

# 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

|                        | <b>ASPA</b> | <b>Detection Using Attribute</b> | <b>Detection Using Community</b> |
|------------------------|-------------|----------------------------------|----------------------------------|
| <b>Mistakes</b>        | Yes         | Yes                              | Yes                              |
| <b>Malicious</b>       | Yes         | No                               | No                               |
| <b>Signal Stripped</b> | No          | Unlikely                         | Sometimes                        |
| <b>Delivery</b>        | 5-10 years  | 4-6 years                        | 0-2 years                        |

# 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

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