







DUID vs MAC



- Mac address as ID is flawed:
 - Not always unique
 - Can be altered
 - Multi-interface hosts confuse things
- But it's what most of the eyeballs on the Internet are ID'ed by currently
- DUID (DHCP Unique Identifier) is the replacement in IPv6

What DUIDs do right



- One DUID per DHCP server or client
- One Identity Association (IA) per network interface on a host
- A host can DHCP for all interfaces via DUID/ IA as unique key

Where DUIDs don't work...



- Anyone using mac address for identification or filtering
- Anyone trying to correlate IPv4 and IPv6 to the same machine/user

Persistent storage of DUID may cause surprises





The addressing wars...



RAs

- RDNS (RFC 6106) support inconsistent
- Only prefixes, default route, RDNS
- Can't do complex configs/options

DHCPv6

- No default route
- Usually not on link local, more complex
- Requires RA to set O/M bits





Still not standardized



Prefix Delegation

/etc/resolv.conf and multiple DHCP leases

Multiple default routes

OS implementations of RFC 6724



