

CoAP Request-Timeout Option

draft-li-core-coap-request-timeout-option-00

Request-Timeout option

✓ Purpose

- ✓ Indicate the maximum time that a client is prepared to wait for a response
- ✓ Client knows how long it should wait for the response, and keeps state for the request for the indicated time
- ✓ After the indicated time, client may give up the request

✓ Benefit

- ✓ It can avoid that the server wastes resources by sending a response which already exceeds the set timeout of the client.
- ✓ The transmission resource can be saved to avoid the retransmission of requests.

Request-Timeout Option

✓ Definition

Type	C/E	Name	Data type	Length	Default
20	E	Request-Timeout	uint	0-1 B	

0

0 1 2 3 4 5 6 7

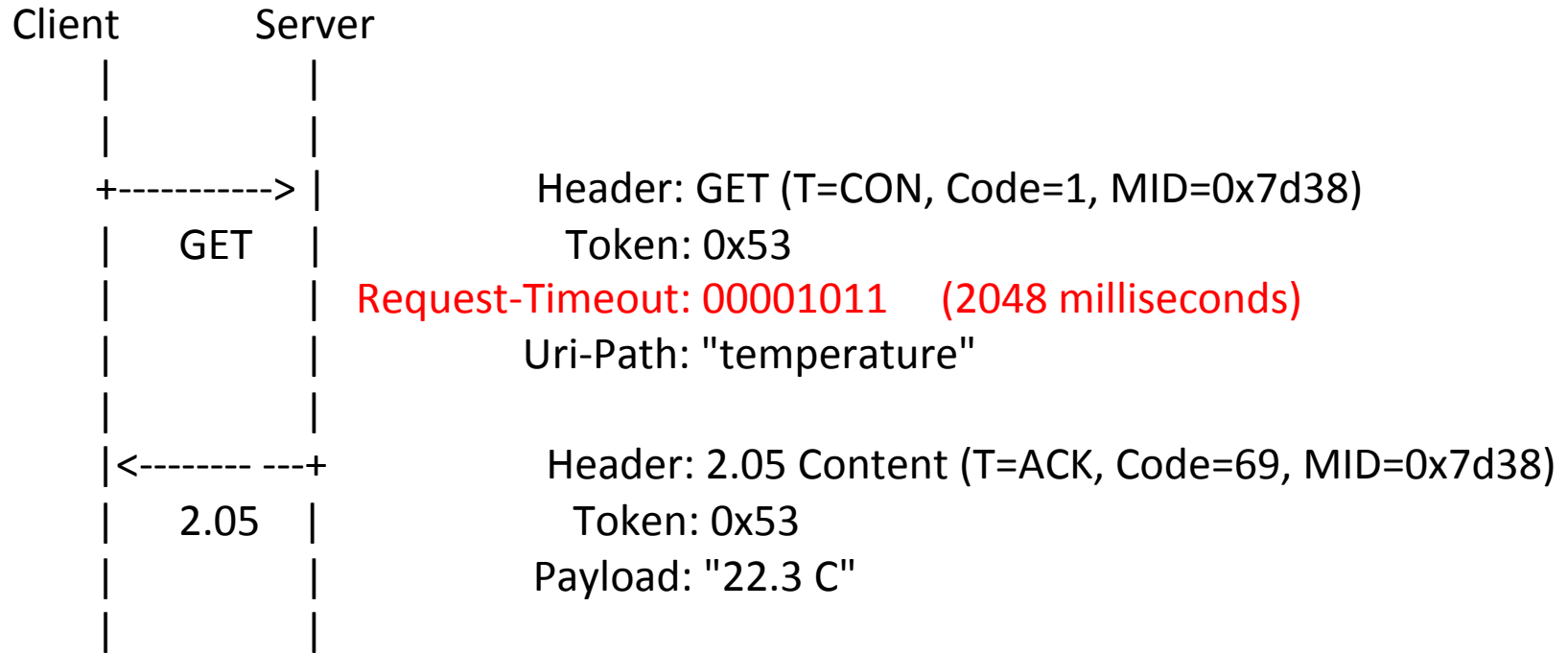
+--+--+--+--+--+--+

| T |

+--+--+--+--+--+--+

Request-Timeout = 2^T milliseconds

Example



Conclusion

- ✓ Open Issues from the discussion in the mailing list
 - ✓ Should we use milliseconds or microseconds (1/1024s)?
 - ✓ Differences between Request-Timeout and Connection-Timeout?
 - ✓ Need to check implementations about this option
- ✓ Next steps
 - ✓ Is it OK for the group to accept this as a WG item?