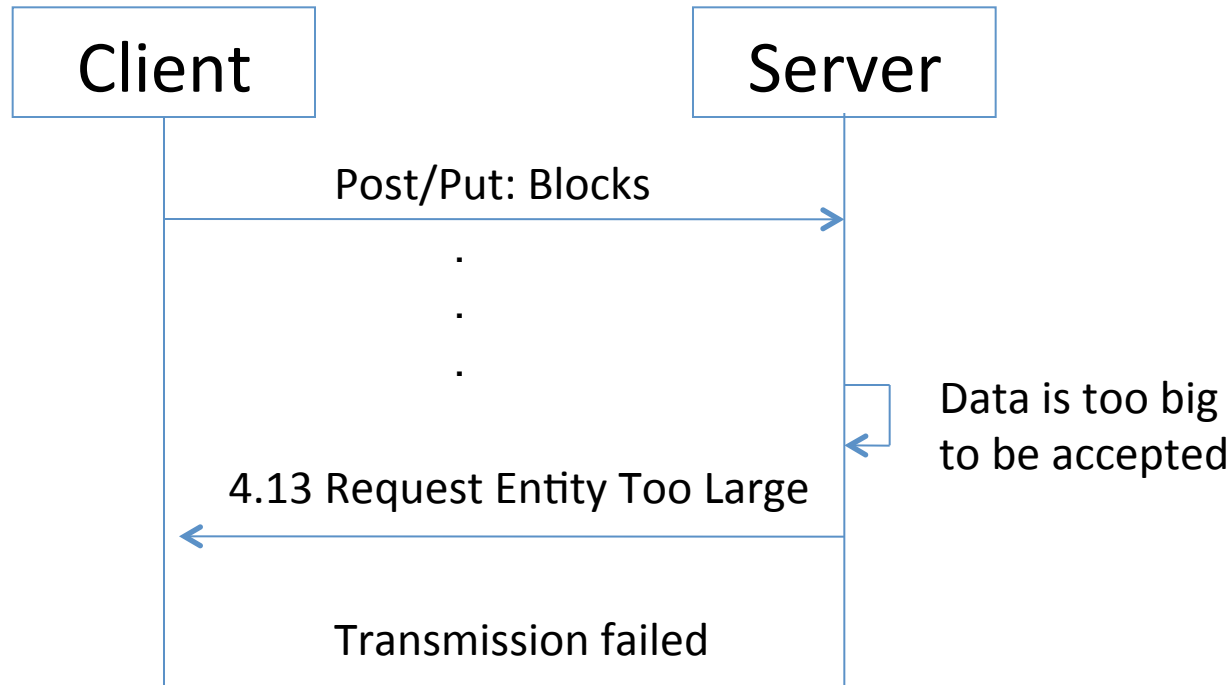


CoAP Size Option Extension

draft-li-core-coap-size-option-01

Current Issue 1: Post/Put



Using Post/Put for a large object

Issue: In this case the whole transmission has failed, and the previous received data will be useless. This is a waste of transmission resources.

Current Issue 2: Get

✓ Current feature:

- Use link-format to retrieve the maximum estimated size

✓ Issues

- It is not accurate, and the resource size may be changed
- It is not possible for the requester to know exactly how many blocks will be transmitted, therefore, concurrent Get can't be supported.

Size Option

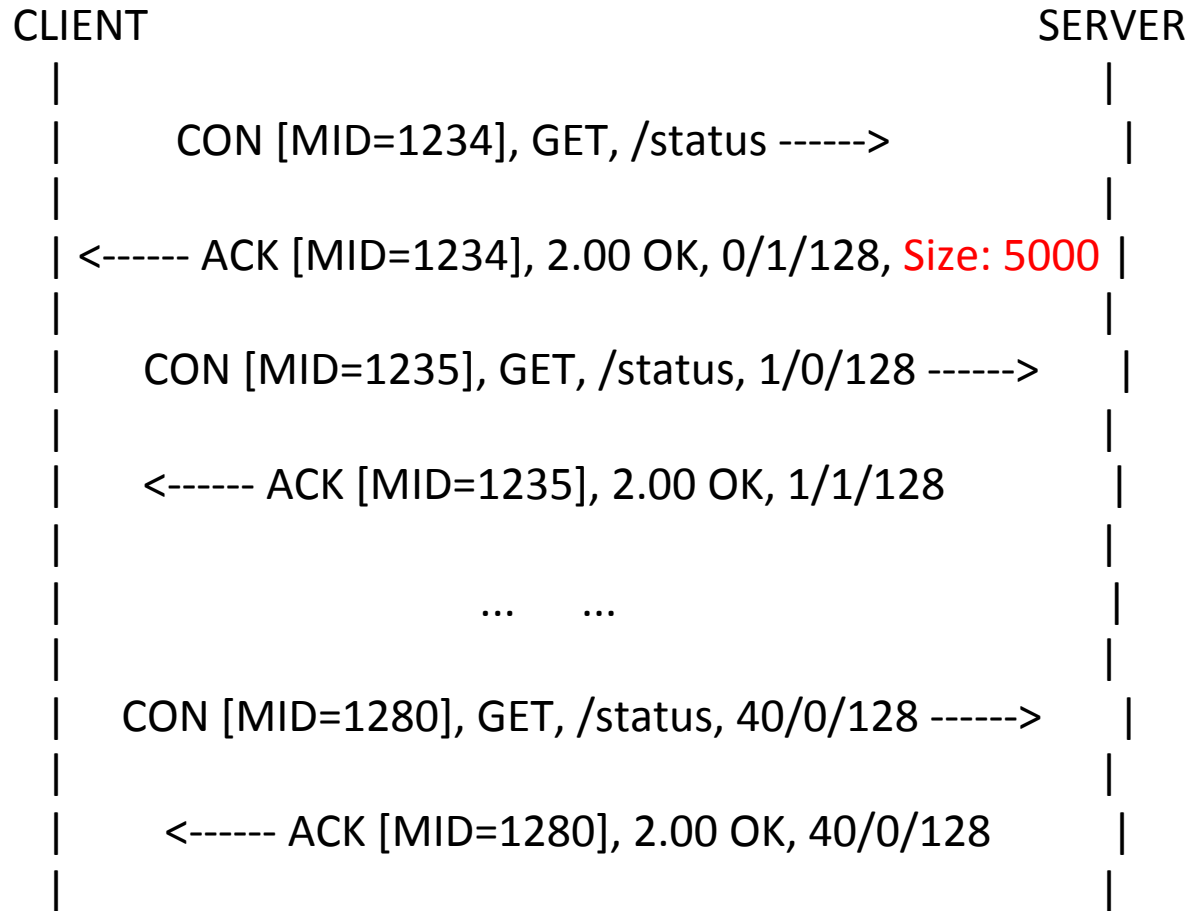
✓ Definition

Type	C/E	Name	Data type	Length	Default
12	E	Size	uint	1-4 B	

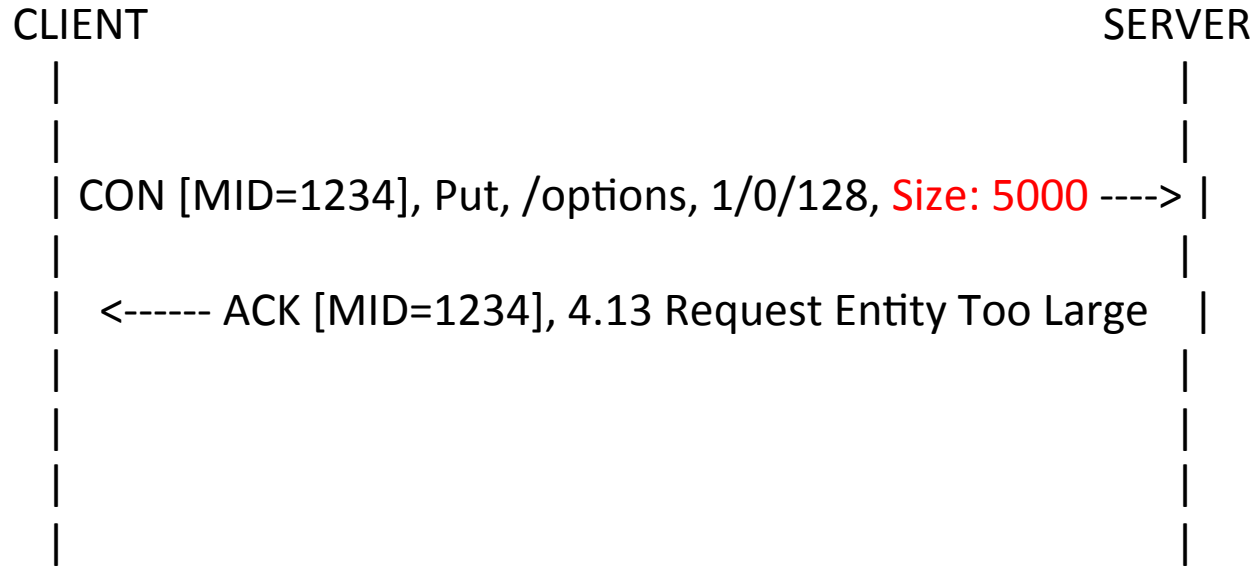
✓ Usage

- In Put/Post request and Get response:
 - Indicate the resource size
- In Get request with Size=0:
 - Get the resource size, not the payload

Size Option in a Get response



Size Option in a Put request



Conclusion

- ✓ Open Issues from the discussion in the mailing list
 - ✓ Should the Size option be Elective or Critical?
 - ✓ Need analysis about the influence of the Block1/Block2 design
 - ✓ Need to check implementations about this option
- ✓ Next steps
 - ✓ Is it OK for the group to accept this as a WG item?