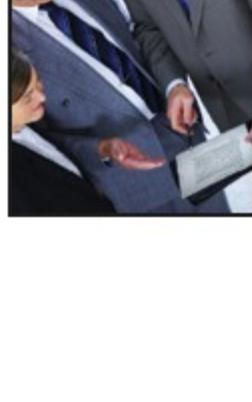




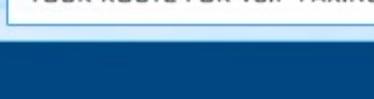
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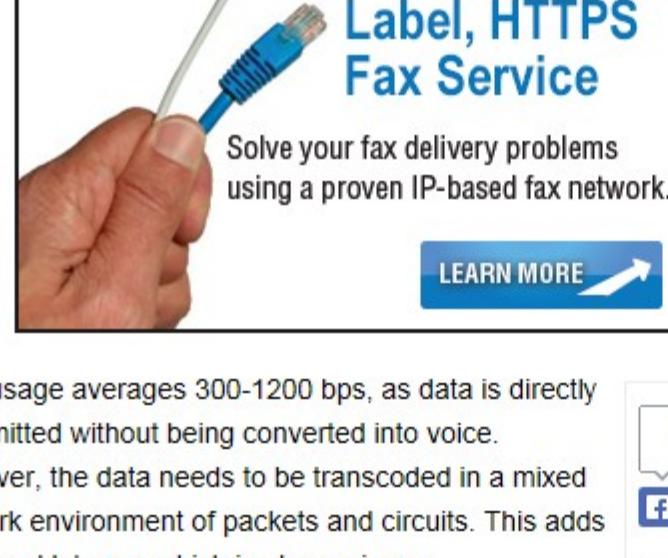
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**Fax VoIP Featured Article****Your Fax May Be Hiking Up Your Bandwidth Rates**

May 06, 2015

By TMCnet Special Guest  
LeiChandra Truong, Jr. Web Editor, FaxSIPit

Bandwidth ([News - Alert](#)) is one of the major concerns when implementing a VoIP network. The amount of bandwidth usage can vary considerably depending on the type of protocol you are using. For example, if you are using G.711 then it averages anywhere from 90-110 kbps consumed.



T.38 usage averages 300-1200 bps, as data is directly transmitted without being converted into voice. However, the data needs to be transcoded in a mixed network environment of packets and circuits. This adds costs and latency, which is also an issue.

Another consideration with T.38 is the retry function when a fax fails due to jitter or packet loss. T.38 reattempts the 'send' over and over until there is success or complete failure, each time gobbling up the bandwidth so on the surface 300-1200 bps does not look too bad. But imagine it three, four maybe even five times greater due to the reattempts because of T.38's susceptibility from packet loss and jitter.

How much extra bandwidth are you paying for?

If you are carrier sending hundreds of thousands, even millions of faxes day, this can add up to a huge cash outlay for extra bandwidth at the end of your monthly billing cycle, cutting directly into your bottom line.

Businesses don't have to put up with extra bandwidth charges, dropped or delayed faxes, or other repercussions such as latency; we believe there is a technology that can help -- HTTPS fax.

HTTPS only uses one fifth of the bandwidth compared to other protocols. Faxes are sent through a secure and reliable managed network. The fax data does not get dropped as it is converted to HTTPS.

Imagine a world where you have no dropped faxes, reliable delivery and use a fraction of the bandwidth that you are using now.

With all the benefits and cost savings, isn't it reasonable to switch to HTTPS?

Edited by [Rory J. Thompson](#)[+ More on Fax VoIP](#)

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How HTTPS Can Help You Achieve Successful Fax-to-Fax Transmission over IP: An in-depth look at how HTTPS fax can help transform your current fax protocols to achieve seamless and abundant fax connections over the open Internet, wireless and satellite all at once and in real-time.

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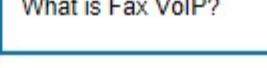
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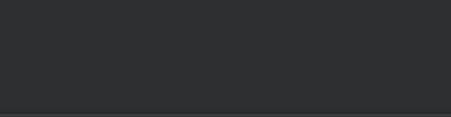
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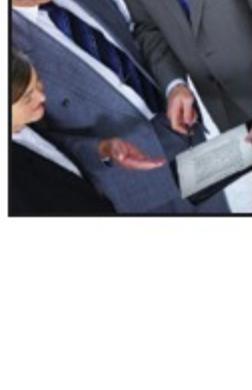
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**Fax VoIP Featured Article****Paving the Way for Reliable Fax Transmission**

April 28, 2015

By TMCnet Special Guest  
LeiChandra Truong, Jr. Web Editor, FaxSIPit

How is driving a car like sending a fax? It may be a surprise to some, but these two very different activities have similarities in common.

When a driver gets into the car, they will need to think about the following:

Traffic- What blockages will there be along the way? The roads or highways should be accessible and not be blocked due to accidents, construction, weather conditions, etc.

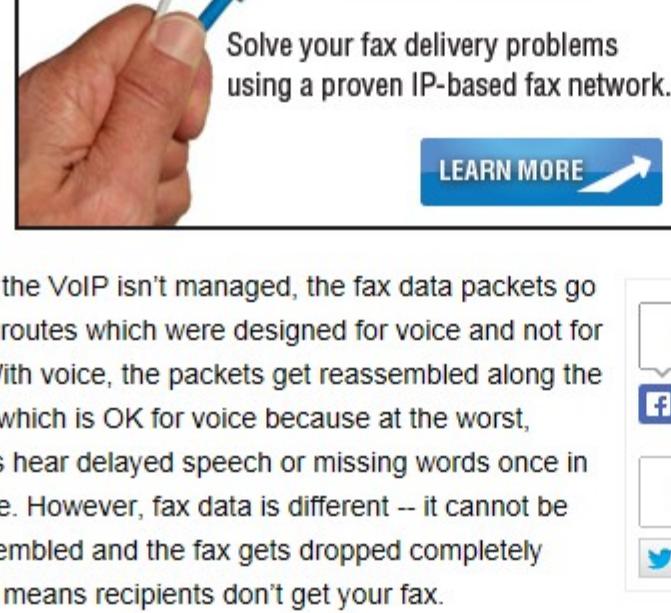
Route- How to get to the destination? Good traffic conditions would mean smooth sailing for the driver. However, if there's traffic jam on the highway, the driver can take an alternate route such as side streets or the toll road.

During a fax transmission, senders only want to make sure their fax gets to their recipients. Like driving a car, they should consider the same travel conditions:

Traffic- Will there be blockages along the fax transmission? If the fax is being sent via over standard T.38 or G.711 protocols, then most likely the fax will be susceptible to jitter and packet loss .

Route- How will the fax get to the recipient's fax? Chances are, not all of the faxes being sent will get to the destination and some will need to be resent.

That's how fax transmission is like driving. You wouldn't drive on a road with an accident, would you? Then why would you send a fax via transmission that isn't secure or that won't go through? Sending a fax over VoIP with an unmanaged fax negotiation is like driving on a poorly maintained road.



Since the VoIP isn't managed, the fax data packets go along routes which were designed for voice and not for fax. With voice, the packets get reassembled along the route which is OK for voice because at the worst,

callers hear delayed speech or missing words once in a while. However, fax data is different -- it cannot be reassembled and the fax gets dropped completely which means recipients don't get your fax.

There's a newer and better technology available: fax via HTTPS, which transmits fax with real-time protocols for centralized control, reliability, and security. Fax analog signals are converted into HTTPS, allowing faxes to connect over Internet, then over IP to get to its destination without getting dropped.

Want to learn more about this exciting HTTPS technology? Contact [FaxSIPit](#) for more details.

Edited by [Rory J. Thompson](#)

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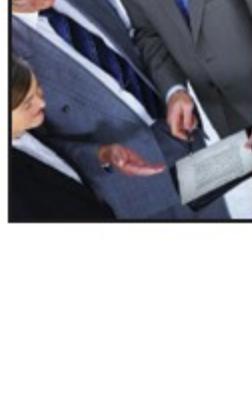
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**Fax VoIP Featured Article****Reduce Your Environmental Footprint with Virtual Fax**

April 22, 2015

By TMCnet Special Guest  
LeiChandra Truong, Jr. Web Editor, FaxSIPit

Fax machines have been known to waste paper. A cover sheet is filled out and then the fax documents are sent through a fax machine. On the receiving end, recipients also get the cover sheet and documents that were faxed. A few sheets of paper get printed and sometimes the senders and receivers don't actually need hard copies of the document. This leftover paper will need to be shredded or thrown out.



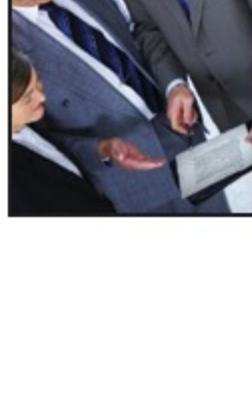
On Earth Day we're all encouraged to be more eco-friendly. However, it is possible to apply paper-saving practices year round, especially in our digital age. For companies that want to simplify their fax communications by reducing their environmental footprint and save time, virtual fax is the way to go.

It's easy to send faxes from your computer with virtual fax. You don't have to walk to the fax machine, punch in the fax number, and wait five to ten minutes to see whether or not your fax went through. As long as your Internet connection is working, the fax is sent safely and securely. Cover sheets can be customized and stored for later use with the company's logo. A variety of file formats can be faxed, and there are no limitations. If it has a 'print' option then it can be faxed.

Receiving faxes is also a lot simpler. Sometimes businesses get faxes which don't need to be printed. With virtual fax there's the option to delete the faxes, or store them digitally in file folders or a document management system.

Not only does virtual fax help companies be more eco-conscious, it saves them money on paper, toner, storage space, and time — which allows staff to be more efficient in the office. With all these benefits, your employees and the Earth's forests will be thanking you for going with virtual fax.

Edited by [Rory J. Thompson](#)[+ More on Fax VoIP](#)

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## Fax VoIP Featured Article

**Multiple Fax Solutions Solve Different Needs**

April 15, 2015

By TMCnet Special Guest  
LeiChandra Truong, Jr. Web Editor, FaxSIPit

Options and choices are what drive our market economy. When we go to an office-supplies retail store, we have the option of buying many products which suit our wants and needs. For example, Company A is a very small business and thus goes for the simple fax machine. On the other hand, Company B is a bigger company and opts for the multiple-function device. Different companies have different needs and it's important to offer them the right product for their needs.



Unfortunately, providers haven't been offering their customers the best options. Sometimes when customers face issues that arise due to fax over VoIP, there is a lot of frustration. The solutions that they have offered include installing a POTS line, sending one of their existing T.38 ATAs, or implementing a digital system which can involve time-consuming scanning of documents.

While these options are a temporary fix, they don't solve the problem. Having both, VoIP and a POTS line, incurs additional unwanted telecom expenses. The standard T.38 ATA doesn't have centralized control and is neither reliable nor secure. Digital systems are a hassle due to all the labor-intensive scanning involved.

Needless to say, these options are not a provider's best bet. What if providers could supply their customers with many options that work and are suited for their customer's business? Faxing over HTTPS is reliable, secure, and there are no more dropped faxes, which means no more complaints from customers. FaxSIPit has three fax solutions that can benefit companies in the long run: HTTPS Fax over IP, Virtual Fax and SIP Trunking.

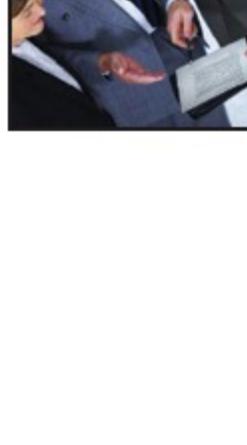
Customers that don't send and receive many faxes and still want to keep their standard fax machine can go for the HTTPS Fax over IP. Other businesses that want more control over their incoming and outgoing faxes from a computer can go for virtual fax. SIP trunking is for the big corporations or government agencies that are required to keep in-house fax servers but need total control over fax management for compliance and privacy requirements.

The ability to choose what is best for a business is crucial. And that's exactly what FaxSIPit offers for providers, who in turn can offer these options for their customers. Wouldn't that be great if you and your customers had reliable fax options to choose from?

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**FoIP: The Secure, Affordable, Accessible Option for SMBs, Large Enterprises**

March 30, 2015

By TMCnet Special Guest  
LeiChandra Truong, Jr. Web Editor, FaxSIPit

To grasp how VoIP functions at the fundamental level is essential. Understanding can help us know why companies encounter challenges when faxing over this channel of communication.

It involves VoIP technology, which carries voice data digitally via packet switching over an Internet protocol based network like WAN, LAN, or the public Internet.

Strictly speaking, this means that a VoIP phone call transmits data from one computer system to another, disassembling the voice information into data packets that may travel along multiple different switching routes prior to getting reassembled at a specified termination point.

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Despite the fact VoIP is great for voice calls, Telecom providers and others quickly realized that fax submission was like a game of chance — mainly due to packet loss and jitter — and is certainly below par for technology standards to be in use because of its unreliability.

In 1998, T.38 fax relay was revolutionized to allow for faxes to be transmitted over IP networks between Group 3 Fax terminals which were already in existence. At the same time, users began to see VoIP as a substitute for PSTN.

Users discovered that though T.38 functions well in a moderated, closed environment such as LAN or WAN, when tested with the open Internet, the average transmission that used the T.38 protocol performed inadequately, or not at all.

Despite T.38's poor performance, providers still think that their existing options will solve their problems. Providers generally suggest their users to use the existing T.38 technology, which is like a game of chance — the fax gets installed on users' VoIP network and everyone 'hopes' it works. Other times, they will suggest the installation of a POTS line. The last resort is just to ignore the situation altogether and pretend that it does not exist. These options are unacceptable, and result in a loss of revenue, that causes many hours of unnecessary frustration.

All providers want to have satisfied customers who are with them for years, not ones that will look elsewhere for other providers because of loss of voice, information, and fax.

A perplexing question to ask is, 'Why do carrier members and forms waste millions trying to promote and improve T.38?' Maybe they believe that they are too far along that road and are too invested to give up now.

T.38 may be great in a controlled setting, but it simply doesn't meet the quality standards required. Providers globally are suffering because they feel the need to push for a particular protocol ideal in their industry, one that was not designed for use over open Internet.

There is a simple and hassle-free technology that has been around for years and works with fax. SMB and large enterprises would benefit immensely from it.

Standard Internet protocols are intended for use on open Internet while T.38 is not. Internet protocols using HTTPS are consistent, dependable, secure, and not prone to switch-to-switch hops, setbacks, jitter, or packet loss. Companies that use HTTPS are able to fax over open Internet through Wi-Fi, mobile phones, satellite, and ECM (Error Correction Mode).

Adding to all of the benefits, it provides uncomplicated, easy installation, which only uses one fifth of the bandwidth. The solution is clearly obvious. Ask yourself this: Why am I not going with HTTPS Fax?

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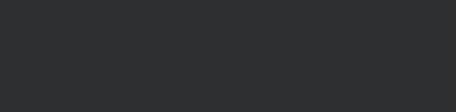
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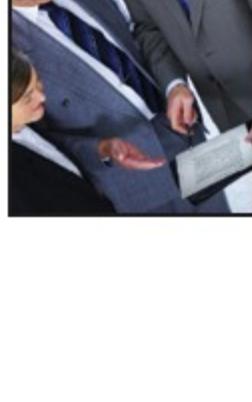
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**Fax VoIP Featured Article****Faxing Via the Cloud**

March 24, 2015

By TMCnet Special Guest  
LeiChandra Truong, Jr.  
Web Editor, FaxSIPit

Cloud computing can be described as computing applications, resources and services that can be accessed remotely and on demand by users. These days, this can be done by cloud service providers over the Internet.

The development of hosting companies eliminates the requirement for in-house software or hardware and excessive IT staff to manage an internal system.

For end-users this means increased accessibility, scalability, and a low-cost means of operating, merely considering the comparative savings with the flexibility of a hosted implementation.

Cloud computing radically alters the way applications are run, delivered, and integrated. The cloud functions on a larger scale, drawing many different users who gain access to services and applications within a single cloud or multiple clouds.



The efficiency of Cloud Faxing results in increased revenue and more possibilities that were previously unavailable for the independent VoIP provider, carrier and ISP alike.

It is a distinct advantage to companies everywhere to be able to use fax services as needed in which users only have to pay for their usage and modify their resources for business needs, with no contractual or financial commitments in equipment or telephony.

For this reason, there are three distinct fax services:

- Fax-to-Fax with real time, secure HTTPS transmission;
- Mobility with PC-to-Fax for today's mobile work force; and
- SIP Trunking.

Many companies still use internal fax servers, but have to purchase, install, configure fax hardware boards, or have to handle the loop or line charges and billing delivery packages which are hard to keep track of.

Additionally, they would like to use an IP-based fax network to terminate their fax documents.

This is where FaxSIPit comes into play. The hosted solution is a high-availability, virtualization-ready fax that is scalable, deployable, and offers HTTPS over Internet, without the high cash outlay of an enterprise server and all the high associated costs that go with it.

The result is a solution designed to work perfectly with the reliability when delivering over the open Internet, Wi-Fi, satellite and cellular networks. If you're searching for both security and reliability in your fax services, FaxSIPit offers all that and much more.

Edited by [Rory J. Thompson](#)

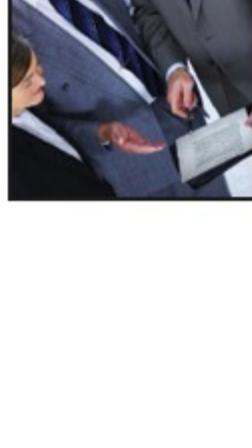
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**Fax VoIP Featured Article****The Missing Element in VoIP Fax**

March 10, 2015

By TMCnet Special Guest  
LC Truong, Jr. Web Editor, FaxSIPit

With more than 20 years of expertise in the fax industry, FaxSIPit is aware of the issues that VoIP telecommunications providers have when it comes to fax conductivity. The leading-edge company has a solution to the ongoing predicament of unreliable transmission, security issues, and more.

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Many providers have noted that options for secure and dependable fax have not been met. They have tried to make various options available for their customers such as the installing of a POTS line, delivering one of their existing T.38 ATAs, or implementing a virtual system consisting of fax via email, which also involves the scanning of all documents.

Unfortunately, there are shortcomings to each of these options. Customers cannot fully utilize their telecommunications stream of revenue when going with the aforementioned options. Usage of a T.38 ATA or virtual system almost guarantees clientele dissatisfaction. Although not many T.38 users talk about the issues facing VoIP fax, it is something that occurs on a daily basis and needs to be addressed.

The answer to the core issue of undependable VoIP fax is HTTPS real-time fax over IP networks. This alternative protocol is a necessity, and was developed because VoIP is designed for voice. The reality is that fax protocols such as T.38 and G.711 do not go well with voice over IP protocols. While T.38 is reliable during transmission over QOS networks such as MPLS circuits or WAN, T.38 is not suited for the Internet where packet loss and jitter are a regular occurrence.

Sending one or two pages will be OK most of the time. However, even one percent of packet loss means undependable fax delivery, and the more pages a user submits, the higher the number of failed faxes. So, sending a multi-page document of more than ten pages will almost always fail. This is an unacceptable level of business standards wherever fax plays an essential part of communication.

And if the repeat/send method is used to try to compensate for the jitter and packet loss, the bandwidth increase makes T.38 a very ineffective way to transport faxes.

What's the answer? That's a question many providers have been asking for years and the solution is HTTPS, via an ATA HTTPS adapter that transmits fax machines' signals over the open Internet. The result is reliable and secure faxing. Through the use of TCP instead of UDP ([News - Alert](#)), all packets are intact and transmitted, as this will work for just about all data connections.

Throughout recent years, FaxSIPit has made significant advancements with its partners. These milestones include the development of hardware, firmware technology, and a reliable delivery network that eradicates all the problems associated with VoIP faxing.

The innovative HTTPS-based fax technology helps VoIP telecommunications providers -- as well as any enterprise or individual -- use VoIP fax with assurance that faxes are going to get to their destination successfully, reliably, and securely. FaxSIPit sees this as the new standard for faxing best practices.

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