



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

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# Major VA IPv6 Transition Drivers





# VA 2015 Milestone

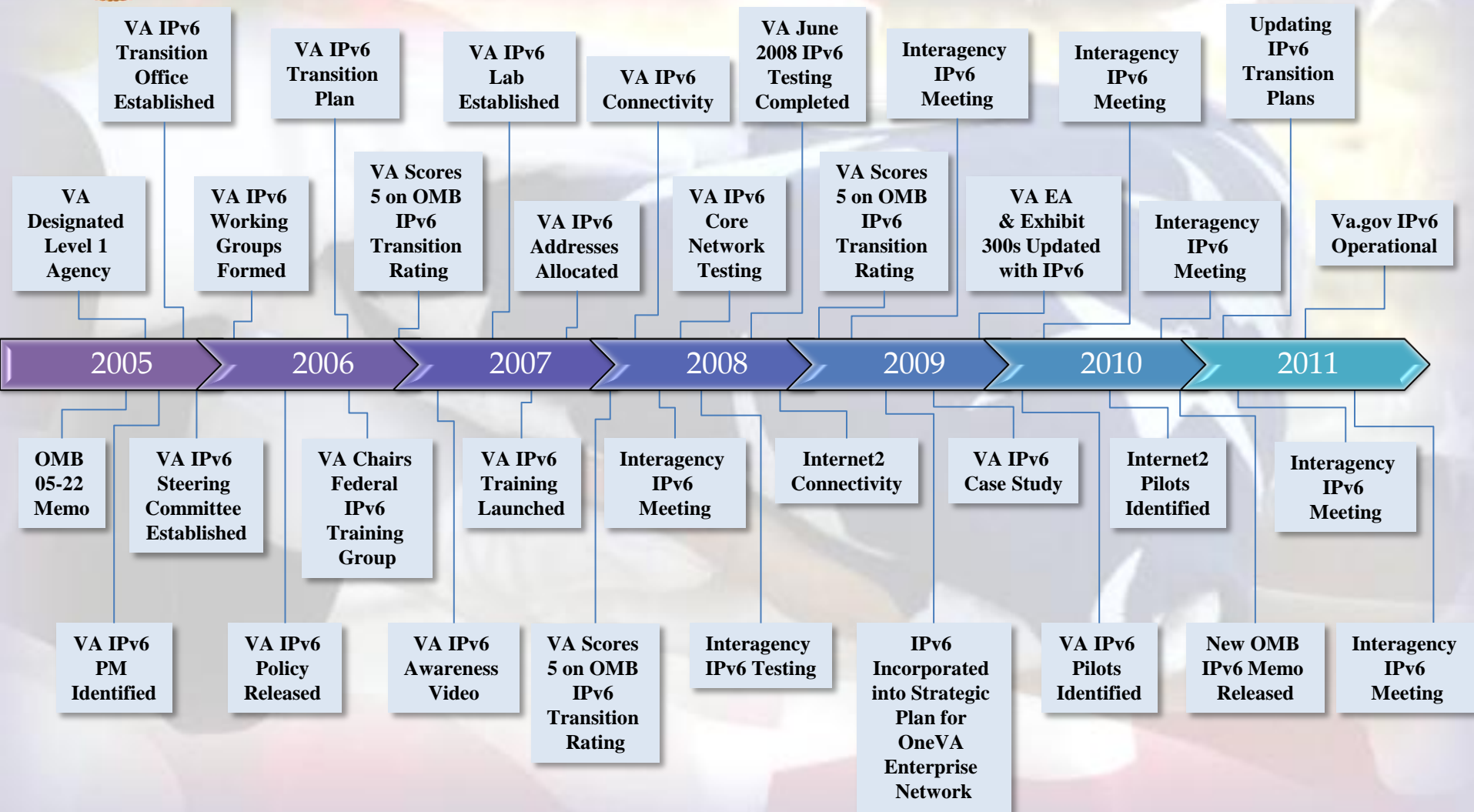
*“By 2015, all computing, application, and network resources must turn off IPv4 as a communication mechanism in VA unless there is a waiver from my office or the device/service runs in an enclave.”*

***-VA CIO IPv6 Directive***





# VA IPv6 Transition Timeline - Historical

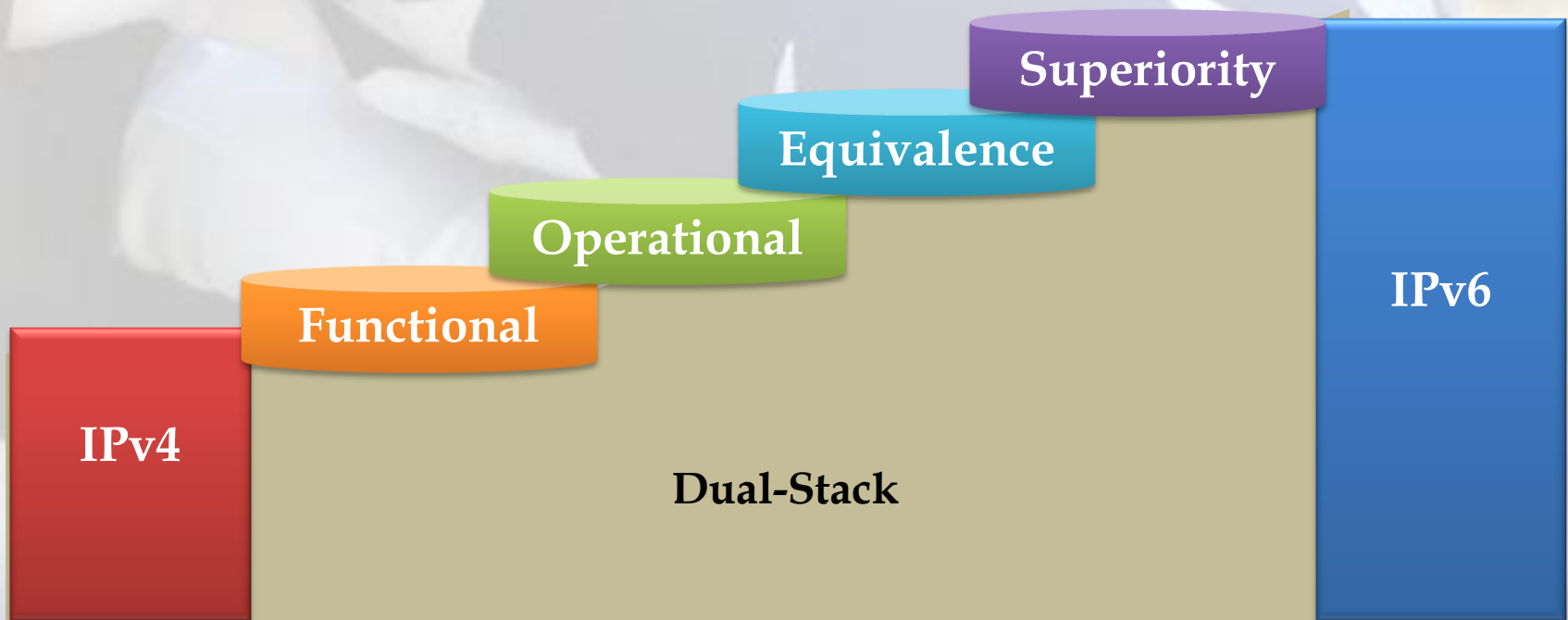






# IPv6 Levels of Implementation

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





# VA Execution Timeline

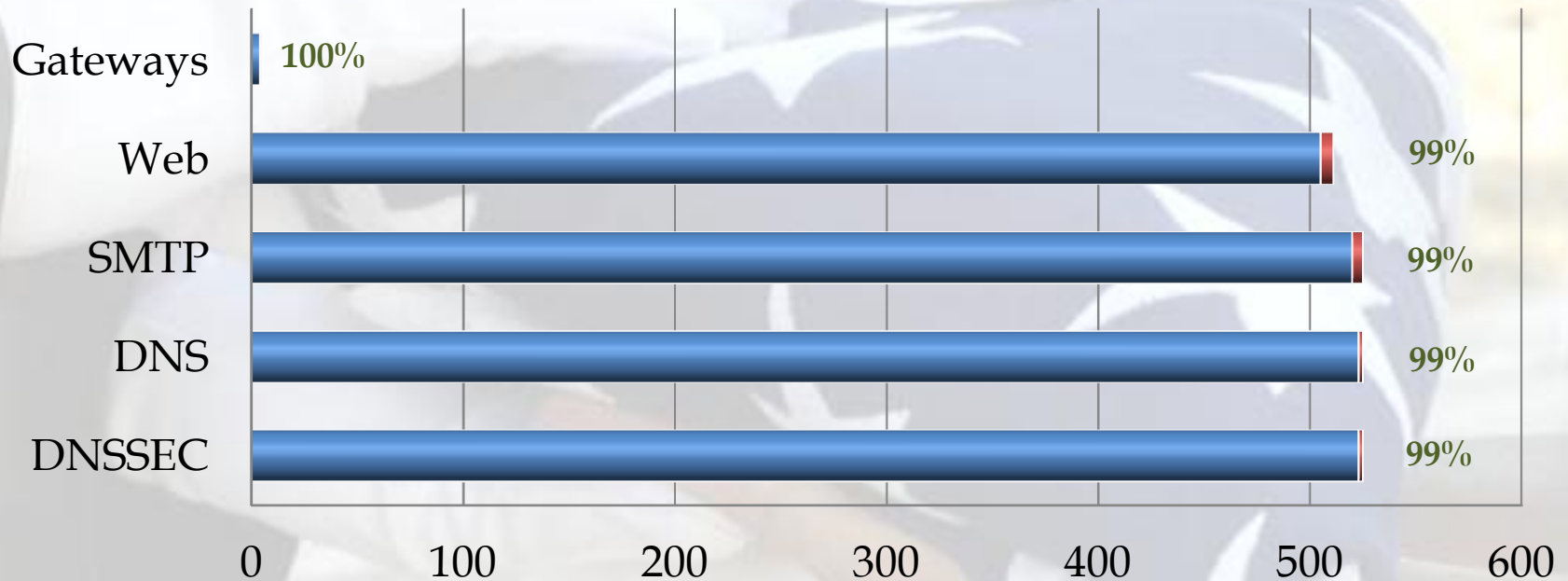
OMB  
Milestones  
2012  
2014  
2015  
VA  
Milestone

	Jun '11	Dec '11	Jun '12	Dec '12	Jun '13	Dec '13	Jun '14	Dec '14	Jun '15	Dec '15
ISP Services										
DNS/DNSSEC										
SMTP/Mail										
Web										
WAN/Backbone										
Sites/LANs										
Data Centers										
Applications										
End Devices										
Mission Devices										
IPv4 Decommissioning										



# VA IPv6 Progress Measure – 2012 Milestone

## 2012 Progress Status



	DNSSEC	DNS	SMTP	Web	Gateways
Complete	523	523	520	505	4
In Progress	2	2	5	6	0



# 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

Network Carrier Services

IPv6 Spam Filtering

USGv6 Certified Products

## Internal Issues

IPv4 Thinking

Silo Mentality

Internal Organizational Processes (e.g. SEDR)

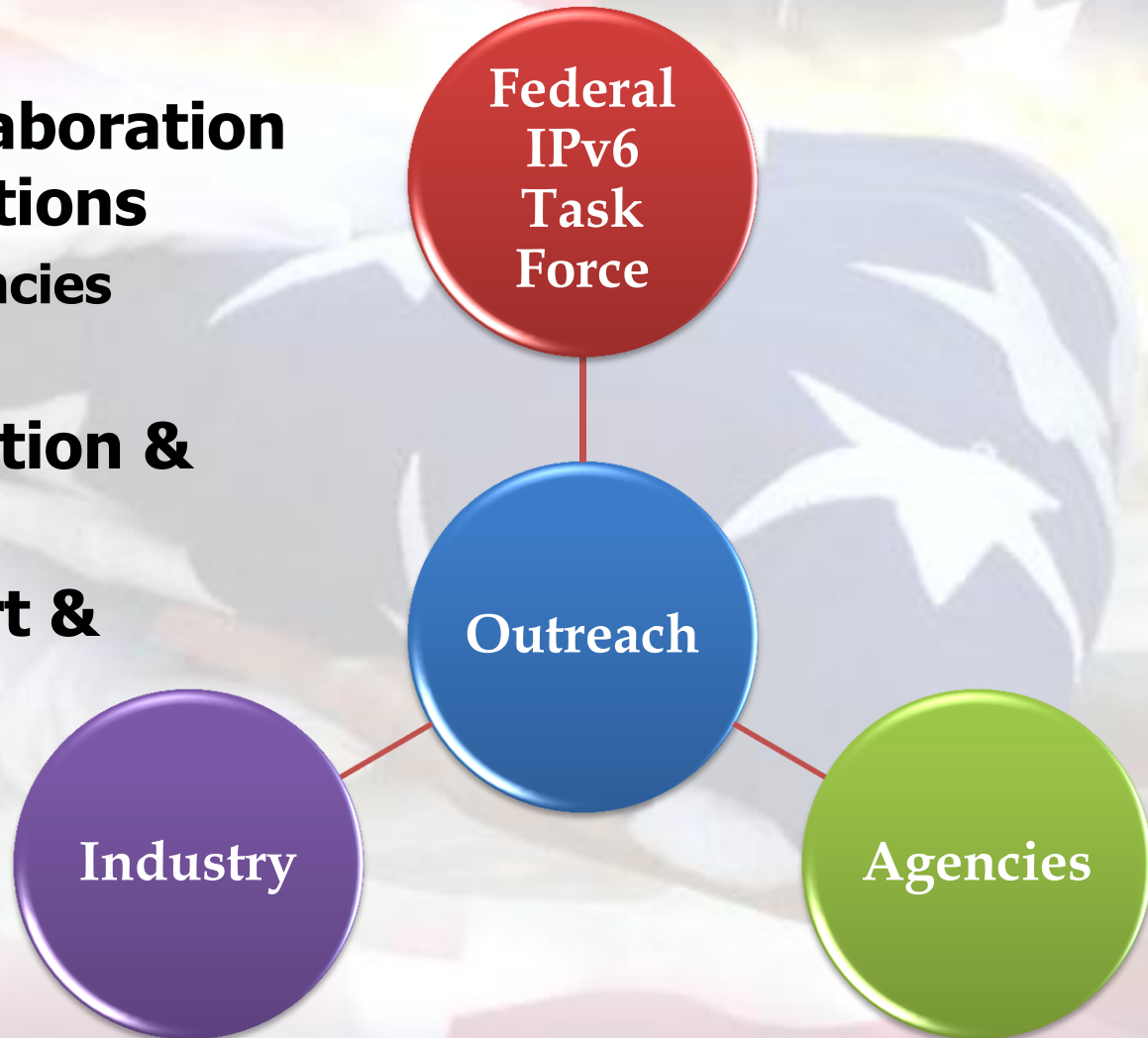
Ordering Enterprise Circuits as Dual-stack

Change Management and New Products



# Federal IPv6 Task Force Outreach

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





# Semi-Annual IPv6 Conferences

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







# QUESTIONS