

BEHAVE Working Group

Interim teleconference
May 20, 2009

Chairs:

Dave Thaler, dthaler@microsoft.com

Dan Wing, dwing@cisco.com

Agenda

- **Administrative** 5, Dan Wing
- **New milestones, updated charter** 5, Dan Wing
- **6/4 translation document organization** 5, Dan Wing
- **6/4 translation on a host** 15, Dave Thaler
- **translation open issues** 15, Xing Li
- **DNS-ALG open issues** 15, Marcelo Bagnulo Braun
- **FTP ALG** 15, Iljitsch van Beijnum

Note Well

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Need name for DNS ALG

- “ALG” implies something in-line
 - That was how NAT-PT’s DNS ALG functioned
 - BEHAVE’s DNS rewriting is different
 - Proper DNS proxy: packets go to/from its IP address
- DNS64 is only adequate for IPv6 to IPv4; we may also need IPv4 to IPv6 (DNS46?)
 - awkward
- We need name suggestions!

Abandon “NAT64” Term

- The “NAT64” is overloaded
- NAT is historically stateless; NAPT is historically stateful
 - Stateless: NAT44, NAT66
 - Stateful: NAPT44
- Propose:
 - “stateful translation” (instead of “NAT64”)
 - “stateless translation”

Milestones, Charter Update

Milestones

- **changed**

Jun 2009 Submit BCP document for SCTP NAT behavior
Done Submit standards-track relay protocol
remove/Done Determine relative prioritization of the four translation cases.
Sep 2009 Submit standards-track document for relaying of a TCP bytestream
Jun 2009 Submit standard-track document of an IPv6 relay protocol to IESG
Done Determine what solution(s) and components are needed to solve each of the
 four cases. Create new milestones for the solution(s) and the components.
Sep 2009 Target for first solution to be submitted to IESG for publication as
 standards track RFC.

- **new**

Jul 2009 Submit standards-track TURN-URI document
Sep 2009 Submit informational for framework for IPv6/IPv4 translation document
Sep 2009 Submit standards-track stateless IPv6/IPv4 translation document
Sep 2009 Submit standards-track stateful IPv6/IPv4 translation document
Sep 2009 Submit standards-track DNS rewriting for IPv6/IPv4 translation document
Nov 2009 Submit standards-track FTP ALG for IPv6/IPv4 translation document
Nov 2009 Submit standards-track IPv6 prefix for IPv6/IPv4 translator document
Mar 2010 Submit BCP large scale NAT requirements document

<ftp://ftpeng.cisco.com/dwing/behave/milestones.txt>

Charter Update

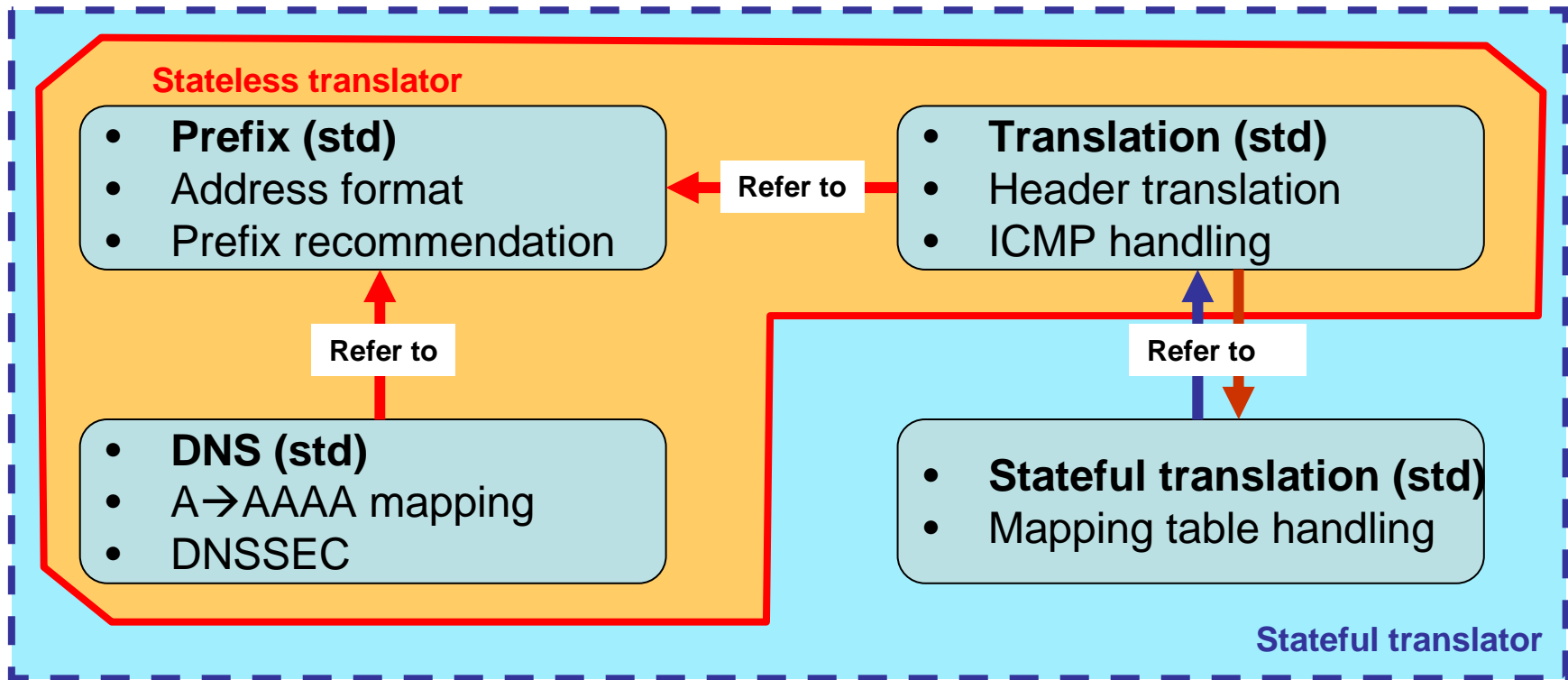
- 1. An IPv6 network to IPv4 Internet
- 2. IPv6 Internet to an IPv4 network
- 3. An IPv4 network to IPv6 Internet
- 4. IPv4 Internet to an IPv6 network
- NEW!** • **5. An IPv6 network to an IPv4 network**
- NEW!** • **6. An IPv4 network to an IPv6 network**

<ftp://ftpeng.cisco.com/dwing/behav/new-charter.txt>

<ftp://ftpeng.cisco.com/dwing/behav/new-from-current.diff.html>

Document Organization

- **Framework (info)**
- Scenarios
- Operation modes
- Building blocks



- **Others (Application Layer Gateways, multicast, ...)**