

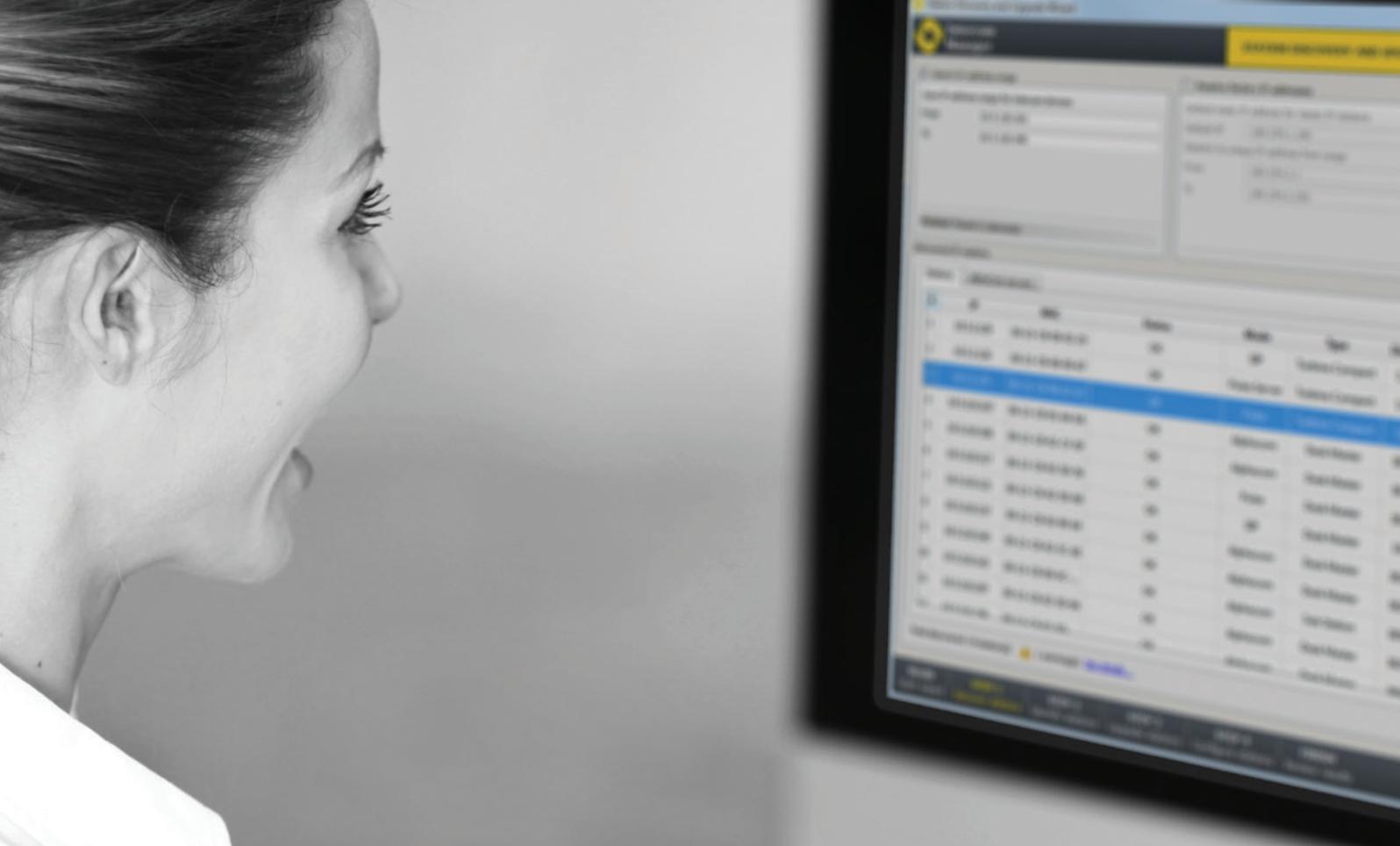
# VINGTOR STENTOFON

by ZENITEL GROUP



**BECAUSE**

when communication is critical



# IP INTERCOM & PA

**PULSE by Vingtor-Stentofon is a cost efficient solution for your small to medium sized communication requirements. The system allows for as few as two stations and is scalable up to 3000+ units exactly according to your needs.**

## PULSE SYSTEM DESCRIPTION

- Allows up to:
  - 64 stations per system
  - 10 VS-clients (PC)
  - 10 SIP-clients (e.g. VoIP App)
- Embedded Server, no additional server equipment required
- Dedicated Tool for Discovery, Upgrading, Configuration & Maintenance
- Automatic discovery of all Vingtor-Stentofon units
- System setup also possible using web browser in less than 10 minutes
- Stations support Active Noise Reduction
- Audio Messaging
- Group Call with Re-Call and Answer Function
- PULSE mode is available on all our IP Stations
- Wide range of special purpose intercom stations
- Open for SIP enabled 3rd party devices
- SIP Trunking to ISDN/GSM telephony gateways
- DTMF Support
- Support for dedicated PC Client (VS-Client)
- G711, G722 & G729 codec support
- SDK/API Support
- SCRIPTING (Use of Virtual IOs)
- Network up to 50 PULSE systems

# WHAT IS PULSE?

**PULSE takes a very unique approach towards Intercom and PA over IP. We provide you with the best of both worlds, by reducing hardware to a minimum, while keeping the benefits of a centralized system. There is no external server; instead, it is embedded in the station you choose to act as server.**

## SELF-CONTAINED

PULSE is a self-contained SIP platform with an embedded SIP server. It offers exceptional voice quality and many of the features and functions you would find on larger, more costly platforms.

## OPEN

PULSE uses your existing IP Network infrastructure and utilizes open standards including SIP, HTTP and XML, making it simple to integrate and expand with third-party systems.

## FREE ONBOARD

PULSE is available on all Vingtor-Stentofon IP Stations, including our special-purpose stations suitable for any environment.

## COST-SAVER

PULSE is a cost-saving technology. We distribute the computing power of a modern communication system over the units that you actually need. All other equipment is essentially an additional cost.

Other manufacturers might offer you the option to use a Virtual Intercom server as a method to reduce hardware costs. But there will always be hidden costs related to this – maintenance costs, upgrade patches, power consumption and, of course, a PC or Server to run it on.

## INTERCOM & PA

PULSE packs enough features to serve both your basic intercom and basic PA needs over IP.

## MORE THAN SERVERLESS P2P

Removing the server altogether also means removing central intelligence and management. By embedding the server, we make your job of configuring & maintaining the system a lot easier. It also allows us to add functionality that might otherwise be too cumbersome to set up.



# WHAT YOU GET, STRAIGHT OUT OF THE BOX ...

- ◀ **Feature-rich system**
- ◀ **Works on your existing PoE network**
- ◀ **Connect up to 16 Vingtor-Stentofon Units (or expand to 64, with a license)**

## WORKS WITH ALL OUR IP STATIONS

All our IP Stations support PULSE mode, right out-of-the-box. The station designated as the PULSE Server provides SIP server functions to the other stations in the system and optionally any third-party IP telephones and/or gateways. The integrated web management server provides centralized functions for system operation and maintenance. We offer a dedicated tool for Discovery, Upgrading, Configuration and Maintenance called Vingtor-Stentofon Intercom Management Tool (VS-IMT).

## INTELLIGIBLE AUDIO

It takes a combination of three core elements to provide intelligible audio: Hardware, Software and Mechanics.

Hardware components such as a 10W Class D amplifier, combined with a matching 10 W speaker provide exceptional audio levels. A die-cast aluminium frame, which is rigid enough to deal with exposure to vandalism and the elements of nature, also helps prevent audio from distorting. An anechoic speaker design allows a smooth flow of high volume sound. Combine this with software features including active noise reduction and automatic gain control, and you end up with crystal-clear audio, every time, any time, anywhere.

## VERSATILE & FLEXIBLE IP INTERCOM

PULSE offers much more than your basic 1-to-1 intercom. It is a versatile communication system suitable for all sorts of environments and provides



**“PULSE works right out of the box using your existing IP network infrastructure”**

a lot of value whether you are in an office or on a construction site. With features such as LUA and/or DTMF scripting, we make PULSE flexible and easy to integrate with.

## IP PA ON A BUDGET

PULSE offers everything you need to set up a basic IP Public Address system. Whether you're building a new system from scratch, or converting your legacy (analog) PA system to IP, we provide the tools to make it happen. In addition, PULSE packs some nice features such as Paging, Group Call, Re-Call and pre-recorded messaging. PULSE works right out of the box, using your existing IP network infrastructure.

# ... OR ADD EVEN MORE FUNCTIONALITY

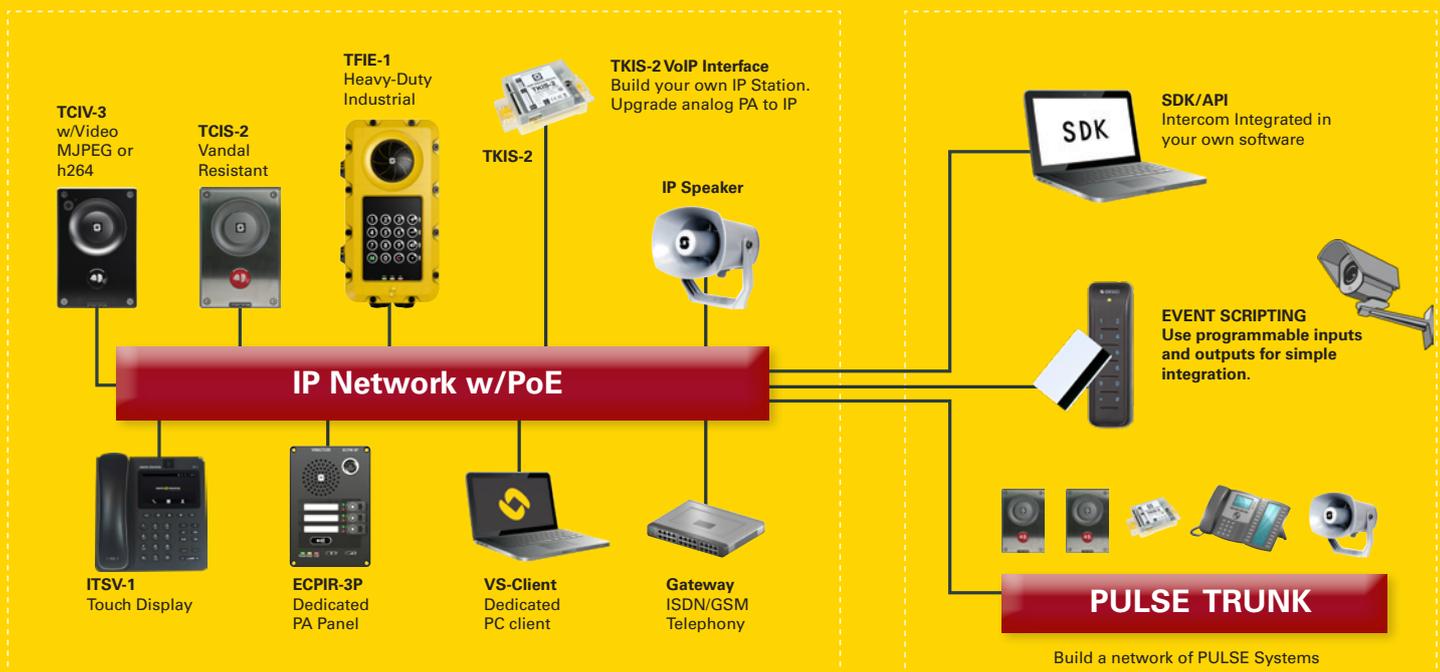
- ◀ Expand to 64 Vingtor-Stentofon units in one system
- ◀ Add a dedicated PC Client for Intercom and Paging
- ◀ Connect 3rd-Party SIP Clients and set up Telephone Gateways
- ◀ Integrate your software, with a dedicated SDK/API
- ◀ Build a network of up to 50 PULSE Systems, totaling 3200 units

## NETWORKING

Enable the Enterprise Package in your PULSE system to network (i.e., "Trunk") it to another Enterprise-enabled PULSE Server. This allows you to centralize and provide essential security and communication services to the most remote, and often unmanned, locations.

## DEDICATED SDK/API SOFTWARE

The PULSE Enterprise package offers an easy solution to build your own custom-made IP communication platform. Add intercom functionality to your existing software solution and tailor it to fit your requirements.



Enable additional features in your PULSE system through its easy-to-use license system.

# EASY SETUP & INSTALLATION

Setting up PULSE can be done by manually logging into each station and entering the settings or use our dedicated VS-IMT to discover, upgrade and configure the system. Our Intercom Management Tool (IMT) takes 5 seconds to discover and 5 minutes to configure 64 stations.

- ▶ EASY TO SET UP
- ▶ EASY TO EXPAND
- ▶ EASY TO MAINTAIN

## STEP 1

Choose stations for your project and connect them to a (PoE) LAN.



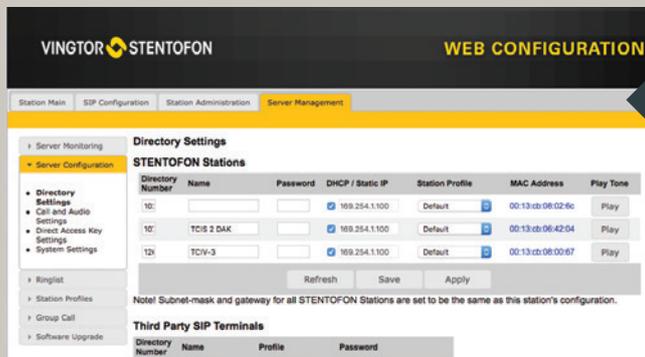
## STEP 2

Choose which unit will operate as the PULSE Server.



## STEP 3

Stations are automatically discovered. Configure them either via web interface and/or via our dedicated VS-IMT configuration tool



## STEP 4

Log in to the PULSE Server and enable the Enterprise package in order to use the SDK or setup a trunk to another (remote) PULSE system.

# A FUTURE-PROOF APPROACH

## KEEP YOUR OPTIONS OPEN

Vingtor-Stentofon provides three options for station use: SIP, PULSE and AlphaCom XE. Each option covers a specific demand in size and complexity, according to your system needs. Starting with a small system, you can add stations as necessary. No matter what your communication needs might be in the future, using our products will keep your options open.

	SIP	PULSE	AlphaCom XE
Max # of Stations	Depends on SIP system	64 in a single system	552 in a single system
Requires HW Server	Yes	No	Yes, AlphaCom XE
Call Queueing	Depends on SIP system	Basic	Advanced
Intercom Services	Depends on SIP system	Basic	Advanced
Error Reporting	Basic	Basic	Advanced
Conferencing	If SIP phone supports it	No	20 Open Duplex / 50 Push-to-talk
Networking	Depends on SIP system	Yes (max 50 systems)	Yes (max 254 systems)
System Integration	Depends on SIP system	SDK/API	SDK/API/OPC/
Scripting	Yes	Yes	Yes
Redundancy	Yes	No	Yes
Audio Messaging	Yes	Yes	Yes
Analog Intercom	No	No	Yes
Auto-Attendant	Depends on SIP system	No	Yes
Voice Support Call Guidance	No	No	Yes
Monitoring & Logging	SNMP trap, SNMP MIB, syslog	SNMP trap, SNMP MIB	SNMP trap, SNMP MIB, syslog, Web, e-mail, SQLite

# FLEXIBLE TECHNOLOGY, FLEXIBLE CHOICES

Here are some of the many products we offer:



## TKIE-2

This little box allows you to build your own dedicated intercom station. It is also very popular as a VoIP Interface to analog Public Address and Radio Systems. It has two ethernet ports, so you can daisy chain it to another IP device to reduce cabling costs.



## ELSII-10H

We have been offering IP PoE speakers for over 7 years. Our latest generation of Exigo Horn speakers uses the same technology as our Turbine stations to provide excellent audio using a 10W Class D Amplifier.



## TCIV-3

Our most popular station series to date is now available with Video. The TCIV-3 station adds a video component to the crystal-clear audio quality the Vingtor-Stentofon product line is known for.



## ECPIR-3P

This is our dedicated IP PA Call Panel. The simple, yet smart design makes this unit ideal for very cost-efficient IP Public Address Systems. It offers 3 pre-programmable buttons and a PTT button.



## ITSV-1

This Android-based IP Touch Screen master station offers HD video, Wi-Fi and Bluetooth for a better user experience. The ITSV-1 unit provided by us will register in PULSE without the need of a SIP station license.

[www.zenitel.com](http://www.zenitel.com)