dispersive technologies™

Maximize Your Online Patient Visits With Dispersive™ Virtualized Networks

Online doctor visits are redefining healthcare. Consider these statistics:

- The American Telemedicine Association estimates that more than 800,000 patient consultations took place online during 2015.[1]
- A recent survey of large companies by the National Business Group on Health shows that 74% of those businesses will make telehealth options available to employees in 2016.[2]
- UnitedHealthcare, the nation's largest health insurer, will offer coverage for virtual doctor visits to 20 million beneficiaries by the end of 2016.[3]
- Telehealth companies like MDLIVE and Teladoc have grown exponentially in recent years, providing 24/7/365 access to board-certified physicians at a fraction of the cost of an office visit.[4]

Physicians, providers and patients benefit from online doctor visits. Consumers, especially those in rural areas or underdeveloped countries, enjoy better access to quality care. In specialties like mental health, the care is often superior to alternatives. Travel times are reduced. Hospital stays are fewer and shorter. All this reduces costs and improves patient satisfaction.

While there are plenty of advantages to online doctor visits, challenges do exist. Perhaps the most important one involves the bridge that connects the patient to the physician, the link that makes online doctor visits possible.

The Internet.

Create A Strong Infrastructure

A virtual doctor visit is only as good as the platform on which it's conducted. While the Internet is pervasive, it can also be slow, inconsistent, unreliable and vulnerable to security breaches.

The solution is Dispersive™ Virtualized Networks (VNs).

Dispersive™ VNs are software-defined networks that overlay the Internet. They allow end-users with Internet to have high quality virtual doctor visits.

Dispersive™ VNs can be used on any off-the-shelf hardware. You don't need to purchase new equipment or expensive proprietary networks. And the software will work with your current operating system, so you waste no time learning a new OS.

With standard Internet networks, a device sends a stream of data to another device along a single path. This one-stream, one-path approach is vulnerable to bottlenecks and device failures. It also creates a stationary target for hackers.

Dispersive™ VNs take a different approach. Rather than rely on one stream of data, it divides that data into multiple, independent packet streams, sends those packet streams simultaneously down different

1 "How Direct-To-Consumer Telemedicine Is Challenging The Traditional Practice Of Medicine," *MedCity News*, April 16, 2015. **2** "The Payment Reform Landscape: How Does Telehealth Fit Into A High-Value Purchasing Strategy?," Suzanne Delbanco and Lea Tessitore, *Health Affairs Blog*, February 12, 2016. **3** "Telemedicine Gets A Lift From UnitedHealthcare," Christopher Cheney, *HealthLeaders Media*, May 13, 2015. **4** "Online Doctor Visits Are Set To Surge," *Money*, August 12, 2015.

paths, then reassembles the data at the receiving end. If a path becomes congested, the software automatically and instantaneously rolls the packet stream to an unimpeded route.

Improve Your Voice And Video Delivery

Voice and video are the lifeblood of any consultation. It's important that you clearly see what concerns the patient, e.g., a lump, rash or discoloration. Witnessing telltale symptoms and hearing patient concerns are vital to prescribing proper treatment. And of course, their ability to see and hear you clearly is critical as well. One dropped bit of conversation or one second of blocky or unsynchronized video can lead to misunderstandings, misdiagnoses, even lawsuits.

Conducting your sessions over standard virtual private networks (VPNs) can often present inconsistencies across locations and devices. Transmission latency—the delay between input and the desired outcome—can undermine the effectiveness of your treatment and erode your patient's confidence in you.

Dispersive™ VNs deliver voice and video more clearly and reliably than VPNs. They reduce latency over time by up to 30%. And they can deliver data up to five times faster than current VPNs in domestic settings and 10 times faster in international settings.

Secure Your Communications

Dispersive™ VNs help you maintain patient/doctor confidentiality by securing your communications more effectively than alternative networks.

Dispersive's multipath transmission approach means path selection is continuously changing. For added protection, message encryption varies from path to path. Consequently, it's virtually impossible for man-in-the-middle attackers to know which routes you are using, much less collect enough meaningful data to reassemble your communications.

Maximize Your Online Potential

Online doctor visits are redefining healthcare. And Dispersive™ Virtualized Networks are redefining these visits. Dispersive technology makes your Internet communications fast, secure and reliable. As a result:

- You can provide a higher quality experience for your patients.
- You can manage your networks much more easily.
- You can foil potential security threats.
- You can reduce capital costs while enhancing network reliability.

Learn more how Dispersive Technologies can bring speed, security and reliability to your online consultations. Call 1-844-403-5850 or email us at info@dispersivegroup.com.

Find out more: www.dispersivegroup.com

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