

## Software-hardware complex for lightning system management

### Customer

A corporation providing solutions for lightning management in dwelling houses, business and industrial buildings.

### Aim

The main aim of the soft hardware complex is to control the lightning parameters in the premises. Another task is the handling of the preset settings (storing, restoration, correlation to days of a week, holidays, etc). We realized the software part of the complex.

The places of installation: living quarters, hotels, restaurant complexes, offices, hospitals, etc.

### Solution

After analyzing the existing part of the system it was decided to develop the system on basis of the existing code. As it often happens, there was practically no documentation provided by the customer. Only poorly documented code and some explanations of the program work logics were available.

During the work at the program many functional improvements were developed:

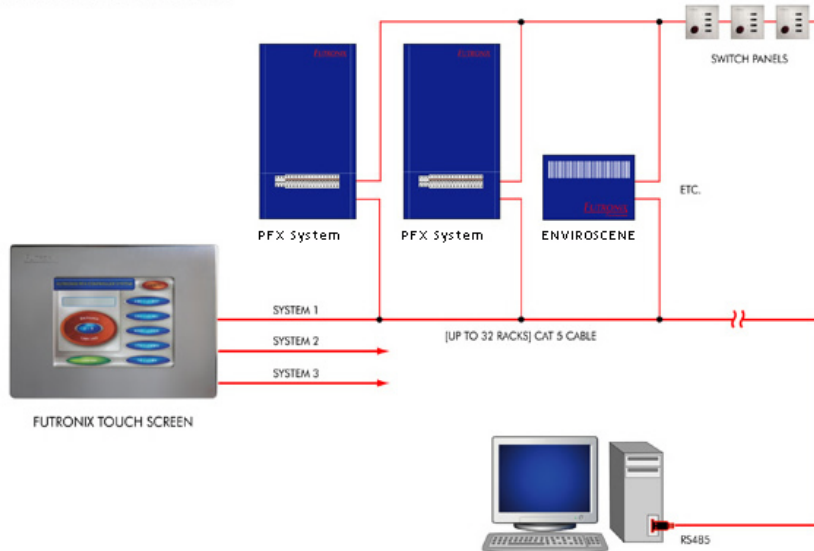
- The structural code representation was improved.
- Buttons pressing handling and parameters downloading were improved.
- Program menu representation was improved.
- The algorithm of loading/forming the scenes names was optimized.
- Using a modern OS (Windows CE).
- The volume of graphics was sufficiently reduced (from 23Mb to 8Mb).
- Switching to using a higher screen resolution (from 320x240 to 640x480 and 800x600).
- The structure of storing graphic files was improved.
- The function of automatic loading was added.

### Basic functions

- Users authorization and separation of access rights.
- Timer management.
- Zones management.
- Scenes management.
- Settings management.

## Screenshots

HOME-ICON COLOUR TFT TOUCH SCREEN  
SCHEMATIC INTERCONNECTION



## Technologies

VisualStudio 2005, Windows CE 4.2, Windows CE 5.0, Asm, C++, RS-232(com-port), RS-485

## Product Title

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## Project Capacity

24 man-months