SIREN

version 2.1

Alert transmission ... Call follow-up ...

Siren is an alert transmission system that is capable of calling in a very short time a lot of persons or administrative organizations that are concerned by the alert.

Alert triggering can be manually produced by an operator (“emergency button”) or automatically by an external control system.

The right processing of calls and interventions can be controlled in real time from any **Siren** client station. A synthesis report can be printed at the end of the alert procedure.

Main functionalities

- Precise call follow up.
- Schedule management by group or person.
- Advanced configuration of the call scenarios with use of conditions according to external data or scripts.
- Communication with external systems thanks to a database allowing different protocols (OPC, DDE, ODBC, Modbus…).
- User interface completely configurable which can integrate dynamic data and commands.
- Client/server architecture allowing to configure **Siren** and to follow the progress of the alert from another station
- Completely configurable In and out vocal server .

Siren transmits alert information using the most modern media technologies :

√ **Telephone (fixed ou mobile)**
The persons called by the vocal server integrated in **Siren**, can listen to the issued alert message and acknowledge the intervention demand.

√ **Short messages (SMS), public paging systems**
To alert operators working off site sending them a written message on their handy or pager.

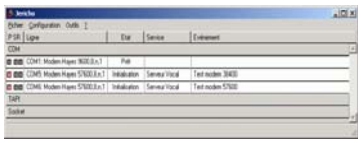
√ **On-site paging systems**
To directly alert maintenance operators working on site on their beepers.

√ **Fax, email**
The public organisms can be automatically warned by fax or email.

Configuration of the Alert system

Communication

The treatment of the calls and communication with the alerted persons is set out by the **Jericho** module which is included in the **Siren** solution. The modems and parameters of these different communication drivers (email, fax, beep, vocal, alphapage, SMS…) are configured in this module. **Jericho** can call several persons simultaneously and manages a call queue with automatic recall in case of failure.

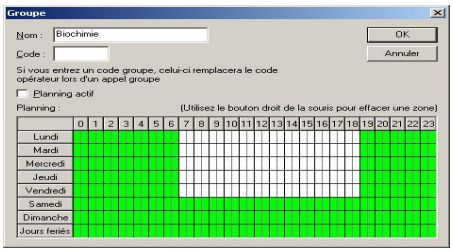


Configuration of operators

This configuration is made thanks to **Siren** configuration interface. This one presents the different elements which need to be defined under the form of a tree list: persons, groups and scenarios.

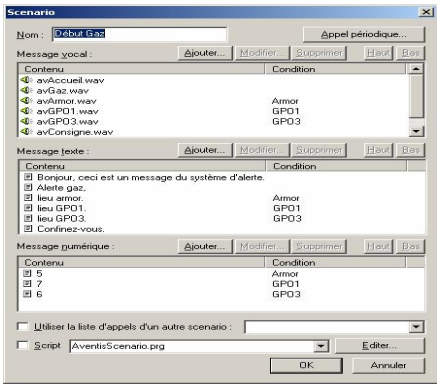
For each person it is possible to define its name, place, one or several means to join this person (telephone, beep, email…) and possibly a schedule stipulating the availability of each of these means.

You can then create groups and sub-groups to organize the schedule of each person so as to facilitate the configuration of the calling scenarios. For each of these groups, it is also possible to define an availability schedule. Thus, you can create day and night groups.



Calling scenarios

The calling scenario enables to describe the progress of an alert, that is to say the persons who should be called, the order which should be respected when calling the persons and the messages which should be delivered to them. All the elements of the scenario can be dynamic, that is to say that they can depend on external variables. For each person or group which need to be contacted, you can stipulate a condition under the form of an expression which can include variables from the database. Following the same principle, the message is made up with bits of text or wave files, and each bit can be included or excluded according the result of an expression. If it is not necessary, it is possible to execute a personalized script when an alert is triggered which defines the persons and groups which need to be called and the messages which should be consequently delivered.



Vocal server

For the vocal calls which are received or sent out, the Jericho module integrates a vocal server which is completely configurable using scripts. You can for instance ask an operator to press a special key or to compose a special code to acknowledge the call. It is also possible to supply dynamic information coming from the database thanks to the vocal synthesis or allow sending of commands. It is also possible, using the same principle, to trigger or stop an alert by telephone.

Using the Alert system

Alert triggering

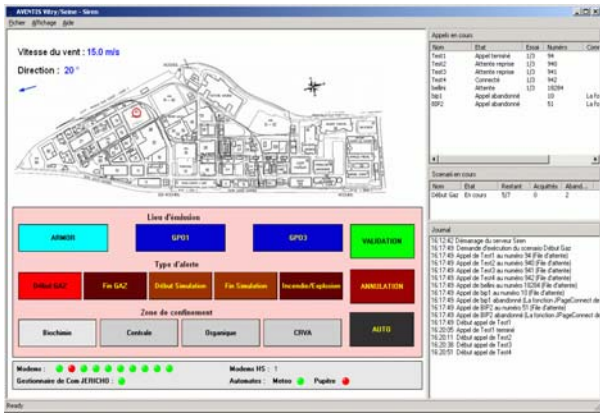
The triggering of a scenario is determined by the changing of value of a variable in the database. The triggering can come from one of these sources:

- **Siren** operating interface, locally or from a station on the network
- OPC client (industrial process supervisor for instance
- External data source managed by the database: OPC, DDE, ODBC, Modbus (control desk, …)
- Telephone call via **Jericho** vocal server

Operating interface

Siren operating interface is made of 4 panels . The first panel is a synoptic which can contain static or dynamic elements (text, images) and commands (buttons, images). These commands enable to trigger or stop a script, to change a synoptic or to command a variable in the database.

The second panel displays the list of current calls with their status and the number of trials.



The third panel indicates the status of the current scenarios with the total number of calls, the number of remaining calls, the number of acknowledged calls and the number of

The last panel displayed the event log of the **Siren** server. This event log offers a detailed presentation of the progress of the scenario with the beginning and the end of the calling hour, the delivered messages and all the errors that can occurred.

Synoptic edition

The synoptics displayed in the operation interface are created and modified thanks to the integrated graphical editor. This editor enables to create one or several synoptics and to insert different elements thanks to a tool palette (image, text, variables coming from the base, command buttons…)

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