

Framework for IP Version Transition Scenarios

draft-carpenter-v4v6tran-framework-00

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Assumptions

- There will be a series of (BCP or Informational) documents describing and recommending IPv4 to IPv6 transition scenarios.
 - maybe 5 or 6 documents, not a snowstorm
- The documents will not be protocol specifications, but they will be technical documents, aimed at a wide range of ISPs, not at special cases.
- The documents are addressed to providers who
 - have taken the decision to support IPv6;
 - have acquired basic knowledge and skills;
 - have determined how they will get IPv6 connectivity;
 - are ready to write their operational transition plan.

Recommended topics for each document (1)

- Briefly describe network model
- Explain how technology components fit together
- Present major generic network models, and their subsets, including network topologies/architectures
- Specify scope (range of technologies)
- Develop analysis criteria on how to recognize appropriate transition technologies for existing provider networks within their scope.
- If multiple transition technologies are needed where access networks differ, show how these technologies can be deployed simultaneously.

Recommended topics for each document (2)

- Describe how multiple technologies can co-exist, if necessary, during all stages of migration
- Cover considerations for legacy operation while moving to IPv6
- Cover considerations when retro-fitting various technologies to existing networks
- Quantify scaling characteristics
- Include security considerations

Finally...

- Every service provider is different, and such documents can never replace specific deployment plans drawn up by each individual service provider.
- Questions?
- Is this draft useful?