

Routing Policies

KNOWLEDGE BASE - OCTOBER 2026

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> This document is an informative description of the standard Inter.link routing policies. The applicable service order, Service Level Agreement (SLA), and Master Services Agreement (MSA) prevail in the event of any conflict.

01

Scope and applicability

This document defines route validation, route acceptance, and attribute handling for customer BGP sessions with Inter.link AS5405. It applies to IP Transit and FlexTunnel wherever those services refer to the Inter.link routing policies.

IPv4 unicast routes are exchanged over the IPv4 BGP session, and IPv6 unicast routes are exchanged over the IPv6 BGP session. BGP communities and remote-triggered blackholing (RTBH) are defined in the separate BGP Communities document. BGP FlowSpec is governed by the separate FlowSpec Technical Service Specification.

02

Customer route authorization and filter generation

Inter.link applies IRR-derived prefix, origin-AS, and AS-path filters to every customer BGP session. Permitted prefix and origin-AS combinations are derived from the customer's `route` and `route6` objects. The customer's AS-SET is recursively expanded to derive the permitted origin ASNs and corresponding prefix filters. The originating ASN must appear in that expanded AS-SET, and the other AS-path hygiene checks in this document also apply.

Inter.link uses IRR data mirrored from APNIC, AFRINIC, ARIN, RIPE, LACNIC, and RADB. An object that exists only in another routing registry does not authorize an announcement.

An RPKI Valid route does not require a matching IRR-derived prefix-list entry but remains subject to the applicable prefix-length and AS-path policies. An RPKI NotFound route must pass IRR prefix and origin-AS validation as well as the AS-path filters. An RPKI Invalid route is rejected unless it is an authorized RTBH announcement meeting the requirements in the BGP Communities document.

03

Route acceptance

Inter.link applies the following standard route-hygiene rules:

CHECK	STANDARD POLICY
Ordinary IPv4 prefix length	`/8` through `/24`
Ordinary IPv6 prefix length	`/19` through `/48`
First AS	The leftmost ASN must equal the ASN configured for the customer BGP session
AS-path length	A maximum of 50 ASNs is accepted
Bogon resources	Bogon prefixes and bogon ASNs are rejected
Tier-1 ASNs	A route containing a Tier-1 ASN in the customer AS path is rejected

The RTBH prefix-length exceptions are defined in the BGP Communities document. Both public and private ASNs may be used as the ASN of the customer BGP session, subject to the same first-AS requirement. The configured private session ASN is permitted for routes originated directly by that customer; other bogon ASNs remain subject to rejection. A customer may prepend its own session ASN, subject to the maximum AS-path length. Private ASNs are removed from the AS path before Inter.link advertises the route to another external BGP neighbour; they are not replaced with another customer ASN.

04

Attribute handling and route selection

Inter.link honours the Multi-Exit Discriminator (MED) received from a customer. An announcement without MED is treated as having MED 0. Inter.link does not use route dampening.

05

BGP communities and RTBH

Origin communities, traffic-engineering communities, the standard communities honoured by Inter.link, remote-triggered blackholing (RTBH), and the DDoS redirect community are defined in the separate BGP Communities document.

06

Policy updates and operational changes

Prefix filters are updated daily.

Maximum-prefix calculation and enforcement remain defined in the applicable IP Transit or FlexTunnel Technical Service Specification.

07

Responsibilities

ACTIVITY	INTER.LINK	CUSTOMER
Route filtering	Builds and applies the standard IRR, RPKI, prefix, and AS-path policy	Announces only authorized routes that comply with the published policy
Routing data	Uses the supported mirrored IRR data and RPKI validation state	Maintains accurate `route` and `route6` objects, AS-SET contents, ROAs, and address-space authorizations
BGP attributes	Applies the documented attribute handling	Sets MED as required for the customer's intended routing policy
Policy verification	Operates the customer-facing routing policy	Verifies accepted routes and intended traffic engineering and reports discrepancies through the customer portal

08

Service levels and support

Availability and performance commitments, incident priorities, response and restoration targets, maintenance rules, exclusions, remedies, and service credits are defined exclusively in the applicable SLA. Nothing in this informative specification changes those terms.

Need a hand?

Our network engineers are happy to help — reach out through the Inter.link Portal or visit inter.link.