

Try again. Try harder.
-Inox

SHIM6 BOF

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SHIM6

- Approx 2-year-old IETF effort to retro-fit an endpoint-id/locator split into the existing ipv6 spec
- Summary: end-systems are assigned an address (locator) for each connection they have to the network topology (each provider); one address is used as the id and isn't expected to change during session lifetimes
- A “shim” layer hides locator/id split from transport (somewhat problematic as ipv6 embeds addresses in the transport headers)
- Lots of complexity around locator pair selection, addition, removal, testing of liveness, etc.

Summary

- We'll keep this simple
 - Rube Goldberg Contraption
 - Liveness
 - Selection
- Issues
 - DHCP
 - Interoperation
 - Troubleshooting
 - Low cost customers – margin destruction

AOL continues to send its users onto the increasingly speedy information superhighway in brightly colored, beeping golf carts.

-Fortune Magazine

Go Big or Go Home

- Either do 8+8 or go home
- Let v6 multihoming follow v4 and call it done
- Any large ISP is not going to let end users control traffic flows
 - Oscillation
 - Feedback loop time period

"If you think there is a solution, you're part of the problem"
-GC

Multihoming

NACCIDENT UNIFORM COLOR CODE

Elements affected during a faulty maintenance:

	IGP
	MPLS
	(3) CrossRoads
	VoIP
	Dep(3)(3)ring™
	Cogent
	IPv6
	BGP



CALL
BEFORE YOU REDISTRIBUTE!

IGP Safety

1 - 8 7 7 - 4 L E V E L 3

Levelled (3)
COMMUNICATIONS

Great ideas, in theory, should not be hampered by pesky reality. -Dys

Heresy

Do you believe in miracles?

Not really

-NIN heresy (version)

- Not an infinite number of multihomers
- Routing plane can keep up
- FIB is more interesting (Capital Markets)
 - Compression (a few hundred oifs)
 - Forwarding convergence may be slow
 - Let users pay for important prefixes

"There is a difference between making something foolproof and reducing the number of fools" -Bill Barns

Fin

"But in our enthusiasm, we could not resist a radical overhaul of the system, in which all of its major weaknesses have been exposed, analyzed, and replaced with new weaknesses."

-Bruce Leverett

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