

# Superfast broadband today

There is a limit to what ordinary broadband can do. If speed and reliability are important to you, that limit can cause real problems for your business. Of course, a Leased Line could do the job. But at what cost?

You need a way to get up to six times the performance you're currently receiving, with built-in resilience, at an affordable price. What you need is Sharedband.

## Multiply your performance

Sharedband combines between two to six internet connections into a single, superfast connection.

In other words you get more than enough performance for extra-value applications like video conferencing, internet telephony, off-site data backup, virtual private networks and cloud computing. But that's just the start.

Sharedband can combine multiple types of connections including Leased Lines, cable, fibre optic, wireless and 4G mobile. The service can even combine connections from different service providers. Need more speed? No problem. Add more lines and routers whenever you need them.

## Maximise your resilience

Because you can combine multiple connections from different providers you can avoid the risk of having a single point of failure. If one line fails then Sharedband will continue to use the others, without any intervention from you. When the line is restored Sharedband will include it again.

## Sending data

Sharedband creates a Virtual Router Address (VRA), which acts as the default gateway and DNS. The VRA directs data packets over your internet connections, using their combined upstream.

One Sharedband router manages the VRA. If that router fails, one of the others quickly takes over and the active sessions continue as normal. Sharedband also includes a distributed DHCP server, which automatically configures compatible host machines for network access.

The outbound traffic is recombined by aggregation servers in a data centre, before being sent on to the Internet. During this process, a virtual IP address is assigned, ensuring that the traffic appears to originate from a single, consistent IP address and port number.

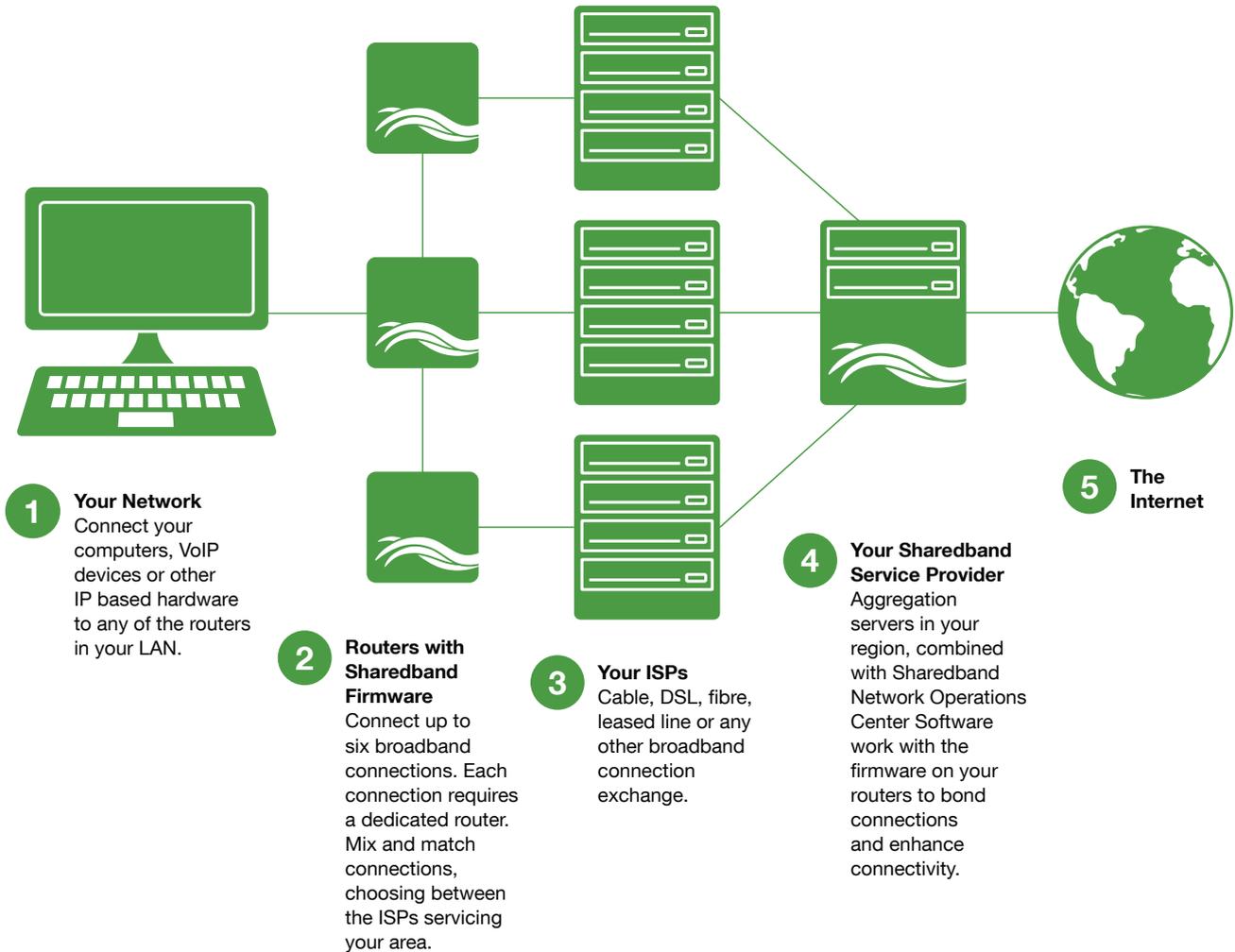
## Receiving data

Incoming packets return to the same IP address and port, and the aggregation servers balance traffic across the available lines to use the full downstream capacity. By encapsulating the traffic that passes between the router and the aggregation server, underlying networks can change without affecting your users.

## Benefits at a glance

- **Fast:** up to six times faster than a single broadband connection
- **Scalable:** combines the bandwidth of 2 to 6 broadband connections
- **Resilient:** if one broadband line fails Sharedband can still use the others
- **Affordable:** costs much less than a Leased Line
- **Easy:** installed and configured in 15 – 45 minutes
- **Versatile:** can combine multiple types of connections even if they are from different providers

# How it works



## Technology you can trust

Businesses around the world have been relying on Sharedband for reliable, high speed connectivity for years. And it's easy to understand why.

Sharedband works with almost any application, network protocol, ISP or connection. The performance of each line is monitored and optimised accordingly. We use redundant aggregation servers to protect against a single point of failure, and a combination of the BGP protocol and our own proprietary failover mechanisms to provide site-level redundancy.

**That's  
Sharedband.  
Superfast  
broadband  
for everyone,  
today.**



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