Route Leaks

Prevent-Detect-Filter

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Related Drafts

• bgp-open-policy
  Route leak prevention
• route-leak-detection-mitigation
  Detection of mistake leaks
• aspa-verification
  Detection of mistake and malicious leaks and hijacks
Detection Options: Detailed Comparison

<table>
<thead>
<tr>
<th>Mistakes</th>
<th>ASPA</th>
<th>Detection Using Attribute</th>
<th>Detection Using Community</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Malicious</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Signal Stripped</td>
<td>No</td>
<td>Unlikely</td>
<td>Sometimes</td>
</tr>
<tr>
<td>Delivery</td>
<td>5-10 years</td>
<td>4-6 years</td>
<td>0-2 years</td>
</tr>
</tbody>
</table>
Strategy

Leak detection using large communities in a short-term
Leak prevention using roles in a mid-term
ROA + ASPA in a long-term
ASPA does not provide a general solution for AS_PATH check.

It just gives a way to detect malicious route leaks and hijacks.
Related Drafts: Intended Status

• **bgp-open-policy**: clean up --> last call

Route leak prevention

• **route-leak-detection-mitigation**

Detection of *mistake* leaks: type of community --> last call

• **aspa-verification**

Detection of *malicious* and *mistake* leaks: adoption call