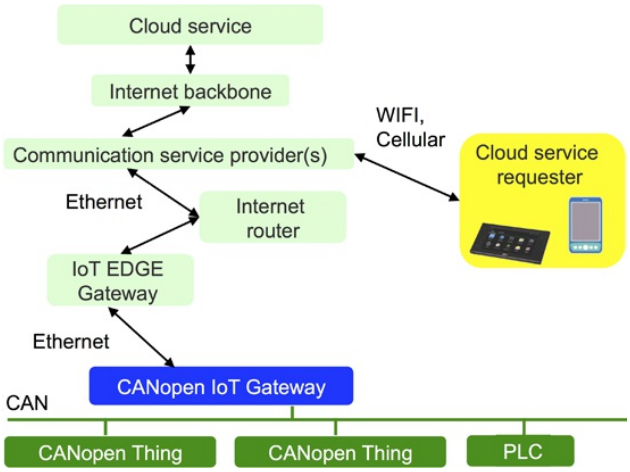
CAN Newsletter Online

CIA SPECIFICATIONS

CiA 309 series extended

CiA has updated Part 1 and Part 3 of its CiA 309 series of CANopen remote access specifications. New is Part 5 specifying HTTP Restful and Websocket protocols to manage TCP/CANopen gateways and to control CANopen networks remotely.



Part 5 of the CiA 309 specifies the remote access via Internet protocols (Source: CiA)

Originally, the Modbus consortium initiated the CiA 309 series. Part 1 describes the remote access services and Part 2 specifies the Modbus-TCP protocols implementing these services. Part 3 standardizes a generic ASCII-based protocol. Part 4 was developed jointly with Profibus International providing a mapping of the remote access services on ProfinetIO. The new Part 5 features HTTO Restful and CANsocket protocols to configure the gateway and to control the connected CANopen networks.

The updated Part 1 provides now also configuration functions for the gateway. The ASCII protocols have been also extended to allow managing the gateway. Part 5 specifies the mapping of Part 1 services to Restful HTTP and Websocket protocols. This part supports both physical and logical addressing of CANopen devices. Representational state transfer (Rest) is a software architectural style that specifies a set of constraints to be used for creating Web services, also known as Restful services. Websocket is a protocol, providing full-duplex communication channels over a single TCP connection.

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