

DHCPv6 options for MQTT client configuration
draft-nalluri-dhc-dhcpv6-mqtt-config-options-00

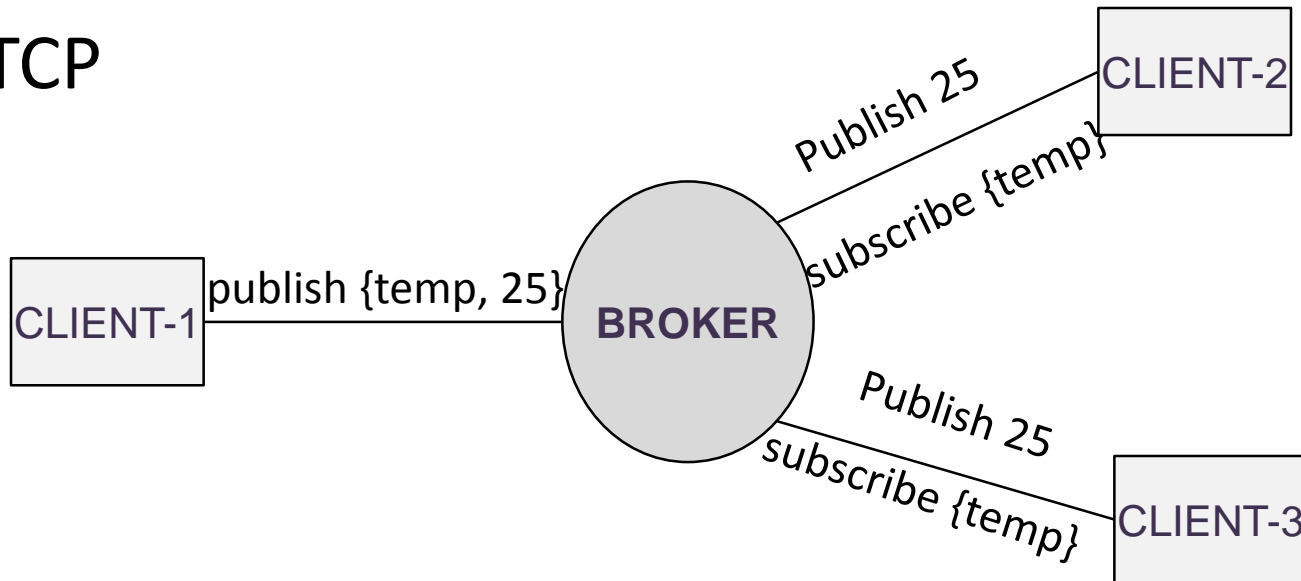
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Context

- Internet of Things
- MQTT is not new but regaining popularity in IoT scenarios
- DHCPv6 remain popular in IoT networks
- Need support for more options to enable IoT services on MQTT devices

MQTT - Message Queuing Telemetry Transport

- Defined in **OASIS**
- Event based reporting
- On TCP



Subscribe to topic "temp"

Publish to topic "temp"

MQTT topic



- myhome/groundfloor/livingroom/temperature
- USA/California/SanFrancisco/SiliconValley
- 5ff4a2ce-e485-40f4-826c-b1a5d81be9b6/status
- Germany/Bavaria/car/2382340923453/latitude

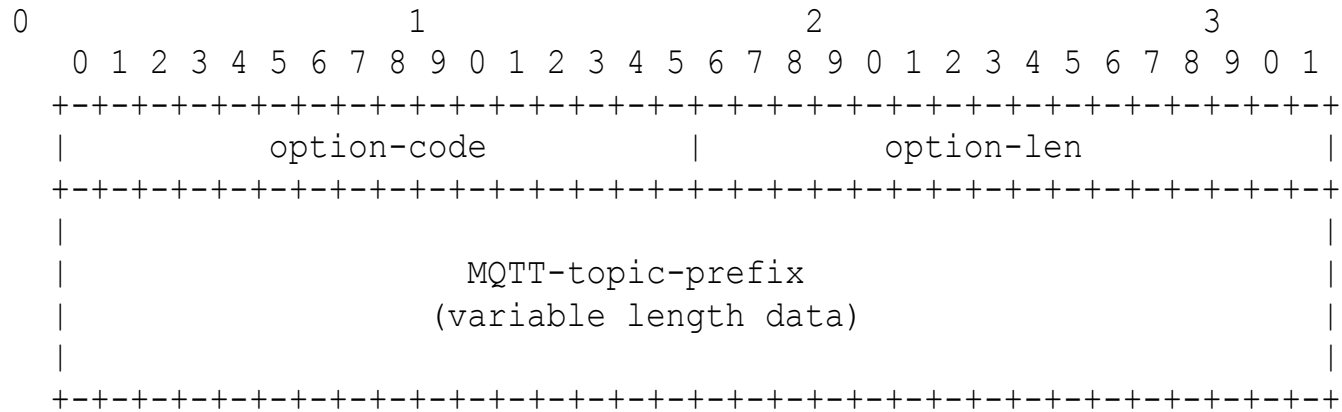
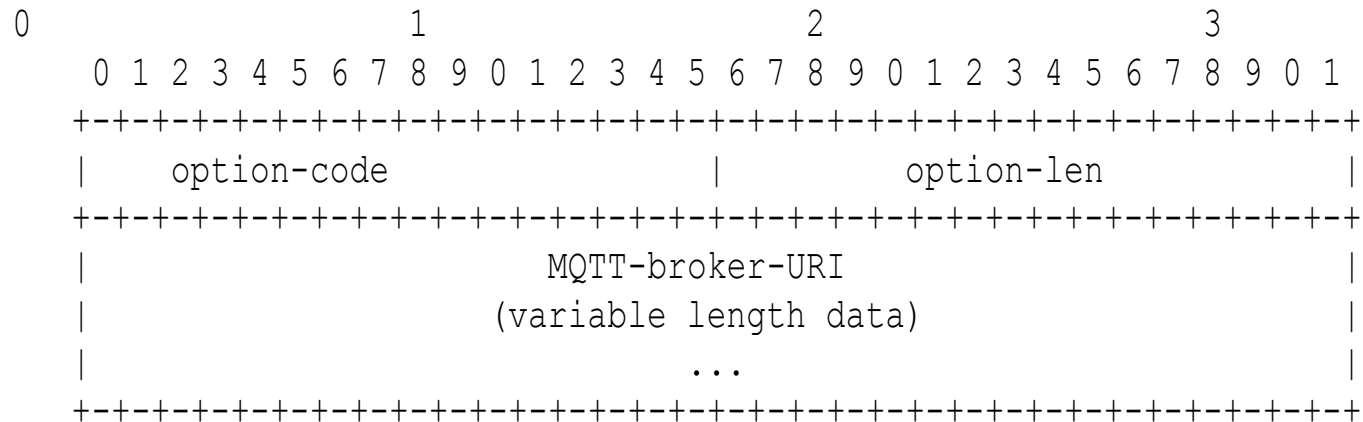
Problem statement

- Vendors are hardcoding MQTT broker information
 - Need to be dynamic
- No guideline to manage topic space
 - Topic clash resulting in wrong data reporting
 - There is need
 - To control and manage topic space
 - Centralize topic space management

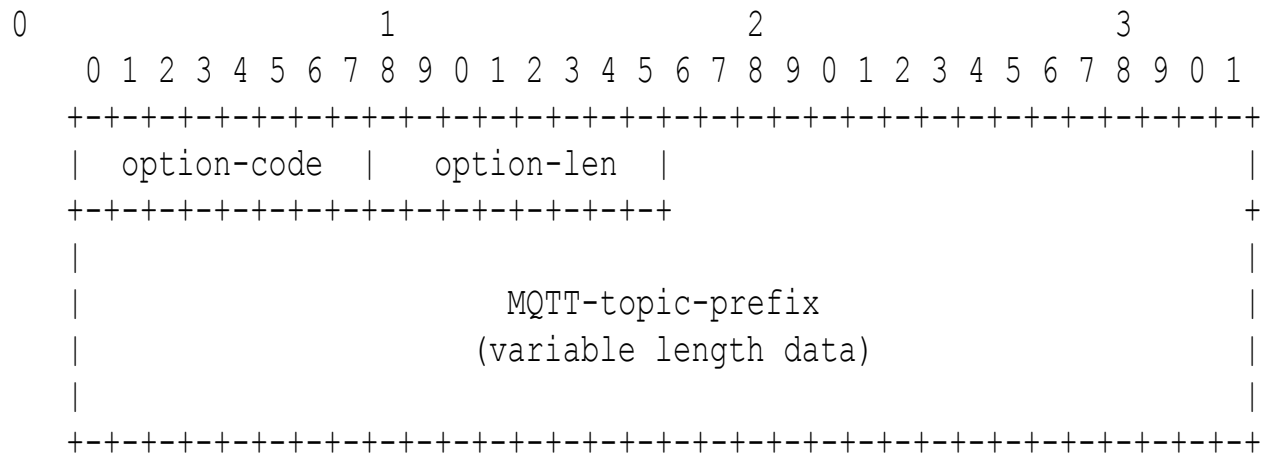
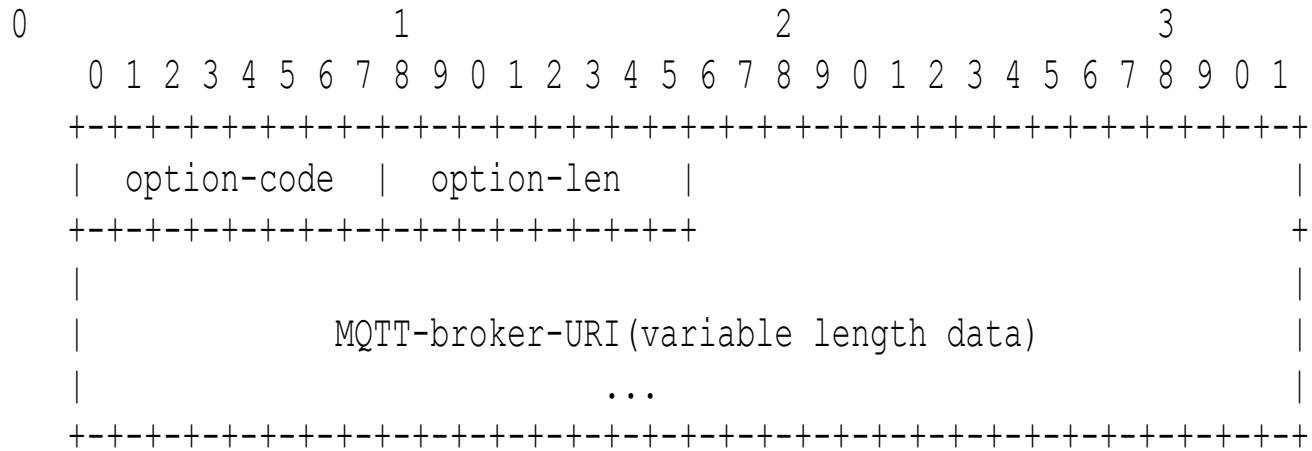
Proposal summary

- DHCPv6 option for MQTT broker URI
- DHCPv6 option for MQTT topic prefix
- DHCPv4 option for MQTT broker URI
- DHCPv4 option for MQTT topic prefix

MQTT DHCPv6 options



MQTT DHCP v4 options



Next Steps

- Does this make sense?
- WG opinion/suggestions/comments
- WG adoption request

Thank you