

Signed Prefix List (status update)

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Purpose of Signed Prefix List

Allow Autonomous System holders to specify and publish a list of IP Prefixes they *might* originate.

This allows Relying Parties to include that a given BGP route is or is not intended to be originated by the Origin AS.

To be used in conjunction RPKI-ROA based BGP Prefix Origin Validation (RFC 6811)

Implementation update

An example object was created

```
$ rpki-client -vvf chloe.sobornost.net/rpki/RIPE-nljobsnijders/9X0AhXWTJDl8lJhfOwvnac-42CA.spl
File: 9X0AhXWTJDl8lJhfOwvnac-42CA.spl (raw, json)
Hash identifier: 08ayE5TbetBJgYaYU8fig/q/3qUAnHrcE599AcMkAvI=
Subject key identifier: F5:7D:00:85:75:93:24:39:7C:94:98:5F:3B:0B:E7:69:CF:B8:D8:20
Certificate issuer: /CN=caa805dbac364749b9b115590ab6ef0f970cdbd8
Certificate serial: A1C7752FF8B1D2E023
Authority key identifier: CA:A8:05:DB:AC:36:47:49:B9:B1:15:59:0A:B6:EF:0F:97:0C:DB:D8
Authority info access: rsync://rpki.ripe.net/repository/DEFAULT/yqgF26w2R0m5sRVZCrbvD5cM29g.cer
Subject info access: rsync://chloe.sobornost.net/rpki/RIPE-nljobsnijders/9X0AhXWTJDl8lJhfOwvnac-42CA.spl
Signing time: Tue 27 Feb 2024 18:04:04 +0000
SPL not before: Tue 27 Feb 2024 18:03:48 +0000
SPL not after: Wed 26 Feb 2025 18:03:48 +0000
AsID: 15562
Originated IP Prefixes: 67.221.245.0/24
165.254.225.0/24
165.254.255.0/26
192.147.168.0/24
194.32.71.0/24
198.58.3.0/24
204.2.30.0/23
209.24.0.0/24
209.24.1.0/24
209.24.3.0/24
209.24.4.0/22
209.24.8.0/21
209.24.8.0/24
209.24.9.0/24
209.24.16.0/20
209.24.32.0/19
209.24.64.0/18
209.24.128.0/17
2001:418:144e::/47
2001:67c:208c::/48
2001:7fb:fd04::/48
2607:fae0:245::/48
2a0e:b240::/48
```

Implementation update

Experimental support for validating SPL objects was added in rpki-client 9.0

rpki-client



Next steps

Review [draft-sriram-sidrops-spl-verification](#)

Write a draft specification how to efficiently transport SPL objects via RPKI-To-Router protocol from cache to router.

Study how to implement this in a BGP router