Attendees

- Jay Borkenhagen – AT&T
- Wes George – Sprint
- Monika Machado – Microsoft Networks
- Jared Mauch – NTT America
- Taka Mizuguchi – NTT Communications
- Chris Morrow - Google
- Heather Schiller – Verizon Business
- Jason Schiller – Verizon Business
- Tom Scholl – AT&T
- Ryan Shea – Verizon Business
- Ruediger Volk – Deutsche Telekom
- Tomoya Yoshida – NTT Communications
- Leslie Daigle – ISOC
- Mat Ford – ISOC
- John Schnizlein - ISOC
Consensus Needs

- RPKI should be pursued for both IPv4 and IPv6
- Uniqueness of IP address certification at the global level is required
- IPv6 data cleanup – IPv4 harder and later
- Authentication of resource holders (local solutions)
- Need certificate distribution and validation widget
- Cost of (safe) business needs to be reduced, shared software tools would help
- Investigation needed w.r.t. path validation (short term: without changing BGP – long term: fix BGP)?
- How invalidation of authority to route is done (disputes)?
## Priority

<table>
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<th>Short term</th>
<th>Long term</th>
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<td>Cert-validation widget</td>
<td>Hardware changes</td>
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Differences

• Clean data in IRR (RADB) or WhoIs?
• Single root certificate needed or practical to preclude conflicts?
• Do Relying Parties as Trust Anchors (Kent) resolves the single-root issue?
• Partial deployment
  • Hampered by elimination of BOAs?
  • AS-0 sufficient replacement for BOAs?
  • Sufficiency/utility of max-length parameter in ROA
• Does RPKI lack functionality: signal neighbor to black-hole
• Feasibility of path validation in the short term: without changing BGP?
Conclusions and Path Forward

- Roundtable exposed the extent to which problems are shared
- Situation is different in different regions
- Each network operator depends on deployment of by others
- Participants to influence the larger community
- Further meetings, including more network operators