Analysis of NAT64 Port Allocation Method

draft-chen-sunset4-cgn-port-allocation-04

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Goals

- To provide a converged draft to incorporate existing NAT64 port allocation methods
- To fit the charter item

Sunset4 Charter:

* NAT64 port allocation and address sharing methods involving scenarios where an IPv6-only node is present (and NAT44, as it overlaps NAT64 address sharing and port use). This may require a description of the use of an existing protocol, the development of extensions to an existing protocol, or the definition of an entirely new protocol.

Topics Addressed in the Draft

- Describe category framework and features of each NAT64 port allocation method
- Analyze the various perspectives:
  - Efficiency of port usage vs Log volume
  - Connectivity State Optimization
  - Port Randomization
  - Traceability
  - Failover
  - Privacy
- Implementation consideration:
  - Dynamic Assignment of Port-Ranges
  - Deterministic Port Allocation

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Call for WG Adoption

- The convergence of NAT64 port allocation methods has been done

- Each method has been organized and elaborated

- Appreciate your inputs if there is any missing

- Should the WG adopt this as a working group item?

- Is it ready for last call?