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Why Now?

- Monash is like a battleship, it will take a long time to change direction
- Need to break the chick-and-egg problem by providing the IPv6 infrastructure
- Need to raise IPv6's profile, and show that it does actually work
- · Need to find out what we don't know
- Dual-stacking the infrastructure is a 50-device problem, v. dual-stacking edge devices which is a 30,000-device problem
- Cost of failure, or having to do things over, is low now, compared to having to do things in a rush later
- Be seen to be a leader











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IPv6 out ACL Template Example

permit tcp any any established %special-top-out6 permit ipv6 %fromgroup6 any ! normal out traffic deny udp any any range 135 139 log ! block window virus deny udp any any eq 445 log ! block window virus permit udp %net-monash-au6 any ! NACP permit udp any any gt 1024 ! NACP2 permit icmp any any gt 1024 ! NACP2 permit ipv6 any ff00::/8 ! multicast out %special-bottom-out6 deny ipv6 any any log-input











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Problem: Monitoring IPv6 Network

- Statseeker V3
 - Can monitor interface usage and up/down status
 - Can't ping IPv6 addresses
- flow-tools
 - Handles Cisco NetFlow V5 IPv4 only
 - Need NetFlow V9 for IPv6
- Fluke NetFlow Tracker 3.0.7
 - Can accept NetFlow V9
 - Can show 6to4 IPv6 traffic
- Snort 2.8
 - IPv6 support is incomplete
 - Needs addresses like 2001:0:0:0:0:0:0/16
- No IPv6 usage statistics collection !!!





– Network monitoring

