

Hotel heating optimization

Hotel Patria - SK

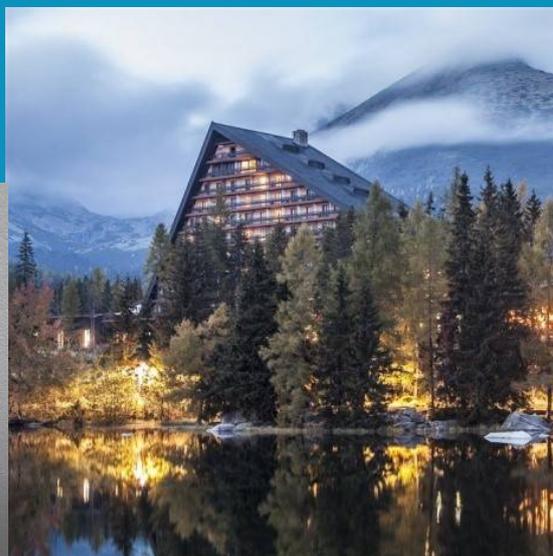
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Established: 2003

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1

reservation system
controlling
heating

9

floors with rooms
in a hotel
controlled

over

180

electronic digital
thermostatic
heads installed



The Idea

The main goal of Austyn International was to optimize the heating system and reduce costs in hotel Patria in Slovakia.

An original solution used hot-water radiators in individual rooms with thermostatic heads. Room temperature was regulated by guests or by hotel staff. There was a frequent uneconomical heat wasting.



The Solution

- The smart heating system consists of
- 1) electronic digital radio MAG RA heads based on the IQRF wireless technology, equipped with protective covers
 - 2) gateways in the technical room of each floor
 - 3) a control software of the heating system connected to the existing hotel booking system



The Results

Control of heating regulation is fully automated for hotel staff. The control system optimizes the temperature in rooms based on information about arrival or departure acquired from booking system. The head is automatically activated in case of guests' arrival and turned back to standby mode at the departure.



The IQRF Benefits

The smart heads communicate in IQRF wireless mesh network with the control system reliably. They are powered by batteries. No cabling or other building modifications are necessary. A new functionality of open windows detecting can be added to the heating system as well as other environmental sensors to the common network.