

New CoAP Block-Wise Transfer Options For Faster Transmission

[draft-ietf-core-new-block-07](#)

IETF CoRE Meeting, 12th Mar 2021

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Agenda

- Changes since last Meeting
- Implementation Status
- Next Steps

Updates post -07

In response to Christian's recent comments

- Removed CSM Option
- Added disadvantage of not being able to mix CON/NON in same request / response
- Clarity over peers with different MAX_PAYLOADS

Updates -02 to -07 (1 of 2)

- Gone for naming Q-Block1 and Q-Block2
- Updated following WG Last Call reviews
 - Thanks Marco and Christian
- Additional disadvantages added
- Emphasis on Non-confirmable support
- Require use of Confirmable when testing for Q-Block
- Addition of Q-Block-Wise-Transfer CSM
 - Now dropped
- Clarity on mixing Q-Blockx and Blockx with OSCORE
- Clarity on use of 'M' bit in requests

Updates -02 to -07 (2 of 2)

- (redundant) Request-Tag removed from 4.08 response
- Congestion Control updated with new variables defined
 - Support for 2.31 Continue response (Q-Block1)
 - Support for ‘Continue’ Q-Block2 request
 - Special case ‘M’ bit
- Examples updated and added to
- Security considerations updated to include OSCORE
- RFC7049 -> RFC8949

Implementation Status

- Libcoap <https://github.com/obgm/libcoap>
- Q-Block PR for libcoap submitted, not yet merged
 - <https://github.com/obgm/libcoap/pull/611>
- No issues found in working DOTS environment

Next Steps

- We do believe that all the issues were considered and adequately handled
- We request publication of document

Thank You