

v6ops Charter & Priorities

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v6ops Top-Level Goals

- Develop guidelines for the operation of a shared IPv4/IPv6 Internet
- Provide guidance to operators on how to deploy IPv6 in new and existing networks

v6ops Task (1)

- Solicit input from operators
- Identify operational or security issues
- Determine solutions or workarounds
 - May be operational or protocol solutions
- Identify standards work needed in other groups or areas
- Work with those groups/areas to start work

Plans for Task (1)

- Ask current IPv6 operators to share their experiences (good and bad)
 - Last IESG plenary
 - Shin Miyakawa will present NTT deployment
- Determine the status of known issues and plot a course to resolve them
 - DNS, SMTP and SIP issues

v6ops Task (2)

- Provide feedback to the IPv6 WG on parts of IPv6 that cause, or are likely to cause, operational or security concerns
- Work with the IPv6 WG to resolve those concerns

Plans for Task (2)

- Identify open issues
 - Itojun to present “Unidentified Issues” document
 - Ralph Droms to present DHCPv6 issues
 - Other issues/documents that should be considered?

v6ops Task (3)

- Help application developers write IP version-independent applications
- Help identify IPv4 dependencies in existing protocols
- Work with the responsible areas/groups to resolve them

Plans for Task (3)

- Review and advance Phil Nesser's document
- How else can we help application developers?
 - Are there common issues that we can identify?

v6ops Task (4)

- Identify potential security risks for IPv4/IPv6 networks
- Document operational practices to eliminate or mitigate the risks

Plans for Task (4)

- Open discussion/brainstorming on IPv4/v6 security issues this afternoon
- Identify issues
 - Itojun to present issues with v4 mapped addresses

v6ops Task (5)

- Document viable solutions to deploying IPv6 in common network types
 - Cellular, Enterprise, Core ISP, Unmanaged
- Should serve as a useful guide to operators on how to deploy IPv6 in their network

Plans for Task (5)

- Continue deployment scenarios started in ngtrans
 - Several sessions planned during this meeting
 - Will discuss accepting deployment scenario docs as WG items
 - Need to shift focus slightly to produce documents that will be useful guides for operators and users

v6ops Task (6)

- Advance the standards-track IPv6 transition mechanism RFCs, if their applicability is demonstrated in (5)
 - Transition Mechanisms, SIIT, NAT-PT, 6to4
- Update as needed to resolve problems
- Move to historic, if flaws are found that cause us to recommend against their use

Plans for Task (6)

- Identify known issues, if any, with each RFC
 - Transition Mechanisms update already in process, will discuss later
 - Other updates needed?
- Advancement is dependent on (5)

v6ops Task (7)

- Identify and document open operational or security issues found in (5)
- Work to resolve basic, IP-level issues via operational practice & existing mechanisms
 - Move specific issues to the right groups/areas
- As a last resort, standardize additional transition mechanisms to resolve issues
 - Basic, widely-applicable mechanisms only

Plan for Task (7)

- Dependent on reaching consensus on deployment solution documents from (5)

Limits on v6ops Scope

- Work will be pushed to the right groups & areas
- We must get the full IETF involved in IPv6
- We will cooperate with other groups, as needed

Limits on v6ops Scope

- It is NOT a primary purpose of v6ops to do any standardization work
 - v6ops is an operations-oriented group
 - Focus is on advocacy and education
 - Some standardization may be done as a last resort, but only if there is no better choice

What are our Priorities?

- What are the pressing operational or security issues that need our immediate attention?
- Which work should we start first?
 - Current assumption is the scenario/solutions work is highest priority
 - Needed for early deployment, dependencies
 - What are our other highest priority tasks?

Moving from “What” to “How”

- Now that we know what our goals are...
how will we accomplish them?
 - What processes will we use within the WG?
 - What tools and resources do we need to do our work?

Understanding our WG Process

- Why do we need to reach common understanding of our processes?
 - The process will work more efficiently
 - The process can be applied more consistently
 - Leads to more actual and perceived fairness
 - WG members can provide useful input to complex process decisions, and help keep the chairs honest :-)
 - We can better separate process discussions and technical discussions

Goals of our WG Process

- Follow the spirit of the IETF process, not just the letter
 - Openness and fairness
 - All issues/changes to WG work items should be discussed openly in the WG
 - Focus on producing output that is both technically sound and useful
 - Raise the bar for acceptance as a WG work item, and for sending work to the IESG

Steps in our WG Process

- Submission
- Author Refinement
- WG Acceptance
- Editor Selection
- WG Refinement
- WG Last Call

Steps in our WG Process

- Submission
 - Original idea or issue is submitted to the WG
 - May be done via mailing list or at a meeting
 - Complex ideas/issues should be submitted as Internet-Drafts
 - Chairs will reject submissions that don't fit within the WG charter, in our judgement
 - May refer submission to more appropriate groups or areas

Steps in our WG Process

- Author Refinement
 - Idea is more fully documented or refined based on feedback
 - May be done by the person who originally submitted the idea/issue, or by others
 - May be done by individual, ad hoc group or more formal design team
 - Change control lies with author(s) during this phase

Steps in our WG Process

- **WG Acceptance**

- For a document to become a WG work item, it must:
 - Fit within the WG charter (in the opinion of the chairs)
 - Have significant support from the working group, including:
 - People with expertise in all applicable areas who are willing to invest time to review the document, provide feedback, etc.
 - Probable (or current) implementors, if applicable
 - Be accepted as a work item by a rough consensus of the WG
 - Should reflect WG belief that the document is taking the correct approach and would be a good starting place for a WG product
 - Have corresponding goals/milestones in the charter
 - Approved by the Area Directors

Steps in our WG Process

- Editor Selection
 - Editor(s) will be selected by the WG chairs
 - Usually one or more of the original authors
 - Must be willing to set aside personal technical agendas and change the document based solely on WG consensus
 - Must have the time and interest to drive the work to completion in a timely manner

Steps in our WG Process

- WG Refinement
 - Document updated based on WG consensus
 - All technical issues and proposed changes **MUST** be openly discussed on the list and/or in meetings
 - All changes must be proposed to the mailing list
 - Complex changes should be proposed in separate IDs
 - The WG has change control during this phase
 - Changes are only made based on WG consensus
 - During this phase, silence will indicate consent

Steps in our WG Process

- **WG Last Call**
 - Final check that the WG has rough consensus to advance the document to the IESG
 - WG consensus indicates that the WG believes that this document is both technically sound and useful, and ready to go to the IESG
 - The document must be reviewed and actively supported by a significant number of people, including experts in all applicable areas, or it will not be sent to the IESG
 - Why would we want to waste IESG time on a document that we can't be bothered to review ourselves?
 - Silence will NOT indicate consent during this phase

Structured Discussion Slides

- What are our thoughts on open discussion vs. structured discussion with slides?
- There are three major sides to this issue:
 - Slides waste meeting time and IETF disk space
 - Slides make it easier for non-native English speakers to follow the discussion and understand consensus calls
 - The presenter should do what makes him most comfortable
- Thoughts?

Tools and Resources

- Mailing List and Archive
 - Already available
- Additional Web Site?
- Other tools or resources needed?

Welcome to v6ops!

- We have a chance to make a fresh start with a renewed commitment to:
 - Exemplify the spirit of the IETF
 - Keep our processes fair and open
 - Produce work that is technically sound and useful