

## Managed Softswitch Partition Product

Interoute Virtual  
Voice Network

# today\*

\*the next  
generation  
network

### Welcome to your future network

The Interoute Virtual Voice Network (VVN) is an advanced IP and TDM network opening up a new world of advanced telecommunications.

Uniquely, VVN is built on Interoute's wholly owned fibre, giving almost limitless capacity between switched hubs. With managed network capability on VVN, your suppliers and customers can deal with you instantly and seamlessly whether they interconnect in London or Frankfurt, Paris or New York.

Your dedicated switch capacity can be distributed as widely as you wish over the network and all managed from a central console on your desktop – building suppliers into a single routing list, whether IP or TDM, and wherever they interconnect.

With a single reporting facility on all traffic wherever it may arise, billing and reconciliation are simplified.

Whether you are contemplating a step into IP, seeking to expand conventional capacity, or evaluating outsourcing your network operations altogether, VVN offers a resilient, flexible and economical solution.

Moving to VVN is easy and can be accomplished a step at a time – your dedicated partition can start with as little as one E1 port and grow as you migrate. Our web portal makes ongoing addition and management of new customers and routes a simple affair.

Most of all VVN is fully managed for you, allowing you to forget about maintenance, software and hosting and concentrate on your customers, your suppliers, your business.

**VVN - Switchless Voice Operators**

interoute 

## Time To Move Up?

VOIP is happening. Business customers are looking at the cost benefits of wrapping up voice services with broadband data. Suppliers are coming up with economical routes available only over IP.

And competition has never been fiercer, with pricing pressures making it more important than ever that you take control of your costs.

Are you stuck in the middle, reselling a standard voice service and waiting on your main supplier to make a move?

Acquiring your own switch capacity would put you in control of your own destiny, allowing you to pick and choose among suppliers while securing your customer relationships.

But if you have reached this conclusion, you may now be torn between the different ways forward. Should you buy or lease equipment, or rent a switch partition, or a number of ports? What capabilities will you need in a year's time? Where should you locate to optimise interconnect?

Interoute's VVN provides a secure, scalable solution that does not lock you in to a compromise.

Quite simply VVN has all the capability you will need now and into the future, with a very low entry price

## Today's Standards...

Right now you need CPS and 1XXX access and directly connected customer circuits. Soon you'll want to offer IP connectivity and VPN plans.

VVN is interconnected with a host of carriers and alternative suppliers that can bring your conventionally routed traffic back to you. And with interconnect reach stretching out on to numerous metro networks around Europe, including London, connecting leased lines is as economical as it can be.

Equally importantly – and becoming more so – VVN is VOIP capable to its core.

The IP world can be challenging, with numerous Customer Equipment vendors implementing solutions in slightly different ways.

In specification, VVN boasts the right credentials, supporting SIP, H323 and other protocols, and also supporting all common compression methods.

In use, VVN proves itself remarkably versatile. Any VOIP connection causes VVN automatically to draw on more than three hundred pre-configured settings conforming to the combination of equipment and configuration detected. And this library can be added to in the unlikely even of VVN encountering a setup it has not met with before.

The outcome is that your customers – whether they have a conventional PABX or VOIP equipment from Mitel, Cisco, Alcatel or other vendor, or using Asterisk, or in fact virtually any equipment you might think of, will connect to VVN without a hitch.

## ...Tomorrow's Features

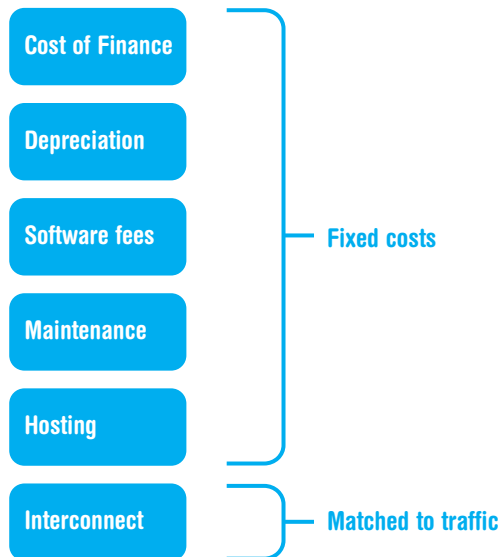
In 2004 VVN will see the addition of Class 5 services such as voicemail and hosted PABX facilities. Right now the interconnects at major peering centres allow VOIP Quality of Service management from ISP through to the network, meaning that even demanding business customers can be satisfied.

With the facilities of a leading Next Generation Network at your disposal, you can offer mixed IP and conventional VPN dialling plans and pricing without additional investment in equipment or technical resource.

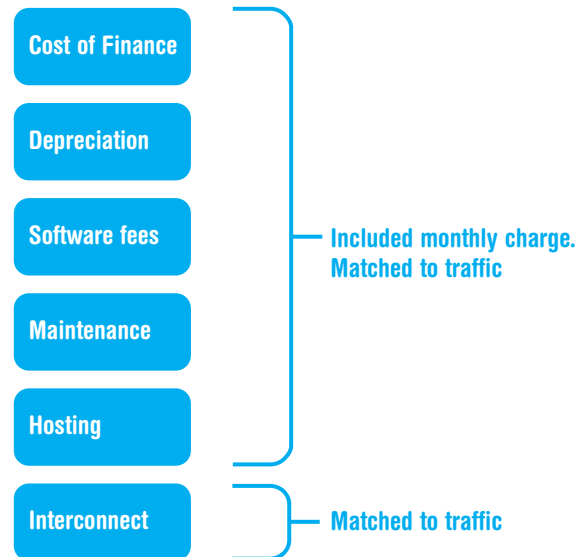
Competition is never going to disappear, and has never been keener in telecoms. VVN allows you to keep customers through service and features, not through lowering prices.

## A commitment that grows only as fast as you do

### Owned switch



### Grow with VVN



Take a look at the breakdown of costs on a conventional solution using a wholly owned switch compared to growing capacity with VVN.

VVN's simple model of combining all network, equipment and maintenance charges in a single monthly fee linked to capacity makes your planning so much easier.

## Manage Your Suppliers More Easily

Choosing your suppliers while preserving customer relationships is a major advantage of running your own switch. But it needs careful management. Duplicate circuits must be run to your switch during a handover period, during which you need to maintain good relationships on all sides.

VVN's distributed architecture means that you do not need to bring all circuits back to one point – VVN interconnects at many European metro-nets and at peering points from London to New York. And you can take on additional ports temporarily, transferring to them from your original interconnects when the handover is completed.

Moreover, with many carriers and alternative suppliers connected already, you may find that adding different routes is a paperwork exercise, with no additional circuits required at all.

In fact, VVN offers the perfect opportunity to buy routes as you will, on the wholesale market, and be in control of your margins as never before. Suppliers already connected offer CPS and IDA ingress, and a host of specialist suppliers of IP termination are available to start cutting costs immediately.

## Sophisticated Network Management At Your Fingertips

Management of your dedicated VVN capacity is through a web interface. That means that new customers may be provisioned, new routes added, even your own wholesale least cost routing tables configured, right from your desktop.

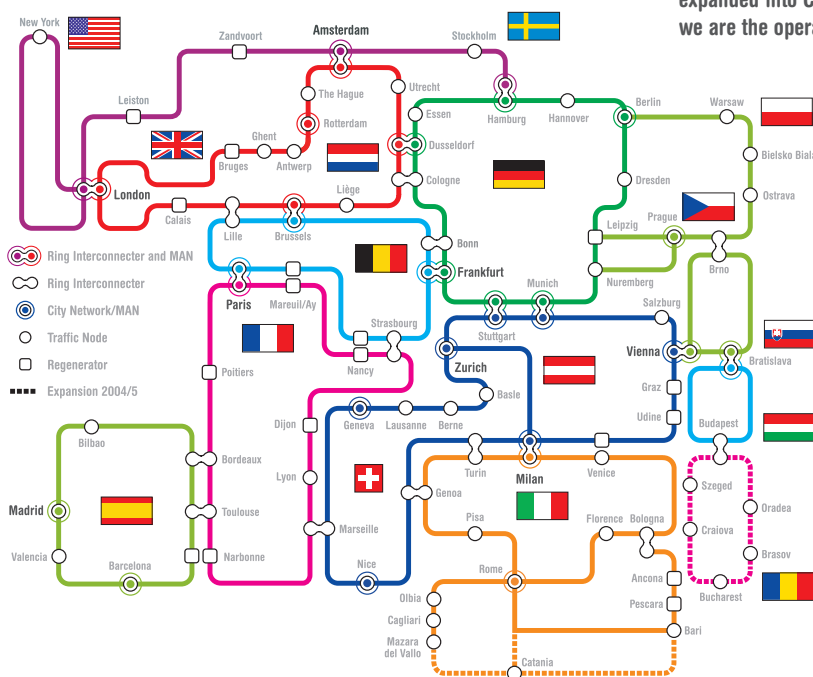
With VVN you can take advantage of the most advanced Next Generation Network in the world, without adding to your administrative and technical headaches.

## Monitoring and Billing Made Easy

Just as your management tools are but a mouseclick away, so up to date status reports like traffic passed (a vital performance indicator) and the split between your outbound routes are speedily available.

And with all traffic, whether via IP or conventional TDM, passing via VVN's advanced switches, reporting for consolidated billing and reconciliation is also available in one place, no matter how many different kinds of customer and supplier you may connect with.

## Interoute network



## Network Capability

VVN is based on Interoute's wholly owned fibre network and switching is provided by Sonus equipment, in use at carriers worldwide. And our backup, redundancy and failover arrangements are what you would expect of a network already relied on by ISPs, carriers and corporate clients worldwide.

## You Can Start Today... Why Wait?

With VVN's turnkey solution, you can start the move up to your own switched network capacity today. With switch capacity available from a single port, migrating to VVN is an easy process and need not be done all at once. You could start with a single customer, and a single route. Our engineers (your engineers!) are here to help you.

Opting for a VVN managed solution gives instant access to your own switch capacity and the lucrative VoIP market, and a risk free move into Next Generation telephony.

### About Interoute

As Europe's fastest growing technology provider, Interoute owns and operates Europe's most advanced and densely connected voice and data network, offering unparalleled homogeneity, reach and capacity. Our fibre optic network, consists of eight rings connecting 61 cities in sixteen countries across 23,500 route kilometres and has the capacity to carry a petabit (a billion megabits per second) of traffic. We have also built metropolitan area networks (MANs) in 21 major European centres of business. Having also recently expanded into Central Europe, and with further expansion planned we are the operator of choice for Europe.



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July 2004  
This information was correct at the time of going to press. However, because of the rapid growth of Interoute's business, details are likely to change.