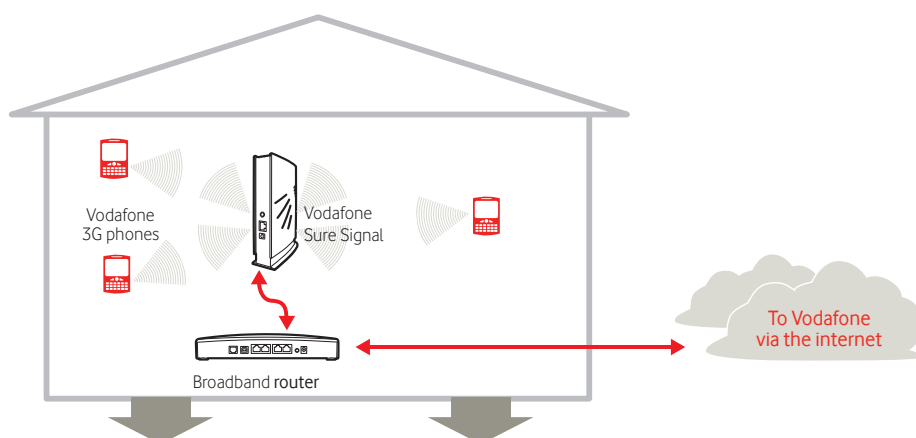


Sure Signal Network Setup Guide

For users with a more complex network/firewall setup, this document provides the user with a guide of how to overcome any network issues which the user may encounter.

Please note that although Vodafone does not provide support for any LAN installations, this guide should cover the majority of questions you may encounter when setting up in a more complex network environment.



Source	Destination/IP	Protocol	Port	Description
VSS	212.183.133.177	IP	50	ESP IPSEC NAT Traversal ISAKMP
	212.183.133.178	UDP	4500	
	212.183.133.179		500	
	212.183.131.128/26	UDP	500	
NTP Synchronisation	212.183.133.181	Type 8-ICMP	123-UDP	Ping NTP
	212.183.133.182	UDP	123	
	212.183.131.128/26			
DNS	My ISP DNS or Open DNS		53	vap.vodafone.co.uk

IP address configurations

Sure Signal requires a DHCP assigned IP address. This may be a private IP address but if so will need to go through a proxy or NAT function so that it is routable over the internet, i.e. seen by the Vodafone network as a public IP address. This is normal for a standard DSL connection but may need to be ensured in enterprise or more complicated consumer IP setups.

VPN configurations

All traffic between the Sure Signal and the Vodafone network, with the exception of the DNS and synchronisation traffic described above, is carried within a VPN tunnel. The VPN is established by the Sure Signal on initial setup and is successfully created if the @ LED on the Vodafone Sure Signal housing is lit – the LED flashes during VPN setup.

Sure Signal radio emissions

The Sure Signal operates at UARFCN downlink 10687 uplink 9737. This gives a download frequency of 2137.4 MHz and upload frequency of 1947.4 MHz.

Does Sure Signal work with any router?

Yes, the Sure Signal should work with all routers. However some routers may need specific configurations.

Does Sure Signal support uPnP protocols?

Sure Signal does not have any parameters which require support of uPnP.