

# Peering Interface Configuration

To ensure that your connection to the INX is easy, as well as secure, we have created a set of templates for the configuration of various types of hardware in common use at the exchange point.

Although [we do filter specific types of Layer-2 frames](#), we still encourage peers to keep their ports clean, and may insist on this before moving you out of quarantine.

## Connection via a router

We recommend that you use a Layer 3 device to connect to the INXes; doing so, minimises your risk of creating any unnecessary loops. Below are some configurations that should help if you connect directly to a router (preferred)

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## Classic IOS

### Cisco IOS

```
interface <INT>
ip address 196.60.x.y 255.255.255.0
ipv6 address 2001:43f8:1fx::y/64
description PEERING:: *INX
no ip redirects
no ip proxy-arp
no cdp enable
no ip directed-broadcast
no mop enable
no keepalive
no udld mode aggressive
ipv6 nd ra suppress
```

## IOS-XR

### Cisco XR

```
interface <INT>
description PEERING:: *INX
mtu 9216
ipv4 address 196.60.x.y 255.255.255.0
ipv4 verify unicast source reachable-via any
ipv4 unreachable disable
ipv6 nd suppress-ra
ipv6 nd dad attempts 0
ipv6 verify unicast source reachable-via any
ipv6 address 2001:43f8:1fx::y/64
ipv6 unreachable disable
load-interval 30
```

## Juniper

## Juniper

```
interfaces {
  ge-0/0/0 {
    description "PEERING:: *INX";
    unit 0 {
      family inet {
        no-redirects;
        address 196.60.x.y/24;
      }
      family inet6 {
        address 2001:43f8:1fx::y/64
      }
    }
  }
}
```

## Mikrotik

### Mikrotik

```
/interface ethernet set ether1 comment="PEERING:: *INX"
/ip neighbor discovery set ether1 discover=no
/ip address add interface=ether1 address=196.60.x.y/24
/ipv6 address add interface=ether1 address=2001:43f8:1fx::y/64 advertise=no
/tool romon port disable numbers=<Interfacenumber of Ethernet>
```

## Arista

### Cisco XR

```
interface Ethernet1
  description Peering : JINX
  load-interval 30
  no switchport
  ip address 196.60.9x.x/23
  ipv6 address 2001:43f8:1f0::x/64
  ipv6 nd ra disabled all
  no lldp transmit
  no lldp receive
```

## Connecting via a switch

In general it's always safest to connect to an Internet Exchange Point onto a layer-3 router port. However, we understand that sometimes this is difficult to do. In cases where you need to connect your INX port onto a switch, you will want to pay particular attention to making sure that the port that the IX cross-connect terminates on, has been secured. Below are templates that should help you make a secure connection to the INX.

## Cisco

```
vtp mode transparent
!
no spanning-tree vlan 9999
!
vlan 9999
  name INX
!
interface <INT>
  description PEERING:: *INX
  switchport mode access
  switchport access vlan 9999
  spanning-tree bpdupfilter enable
  no keepalive
  no cdp enable
  no lldp receive
  no lldp transmit
  no udld enable
end
```