



RBIEX Multi-Lateral Peering Agreement

This agreement governs the provision of peering and inter-connect services at the RBIEX Internet Exchange Point (IXP) between all subscribing members. The transit of Internet Protocol (IP) packets from the RBIEX Internet Exchange Point to other network points is not covered under this agreement.

1. Definitions

- 1.1. **"RBIEX IXP"**: The RBIEX Internet Exchange Point. This comprises all connected core equipment, including switches and the Route Servers.
- 1.2. **"Route Server"**: The one or more RBIEX BGP Route Server peers, these machines collect and redistribute all Member routes.
- 1.3. **"BGP"**: Border Gateway Protocol. The inter-domain routing protocol used to connect all Members connected to the RBIEX MLP.
- 1.4. **"MLP"**: Multi-Lateral Peering. This service provides a mechanism where Members that subscribe automatically peer with every other Member.
- 1.5. **"Peering"**: Advertising of routes via BGP for the subscribing Member and their customers.
- 1.6. **"Member"**: The RBIEX Member subscribing to the MLP Service.
- 1.7. **"Internet Routing Registry"**: A union of world-wide routing policy databases, containing globally unique information about, among other things, assigned AS Numbers, assigned IP Address space and routing policies. In Europe, the regional database is contained in the RIPE DB operated by the RIPE Network Coordination Centre (RIPE NCC).
- 1.8. **"Regional Internet Registry (RIR)"**: Organisations providing allocation and registration services for a specific region, under the authority of IANA. In Europe, this is provided by the RIPE NCC.
- 1.9. **"Autonomous System (AS)"**: A globally unique inter-domain routing identifier assigned by the appropriate Regional Internet Registry.
- 1.10. **"Subscribers"**: All RBIEX Members that have signed this MLP Agreement.
- 1.11. **"PoP"**: Point of Presence. Any point offering connections to the RBIEX IXP. See <http://www.rbiex.net> for the current list.

2. Member Obligations

- 2.1. The Member is obliged to advertise all its (participating) routes to the Subscribers.
- 2.2. The Member is obliged to accept all routes advertised by the Subscribers, except where conditions in 2.8 are met.
- 2.3. The Member is obligated to exchange traffic among the customers of the Subscribers indicated in 2.1 and 2.2, except where conditions in 2.8 are met.
- 2.4. The Member is obligated to assign a technical contact person in charge of all technical peering matters.
- 2.5. The Member is obligated to assign an administrative contact person in charge of all organisational and financial peering related matters.
- 2.6. The RBIEX IXP shall be treated as a common carrier point.
- 2.7. All traffic passing across the RBIEX IXP as a result of this MLP Agreement between Subscribers shall not be tampered with, nor examined for content. Except in circumstances where not doing so shall cause detriment to one Member.
- 2.8. The Member may filter traffic originating from or destined for any subscribing network in accordance with the Member's policies, however this policy must be clearly specified in the Internet Routing Registry.



3. RBIEX MLP Rules

- 3.1. All Route Exchanges shall be performed using the current version of BGP (at the time of writing version 4) or any replacement as recommended by the Internet Engineering Task Force (IETF).
- 3.2. The Member agrees to use a publicly registered AS Number for their exchange communications.
- 3.3. The Member agrees that route prefixes (blocks of IP Address Space) advertised to the MLP under this agreement shall have a maximum prefix length of 26 bits.
- 3.4. The Member agrees that only routes for IP Address Space that was allocated and registered by an appropriate RIR will be announced to the MLP.
- 3.5. The Member agrees to never announce a "Default Route" to the MLP, via the MLP or to another RBIEX MLP Subscriber without full agreement between all parties. The act of using a "Default Route" without permission can result in immediate termination of this MLP Agreement.
- 3.6. All publicly stated routing policies shall conform to the Route Policy Specification Language (RFC 2622, 2650).
- 3.7. The Member agrees to use the Internet Routing Registry to reflect their routing policy.
- 3.8. Sustained packet loss of over twenty percent (20%), over a period of more than two (2) weeks can be grounds for termination of this agreement.

4. Member Rights

- 4.1. Subscription to the RBIEX MLP is voluntary.
- 4.2. The Member has the right to withdraw at the end of each Term;
 - 4.2.1. Except where a breach of this Agreement or a serious breach of technical or ethical conduct occurs, RBIEX may at its discretion terminate this agreement before a term boundary.
- 4.3. The Member is entitled to select routing paths among those presented to the MLP.
- 4.4. The Member may make Bi-Lateral Peering Agreements with non-MLP Members.
- 4.5. The Member may optionally join at multiple RBIEX PoPs. Any private interconnects between the same Member will be assessed a surcharge for use of the RBIEX network.
- 4.6. The Member may engage in Transit agreements, as provider or consumer, subject to the RBIEX Transit Supply Agreement. Transit is defined as routing through another Member to a network not directly connected to the RBIEX IXP.

5. Agreement Exclusions

- 5.1. The Member is not obliged to provide Transit to other Subscribers.
- 5.2. The Member is not obligated to advertise routes obtained from its Bi-Lateral Peering Agreements to Subscribers.
- 5.3. Monetary settlements to other Subscribers are not required by this Agreement.
- 5.4. The Member is not obliged to provide transit of packets from the RBIEX IXP to other network points.
- 5.5. This MLP Agreement does not cover or disallow cross-connects or Private Peering between Subscribers.
- 5.6. Hosting of router hardware, connections to the RBIEX IXP and use of the RBIEX IXP MLP Service, and the costs thereof are not covered by this Agreement.

6. Best Efforts Basis

- 6.1. The MLP Service is provided on a best-efforts basis. There is no penalty for not meeting obligations herein, other than termination of this agreement.
- 6.2. All parties are requested to give a termination notice 30 days prior to termination. In order to stabilise the routing table for all Subscribers, this must be at a Term break (i.e. 1st July, 1st October, 1st January, 1st April).
- 6.3. Aggregation of routing information will be done where possible and technically feasible.



- 6.4. Routing policy will conform to all future recommendations from the IETF.
- 6.5. The Member will make a best-effort to keep the Internet Routing Registry up-to-date with its active routing policy at all times.
- 6.6. The Member agrees to maintain sufficient bandwidth to the RBIEX IXP in each PoP they are connected to, and to keep all connections to the RBIEX IXP congestion free.

7. Establishment Procedure

- 7.1. The potential Subscriber either already has or applies for an AS Number with the appropriate RIR.
- 7.2. The potential Subscriber joins RBIEX, using the Application for Membership form available from <http://www.rbiex.net/>
- 7.3. The Member gains connectivity to the RBIEX IXP. RBIEX is not responsible for securing this.
- 7.4. The Member signs and returns this MLP Agreement.
- 7.5. The Member updates their public Routing Policy at the Internet Routing Registry.
- 7.6. RBIEX notifies all Subscribers of the new Subscriber.

8. Term and Renewals

- 8.1. The term of this MLP Agreement is three calendar months.
- 8.2. This MLP Agreement shall renew automatically on the same terms unless terminated or changed, as provided herein.

9. Change Procedure

- 9.1. The Member has to inform RBIEX in writing prior to any changes.
- 9.2. The Member will be held to a 30 day notice period for changes.
- 9.3. The Member will update the Internet Routing Registry when applicable.

10. Termination Procedure

- 10.1. The Member will inform RBIEX in writing prior to termination.
- 10.2. The Member will be held to a 30 day notice period for termination.
- 10.3. The Member may only terminate this MLP Agreement at a Term boundary.
- 10.4. The Member will update the Internet Routing Registry to reflect the termination.
- 10.5. RBIEX will notify all current Members of the termination.

11. Fees

- 11.1. The RBIEX MLP is a free service. This MLP Agreement does not cover charges assessed for access to an RBIEX switch port.
- 11.2. The cost of necessary hardware, connections, cabling and any other infrastructure is not covered by this MLP Agreement.

12. Agreement

- 12.1. I hereby accept the conditions in this MLP Agreement, signed:

On behalf of the Member:

On behalf of RBIEX: