

# ASPA Update

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# Checking Upstream Path

'\*' – zero or more times;

'+' – one or more times;

[c2p]\* – valid path;

[c2p]\*[p2c]+[c2p]\* – invalid path;

# Checking Downstream Path

'\*' – zero or more times;

'+' – one or more times;

$[c2p]^*[p2c]^*$  – valid path;

$[c2p]^*[p2c]^+[c2p]^+$  – invalid path;

# Expected Deployment Process

Detecting mistakes:

- An ISP MUST create ASPA record.

Detecting malicious activity:

- An ISP MUST create ASPA record;
- An ISP MUST create ROA record(s);
- Upstream provider(s) MUST create ASPA records.

# Change Log

- ASPA:= (customer, provider) -> (customer, set\_of\_providers)
- Another state for verification output – unspecified;
- Beautiful ASCII drawings;
- First implementation on top of BIRD;

Thnx to Eugeniu Bogomazov and Ondrej Zajicek.

# Action Plan

- You read ASPA documents (again);
- You give us feedback;
- We clean up these documents;
- We work on RTRv3 to support ASPA;
- Joint WGLC for profile, verification and rtr.