

Use Case of BGP FS for Source Address Validation

[draft-geng-idr-flowspec-sav-03](#)

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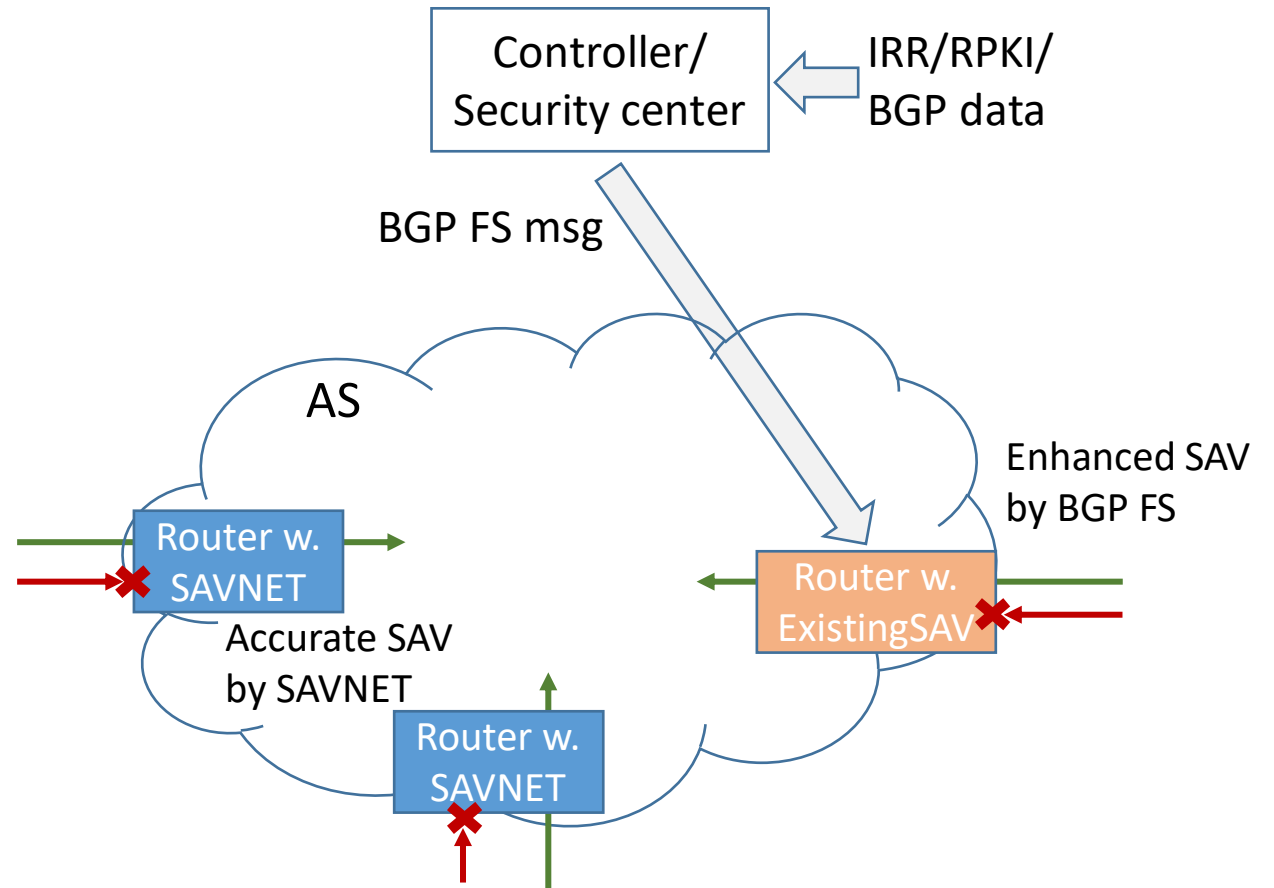
Background

- **SAV rule:** <source prefix, valid-interface set> or <source prefix, invalid-interface set>.
 - ◆ To facilitate SAV management and improve SAV accuracy, additional SAV rule dissemination is necessary [I-D.wu-savnet-inter-domain-architecture].

- **BGP FlowSpec** is a convenient tool for traffic filtering/controlling ([RFC8955], [RFC8956]). It supports matching source prefix and may further support **matching interface-sets** in the future [ietf-idr-flowspec-interfaceset][ietf-idr-flowspec-v2][geng-idr-flowspec-sav].
 - ◆ For example, BGP FS can block source address prefix P1 coming from provider ASx. ASx represents a set of interfaces connected to provider ASx.

Use Case: BGP FS for SAV

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 - ◆ Enhance source address validation when routers have not been upgraded to support SAVNET mechanisms
- SAV rule
 - ◆ <src, incoming-interface-set>
- How to generate SAV rules
 - ◆ Run SAVNET mechanism in controller or security center
 - ◆ IRR/RPKI/BGP data can be used for SAV rule computation



Thanks!