Transmitting Classical CAN and CAN FD data to the cloud

HMS Industrial Networks now presented Service Pack 1 (SP1) for the Ixxat CANbridge NT and CAN@net NT. This includes added features such as configurable and event-triggered Action Rules, and straight-forward cloud connectivity via MQTT.

(Photo: HMS)

SP1 introduced Action Rules for CANbridge NT and CAN@net NT, allowing users to define a variety of actions to be performed automatically in response to received messages or device/CAN status events. For example, messages can be triggered to be sent on Classical CAN, CAN FD or MQTT, device settings can be changed, and LED indications can be switched. The Action Rules are created in the Windows-based configuration tool through intuitive drop-down menus for events and actions.

The MQTT connectivity of CAN@net NT enables information such as device status or Classical CAN/CAN FD data to be transmitted to the cloud. The configuration is done by the user in the Action Rules lists. By using free available broker services and Apps, the user can then transmit status messages and system values for presentation in smartphones or other devices.

Included with all new devices, the SP1 also includes other features, such as adapted filter masks for J1939 message filtering and device security enhancements. Customers who already use the products can download the SP1 for free from the Ixxat website, and upgrade the product using the USB interface and the included Windows-based configuration tool.

CANbridge NT and CAN@net NT enable up to four Classical CAN and/or CAN FD systems to be coupled. Powerful filter rules, ID translation, data mapping, and multiplexing capabilities are available for data exchange and are configured through a Windows tool. Due to its additional Ethernet interface, up to four CAN@net NT can be coupled via Ethernet, allowing up to 16 Classical CAN/CAN FD systems to be networked. Besides the bridging functionality, CAN@net NT also offers a PC interface and a gateway operating mode, enabling users to access their Classical CAN/CAN FD systems using a PC or embedded system.

cw