

IPv6 Registry Subgroup

Minutes – November 8, 2005 Organizational Meeting

Attendees:

Steve Pirzchalski, OI&T
Valerie Kiraly, OI&T
Richard Shew, VHA OI NTEO
Dick Culp, VBA
Richard Tremblay, EES
Ann Margaret Howard, EES
Craig Castonguay, VISN 20
John Deltognoarmanasco, VISN 18

Steve Grundy, VISN 20
Larry Weldon, VHA OI HSD&D
Ted Dubaniewicz, HAC
Dave Bradley, VHA
Anamaria Matos, OI&T
Steve Kish
Cathlin Dollar, OI&T

General

- Steve provided a brief overview of IPv6, the activities to date and the purpose of the Training Subgroup.
- The VA backbone needs to be IPv6 capable by June 2008. An IPv6 Working Group has been meeting bi-weekly since August 2005. The Working Group determined that Subgroups needed to be established to assist with the project.
- There is an internal IPv6 website: <http://yaww.va.gov/oirm/telecom/IPv6>
- Additional representatives need to be included in this group including a WAN manager and someone from TMP.

Purpose and Organization

- The Registry and Addressing Subgroup is responsible for evaluating IP addressing needs for VA's IPv6 transition. The group will prepare a document describing the allocation scheme for distribution of the new addresses across the Department including the preparation of the required justifications for ARIN approval.
- The Registry and Addressing Subgroup will need to meet bi-weekly for at least the next 24 months.
- The following individuals are the co-chairs for the group:
 - John Deltognoarmanasco
 - Steve Pirzchalski

ARIN (American Registry for Internet Numbers)

- The director was scheduled to talk to the Subgroup, but was unable to do so. This will be rescheduled.
- ARIN group sets the policies for IPv6 addressing. The process for getting addresses for a large organization is quite complex.
- Their website is: www.arin.net

Funding

The most recent information has \$33 million available for IPv6 for the next Fiscal Year. Some funding will come from tech refresh and some will come out of the centralized budget (VACO). There will be funding for training and transition activities.

Issues

Several issues were raised that will need to be addressed by the Subgroup. Some of these are:

- How do we go about figuring the address schema?
- Is numbering going to be at the Agency level?

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- Are we going to have one or two sets of addresses?

Training Information from Dave Bradley:

- The VA Learning On-Line website (<http://www.vcampus.com/valo/index2.html>)
- The site contains two IPv6 training courses that will provide some good initial background to the basics of IPv6, benefits, issues, etc.
 1. IPv6 (#80284_eng)
 2. Working with IPv6 and Network Address Translation (#119790_eng)

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Minutes – December 2, 2005 Conference Call

Attendees:

Steve Pirzchalski, Co-Chair
Valerie Kiraly, OI&T
John Deltognoarmanasco, Co-Chair
Ted Dubaniewicz, HAC

Dave Bradley, VHA
Allen Heuvel, TMP
Gary Branch
Cathlin Dollar, OI&T

General

- Steve provided a brief overview of the OMB goal as it pertains to the Registry group. This group needs to develop an addressing schema which is to be a part of the Transition Plan which is due in February 2006. In addition, the group will be developing the justification for ARIN. Robert McFarland wants the VA to start getting our addresses **early**.
- Call participants reviewed their individual backgrounds / experience. All, with the exception of Allen, are new to IPv6 and most have strong network experience.
- There was a brief discussion of conversion issues. We have a One VA network, but certain parts are still separate.

Address Space

The focus of the call was on addressing – how much we would need and how we should approach this.

- There was some discussion of how to approach the task of deciding how many addresses we would require. Should we determine how many addresses we have and get those converted? Will we need more addresses? If so, how many more? Do the addresses need to be contiguous?
- Dave commented that we have gone through these address exercises before and have always been short of what was needed. He suggested that we look at everything we have and then add a percent more.
- As part of the process, we need to think about the future needs of the agency. For example, will every medical device need an IP address? Will all telephones and cell phones need IP addresses?
- A high level count of the facilities was started.

Facility	# Addresses Needed
172 - Facility Site	
23 - VISN	
20 - AS	
9 - Regional Center	
4 - Gateway Site	

Additional Resources

Need representation from the medical area – Steve Wexler?

ARIN

What does ARIN expect us to submit as a ‘justification’?

Steve is going to arrange for an ARIN representative to meet with us in a couple of weeks.

Next Meeting: December 8th, 3:00PM Eastern; Conference Bridge: 800-767-1750; PIN 44454

Participants: Please come prepared to discuss the number of addresses needed and a rationale for that number.

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	Description	Owner	Date Assigned	Status
1	Sent email to Scott Craig (Enterprise Architecture) about IP addressing (this goes into their EA document)	Steve Pirzchalski	12/2/05	Assigned
2	Arrange for ARIN representative to join future meeting	Steve Pirzchalski	12/2/05	Assigned

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Minutes – December 8, 2005 Conference Call

Attendees:

Steve Pirzchalski, Co-Chair
John Deltognoarmanasco, Co-Chair
Ted Dubaniewicz, HAC
Dave Bradley, VHA
Steve Kish
George Ludgate

Andrew DeLong
Allen Heuvel, TMP
Gary Branch
Reggie Terrell
Hal Haislip
Cathlin Dollar, OI&T

Next Meeting: Week of December 19th, specific day and time TBD; John and Steve will talk and decide on a day. Discussion to focus on how to allocate the addresses.

General

- Steve is proposing that the members of the working groups get together for 1 to 2 days of training. This way everyone would have the same basic level of knowledge. The estimated timeframe is the 2nd or 3rd week of January. OPM has a center in West Virginia that might be available. Steve is researching the possibility of funding from Central Office. Another option would be a video teleconference.
- Updated CIO Council guidance will be in four chapters. Chapter 2 will deal with addressing.

Addresses

ARIN will be presenting at the IPv6 Conference on Friday. Steve has spoken with an ARIN representative who believes that for an organization/agency the size of the VA, a /32 can be granted with minimal justification. ARIN also stated that they will reserve space on either side of the assigned block to account for additional future growth (a buffer zone).

Based on this information, the **group members on the call agreed that a /32 would be more than sufficient to meet the needs of the VA.**

ARIN Application

Andrew has downloaded the ARIN application, which looks ISP-centric to him. Perhaps there is another application that is more appropriate to the VA (a government agency). John D will see if he can uncover a more appropriate application and distribute.

Address Allocation

Mapping is the next task to focus on. Areas to address:

1. Address range and how to allocate; the allocation scheme needs to be included in the Transition plan)
2. Application and checklist

We will need to work with other groups when developing the allocation plan. The suggestion was to develop a proposal (straw man) and present to affected groups. Although the backbone is the starting point, we will still need to lay out a large portion of the plan.

It was suggested that we should go through the exercise to see if we could ever approach the number of addresses we are requesting.

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HIA Introduction / Overview

Reggie and George talked briefly about some of the issues they have been thinking about.

- The have talked to DOD and hospitals. Perhaps we could piggy-back of the DOD strategy, however DOD doesn't seem to be sharing a lot of information.
- What kind of equipment will need to be replaced? Some locations may be a long time away from transitioning.
- How long before eradicating v4? Some may not go for at least 10 years +; testing will there be performance issues
- Reggie is on a couple of joint committees with DOD. He will see if he can get more involved with the DOD reps.

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2	Arrange for ARIN representative to join future meeting	Steve Pirzchalski	12/2/05	Assigned
3	Set date for next meeting (Week of Dec 19 th)	Steve Pirzchalski, John D	12/8/05	Assigned
4	Find and distribute ARIN application	John D	12/8/05	Assigned

