Helvar

BMS & OPC Server Information

- With Helvar 910 & 920
- OPC server plugin
- Data Access V3
- Data Queries
- Control Commands
- Verification Commands

Overview

A building management system (BMS) is generally used to interconnect a number of building services or systems centrally to a head end PC that provides the facilities manager with the ability to monitor or control these systems within the building or complex.

The systems could include heating and ventilation (HVAC), fire alarms, security access, lift and pump rooms and of course lighting. Each system would typically run autonomously without the need for the head end PC to be present but would give the ability for the head end PC to extract and use some of its information and provide limited control.

A typical example would be a lamp failure message within the lighting control system being displayed via the head end, thereby informing the facilities manager in real time that an issue exists, that can subsequently be responded to by the maintenance personnel.

A sensor on the lighting system could be monitored in respect to its status and then used to trigger an event in a different system such as the HVAC. This could then reduce the requirement for a number of different sensors being fitted to perform similar tasks.

Functions

The link to the lighting system is provided by a OPC server which provides a soft link from the OPC client to the OPC server in Helvar Designer. For the interaction to occur between the two systems the OPC client must conform to Data Access V3 to which the server is designed as specified by the governing body.

The OPC client software provides a visualisation of the extracted information and can issue any control commands to the system. The display configuration and the information that is shown would be determined by the end user.

Available commands & queries

Scene recall and scene recall CL (with constant light) - write only
Show last scene in block selected - read only
Device missing status - read only
Device default name - read only
Device output level - read and write (where supported by device)
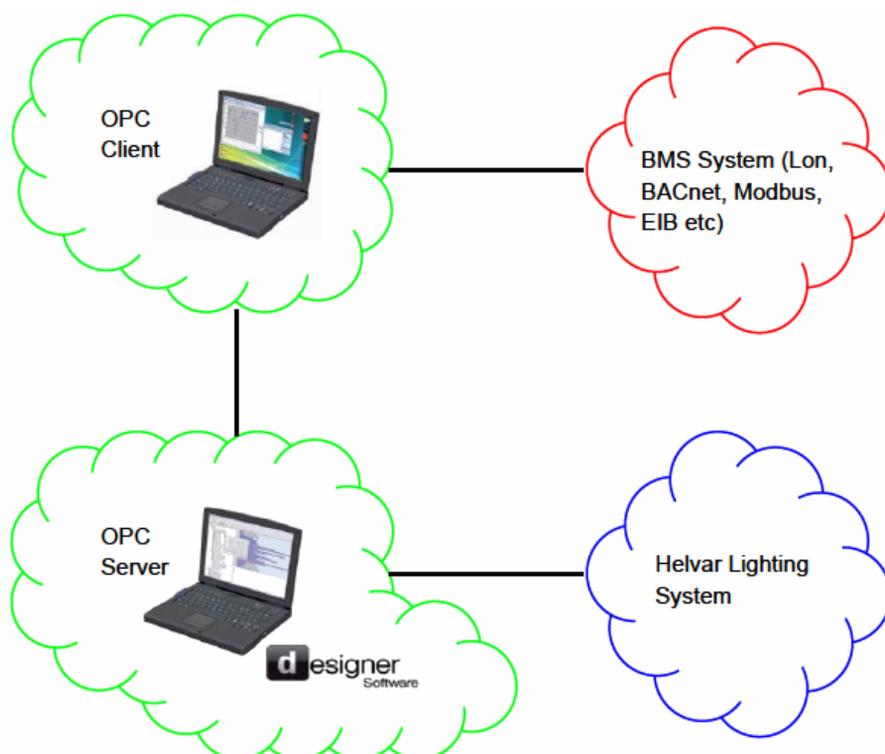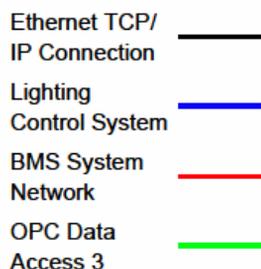Device supply frequency and voltage - read only (where supported by device)
Device temperature and load current - read only (where supported by device)
Designer software version, online & live connection status (read only).
Heartbeat or connection indicator (read only).

Control Flow

Legend:
- Ethernet TCP/ IP Connection — black
- Lighting Control System — blue
- BMS System Network — red
- OPC Data Access 3 — green

OPC Client
BMS System (Lon, BACnet, Modbus, EIB etc)
OPC Server
designer Software
Helvar Lighting System

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Due to a policy of continuous improvement, Helvar reserve the right to alter specifications without notice at any time.

Helvar

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