Abstraction layer
• Location independent prefixes
• IPv4 over IPv4, IPv6 over IPv4, IPv4 over IPv6, IPv6 over IPv6
Dear Santa,

I’d like a **manageable** way of building large virtual private networks over the internet.

your friend,

Job
Our typical “Satellite” office
Current approach

Remember: We don’t own the last mile. We have to deliver over the top.

• Build 2 GRE or DMVPN tunnels
• Use plain IPSEC or GETVPN
• OSPF for tunnel/link failover
DMVPN is horrible:
LET ME SIMPLY THINGS FOR YOU

WITH LISP
Component overview
RLOC's can be static, DHCP, IPCP or whatever

EID apply 'ip mtu' and 'ip tcp-adjust-mss' here

172.16.42.0/24
MapServer picture (think DNS!)

Hey, I'm 172.16.42.0/24 at 219.42.64.2

where everybody at?

Yo, where 172.16.42.0/24 at?

RLOC for 172.16.42.0/24 is 219.42.64.2
A Sample traceroute:

from satellite office to server behind the VRF

job@DennyCrane:~$ traceroute 172.16.4.202
traceroute to 172.16.4.202 (172.16.4.202), 30 hops max, 60 byte packets
 1 172.16.42.253 (172.16.42.253) 6.102 ms 7.229 ms 7.212 ms
 2 172.16.0.20 (172.16.0.20) 18.650 ms 18.651 ms 18.622 ms
 3 172.16.0.1 (172.16.0.1) 13.968 ms 13.993 ms 14.020 ms
 4 172.16.4.202 (172.16.4.202) 13.931 ms 13.899 ms 13.897 ms
job@DennyCrane:~$
Conclusion

LISP is good for you

- Multihoming
- Dual stack
- Easy
- Ingress traffic engineering
- Mobility
- Low OpEx

Any questions?

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