

Elixir is a patented byte level solution that finally solves the connectivity conundrum for the last mile.

Elixir from Voipex



Elixir from Voipex delivers ViBE – Cloud based QoS and much more finally for the last mile! We all want to use Voice products and services that “Just Work” but when connectivity is required, it is never that simple.

QoS (Quality of Service) is the obvious solution but it is typically restricted, unavailable or requires you to change your broadband supplier and QoS delivered from routers only addresses part of the issues you encounter. Thanks to ViBE's unique and patented tunnelling technology, QoS is now available to almost any end user, irrelevant of connectivity provider or underlying network.

Originally, ViBE was developed as a point-to-point solution that required a CPE for the end user and a ViBE server installed in the provider's data centre. Today ViBE is a cloud-based solution with a presence in major data centres around the world making it simple to deploy Elixir over any provider's connectivity and from there to any end users ViBE CPE. With ViBE Elixir available over any connectivity type (Broadband, 3G/4G, WiFi, Satellite etc.) it's possible to deploy to your existing customer base without the pain of migrating them to another provider.

Elixir is a Managed Service provided by Voipex from our Cloud-based ViBE servers hosted in the UK and elsewhere assuring communications from the customer site to our Managed Servers in the UK. It is simply an “Overlay” service deployed over the top of your existing PSTN and Broadband connections. The traffic from these is simply routed through the ViBE tunnel established between your sites and our servers and then onwards to your providers soft-switch. If you are taking a “Converged ViBE solution” then the data traffic is forwarded to the internet from our ViBE servers with the Voice element being tunnelled onwards. Importantly using ViBE enables you to benefit from guarantees on the last mile of connectivity as well as using the available bandwidth to its maximum potential.



It does not matter where you are taking your broadband or SIP trunks from, Elixir simply sits on top.

The Benefits of ViBE Elixir

ViBE technology was developed to provide byte level QoS for VoIP and to solve the problems of getting a reasonable number of calls over limited bandwidth. Today ViBE has matured into a fully featured technology that benefits Data and VoIP services over all connectivity types.

Elixir from Voipex offers the following end-user benefits:

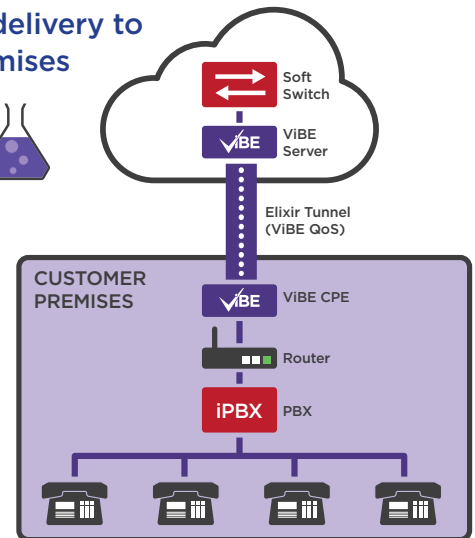
- **QoS** - is delivered not at packet level but at Byte level using Voipex' s patented QoS ensuring all traffic inside a ViBE tunnel benefits from ViBE's superior QoS and other features.
- **ViBE bonding** - ViBE allows up to eight connections to be virtually bonded into a single larger connection. These can be from any medium, Terrestrial, 3/4G, WIFI, Satellite etc. ViBE monitors each of these connections taking them out of service if the line fails pre-set quality conditions and restoring lines when the connection comes back into useable service.

ViBE Load Balances over the connections and can run connections in passive failover mode as well as in active failover modes whilst ensuring traffic deployment evenly over available connections.

Standard failover to alternative bandwidth (if available) ensuring all calls in progress remain in progress. The new ViBE CPE device will offer failover to 3/4G connectivity

- **RAIN Mode** - ViBE's Rain mode allows multiple connections to carry simultaneous real-time duplicate data, In the event of one line failing everything continues totally uninterrupted. In addition, RAIN almost eliminates packet loss on any line, essential when using real-time IP services and applications.
- **Increased performance** - ViBE reduces PPS (Packets per second) and so increases bandwidth and data traffic speeds over any connection. In addition ViBE uses the bandwidth to its maximum capability and through header removal which does not affect Voice Quality (ViBE always ensures the integrity of the Voice Codec) ViBE is capable of getting 100 x G729 calls per 1MB of bandwidth. ViBE works with all Codecs.
- **Encryption and security** - ViBE encrypts all voice and Data ensuring the integrity of your communications. In addition, there are additional features which can further disguise the traffic on a link protecting your traffic from external parties.
- **Private Circuits / Leased Lines** - The ViBE service is available on a Global basis making it easy and cost effective for you to resell "ViBE connections" on a global basis. If you have customers with leased lines to other countries, a ViBE circuit can deliver the same capabilities for a fraction of their current cost.
- **VPPLS** - ViBE can prioritise different traffic types according to your requirements to ensure for instance that Video is given priority over other less important traffic

Typical Elixir delivery to customer premises



ViBE QoS - User Benefits

Elixir is a managed service that compliments your current Voice service. ViBE QoS delivers peace of mind for you and your users, ensuring a high Quality and resilient connection from the core of the internet right through to the last mile at your premises.

ViBE Elixir delivers more than just QoS. It enables you maximise your bandwidth usage by getting as many as 100 x G729 calls per 1MB of bandwidth. It can ensure the integrity of your communications through our 128 bit AES encryption which can be complimented with our other security measures which further ensure your communications are safe from third parties. It can be set up in multiple resilient formats with RAIN duplicating all voice and data over multiple links. The result is instantaneous failover so seamless the end user will not know anything has happened, as well as total eradication of any packet loss over the connections due to the way RAIN works.

With Elixir you can bond multiple circuits together to improve bandwidth speed and again use them for resilience.

Elixir is a unique proposition in that it is not exclusive to any single service provider, making it easy to integrate and support. It is an "overlay" service that compliments the solutions you already have in place. ViBE Elixir compliments Hosted iPBX, SIP Trunks, Private Circuits, Leased Lines and Stand-alone iPBX solutions perfectly, ensuring voice quality, resilience and integrity for end users.

Elixir makes it cost effective to switch to SIP trunks and even more compelling to look at Hosted telephony as with the service you can retain your existing Broadband supplier.

To find out more about Elixir from Voipex call: +44 (0) 1473 359811 or email: sales@voipex.co.uk

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