



Memorandum

Subject: **ACTION**: ITIM 2021-001 – U.S. Department of Transportation (DOT) Internet Protocol version 6 (IPv6) Implementation - Complete Transition to IPv6

Number: ITIM-2021-001

From: Jack Albright
Deputy Chief Information Officer
U.S. Department of Transportation

To: Component IT Directors
Component Chief Information Officers
Component Chief Acquisition Officers

cc: Office of the Senior Procurement Executive

I. SCOPE

This Information Technology Implementation Memorandum (ITIM) applies to all DOT Components¹ and systems owned and operated by DOT or owned by DOT and operated by a 3rd party or a contractor on behalf of DOT. The purpose of this memorandum is to direct actions necessary to complete the operational deployment of IPv6 across all Federal information systems and services.

II. INTRODUCTION

In accordance with Office of Management and Budget (OMB) Memorandum 21-07 (M-21-07), dated November 19, 2020:

- By Fiscal Year (FY) 2023, all new Department of Transportation (DOT) information systems must be IPv6-enabled at the time of deployment.
- DOT must phase out the use of IPv4 for all current mission systems, software products and network hardware as soon as practical. At least 80% of IP-enabled assets on DOT networks must be operating in IPv6-only environments by the end of FY 2025.

The lead office for IPv6 implementation is the Office of Strategic Portfolio Management (S-81). This memorandum designates the DOT's Chief Enterprise Architect as the lead of DOT's IPv6 Integrated Project Team (IPT) to coordinate these actions. The Chief Enterprise Architect shall establish the IPT, which shall be responsible for developing and overseeing the overall IPv6 transition plan inclusive of strategies, acquisitions, processes, status, and milestones. IPT members shall act within their respective Components to ensure that system owners document

¹ Component has the meaning established in DOT Order 1351.A, *IT Policy Management*, and refers to all DOT Operating Administrations, the Office of the Secretary of Transportation, and the Office of the Inspector General.

detailed plans for transitioning to IPv6 and that such plans align with the Agency's overall IPv6 Implementation Plan.

III. REQUIRED ACTIONS

Designated key IPv6 IPT members must:

- Provide strategies, processes, status, and milestones for inclusion in the Agency's overall IPv6 implementation plan;
- Collaborate with DOT's Office of the Chief Information Officer (OCIO) to identify opportunities for IPv6 pilots on operational systems and nominate them to the IPT;
- Oversee implementation of the Agency's IPv6 implementation plan;
- Work with DOT OCIO to ensure that processes for approving new systems for operation, or upgrading existing systems, include a review of the system's IPv6 readiness to ensure consistency with the Agency's overall IPv6 Implementation Plan;
- Work with DOT's Office of the Senior Procurement Executive (OSPE), FHWA's IT Acquisition Center of Excellence (IT ACE), and DOT OCIO (similarly for the Federal Aviation Administration) to ensure processes are in place requiring all new agency acquisitions are capable of operating in an IPv6-only environment at the designed functionality and performance by the milestones established in the Agency's implementation plan.

IV. REFERENCES

- a) Office of Management and Budget (OMB) Memorandum M-21-07, *Completing the Transition to Internet Protocol Version 6 (IPv6)*; November 19, 2020; <https://www.whitehouse.gov/wp-content/uploads/2020/11/M-21-07.pdf>

V. EFFECTIVE DATE

This ITIM is effective as of the date of signature and remains in effect until canceled, amended, or replaced by updated guidance or instruction.

VI. CONTACT

For questions regarding this memorandum, please contact Donald Buskard at Donald.Buskard@dot.gov.