

## Technical Summary: Tunnel Services



### The service provides customers with:

- Secure access to the Tunnel Broker Server
- Free client software for Windows, Macs, Linux or BSD
- Thirty minutes of free installation support available if required
- Static IPv6 prefix - will not change when links are closed and opened
- Routing of the allocated addresses to the IPv6 Internet
- Forward and reverse entries for the customer endpoint in the IPv6Now DNS
- Reverse delegation of allocated IPv6 prefix to customer-nominated nameservers
- 24/7 service availability professionally monitored

The service also includes one of the following options:

### Now6

- 1 tunnel to the Server
- one /64 IPv6 prefix - one subnet of  $1.8 \times 10^{19}$  addresses

### Grow6

- 10 tunnels to the Server
- one /48 IPv6 prefix - 65,536 subnets totalling  $1.2 \times 10^{24}$  addresses
- contiguous IPv6 address ranges reserved for future growth

### Wholesale6

- 100 tunnels to the Server
- one /48 IPv6 prefix - 65,536 subnets totalling  $1.2 \times 10^{24}$  addresses
- contiguous IPv6 address ranges reserved for future growth
- integrated Radius-based user authentication database for user management

## Service Technical Description

- The 6via4 service is delivered by the gogoSERVER™ device from gogo6.
- Access to the 6via4 server is by client software downloadable from the IPv6Now website.
- IPv6Now supplies a username and password ('credentials') to the customer, to be entered into the client software to enable it.
- Server modes include v6v4 (for customers with direct Internet access) and v6udp4 (for customers behind NAT devices).
- The service includes up to thirty minutes of interactive support to assist the customer with the installation and configuration of the client software. (Additional technical support and network consultation services may be purchased from IPv6Now at any time.)

- One set of credentials authorises one tunnel service. An attempt to establish a second link with the same credentials while the first link is already active will either fail, or will cause the first link to be disconnected and a new one established.
- IPv6Now will make all efforts to ensure that the same address or prefix is allocated each time the tunnel is activated. If rare technical or unexpected reasons make it necessary to change the allocated address or prefix, IPv6Now will make reasonable efforts to inform the customer before the change.
- With all services, the domain name 'username.tunnels.ipv6now.com.au' will be entered into the IPv6Now DNS where 'username' is the username defined in the credentials.
- The domain name will resolve to the IPv6 address allocated to the customer endpoint. A reverse entry will also be made for the endpoint address, resolving to the endpoint name.
- Customers may configure the client software to communicate a nameserver name to the Tunnel Broker Server. The Server will attempt to delegate the allocated prefix to that nameserver. It is entirely the customer's responsibility to configure the named DNS nameserver appropriately.
- Larger address spaces, dynamic address ranges, non-standard prefixes, etc, may be organised upon request.
- Reasonable unlimited outbound traffic usage is free, but if traffic levels impact upon other customers, conditions will be negotiated.
- For purposes of calculation, one megabyte is 1048576 bytes.
- If customers wish to use other software compatible with the IPV6Now Tunnel Broker, they may do so, but IPv6Now is unable to support other software.

## **System Requirements**

- Customers will need standard IPv4 connectivity to the Internet.
- A computer running Linux, Windows, MacOS, NetBSD, FreeBSD, OpenBSD or Solaris. Some platforms do not support NAT traversal. Except for Windows, the client software is supplied in source form, however it may be available pre-packaged for some distributions. IPv6Now may be able to assist in obtaining client software for other platforms.
- The ports used by the service must not be filtered (blocked) by the customer, nor by any part of the IPv4 network between the customer and the Tunnel Broker.