COPA-DATA do it your way R & D PROJECTS

ROFCO

Robust Facility Communication

Research & Development for next generation in-building communication infrastructure

CHALLENGE

Today's situation of in-building ICT (information and communication technologies) infrastructures can be characterized by heterogeneous islands of information and standalone applications. Systems have become even more complex; at the same time, the dependencies with manufacturers are increasing and it is virtually impossible for customers to switch suppliers and/or integrate applications or services from other vendors.

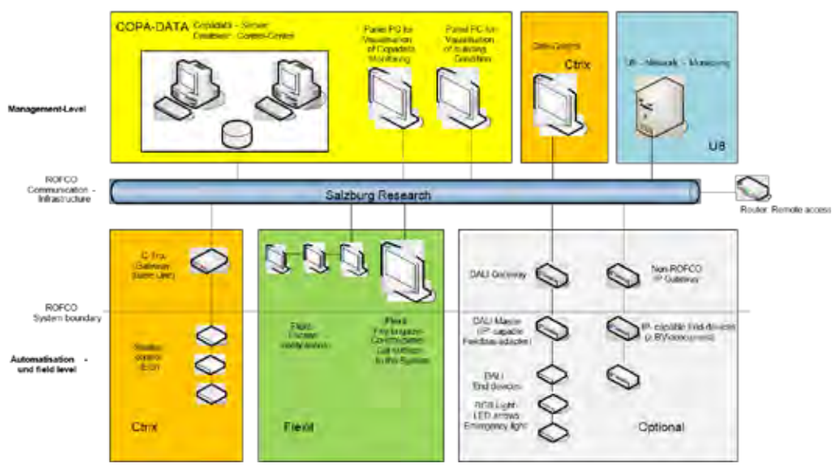
ROFCO brings together research partners (Salzburg Research's Advanced Networking Center (ANC) group with a proven track record in network communications; the VRVIS competence center as experts in visualization) and industrial partners with backgrounds in networking (Underground8), in-building communication infrastructure (COPA-DATA, Flexit), facility control (cTrixs). Additionally a partner from legislation and standardization (Prüfstelle für Brandschutztechnik) will support the consortium with its expertise. By bringing IP technology to the new application domain of in-house communication, the participating companies benefit not only from existing know-how in IP technologies, but also from easy integration of 3rd party products and services.

OBJECTIVE

ROFCO's main objective is thus to develop the next generation in-building communication infrastructure, which will be All-IP-based. This next generation infrastructure will be application independent, i.e. different applications can use the heterogeneous physical network infrastructure: The IP layer offers a unified network service ("IP over All"), which will be used by all applications ("All over IP"). This allows also the migration of existing installations towards the All-IP infrastructure by gateways. Initially IP was developed for robust wide area communications. The "robustness" based on simplicity was the key factor for its wide usage.

INNOVATION GOALS

From company perspective, ROFCO aims to enable new products within the building automation area by providing an in-building communication infrastructure, which fullfills the requirements for future products and services (and thus guaranteeing the desired sustainability).



Architecture ROFCO Prototype

PROJECT OVERVIEW

INSTITUTION

Salzburg Research
Ing.Punzenberger COPA-DATA GmbH
Flexit Group GmbH
Underground_8-secure computingGmbH
University of Technology Cottbus-Senftenberg
VRV Center for Virtual Reality Cottbus
cTrixs International GmbH

TYPE OF PROJECT

Type of project: FFG Coin Research project, Period: 2009-2011

WANT TO KNOW MORE

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