AS-Cones
Introduction

• NOT a Sidrops draft
  • Although similar work is being performed

• It’s good to get feedback from other WGs
Latest changes

• New additional author, Melchior Aelmans

• Revisited security model

• New models for building prefix lists
  • Based on the security model
Security model

- Adding an AS-Cone to another AS-Cone requires acknowledgement
  - Avoids anyone adding, for example, large networks in their customer cone

- Adding an ASN to an AS-Cone has an optional acknowledgement

- The acknowledgement is registered in the AS-Cone as a boolean value in the “Validated” field for each entry
Building prefix filters

Loose
Get any ASN and any AS-Cone in the AS-Cone indicated by your downstream

Opportunistic
Get any ASN and any AS-Cone. For the ASNs, only consider those where the “Validated” field is set to 1

Almost-strict
Remove any sub-trees where any one single entry is not validated

Strict
Only consider the AS-Cone if every entry has been validated
Integration with ASPA?

• The two ideas have a lot in common

• Maybe worth considering unifying them?
  • Or just building facilities to make the two interoperable?

• While infrastructure is being built for one, adding support for the other is much easier
Questions?

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