

Arelion's IP Network Peering Policy

Overview

Arelion has developed this peering policy to describe the guidelines used to evaluate requests made by Interconnection Candidates that wish to peer with Arelion. Arelion selects Interconnection Candidates based upon, among other things, costs, port availability, and backbone capacity, and the overall strategic benefit Arelion will experience as a result of the interconnection. The Arelion peering policy is only a guideline. Compliance with the technical and operational requirements below does not obligate Arelion to enter into a peering relationship with Interconnection Candidate.

Basic Definitions

- IP Network means a communications network running TCP/IP and other Internet protocols.
- Interconnection Candidate means a service provider routing a majority of its IP traffic from their customers regionally and globally.
- Interconnection Point means the place where two IP Networks are connected by dedicated bandwidth for the purpose of exchanging Internet traffic.
- Route means a unique path along which data is directed on the public Internet and/or on either party's IP Network.
- **Border Gateway Protocol 4** or **BGP4** means protocol used to exchange routing information between collaborating routers on the Internet.
- Peering is the settlement-free exchange of IP traffic between service providers operating IP Networks.
- Region describes the major economic market of Interconnection Candidate's principal place of business, e.g., Japan, Asia, European Union, North America.

Technical Requirement

- Network Capacity Requirements: Interconnection Candidate shall have a minimum of N x 100Gb PoP to PoP trunking speeds in its region(s), i.e., a N x 100Gb backbone.
- Scope of IP Network: Interconnection Candidate shall have an IP Network with IP traffic termination ("IP PoPs") in a minimum of 30 Tier 1 Metropolitan Statistical Areas globally.

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- Interconnect: Interconnection Candidate shall have the ability to interconnect with Arelion in 10 of 15 Interconnection Points in North America, 7 of 10 Interconnection Points in Europe, and 2 of 3 Interconnection Points in Asia Pacific, where Arelion has interconnection points of presence. The Interconnection Candidate must have the ability to interconnect directly at 100Gb or greater capacity levels at each point of interconnection. If multiple interconnections between Arelion and Interconnection Candidate are required at any point during a peering relationship, Arelion may require Interconnection Points in different point of presence, and the specific interconnection points must be accepted by Arelion.
- Traffic Ratios: The ratio of inbound to outbound traffic shall not exceed 3:1 on an aggregate basis with 100Gbps bi-directional traffic flows. The distribution must be a minimum 75/25 ratio of bi-directional traffic balanced in the case of more than one Interconnection Point. The Interconnection Candidate must provide 24-hour peak and average traffic volume statistics at each Interconnection Point. The quantity and speed of circuits between Arelion and Interconnection Candidate will be determined by overall traffic between the two parties and shall be reviewed periodically.
- Routes: Interconnection Candidate must carry full customer routes in interconnect routers, and announce consistent routes using BGP4 at all peering locations. Interconnection Candidate must not establish a route of last resort (i.e., default route) directed toward Arelion. Interconnection Candidate may not advertise third party routes that allow direct traffic exchange (in either direction) between Arelion and customers of Interconnection Candidate. All traffic must be distributed equitably regionally and locally. If multiple ASN's are required, only one ASN per region will be accepted, based on Arelion engineering requirements and prior agreement by Arelion.
- IP Traffic Reachability: Interconnection Candidate must connect directly to a minimum of 1000 unique Autonomous Systems.
- Connect Status: Interconnection Candidate cannot be a customer of AS1299 in any region or globally.
- **Routing Security:** The peer should follow the principles of the MANRS initiative and must have up-to-date records on PeeringDB.

Upon request of Arelion, Interconnection Candidate shall provide to Arelion an Interconnection Point(s) to its IP Network in its Region and shall provide Arelion with the same access speeds, number of locations, and regionally equivalent Interconnection Points, that Interconnection Candidate provides to other peers globally.



Operational Requirements

- Interconnection Candidate must have a fully staffed, 24x7x365, network operations center ("NOC").
- Interconnection Candidate must provide a minimum of 48 hours' notice to the Arelion NOC for scheduled maintenance.
- Interconnection Candidate must provide trouble reporting and escalation procedures to Arelion. Arelion must have the ability to open tickets with Interconnection Candidate.
- Peer must inform Arelion about significant changes in their network which affects any of the traffic carried by or destined to Arelion as soon as possible.

Evaluation

To assist Arelion in evaluating a peering request, Interconnection Candidate must furnish Arelion with information reasonably requested to assess the candidate's current and future ability to satisfy Arelion's peering requirements, as may be modified from time to time. To measure accurately the traffic between Arelion and Interconnection Candidate, Arelion may require a trial peering connection with Interconnection Candidate. Such a trial may only occur pursuant to a Peering Trial Agreement. Although Arelion only considers private peering initiatives, Arelion may agree to interconnect at a public Internet Exchange (IX) as part of the trial connection. A successful peering trial does not guarantee that Arelion will agree to peer with Interconnection Candidate.

General Information

In addition to the criteria set forth above, Arelion will also consider business factors and the strategic benefit to be derived from the proposed relationship. Arelion's ability to enter a peering agreement will also be subject to the availability of ports, the availability of sufficient capacity on Arelion's backbone network, and the cost of interconnection. The criteria set forth in this policy are not exhaustive and any final peering agreement executed by Arelion and an Interconnection Candidate may be subject to additional terms and conditions.

Peering will only occur if Arelion and Interconnection Candidate reach agreement on the terms of a Peering Agreement.

If Interconnection Candidate operates more than one autonomous system ("AS"), Arelion shall at its discretion determine whether to aggregate the separate systems for purposes of this peering policy.

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The foregoing peering policy is only a guideline and shall not be construed to impose any obligations on Arelion or as an offer giving rise to any rights. Arelion maintains the right to change this policy at any time without written notification. It is the responsibility of Interconnection Candidate to maintain compliance with the policy. The most recent policy will be published on the Arelion website. All peering inquiries should be sent to peering@twelve99.net.

Peering Policy (01.03.22)