

# CG APPLICATIONS

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**Application Note :** April 19<sup>th</sup> 2006

**Market involved :** Shopping Malls

**Product :** PowerSoft Base; Alarm, Mail and Billing Modules; VCP-DIN ; EM4-DIN (10A)

**Customer :** Eng. companies / System Integrators

**Subject :** Energy and Water cost splitting

## CUSTOMER ISSUE :

In a shopping mall, energy and water can be purchased on more favourable terms if the contract is relevant to the whole building and the cost is splitted according to the actual consumption of each user.

All the utility consumptions are therefore to be controlled in order to perform the right splitting.

## OUR SOLUTION:

PowerSoft stores the consumptions of energy and water acquiring the information from 40 EM4-DIN.

The software allows, through the cost estimation module, the printing of a monthly "customised" bill for each owner. The instruments are grouped in 3 control gears, one per each building of the mall. In each gear, an RS485 network is realised to link the meters and each network is connected to the software exploiting the existing LAN - the same which is also used for other services. The E-mail module automatically transmits to the involved staff (the electricians who got the maintenance contract and who are located in different places) any alarm condition detected by PowerSoft, indicating the alarm type, the source, the location, including the plant history immediately preceding the event, in order to grant a prompt and specific intervention.

## ACHIEVED BENEFITS:

The needs of a dedicated RS485 cabling is limited to each single control gear, since the LAN is exploited to reach the PC where PowerSoft is running.

A customised billing is possible without any manual reading nor calculation.

The use of EM4-DIN allows the presence of a unique instrument for the electrical measurement and for the collection of the water consumptions data, saving money and space.

