Service description

Monitor and Control Garage Protocol (MCGP) provide a manage mechanism for users, user can monitor and control his garage through the services defined by the protocol. MCGP provide communication specification for applications, it is a protocol that defined at the application layer of TCP/IP suites. MCGP uses TCP as its transport layer protocol in order to have secure and stable connection. It adopts client-server mode and provide safety mechanism, the mechanism is based by user authentication which is realized by message signing via public-private key and embedding hash-signature in PDU.

After the client pass server’s authentication, user can have a remote connection with his garage. Application that follows MCGP will provide two kinds of services for users. First is monitor service, server may connect to many digital devices in the garage such as thermometer, barometer and hygrometer, user can watch various environment parameters through the client. Second is control service, user can remotely control the door of the garage or the light inside it through client. Figure 1 is the schematic diagram of the MCGP.

Figure 1.

