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!