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## DIGITAL SYSTEMS V/S IP PHONE SYSTEMS

**Ironton Global**

Digital Systems V/S  
IP Phone Systems  
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# DIGITAL SYSTEMS V/S IP PHONE SYSTEMS

Digital Systems have been around for decades. Many of these systems have proven to last 10 to 20 years in some cases, showing strong reliability in the work place. In the past few years, these legacy systems have added expandability and functionality such as T1, PRI, Automatic Call Distribution and much more and some models can scale to thousands of end points (phones) with great reliability.

IP Systems originated over a decade ago, and today, some of these systems can scale to tens of thousands of units in dozens if not hundreds of locations.

So what is the advantage of an IP Phone system over a traditional systems?

Some of the IP Systems today are hybrid: meaning that they can handle traditional phone lines (including Analog trunks, ISDN, T1, E1 and PRI to Multiple T1 and PRIs) as well as Voice Over IP (VoIP) phone lines. But hybrid systems can also handle VoIP phones (Ethernet based) as well as Digital phones (using traditional CAT 3 cabling) so they provide the best of both world. As an example, an Ironton Global phone systems provide an IP infrastructure while being able to support digital phones through one of its growing gateway modules. In essence, you can deploy VoIP phones (SIP or proprietary), Digital phones, Cordless phones by leveraging your existing Wi-Fi infrastructure or even standard Analog phones. VoIP phone lines (also called SIP: Session Initiated Protocol) are typically provided by an ITSP (Internet Telephony Service Provider), and these type of trunks can replace or augment your traditional phone lines. Each TRUNK (meaning phone line) requires roughly about 84 Kilobit of bandwidth (uncompressed) when a conversation is in session. That means that a data T1 (1.5 Megabits) can handle about 17 or so conversations simultaneously. Many companies find that SIP is the way to go because they cost far less than traditional phone lines, as well as provide extremely competitive rates for long distance, and some providers have plans which include unlimited long distance. And if you make calls overseas, you are in for a treat as some of these plans can provide rates as cheap as a few pennies to Western Europe or Southeast Asia. In essence, if you are paying \$1000 for Long Distance a month, and you can buy a brand new IP Phone system (that costs say: \$20,000) , you could lease to own that system for around \$460 per month, therefore saving the company nearly \$5,000 per year and much more once you finish paying on the lease. This is an effective ROI that makes sense.

Having said that, many people are buying IP phone systems today and still using traditional Phone lines because they either don't trust the internet or don't understand SIP technology that well or don't have the upload bandwidth it takes to sustain these type of phone lines. But they like the idea of buying an IP hosted phone system because it provides the flexibility to use VoIP lines

But the appeal of IP Systems goes far beyond the fact that you can do IP Trunking.

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## **Here are my top reasons why IP Phone Systems are incredibly beneficial and result in drastic cost savings and why Digital Systems are dying:**

An easy to use programming interface. Many people don't want to have to call the "phone guy" every time they need to make a change to their system. IP Systems provide a Graphical User's Interface, that can be launched from anywhere and make changes to the system that can take effect immediately. So making changes to the system is much easier to understand than legacy systems. This often provides tremendous cost savings for the lifetime of the phone.

The ability to have a phone in your house or another location and to be able to use the office's dial tone is beneficial too. The remote user appears as if they are working at the office. So if a call comes in – it can be transferred to that remote user (wherever they have that IP Phone plugged in) and the caller has no idea that the remote user is working from home or from anywhere in the world (where broadband is available). Working remotely can cut costs of travel, time, gas, etc... and quickly and easily enables remote workers. Just think: no added desks, real estate, electrical, supplies, etc... etc... Teleworkers can take their office phone, plug it in, and off they go. Their extension remains the same and is totally transparent to the caller

If you have more than 1 office – the ability to have 2 systems – and the ability to do an extension to extension DIAL and of course when that happens – you bypass any tolls (no long distance) not to mention the ease of talking to someone by just depressing their button or extension. Another cost saving.

The ability to have very flexible "find me follow me" – For example – if you are out to lunch and are expecting an important phone call – the system can easily transfer that call to your cell phone. In the case of some large enterprise (yes, expensive) system, the Cell phone can even be a mobile extension – meaning that you can transfer back the caller to an inside extension from your mobile phone (or put them on hold and them hearing your corporate on-hold messages). Now you can drop that expensive call forwarding (multiplied by every line you have) and drop the afterhours answering service since calls can be forwarded anytime, anywhere.

Some of these systems can handle call recording, allowing you to record conversations by simply pressing a key and then archiving these to an external storage area

How about Unified Messaging?: When receiving a voice mail, that voice mail is also emailed to you in a WAV file enabling that voice mail to be saved forever on your desktop or server or be forwarded as a WAV file outside your company.

The ability to move your phone by simply unplugging it and plugging anywhere on your network where you have Ethernet (without having to reprogram anything). Cut costs by not dispatching the "phone guy"

IP Systems (especially hosted ones from Ironton Global) cut cost of wiring in half. So if you are moving to a new place and where you normally have to provide a voice and data cable – you would not need to do this anymore. Most IP Phones have a 2 port switch on them – allowing you to plug your phone into the Ethernet Wall Plate and your PC into the back of the phone – therefore only requiring 1 cable to the desk not two. This cuts cost of cabling by 50%.

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The ease of use of an IP system is amazing providing you a Software interface on your PC, so you can have full synchronization with Outlook™ capability, Chat, Presence, Video and much more

The ability to use your laptop or your desktop as a phone – so if you are traveling – simply plug your laptop into the Hotel's or your house's Internet and you are now connected to the office. Add a Headset for better sound quality and you have yourself a great communication device

Call Detail Reporting (CDR) is often built-in to many of these systems. The ability to find out just about anything you want about incoming or outgoing calls and produce reports that can translate into time billing and providing important information on where your callers are finding you (i.e. having them dial a different Phone Number for certain add campaigns) or how about tracking what your call center is doing, or Sales reps, or who called us today? Etc.... Of course these reports can easily be exported into a multitude of formats making them easy to manipulate for many reasons.

Cell phone Twinning: The ability to have your cell phone function as a remote extension of your PBX and then be able to transfer that call back to any extension in your office. Imagine working from home and your cell phone rings, it is a client. You speak to the client and now they want to be transferred to your customer service dept. You use your computer to initiate that transfer in no time. What is the price of connectivity?

#### **Conclusion:**

In short – IP Systems are here to stay and are definitely where every phone vendor on earth today is going. IP Phone systems DO save money by providing lesser expensive alternatives for Local and Long Distance lines as well as 0 Toll when using them between each other, and decrease costs of Cabling as well as the need to dispatch a Phone guy every time, since they use a Graphical User's Interface allowing each person the flexibility to manage their own end points and the ability to move their system as much as they want without requiring a phone Guy. Finally – moving an IP System is as easy as unplugging 3 connections. No more 66 Blocks and the confusing and unattractive wire closets you sometimes see. They are often a 2 or 3U Rack mounted appliance that easily travel and here again, reduce cost if you ever have to move the system. IP Systems provides ease of use, flexibility, mobility, compliance, scalability, and a drastic overall reduction of price. But it gets better, if you are using a hosted system from Ironton Global, there is no phone system to move. Simply call us so we may port your trunks to your new location and you can simply take your phones and the existing switches to your new location and you are done!

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