



Legacy Paging Interface (LPI) Cookbook

All the ingredients you'll need to successfully integrate InformaCast with your existing paging system

Learn how the Legacy Paging Interface (LPI) can help you, whether you want to modernize existing paging systems, add public address capabilities to your facility, or replace old systems

Today, organizations have the option of connecting their existing overhead paging systems to the IP network and providing more communication options. This can include things like sending pre-recorded audio messages, using phones for sending an overhead page, and networking different PA systems together to enable emergency communication and mass notification.

We have put together several design considerations to get you started if you are looking to modernize an existing system or build one from scratch.

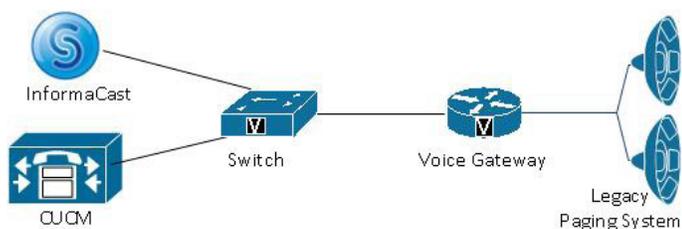
Typically, organizations fall under one of the following categories:

- They want to connect or modernize an existing public address system (via ATA, E&M, FXO, or FXS port)
- They want to add a public address system to a building, but don't know where to start
- They want to replace an existing system that is failing or has already failed

Scenario 1: You Would Like to Modernize an Existing Public Address System

Problem: You have an existing paging system that is connected to your Cisco UCM through an ATA, FXO/FXS, or E&M. When you pick up a phone and dial in to the paging system, you are prompted for DTMF.

Solution:



Use the LPI and count the number of DTMF zones that you have in order to create the proper licensing. Typical uses include all-call paging and paging to certain areas of a building. In the illustration above, InformaCast and LPI connect to the legacy paging system via the voice gateway.

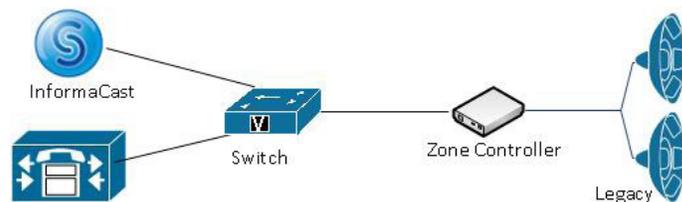
Scenario 2: You Would Like to Add a Public Address System to a Building or Facility

Problem: You'd like to add paging to a facility, and have determined that adding IP speakers will be too expensive.

Solution: Depending on your environment, you have a number of options:

- If you email your floor plans to an audio vendor, like AND or Valcom, they can design a system according to industry best practices
- Alternatively, you might look to have a local audio vendor do a design and a local site assessment

Be aware of the number of paging zones you'd like to have. In a traditional analog paging system, a single amplifier defines a zone, while newer amplifiers may be able to support more than one zone. Each zone will need to have some type of audio input device for InformaCast. This can be a zone controller (i.e. line level to the amplifier) or potentially a multi-zone controller that allows for DTMF to separate zones and amplifiers (LPI and analog output from the phone system to the multi-zone controller). In the illustration below, InformaCast and LPI are connected to the legacy paging system via a zone controller.



Scenario 3: Your Systems are Extremely Old and You're Looking to Replace Them

Problem: You have old amplifiers that are failing, and you're looking to replace them with newer devices.

Solution: Determine the type of device and the amount of watts the amplifier is putting out. Typically, existing speakers can be re-used with a newer amplifier. Match your wattage to one of the newer devices, like the Atlas AA35 (35 Watt), or AA120 (120 Watt), or try a different manufacturer. To connect to the amplifier, a zone controller from AND, Atlas Sound, Barix, CyberData, or Valcom can be used via a 600-Ohm line level audio input.

In this design, it's important to determine the number of zones that you'd like to support. A single amplifier may represent a single zone when connecting a zone controller device. With this scenario, the zones are

logically separated by amplifiers and directly connected zone controllers. There are options for zone controller amplifiers from CyberData, in which the amplifier is built on-board and can power a number of analog speakers.

In Conclusion...

Scenario 1

You have: an existing analog telephone connection with DTMF zones

You need to: implement the Singlewire LPI

Purchase: licenses for the number of selectable zones

Scenario 2

You have: a single amplifier with no connection to the PBX

You need: an InformaCast-compliant zone controller with line level audio out

Purchase: a compatible device from Atlas Sound, AND, Barix, Cyberdata, or Valcom

Scenario 3

You have: a legacy public address system that is failing; you want to start fresh

You need to: contact the Singlewire sales team to discuss options and engage one of our IP speaker manufacturers. You have the option of using IP speakers or continuing with traditional analog systems. Singlewire can get you moving in the correct direction.

Take These Next Steps

Learn more:

View online videos, demonstrations, and technical documentation at www.singlewire.com

Get your questions answered:

Sign up for a personalized, one-on-one demo by scanning the QR code below

Try a solution for free:

Request a 30-day, free trial of InformaCast.



WATCH AN ONLINE DEMO

Use your mobile phone to scan this QR code or visit us online at:

www.singlewire.com/demo



Singlewire Software develops and supports innovative voice applications centered around secure, fast, and reliable mass notification capabilities. Our main offerings include: InformaCast Basic Paging, InformaCast Advanced Notification, InformaCast Mobile, PushToTalk, and CallAware. These applications allow our customers unprecedented control in designing mass notifications, assigning them to specific recipients, and determining the medium for dissemination—IP phones, IP speakers, email, etc.—all with the peerless capacity for customization to our customers' specific environments. Singlewire is devoted to maintaining the agility and imagination needed to fulfill our customers' needs and fostering an environment for successful partnerships between our customers and our company.