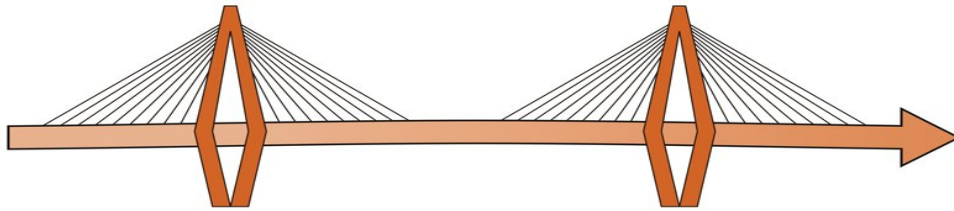


The Zonith Road to all Alarm Systems



Taking Everything to TETRA Alarm Control System

What is a Listener?

Listeners are 'translators' between an alarm notification system and the TETRA Alarm Control System. They simply transform the 'language' of the different alarm notification systems to a language the TETRA Alarm Control System can use. This secures that TETRA Alarm Control System stays a solid standard product, no matter what alarm systems it may be dealing with. It does not have to be modified - it just needs the right listener.

Listeners also have a safety purpose. If the TETRA Alarm Control System is being restarted or is down - it is the listeners which collect the alarms and transmit them to the TETRA Alarm Control System as soon as it is online again.

Listeners have a heart beat functionality, which TETRA Alarm Control System monitors. If a listener is off-line for some reason TETRA Alarm Control System issues an alarm.

In this way the listeners and the TETRA Alarm Control System watch out for each other.

**Zonith Listeners**

- ▶ IBM Director
- ▶ MOM 2005
- ▶ SCOM 2007
- ▶ POP3 listener
- ▶ SMS listener
- ▶ SDS listener
- ▶ Command line listener (NMS)
- ▶ SMTP listener
- ▶ Jablotron listener
- ▶ JDBC listener
- ▶ RTCU listener
- ▶ CA UniCentre

A Wide Range of Listeners

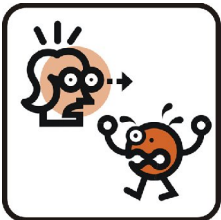
There are numerous listeners with different abilities. On the back of this page we will describe some of the most important in terms of present use and future potential.

The Zonith Road to all Alarm Systems

SMTP: E-mail Listener

An SMTP listener 'listens' to local SMTP-servers (e-mail server). It receives mails from a production system or panic button, and alarms are raised when an e-mail contains an alarm text. The TETRA Alarm Control System alerts relevant personnel on their radio terminals.

This listener is an important part of Zonith's Unemployment Center solutions in which panic buttons sends mails to the SMTP-listener, with the location of the alarm. Approximately a second after the panic-button is pressed the guards receive the alarm text on their radio terminals.

**SDS/SMS-listeners**

These listeners listens to the TETRA and GSM text formats, SDS and SMS. This is used when the TETRA Telemetry Unit is connected to a radio instead of being hard wired to the TETRA Alarm Control System. The TETRA Telemetry Unit communicates its alarms through this listener to the TETRA Alarm Control System.

The SDS Listener is used in the paper plant, Skärblacka, where some technical installations are very remote. The TETRA Telemetry Unit enables monitoring and control of these installations raising alarms by SDS if necessary.

**OPC: Process Automation Listener**

OPC is a process control communication standard. OPC is widely used by large manufacturers for communication between controls, process monitoring and alarms. The OPC listener can 'listen' to thousands of alarms and controls in the OPC system. All you have to do is select the alarms, which the TETRA Alarm Control System needs to handle.

This listener is used in the Swedish paper plant, Skärblacka, a large plant with many alarms.

RTCU: TETRA Telemetry Unit-Listener

The RTCU-listener is the direct line between a TETRA Telemetry Unit and the TETRA Alarm Control System. This listener is used if the TETRA Telemetry Unit and the TETRA Alarm Control System is connected by hard wire.

This solution is used in oil platforms in the off-shore business.

112 via Alarmnet: 112 Alarm Call Listener

When a 112 (European Standard Emergency Phone) alarm central has an incoming call, the operator writes all the given information on the computer. This specific listener automatically transmits the information directly to the radio terminals of the emergency personnel at the appropriate location.

This listener has been developed and will soon be used in the Danish 112 emergency services.

ASCII: General Text Listener

This future listener can listen in on RS232-connections (wire connections between computers), printer outputs and files. If any of the text has been pre-configured as an alarm the TETRA Alarm Control System is notified.

This listener is still under development but it should be ready for use in late 2008.