



Peering GmbH
Lindenallee 27
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Germany

ECIX Service Agreement

Date: November 5, 2003

Members Responsibility

Each member is responsible for his behavior on the peering point. Therefore we are defining some rules for the peering. Following these rules cannot guarantee that every known problem is covered, but most of the "well known" are. So this is a small handbook of good behavior which is the basis of successful peering for every customer or partner.

Routing

Peering connection between members is done via BGP4(+) only. AS numbers used and prefixes announced must be registered in a public registry like RIPE, ARIN or APNIC. The use of private ASN for peering is not allowed. All prefixes announced to the peering members should be aggregated as much as possible. Re-announcement of prefixes learned from other ECIX members is not allowed without written permission. The announcement of private IP space is not allowed. Setting another member's router as a gateway of last resort or default gateway is not allowed. Members are not allowed to announce prefixes with a next-hop, different from their own routers address.

Port

Any ECIX port should be directly connected to a dedicated interface on the member's router. You need a special permission if you plan to setup a connection using LAN switching equipment. Only one MAC address and only one ASN are allowed on a single ECIX port at the same time. If you need to swap hardware, inform the noc@ecix.de , which will allow to use a second MAC address for 24 hours.

The member may only use IPv4/IPv6 addresses assigned by the ECIX staff on the peering mesh.

The assigned IP must be configured as primary address on an interface/sub-interface. A connection via a secondary address is not allowed.

Members must disable any of the following features/protocols on the interface connected to the peering LAN

- spanning-tree (STP)
- discovery protocols (CDP,...)
- VLAN management protocols
- Interior Routing Protocols (IGRP, OSPF, RIP1/2, IS-IS, ...)
- Proxy-ARP
- ICMP Redirects
- IRDP
- BOOTP/DHCP
- directed Broadcasts
- any other broadcast except ARP.
- ARP Broadcast traffic must not exceed 30 packets/s per port.
- auto-sensing of port parameters



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Miscellany

Any illegal activity is strictly forbidden. Illegal activity is defined by the laws of the country where the member is connected. ECIX staff is allowed to shutdown a member's ECIX port after short notice, less than 30 minutes, for the following reasons:

- If the connected member does handicap the ECIX infrastructure and is not cooperative.
- If a member requests a shutdown of his own ECIX Port, we need an official request.

The noc@ecix.de must be informed one work day in advance of any stop of service by a member. The noc needs to know the reason for stopping the service and a contact person. The other members are informed of the stop and will be given the name of the contact person.

If the member has reoccurring fixed maintenance windows, please inform the noc@ecix.de . We will setup a webpage in the member's area, where this information will be announced.

The ECIX staff will inform every member 48 hours in advance of planned maintenance work.

Primary method of communication between ECIX staff and members is email or fax. Therefore every member has to keep his contact information up to date.

Any information shared between ECIX staff and members or on the ECIX mailing lists is considered confidential. Except otherwise stated.

Configuration Examples

Cisco

Ethernet Port on Router

```
Interface FastEthernet0/0
ip address 194.x.y.z 255.255.255.0
no ip redirects
no ip proxy-arp
no ip directed-broadcast
no cdp enable
ntp disable
```

Sign her:
