Description of Working Group:

The MBONE Deployment Working Group is a forum for coordinating the deployment, engineering, and operation of multicast routing protocols and procedures in IP based networks including the global Internet. This activity will include, but not be limited to:

- Documenting deployment of multicast routing in IP based networks. Develop overview documents and best current practice documents on multicast technologies.

- Soliciting and receiving regular reports on the current state of the deployment of multicast technology. Create "practice and experience" documents that capture the experience of those who have deployed and are deploying various multicast technologies.

- Based on reports and other information, providing feedback to other relevant working groups.

- Developing mechanisms and procedures for sharing operational information to aid in operation of the multicast backbones and interconnects.

- Updating RFC 3171/BCP 51 based on experience.

- Developing a roadmap informational RFC that describes the current IPv4 and IPv6 IETF multicast architectures, including references to the relevant IETF documents and guidance for implementers and network operators.

- Updating IPv4 Multicast Address Practice
    - IANA or RIR address assignments
    - IPv4 Prefix Assignments

- Improving Multicast management
    - have a standard RFC for mtrace for IPv4 and IPv6
    - update the very old troubleshooting guidelines for ASM and SSM multicast services
    - Finish SSMPING
    - Have a standard RFC for IP Multicast MIB for IPv4 and IPv6
    - Accounting, Authentication and Authorization (AAA)

- Addressing IPTV/CDS issues
    - Document necessary management capabilities (related to multicast management)
    - Document IPTV standards and operational scenario
    - Document CDS standards and operational scenario
    - Publish Operator Survey
- Updating Best Current Practices for Multicast VPNs

- Documenting IPv4 / IPv6 multicast interaction
- Finalizing Automatic IP Multicast Without Explicit Tunnels (AMT)
- Dealing wit SSM issues as they arrive.
- Addressing Multicast Number Registry issues
    - Port Registry
    - Address Registry
- Addressing Lightweight IGMPv3/MLDv2 issues

While the Working Group is not explicitly chartered to develop protocols it has in the past and may in the future work on Multicast protocols (such as Mtrace) that are not assigned to another working group. The Working Group will not entertain protocols under active development by other Working Groups of the IETF.

Goals and Milestones:

February 2008 Publish IP v4 Multicast Best Current Practice
March 2008 Submit AMT Draft for Proposed Standard
March 2008 Submit Moving MCAST.NET into the ARPA infrastructure top level domain as Informational
March 2008 Update I-D describing IPv4 Multicast Unusable Group And Source Addresses
March 2008 Create IP v6 Multicast Best Current Practice Draft
March 2008 Submit IANA Guidelines for IPv4 Multicast Address Assignments (RFC 3171/BCP 51)
August 2008 Submit IP v4 Multicast Best Current Practice for BCP
August 2008 Submit IP v6 Multicast Best Current Practice Draft for BCP
August 2008 Submit IPv4 multicast address allocation procedures IESG for BCP
August 2008 Create IPv4/v6 co-existence strategies as Draft
August 2008 Create multicast roadmap/reference architecture document
November 2008 Submit multicast roadmap/reference architecture document to IESG for Informational
November 2008 Create I-D on IPv4/IPv6 multicast co-existence issues and strategies for IPv4 multicast and IPv6
multicast
December 2008 WGLC Unicast-Prefix-based IPv4 Multicast Addresses Draft
March 2009 Submit I-D on IPv4/IPv6 multicast co-existence issues and strategies for IPv4 multicast and IPv6
multicast
November 2009 Submit IPv4/v6 co-existence strategies Draft to IESG for Informational