New CoAP Block-Wise Transfer Options For Faster Transmission

draft-ietf-core-new-block-07

IETF CoRE Meeting, 12\textsuperscript{th} 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