

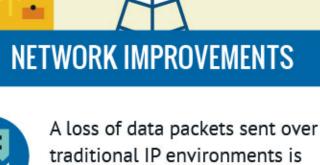
HIDDEN COSTS

VoIP is a real-time application that requires more resources than traditional e-mail, HTML, and databases.

REVAMPING INTERNAL IT INFRASTRUCTURE

Companies switching over to VoIP have no choice but to make these improvements in the network systems and power supplies, because they are critical components.

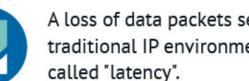








Every device needs a reliable and





To have a conversation, the maximum delay can be no more

than 150 milliseconds.

backbone.



VoIP works in real time and needs the lowest latency possible.



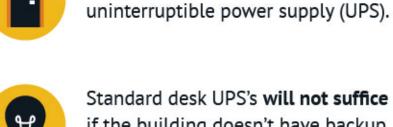
LAN cabling needs to be replaced with gigabit Ethernet or a fiber

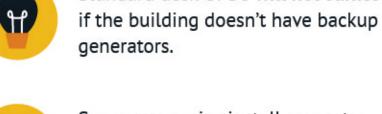


Switches and routers need to be upgraded.

THESE COSTS ARE OFTEN VERY HIGH AND

USUALLY NOT INCLUDED IN THE VENDOR'S ESTIMATE.







Some companies install separate power cabling for network components.



Some companies rely on a small emergency generator and a battery

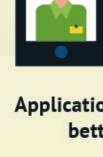


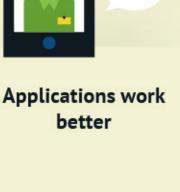
bank.

THESE COSTS ARE USUALLY **NOT INCLUDED**

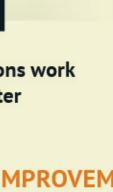
IN THE VENDOR'S ESTIMATE.

THESE IMPROVEMENTS DO HAVE HIDDEN BENEFITS!





HIDDEN COSTS







VULNERABILITY AND SECURITY



the phone system of a company.

that larger companies have.

Smaller companies are also less resilient to any disruptions of business.





EXPLANATION

MOST COMMON VOIP THREATS CONSEQUENCES

Denial of service

Theft of data

may not have the number of trained, qualified personnel

Calls could be eavesdropped Loss of sensitive information upon and/or recorded; voicemail and/or corporate secrets; may be tampered with identity theft

Primarily, viruses and worms

similar to those that attack

Service Availability



VoIP toll fraud

voice mailboxes

Registration hijacking and Caller Identity theft; disruption of work

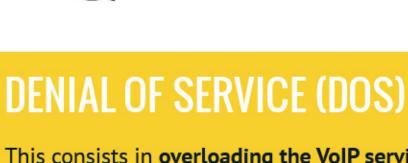


Voicemail Spamming

Larceny

Unsolicited calls; "stuffing" of

Disruption of work



During the 2012 London

Olympics, the servers of

Olympic press agencies were hit by a DOS attack

overloading them with

300,000 data packets per

second. The servers had to

company or demand a ransom to stop the attack.

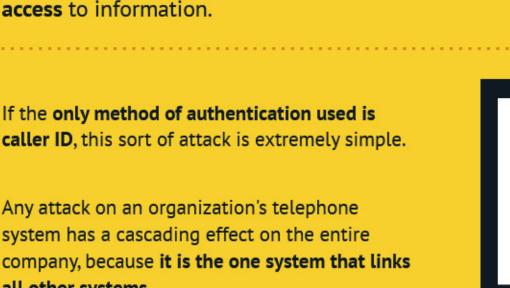


IDENTITY SPOOFING

An attacker can falsely pose as someone else, and gain unauthorized access to information.

all other systems.









CALLER ID

2

RESET

Businesses looking to

T.38 subsystem, which

ensure that it can travel

T.38

alters the signal to

over the IP network.

use Fax over IP need the

All VoIP equipment comes

preset with default login

information. An Internet search

can quickly find these default

usernames and passwords.

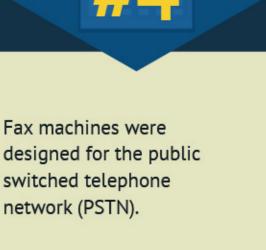
HIDDEN COSTS

HIDDEN COSTS

LOGIN default login

> services and ports are not shut **USER NAMES AND** down. As a result, hackers can log in to a company's servers PASSWORDS! from the Internet. **FAX OVER IP**

is to ensure to clearly divide the network between voice and data.



Even with VoIP-specific

receiving machine might

fax machines, the

still be analog.

VoIP equipment is also





911 Calls

HIDDEN COSTS **IMPACT ON EXISTING SYSTEMS** Many legacy systems can only work on an analog phone line.

Point of Sale Devices

IF THIS HIDDEN COST IS NOT DISCOVERED BEFORE ROLLOUT, IT



THE BENEFITS

In France, for example,

Alarm Systems

FOR YOUR COMPANY? With all the listed limitations and the abundance of hidden costs, you may wonder why your company should even consider switching to VoIP. The good news is, there are a number of compelling reasons why VoIP might still be a viable option for your company!

VoIP means a natural computer/telephone integration - your phone system and your data systems can work together, greatly enhancing productivity while reducing costs.





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the business simply

number of extensions.

hires the needed











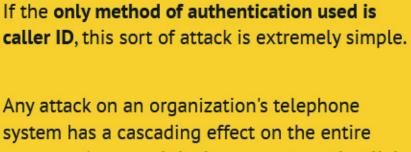
ID spoofing

computer networks

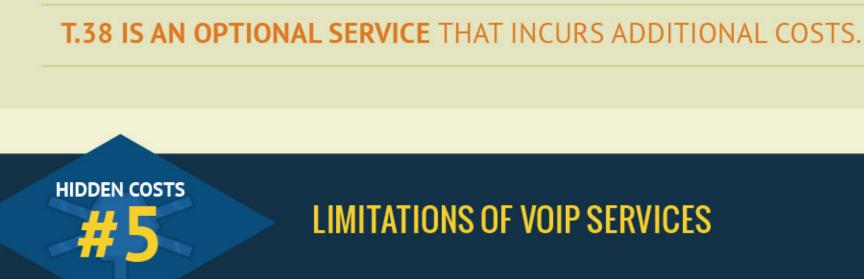
This consists in overloading the VoIP service and forcing it to shut down, to harm the

Due to the high costs associated with a total disruption of business, DOS attacks can be considered a

major hidden cost.





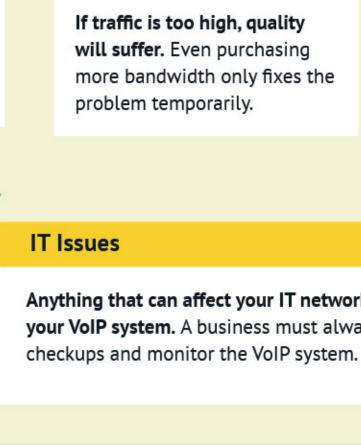


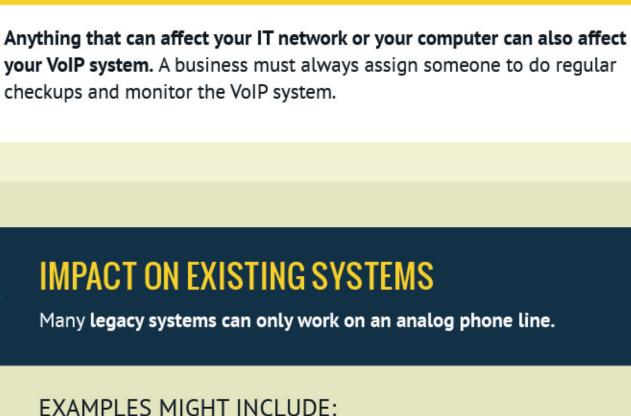
Internet Connectivity

When the Internet goes

down, the VoIP system

doesn't function anymore.







Credit Card Readers

95% of calls are made through VoIP Bonjour And the rest of the world – especially the developed nations - are rapidly following suit.

The hosting company

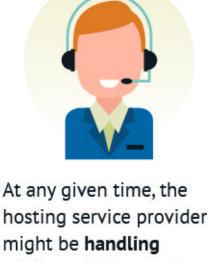
management, security

handles all server

The user simply connects his phones to the Internet and makes sure that he has

sufficient bandwidth to

support the service.



SMALL BUSINESSES It makes sense for small businesses to use a hosted VoIP solution, rather than trying to manage it themselves. 血

> and other issues. millions of lines, and so it has the **highly-trained** manpower available to provide assistance.