STEBATEC ®

Measure - Control - Regulate

End of the analog telephone system in Switzerland

With STEBalarm, the towns of Biel, Burgdorf and Grenchen opt for most advanced data communication

- Futureproof, sustainable and 4G-based solution
- Modular solutions for any parameterization
- Compatibility also with older controls

Michael Etter of the road supervisory authority of the town of Biel in the pumping station on Renferstrasse, that is equipped with STEBalarm.

Starting situation

With the long-announced end of analog telephony in Switzerland by the end of 2017, many owners of alarm systems were looking for new solutions. As cases in point, the towns of Biel, Burgdorf and Grenchen operated storm water basins or pumping stations with alarm solutions based on the landline system or the second-generation (2G) mobile system. A simple switch-over to the new digital landline system was not practicable because that system is not maintained in case of a power outage. Besides, the 2G technology will also not be available in Switzerland from 2020. The transfer to the currently most modern 4G technology seemed the only viable solution for a sustainably reliable alarm system. The first job, therefore was to evaluate the best systems in terms of functions and possibilities.

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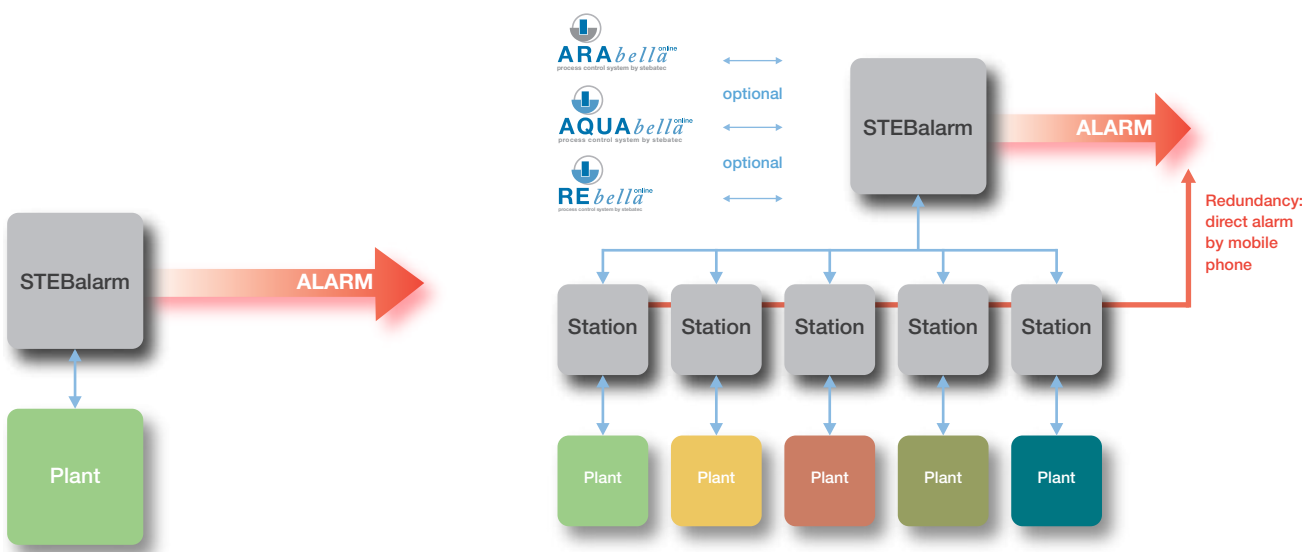
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Requirement

- Reliable alarm system also during a power failure
- Installation of available controls in outdoor structures
- Expandable, to ensure long-term solution
- As far as possible, extensive and free-programmable functions

Implementation

The three towns all decided for the STEBalarm system even if they favored different configurations. Grenchen, in view of the more modest requirements, voted for a lower-priced stand-alone solution without linkup to a higher-level system whereas Biel and Burgdorf chose the more comfortable solution with a head station. The head station monitors all outdoor structures and triggers the alarm. If the link with the head station is interrupted, each structure itself can also trigger an alarm. Besides, the alarms can be managed comfortably via a web-based browser system or optionally via the SCADA system. Whether with or without head station, STEBalarm has decisive advantages when compared with the old alarm systems: Alarms can be prioritized so that those on call need not turn out to attend trifles. The alarm messages are received as individually configurable clear text and not only as group alarm so that the duty person understands the situation at a glance. Another major advantage is the high compatibility of the system: STEBalarm can be

Stand-alone solution: Every station can be used alone and supports all functions.

In the local system version, a head station monitors the connected outdoor stations, which are also configured centrally. Link-up with a SCADA system from STEBATEC is possible.

retrofitted to older control systems, and further alarms can be integrated. The modular design of the system permits extensions and additions at any time..

The STEBalarm hardware comprises a landline modem, an Ethernet switch, a mobile modem up to and with 4G, a router as well as a firewall.