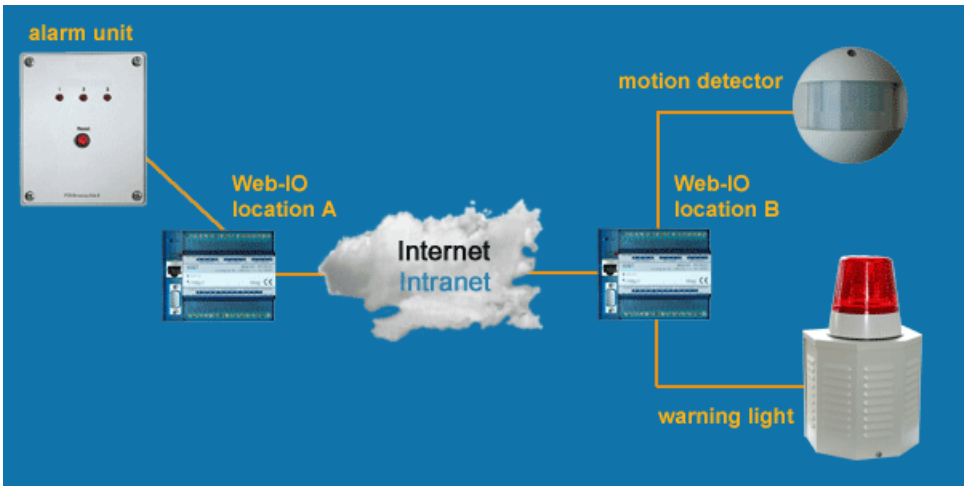
Application for the Web-IO Digital:

Bridging distances

Tunneling signals of an alarm system through the network



Definition of tasks

A company has two business locations in a town. The main business location accommodates the administration and central warehouse. For protection against burglary, motion detectors which are all connected to a central alarm system are installed on a wide scale. The production is located at the second business location and this is linked IT-technically to the main location via a WAN connection.

On the second business location too, motion detectors are to be installed which must also be connected with the central alarm system. In the event of an alarm, a warning light and a horn are to be switched on.

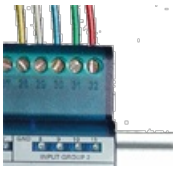
In order to save the costs of a dedicated line, the signals must also be carried via the existing WAN link.

The solution

A Web-IO 12+12 digital was employed at each business location. The two Web-IOs were connected by box-to-box mode in such a way that changes on the inputs of Web-IO A automatically update the outputs of Web-IO B - and that in both directions.

The motion detectors were connected to the inputs of Web-IO B and the warning light was connected to an output. The inputs and outputs of Web-IO A were connected with the alarm unit.

The details

1. At business location A, the digital outputs of one of the Web-IOs were connected with the alarm unit. At business location B, the motion detectors and the warning light were connected to the Web-IO.	
2. The Web-IO was plugged into a free Ethernet port and connected to a power supply.	
3. The Web-IO was assigned an IP address.	
4. Via the browser, the two Web-IOs were configured in box-to-box mode.	

In box-to-box mode, digital signals can be tunneled through the network across the business locations - if the network infrastructure permits this, then worldwide.

We are available to you in person:

Wiesemann & Theis GmbH
Porschestr. 12
42279 Wuppertal
Phone: +49 202/2680-110 (Mon.-Fri. 8 a.m. to 5 p.m.)
Fax: +49 202/2680-265
info@wut.de

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