

The Sunset of Plain Old Telephone Service (POTS): Fiction vs. Fact

The retirement of analog services is fast approaching, but there is a significant amount of confusion about what this really means for the telecommunications industry. Some will say that FCC Order 19-72A requires companies to replace all their POTS lines by August 2, 2022. Others say that FCC Order 19-72A only eliminates pricing controls. Here are some facts about what it really means and how it might affect business critical applications such as elevators, alarms, call boxes, fax machines, and more.

Fiction	Fact
All analog or copper-based POTS	FALSE. On August 2, 2019, the FCC issued Forbearance Order 19-72A1,
services will be discontinued on	which officially granted telecommunications carriers permission to
August 2, 2022.	retire outdated, degraded copper POTS lines. This order effectively
	severed the final ties that required companies to maintain a specific
	standard of traditional POTS connectivity. While the FCC does want to
	encourage the retirement of outdated analog services, they have <u>not</u>
	ordered the carriers to terminate these services on this date.
All POTS lines must be replaced	FALSE. The FCC (via Forbearance) removed price caps on POTS lines,
by August 2, 2022.	resulting in significant price increases. Price increases are expected to
	continue, so this is expected to encourage and facilitate the ongoing
	technology transition to advanced communications services over next-
	generation IP-based and landline and cellular services.
POTS services are required for	FALSE. Most of the customer premise equipment out there today was
elevators, fire alarms, fax	originally built to connect over legacy copper-based connections.
machines, call boxes, and more.	Managed Facilities-based Voice Networks (MFVN) compliant solutions
	like AReS [™] are designed to work with this legacy equipment, seamlessly
	handling analog to IP conversion and providing a simple path to
Languagina alaurahan	advanced communication services.
Legacy fire alarms, elevator	FALSE. AReS TM Analog Replacement Solutions are designed from the
equipment, and call boxes must	ground up to ensure you do not have to replace existing customer
be replaced to accommodate advanced communications IP-	premise equipment, which could be a costly and time-consuming process. Since AReS [™] provides dial tone to IP conversion, virtually any
based services.	device that uses analog service today can be used with Ethernet or IP-
based services.	based cellular connectivity.
Buildings must be re-wired	FALSE. AReS TM is compatible with almost all existing customer premise
to accommodate advanced	equipment, including legacy elevators and fire alarms. We include
communication IP-based services.	everything needed to take your existing analog telephone line and easily
	move it onto a cellular connection without having to re-wire your
	building infrastructure.
One-size fits all for POTS	FALSE. Each application is different. For example, a Fire Alarm may use
Replacement applications.	specific protocols for communications, while an elevator may use a
	completely different set of protocols. AReS [™] is configured on a per
	port basis for a specific application, not a one-size-fits-all model.
Cellular services are not approved	FALSE. With the introduction of the 2010 edition of the NFPA 72 rules,
for applications like elevators and	the door was opened for cellular technology to become an alternative
fire alarms.	solution to POTS. It can also be used as a single communication path to
	replace POTS lines of service. However, many companies combine

	landline and cellular services to ensure they always have connectivity, even in the event of a network outage.
POTS is more reliable and cost-	FALSE. There are many reasons why cellular has emerged as a leading
effective than cellular.	solution for mission-critical applications, including elevators and fire
	alarms.
	<u>Cost:</u> In many cases, deregulation has resulted in higher costs for POTS
	lines of service, and prices are expected to continue increasing for the
	foreseeable future while the cost of cellular services continues to
	decrease.
	Reaction Times: Time matters, and the reaction times for cellular versus
	POTS are significant. If there is a fire alarm that takes one or more times
	to connect via a dial tone or pulse, precious seconds can be wasted,
	resulting in a catastrophic loss of life or property. In addition, with a
	system that uses redundant phone lines, if both lines experience issues
	there could be up to a 24-hour gap before the central monitoring station
	misses a test and reacts. With cellular connectivity, connection times are
	faster, and the central station would be alerted within a few minutes in
	the event of a failure.
	<u>Technology:</u> While POTS is quickly reaching end of life, cellular is
	continuing to evolve from 3G to 4G and into 5G and beyond.
A strong cellular signal is required	FALSE. While signal strength and penetration are critical, AReS™ is
in the basement or wiring closet	designed with flexibility in mind. For example, you can easily remove the
where your fire alarm or elevator	Cradlepoint 4G or 5G router from the enclosure and move it to a
panels are located.	location anywhere in the building, connecting it via Ethernet back to the
	enclosure, which would typically be located in the wiring closet next to
	the fire alarm or elevator panel.
E911 services are incompatible	FALSE. As with any public safety related service, E911 capability is a hard
with cellular connectivity.	and fast requirement. Therefore, it is critical to properly configure
	detailed location data with your provider to ensure the requisite
	information is shared with 911 dispatch. This means the address, floor
	number, and even room number if available.
Like 3G, 4G will soon be going	<i>FALSE.</i> 4G has many, many years left in service. However, AReS TM is
end-of-life.	designed to be easily upgradeable by simply swapping out the router to
	the next generation 5G technology, eliminating the need to reconfigure
	your customer premise equipment with equipment changes.

Still, have questions?

MACH Networks offers fully managed end-to-end **A**nalog **Re**placement **S**olutions. Our Cradlepoint-based solutions are the only enterprise-class solution on the market today and are specifically designed to work with your mission-critical applications, including elevators, fire and burglar alarms, call boxes, fax machines, and more. As for reliability, we stand behind our solutions with a Lifetime Warranty for as long as you are a customer of MACH Networks.

To learn more contact us at (866) 972-7677, ext 2 or send email to <u>sales@machnetworks.com</u>. Be sure to follow us on the <u>web</u>, on <u>Twitter</u>, <u>LinkedIn</u>, or <u>Facebook</u>.