Sparkplug NCMD or DCMD workflow using MQTT Modules

This is the Sparkplug command workflow when using MQTT Engine and MQTT Transmission:

- 1. On a Sparkplug edge client (MQTT Transmission) connection subscriptions are made for
 - spBv1.0/GroupId/NCMD/EdgeNodeId
 - spBv1.0/GroupId/DCMD/EdgeNodeId/#
- 2. A write to an MQTT Engine tag generates a CMD message (either DCMD or NCMD depending on the Ignition folder tag hierarchy) encapsulating the tag write

 Block Node commands and/or Block Device Commands must be disabled in the MQTT Engine configuration
- 3. The CMD message is published to the appropriate Sparkplug edge client
- 4. The Sparkplug edge client (MQTT Transmission) receives the CMD message and decodes the payload
 - Block Commands must be disabled in the MQTT Transmission transmitter configuration
- 5. MQTT Transmission writes the tag on the Ignition edge gateway which results in two actions:
 - · A write to the associated PLC via the Ignition OPC-US Server and associated driver if the tag is an OPC tag
 - Publish of a Sparkplug DATA message with the value change for the appropriate metric name
- 6. MQTT Engine decodes the published Sparkplug DATA message and updates the appropriate tag under the MQTT Engine tag provider