

## IPv6 Working Group Meeting Notes November 27-28, 2007

### Security:

#### Discussion:

- Responsibility for monitoring, selection and implementation of security products is laid out in security policy but policy must be enforced (via controls).
- Training and subject matter experts are needed.
- Procurement process to obtain products is slow and may not be fast enough to meet an application/implementation need.

#### Decisions:

- IPv6 will be left off after testing (as previously discussed) due to lack of products to monitor for IPv6 traffic and secure network. NSOC will keep IPv6 off as stated in policy/risk memo.

#### Action items:

- Completed: Finish Risk Assessment document (Juan).
- Finish Risk based memo (Steve P.)
- Address security specifically in the "project closeout" memo (Steve P., Karen).
- Bring VeriSign into implementation discussions. (TBD)
- Review new contracts for security products (Andrew & Craig Wasson).
- Ensure IPv6 security issues are on agendas for Techtalk, ITC, Infosec forums (Steve P.; Rick, co-chairs).
- Discuss/determine approach for a contingency plan as requested by José. (Juan/Bill W.; Wes/Andrew).

### Testing:

#### Discussion:

- Test locations are Little Rock (Hal Haislip); Hines \* VISN – not data center \* (Troy Tepp); NSOC (Craig Wasson)
- Concern on setting up too many optional steps that delay getting to primary functions of test.
- Test components representative of the rest of backbone equipment.
- SixXS would provide v6 address block and would not be advertised; Need addresses so hole can be punched in firewall.

#### Decisions:

- IPv6 will be turned off after testing (as previously discussed) due to lack of products to monitor for V6 traffic and secure network. NSOC will keep IPv6 off as stated in policy/risk memo.
- Testing is still planned to begin in January. An early start is preferred to allow adequate time to investigate and resolve unexpected problems or issues.
- Test performance measures will be Latency, Data Throughput, Data Integrity.
- Results will be captured with screen shots.
- Ping will be used to measure latency.
- FTP will be used to measure data throughput & integrity; capture measurements with IPv4 and IPv6 and review file size & CRCs to confirm integrity; file size must be the same.
- Will use web access to an external web server which shows client IP address.
- Test results which deviate beyond acceptable limits (20% performance degradation) will be investigated further with tools such as probes.
- There will be no security performance measures in test
- No impact from the new WAN acceleration contract (Riverbend); assumption is that IPv6 will not be accelerated.
- Perform graduated test, component by component, starting with access layer; 1<sup>st</sup> enable/test temporary tunnels between test points.
- A traceroute will be 1st performed with IPv4 to set baseline for internal (inside VA) test. Will not use this for testing outside VA network because it would not provide useful data since network factors are beyond VA control.
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#### Action items:

- Obtain/identify addresses for each test scenario (John D./Craig W./Juan).



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- Identify place and participants for next pilot training and ensure it does not conflict with testing (Rick).
- Identify method to select the trainers (Rick).

### **Miscellaneous:**

#### *Discussion:*

- Applications will drive the implementation of IPv6 and the follow on need for security products.
- Steve Pirzchalski had a meeting with Dr. Paul Tibbits in application development. Their large project which may have IPv6 implications is Identity Management.
- Nanotechnology is also being used for applications which may use IPv6 (e.g. implants that monitor drug reactions).
- Per Steve P. there is IPv6 project contracts for project management, testing, additional training.
- Craig Wasson reports to Kevin Robins, the acting team lead under Mike Adams.
- Robert Brown at DoD/MHS is the technical POC for VA information and data sharing.
- Pete Tseronis said the final Federal Working Group Demonstration Guidelines should be issued in a week or so. There is a NIST subgroup working on accrediting labs. The NIST profile may be finalized by Jan. 2008. There will be an OMB Phase 2 mandate.