



## The XS26 Project - peering with the future

### Basic informations

Access to Six aims to have its own [IPv6](#) backbone on the internet interconnected with [6bone](#) and provide world wide productional [IPv6 connectivity](#) on large scale.

Our aim is to make network of IPv6 tunnel servers - points of presence (PoPs) - which will provide distributed IPv6 connectivity with centralized user interface. This way, each user can easily switch between various tunnelservers around whole world in order to get best connectivity. We want to offer best services for our clients and we are able to provide special support and services for our customers.

Currently we want to provide distributed tunnel broking, /48 zones delegation and automatical whois records generation. We will provide user database with centralized easy-to-use web interface for this purpose. When this will be achieved, we plan to still expand our services, PoP base and bandwidth of our PoPs. We want to i.e. provide optional iBGP/OSPF6 support so that choice of best tunnelserver is done automatically and dynamically depending on actual internet throughput conditions. We also want to make IPv6 tunnels easier to use to modem users, so we plan to optionally automatize tunnel creation and destruction depending on user's endpoint availability. We are considering implementation of TSP for this.

We offer and seek for BGP peering (we are formal successor of [6bone.sk](#)). We will seek best already deployed PoP for BGP peering with you and we can offer Many other BGP peers and high availability and stability of our peers. We modified official zebra package to increase stability, fix some bugs and raise quality of our BGP peering.

We already provide open [6to4](#) gateway and we keep existing tunnels which we inherited from 6bone.sk (although they will be released with finishing of first phase of XS26 project). We also provide some private dedicated tunnels and tiny ranges for few users which really need them urgently, but they aren't supported, don't take any merit from XS26 architecture and they will be deleted as web interface will be finished as well.

**Welcome to the future of the internet!**



## The network



Note that not all nodes in the network map are already deployed. If you want to join our project, feel free to contact us at address listed below.

We expect some more PoPs to appear soon. Our nodes have DNS records in subdomain pop.xs26.net, where each name consists from country code, city code, dash, country id, dash and city id. I.e. PoP in Prague, Czech Republic have name czpra-01-00.pop.xs26.net.

We are using OSPF6 for inside routing and iBGP for internal sharing of routes to the world around. We are capable to setup eBGP routing from each of our PoPs as well, so we are almost completely decentralized and downtime of one PoP will cause just re-route through another one. Only centralized point is database host, but during its outage only user management is affected, existing routes and tunnels are unaffected and remain as are.

### Terms Of Service

We (XS26) are providing tunnel broker as a free service, thus we don't take any responsibility for our users, for traffic going through us originated by either our peers or our users or for any service provided by our users on their own. We also don't assure you 100% reliable service and we don't take any responsibility for potential damage or loss caused by incidental lack of connectivity or XS26 software or hardware problems or any other outage of any of our services. And we don't assure you any support (although we will do our best) nor take responsibility for any damage or loss caused by our advice - you are doing on your own. Thus, the tunnel and zone delegation service is provided AS-IS and WITHOUT ANY WARRANTY.

We (XS26) require you to provide valid contact informations and keep them up-to-date appropriately. We also require you to have address your\_zone::1 IPv6 pingable (so that we



could check if your zone is being used) and to keep your reverse and forward DNS records matching. Network abuse of any kind - DNS abuse (see <http://www.dnsspam.nl/>), IRC abuse (as reported by IRC operators or based on logs provided by IRC users confirmed in some way), spamming, denial of service attacks (includes overloading of XS26 user interface or infrastructure), cracking, etc. - is strictly prohibited and may lead to IMMEDIATE cutoff of all services provided to you and/or preventing you from the access to XS26 user interface for certain or uncertain period of time. We reserve the right to make changes or remove some or all objects or services provided to you without any notice.

That's for the lawyers. In fact, we hope we won't have to rely on any of the clauses in the first paragraph. The second one is mainly for abusers and kiddies wanting to hide themselves or have leet hostnames and using XS26 for this. We won't check each one user, but we will periodically check the whole user database and delete the most clear cases of abuse. We are also going to be very cooperative at [abuse@xs26.net](mailto:abuse@xs26.net).

## XS26 Statistics

|                 |             |
|-----------------|-------------|
| Users:          | <b>6267</b> |
| Tunnels         | <b>5778</b> |
| Zones           | °           |
| - permanent     | <b>3886</b> |
| - dialup        | <b>0</b>    |
| DNS delegations | <b>3121</b> |

## List of Pops

| Country name          | City name         | PoP ID | IP address     | Availability | Transit site | Open for users |
|-----------------------|-------------------|--------|----------------|--------------|--------------|----------------|
| <b>Czech Republic</b> | <b>Prague</b>     | 0100   | 62.24.64.27    | Nearly full  | Yes          | Yes            |
|                       |                   | 0101   | 195.250.159.83 | Empty        | Yes          | Yes            |
| <b>Denmark</b>        | <b>Copenhagen</b> | 0a00   | 62.61.157.209  | Nearly full  | Yes          | Yes            |
| <b>Hungary</b>        | <b>Budapest</b>   | 0800   | 195.228.138.52 | Medium       | Yes          | Yes            |
|                       | <b>Veszprem</b>   | 0801   | (hidden)       | Full         | Yes          | No             |
| <b>Netherlands</b>    | <b>Amsterdam</b>  | 0200   | 80.247.205.1   | Medium       | Yes          | Yes            |
|                       |                   | 0201   | (hidden)       | Empty        | Yes          | No             |
| <b>Poland</b>         | <b>Gdansk</b>     | 0900   | 62.89.127.130  | Nearly full  | Yes          | Yes            |



|                  |                 |      |                |       |     |     |
|------------------|-----------------|------|----------------|-------|-----|-----|
|                  |                 | 0901 | 153.19.178.101 | Empty | Yes | Yes |
|                  | <b>Torun</b>    | 0902 | 213.146.63.2   | Empty | Yes | Yes |
| <b>Un.States</b> | <b>New York</b> | 0b01 | 216.179.62.43  | Empty | Yes | Yes |