

Peering Policy Quantcom

I. Definitions

Peering. Peering is the settlement free exchange of IP traffic between two interconnected IP networks. This exchange is strictly limited to traffic destined for the other network. Traffic is exchanged on a bilateral basis between peering routers and is governed by BGP-4 peering sessions.

National peering. Peering with the other network offering services in the Czech Republic or in Slovakia

International peering. Peering with the other network offering services in other countries.

Transit. Indicates a settlement based customer/provider relationship between networks, where one network uses the other network to provide upstream connectivity.

Route announcement. The means by which two peering partners notify each other of address information in order for the peering partners to exchange Internet traffic. The current means is by the BGP-4 protocol.

Network. A network or Autonomous System (AS) is defined as a group of connected Internet Protocol (IP) routers that are under one administrative control.

II. General Conditions & Requirements

1. We require you to demonstrate a competence in BGP and TCP/IP networking.
2. We require you to enlist CERT/CSIRT Security team with clearly defined responsibility and tasks.
3. We require you to maintain an english, czech or slovak speaking NOC able to respond to issues by email and telephone 24x7. You agree we can check for accessibility of your NOC everytime.
4. You shall register routes and routing policy with a Quantcom recognised Internet routing registry, i.e. RIPE, APNIC, or RADB. Directly from your AS you shall announce only those registered routes.
5. You shall not send us prefixes from the RFC 1918 address range considered for private use nor any other prefixes from address range considered for intra-AS or other specific usage in relevant RFC documents, for example RFC 990, RFC 1700, RFC 2544, RFC 3068, RFC 3927, RFC 5736, RFC 5737, RFC 5771, RFC 6052, RFC 6598, RFC 6666 and RFC 6890.
6. You will send us only aggregated prefixes (i.e. you will not send us fifty small prefixes instead of one big).
7. You protect your BGP sessions with us as best as you can, including GTSM (RFC 5082) and TCP-AO (RFC 5925). If possible, you also enable BFD on all the sessions with us to shorten the inaccessibility period in a case of failure.
8. You sign your prefixes with RPKI (RFC 8210), you filter prefixes with invalid RPKI keys and you agree we are doing so too.

9. All new peers are required to utilize RFC 8950 "extended next-hop" technique to keep an amount of necessary BGP sessions with us as low as possible.
10. You shall not establish a route of last resort, i.e. default route, or any other static routes directed to Quantcom.
11. You shall see to that the peering interconnection is always the best-preferred path between the both networks, unless other is stated in an agreement.
12. We will accept any routes people send us, as long as this does not cause operational problems (i.e. if you send us full routing, we will use you for transit).
13. If the peering is established through public interchange points, the applicant will establish peering sessions in every public interchange point where applicant's network and Quantcom network are presented.
14. You will accept hot-potato routing from us as we will accept hot-potato routing from you (i.e. we do not have to honor MEDs) unless otherwise negotiated.
15. We do not require a formal peering agreement, but will sign one, subject to negotiation, if you require one.
16. Each new peering connection speed shall be at least 100 Gbps. Such a limit does not apply on existing connections, however we require you to maintain at least 10 Gbps connection utilized no more than 50 % in average during any 24 hours period to an IXP we are interconnected.
You may ask for an exception from this rule if the connection is solely proposed for authoritative DNS servers, including their anycast instances.
17. You can apply for peering using e-mail address *peering[at]quantcom.cz*.
18. There is not any claim on peering with us although you comply these peering policy.
19. This version of Quantcom peering policy is valid from 31st October 2024.

III. Specific conditions for settlement-free national peerings

1. Quantcom will not enter into peering relationship with customers of existing peering partners.
2. Quantcom may shutdown peering if peer is a customer of existing peering partner.
3. Your peak traffic ratio shall be 1:2 or smaller.
4. If you don't comply these policies, you can apply for a paid peering.