

Department of Veterans Affairs Internet Protocol Version 6 (IPv6): North American IPv6 Summit

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Major VA IPv6 Transition Drivers



Cost Control

Technology Leadership

Veteran Service Continuity



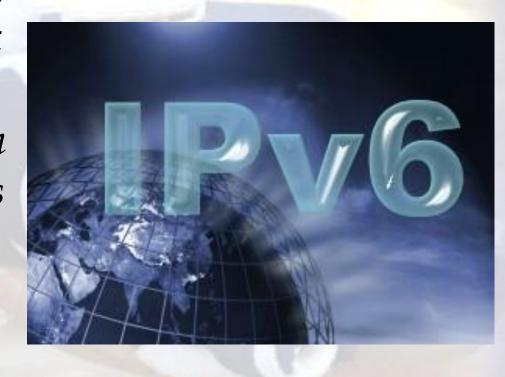




VA 2015 Milestone



"By 2015, all computing, application, and network resources must turn off IPv4 as a communication mechanism in VA unless there is a waiver from my office or the device/service runs in an enclave."



-VA CIO IPv6 Directive

VA IPv6 Transition Timeline - Historical **Updating** VA IPv6 VA June IPv6 VA IPv6 VA IPv6 2008 IPv6 **Interagency Interagency Transition** Transition IPv6 **Transition** Office Lab VA IPv6 **Testing** IPv6 **Plans** Meeting Plan **Established Completed** Meeting **Established** Connectivity **VA Scores** VA Scores $\mathbf{V}\mathbf{A}$ VA IPv6 5 on OMB VA IPv6 5 on OMB VA EA **Designated** Working IPv6 VA IPv6 Core IPv6 & Exhibit Va.gov IPv6 **Interagency** Level 1 **Transition** Network **Transition** 300s Updated **Operational** Groups Addresses IPv6 **Formed Rating** Agency Rating Allocated **Testing** with IPv6 Meeting 2005 2006 2007 2008 2009 2010 2011 **OMB** VA IPv6 **VA Chairs** VA IPv6 **Interagency** Internet2 VA IPv6 Internet2 Interagency 05-22 Steering **Federal Training** IPv6 Connectivity Case Study **Pilots** IPv6 IPv6 Memo Committee Launched Meeting Identified Meeting Established **Training** Group VA IPv6 VA IPv6 VA IPv6 VA Scores **Interagency** IPv6 VA IPv6 New OMB **Interagency** PM**Policy** 5 on OMB **IPv6 Testing Incorporated Pilots** IPv6 Memo IPv6 Awareness IPv6 into Strategic Identified Released Video Identified Released **Meeting** Transition Plan for Rating OneVA **Enterprise** Network



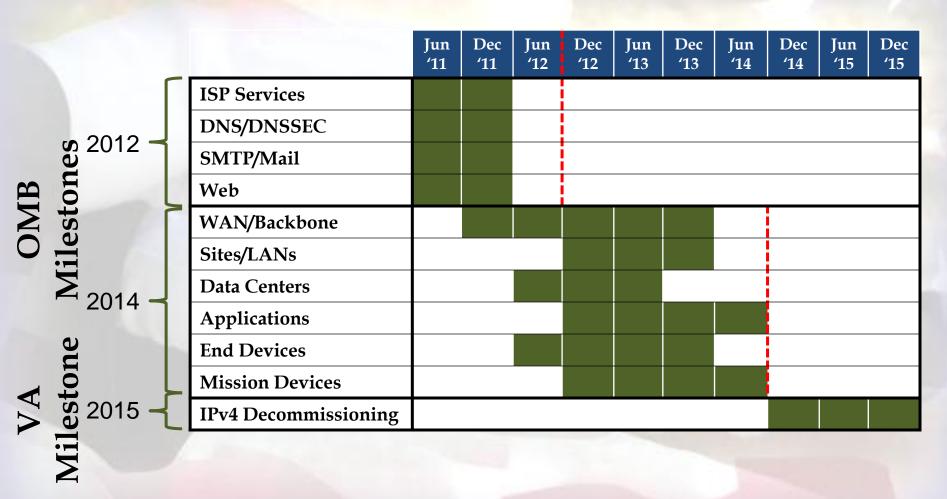
IPv6 Levels of Implementation

VA is in the Implementation Phase of the IPv6 Transition Life-Cycle Implementation Experience & Success is Imperative





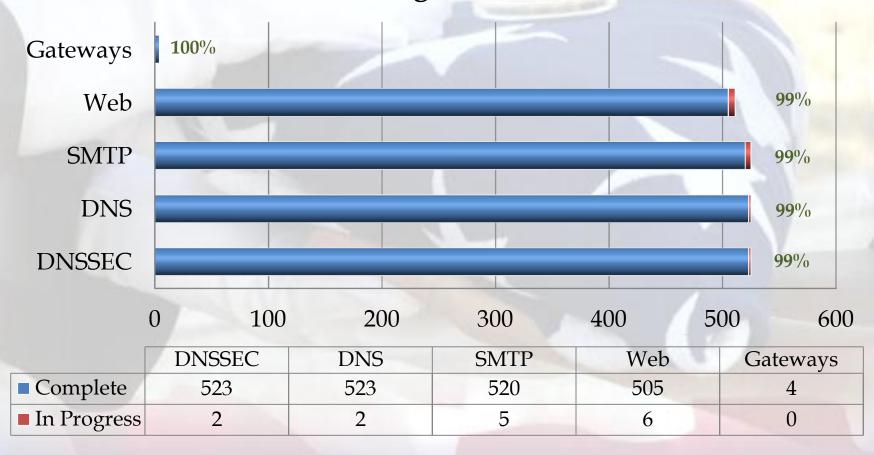
VA Execution Timeline



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VA IPv6 Progress Measure — 2012 Milestone

2012 Progress Status





Success Highlights

www.va.gov

- Launched for world IPv6 day in 6/2011
- Continuous IPv6 operation since

VA IPv6 DNS Services

- Combined IPv6 DNS upgrade with DNSSEC effort
- Reduced effort and cost savings, launched services sooner

2012 Progress

- 99% of services for 2012 are IPv6 operational
- Implemented on VA systems: (ISP, DNS, Web, Email)

Interagency Coordination

- Hosted bi-annual interagency conference
- Federal IPv6 outreach

ARIN /24 Allocation

- Developed modified address justification for ARIN
- Largest civilian agency IPv6 address block

Cross Agency Support

- Assembled and lead integrated program team across VA
- Established since 2006



Acquisitions

Directives

- •CIO Memo released in 2006 required all acquisitions to include IPv6
- •CIO Directive released in March 2011 requires IPv6 for all IT activities

Approach

- •OAL (Office of Acquisition and Logistics) has designated a representative to guide team to effectively review current contracts for IPv6 compliance
- •ITARS Technical Review Team to support IPv6 PMO directions for enforcing compliance

Accomplishments

- •FAR 11.002 (g) added to the ITARS homepage
- IPv6 language incorporated into the PWS template Section 6.1; Version 4.0; released August 2011



Major Issues to Date

External Issues

Networx Carrier Services

IPv6 Spam Filtering

USGv6 Certified Products

Internal Issues

IPv4 Thinking

Silo Mentality

Internal Organizational Processes (e.g. SEDR)

Ordering Enterprise Circuits as Dual-stack

Change Management and New Products

Federal IPv6 Task Force Outreach

- Facilitate Collaboration
 & Communications
 - Between agencies
 - With industry
- Share information & results
- Garner support & mindshare

Federal IPv6 Task Force

Outreach

Industry

Agencies

Semi-Annual IPv6 Conferences



- VA Lead & Sponsored
- Government & Select Industry
- Held since 2008
- Next conference April 2012







QUESTIONS