
Multi-Lateral Peering Agreement (MLPA)

I Goal

Goal of this MLPA is to improve the efficiency of routing and improve the general connectivity of the Internet. Any organisation backing the agreement can register this fact by applying the signed document with the Open Peering *MLPA Registry*. The MLPA can be technically implemented, using the *MLPA Routing* service provided by Open Peering (where available), or alternatively via direct bilateral public or private peering sessions between individual MLPA participants.

II Parties

[Company Name]
Established at [City], [Country]
Duly represented in this matter by [Person Authorised To Sign], [Function],
Hereinafter called: Participant,

and

Open Peering B.V.,
Established at The Hague, The Netherlands,
Duly represented in this matter by Mischa van Rossum, Managing Director,
Hereinafter called: Open Peering.

have agreed, under the laws of The Netherlands, as follows:

III Definitions

For the purpose of this agreement the following terms shall have the following meanings:

MLPA Registry:

The service that Open Peering provides to co-sign and register MLPA agreements signed by participants and to publically publish a list of all signees;.

MLPA Routing:

The service that Open Peering provides at one or more Internet Exchanges and via direct ports which facilitates the route- (and in some cases also traffic-) exchange between participants of the MLPA, based on this MLPA.

MLPA Participants:

All parties, which have signed this MLPA (or an earlier version of it) and successfully registered it with the Open Peering *MLPA Registry*.

MLPA Peering:

The advertising of routes via BGP4 between Participants and Open Peering.

Internet Routing Registry (IRR):

A union of world-wide routing policy databases, containing globally unique information about, among other things, assigned AS numbers, assigned IP address blocks and routing policy's. In Europe a regional database (RIPE DB) is operated by the RIPE Network Coordination Center (RIPE NCC). In the USA the regional database (RADB) is operated by Merit Network.

Regional Internet Registry (RIR):

Organizations providing allocation and registration services for a specific region, under authority of IANA, which jointly support the operation of the Internet globally. In Europe this is done by RIPE NCC, in the USA by ARIN.

Autonomous System Number (ASN):

A globally unique interdomain routing identifier, assigned by a Regional Internet Registry.

IV Obligations

This paragraph describes the obligations of the participant.

1. On each of the Internet Exchanges where the participant has joined the *MLPA Routing* service, the participant is obligated to advertise all its customers' routes to all other *MLPA Participants* that have signed up as user of the *MLPA Routing* service there as well, and accept the customer's routes advertised by those other participants;
2. The participant is obligated to exchange traffic among all of its own customers and all customers of all other *MLPA Participants* as indicated in article IV.1; either via the *MLPA Routing* service or directly over the Internet Exchange;
3. If there is a direct transit contract in place between two *MLPA Participants*, they are exempted from the obligations under articles IV.1 and IV.2 for mutual routes and traffic;
4. The participant is obligated to assign a technical Peering contract in charge of all technical peering matters;
5. The participant is obligated to assign a administrative Peering contact person in charge of all organizational, contractual and financial peering related matters;
6. The Internet Exchange point where the *MLPA Routing* service is implemented, shall be treated as a common carrier point;
7. All traffic passing across an Internet Exchange as a result of this MLPA between *MLPA Participants* shall not be filtered or tampered with, nor shall it be examined for content.

V Rules

This paragraph describes rules the participant should respect.

1. Exchange of routes will be performed using BGP4;
2. Participant agrees to use a AS number for its route exchange communications;
3. The participant agrees that route prefixes (blocks of IP address space) advertised to each other under this agreement will be of maximum prefix length of 24 bits;
4. Route prefixes advertised with a 32 bits prefix length and a BGP community containing the participants AS number with “:0” attached to it (e.g. 20562:0) are allowed and will be interpreted as a “DROP” request. Participants receiving such a route are requested to drop all payload traffic destined for the advertised address, but are also allowed to simply ignore and drop such routes;
5. The participant agrees that only routes for IP address space that was allocated and registered by a Regional Internet Registry to him or his customers and are advertised to each other;
6. Participant agrees to never "default route" to the *MLPA Routing* service, or via that service or directly to any other *MLPA Participant*, without full agreement between both parties. The act of using a "default route" without permission can result in immediate termination of this MLPA;
7. Routing policy will conform the Route Policy Specification Language - RPSL (RFC 2622 and RFC 2650) or alternatively at least to RIPE 181 (RFC 1786);
8. The participant agrees to use the Internet Routing Registry to reflect its routing policy.

VI Rights

This paragraph describes the rights of the participant.

1. Participation in this agreement is voluntary;
2. Any party has the right to withdraw at any time;
3. The participant is entitled to select routing paths among the MLPA participants;
4. The participant is entitled to make Bi-Lateral Peering Agreements with *MLPA Participants* and non-*MLPA Participants*;
5. The participant can optionally peer with more than one instances of the *MLPA Routing* service at multiple different Internet Exchanges where Open Peering offers this service;
6. The participant may engage in transit agreements as provider or consumer where transit is defined as routing through another participant via a direct connection (not via the *MLPA Routing* service) to a network not directly connected to the same *MLPA Routing* service.

VII Exclusions

This paragraph describes which issues are explicitly not covered by this agreement.

1. The participant is not obligated to provide transit to other *MLPA Participants*;
2. The participant is not obligated to announce the routes obtained from its Bi-Lateral Peering Agreement partners to the *MLPA participants*;
3. Monetary settlements are not required by this agreement;
4. The participant is not obligated to provide transit of packets from Open Peering to other meet points;
5. This MLPA does not cover or disallow cross-connects or private peerings between participants;
6. Hosting of router hardware, connections to Internet Exchange and the costs thereof, are not covered by this MLPA.

VIII Best effort basis

This paragraph describes issues to which the participant commits itself to make the best reasonable possible effort to achieve.

1. This agreement is implemented by each party on a best-effort basis: there is no penalty for not respecting the obligations herein, other than the option to terminate this agreement;
2. All parties are requested to give a termination notice 30 days prior to termination;
3. Aggregation of routing information will be done where possible and technically feasible;
4. Routing policy will conform to future recommendations of the IETF;
5. The participant will make a best-effort to keep the Internet Routing Registry up-to-date with its active routing policy at all times;
6. Participants agree to maintain sufficient bandwidth to the Internet Exchange point(s) where they participate in the *MLPA Routing* service, and to keep their connections to *MLPA Routing* service congestion free.

IX Establishment procedure

1. A potential participant either already has a AS number or applies for one at a Regional Internet Registry (when applicable);
2. A potential participant is responsible for (optionally) gaining connectivity to an Internet Exchange point where Open Peering offers a *MLPA Routing* service (Open peering is not responsible for this);
3. The potential participant signs this Multi-Lateral Peering Agreement;
4. The potential participant sends this Multi-Lateral Peering Agreement along with the registration information (legal and peering contacts) in Appendix A to Open Peering;
5. The potential participant updates the Internet Routing Registry to reflect the newly signed MLPA;
6. Open Peering will notify current *MLPA Participants* of the new participant via it's the published list in it's *MLPA Registry*.

X Term and renewal

1. The initial term of this MLPA shall be one year;
2. The term of this MLPA shall renew automatically on the same terms unless terminated or amended, as provided herein.

XI Change procedure

1. The participant has to inform Open Peering of changes by written notice;
2. The participant will be held to a 30 days period notice of changes on a best-effort basis;
3. The participant needs to update the Internet Routing Registry (when applicable).

XII Termination procedure

1. The participant will inform Open Peering of termination by written notice;
2. The participant will be held to a 30 days period notice of termination on a best-effort basis;
3. The participant will not be held to this 30 days period and can terminate this MLPA instantly only in cooperation and in agreement with Open Peering;
4. The participant needs to update the Internet Routing Registry (when applicable);
5. Open Peering will notify current *MLPA Participants* of the termination via it's the published list in it's *MLPA Registry*;
6. The act of using a "default route" via a *MLPA Routing* service without full agreement of all parties involved can result in immediate termination of this MLPA;
7. Packet loss of over 20% on any connection to an *MLPA Routing* service over a sustained period of time can be grounds for termination of this agreement.

XIII Fees

This Open Peering MLPA, the *MLPA Registry* and the *MLPA Routing* are free service. There is no installation fee and no (monthly or otherwise) recurring fee. Costs of hardware hosting and Internet Exchange connections a are not covered by this MLPA.

Open Peering does not intend to charge money for any of these services in the future. If however the costs of the *MLPA Registry* and/or *MLPA Routing* service would become to high for Open Peering to bare, Open Peering has the option to terminate these agreements and the services. Open Peering can only charge a financial compensation for these services to individual participants if that is explicitly agreed in a seperate Bi-Lateral contract between that participant and Open Peering.

IVX Signatures

| | Participant | Open Peering |
|---------------------------|-------------------------------|----------------------------|
| Company Name | [Company Name] | Open Peering B.V. |
| Address | [Address] | Ln Copes v Cattenburch 73, |
| Postal-code | [Postal Code] | 2585 EW, |
| City | [City] | The Hague |
| Country | [Country] | The Netherlands |
| Date | [Date] |-.....-..... |
| Signature | | |
| Person Authorised To Sign | [Person Authorised To Sign] | Mischa van Rossum |
| Function | [Function] | Managing Director |
| Email | [Email Address] | mischa@openpeering.nl |
| Phone Number | [Phone Number] | +31 70 363 16 61 |

Copyright © 2002, 2011 Open Peering

Appendix A -Peering Details Sheet

AS Number and Routes

AS Number [AS Number]

Announced AS Set (or AS Number) [AS Set]

Announced Number of Prefixes Average [#Prefixes Average], Maximum[# Prefixes Max]

Peering Contact

Administrative

Technical

Contact Name [Peering Contact] [Peering Contact]

Phone Number [Phone Number] [Phone Number]

Email Address [Email Address] [Email Address]

24*7 NOC

Phone Number [Phone Number]

Email Address [Email Address]

Current Internet Exchange Connections on which *MLPA Routing* is requested

| Internet Exchange Name | Datacenter | Connection Speed | IP Address |
|----------------------------|----------------|----------------------|----------------|
| [Internet Exchange Name] | [Datacenter] | [Connection Speed] | [IP Address] |
| [Internet Exchange Name] | [Datacenter] | [Connection Speed] | [IP Address] |
| [Internet Exchange Name] | [Datacenter] | [Connection Speed] | [IP Address] |
| [Internet Exchange Name] | [Datacenter] | [Connection Speed] | [IP Address] |

Copyright © 2002-2007 Open Peering