





# 2021 US Government (OMB) IPv6 Mandate

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#### **OMB IP Mandates**

- OMB = US Office of Management & Budget:
  - Oversees US Federal Agencies:
    - DOE = US Dept. of Energy (a federal agency)
  - OMB mandates are executive orders for Agencies to follow
  - OMB rates Agencies on their adherence
- Previous OMB IPv6 mandates:
  - 2005: Federal agency networks provide IP6 support by 2010 ■



- 2010: [a] IPv6 support for DNS, email, & web services within federal agencies by 2012
  - [b] Internal (user) client applications use IPv6 by 2014



But Labs were supposed to make a "best faith" effort to comply



### **OMB Mandate M-21-07 – Issued 2020-11-19**

No later than FY23, all new networked Federal information systems will be IPv6-enabled at the time of deployment...

- At least 20% of IP-enabled assets operating in IPv6-only environments by end of FY23 (Sep 30, 2023)
- At least 50% of IP-enabled assets operating in IPv6-only environments by end of FY24 (Sep 30, 2024)
- At least 80% of IP-enabled assets operating in IPv6 only environments by end of FY25 (Sep 30, 2025)



US National Labs are NOT being excluded



Compliance to be measured DOE-wide

Current DOE guidance - all sites should strive for 100% compliance by FY25



## The OMB IPv6 Directive Process (in progress...)

- 1. OMB issues directive to Agencies (ie., DOE):
  - Requires Agency to respond with implementation plan for review/approval
  - IPv6 mandate directive issued last November
    - Agency response with implementation plans due Sept 30, 2021
- 2. DOE currently drafting department-wide implementation plan
  - IPv6 data call sent to Labs:
    - List status/readiness of systems to support IPv6-only environment
    - Lab responses due next week (June 25<sup>th</sup>)
    - Quarterly IPv6 data calls to follow to track status
  - DOE to use data call info to help frame their response to OMB
    - Also to formulate DOE IPv6 policy for exemptions, timeline adjustments, etc.



## **Summing Up...**

- US federal government has mandated a new IPv6 deployment policy
  - Targeting transition to IPv6-only environments
  - Very aggressive in scope & timelines
- US Dept of Energy is drafting an IPv6 implementation plan in response
  - The US National Labs will be included within DOE's response
- Not clear at this point how IPv6-only requirements will be applied to the US Labs...

