CoAP: Non-traditional response forms

bormann-core-responses-02

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Non-traditional responses

Non-traditional response

A response that is not the single response generated for a request received on the same transport.

- Define new versatile non-traditional responses
- Define behavior of non-traditional responses in general
Behavior definition: OSCORE
New in -02

- Explicit request or not: Request needs sender and sequence number.
- Request nonce can only be used in one response.
- If order matters, responses are ordered by sequence number.
- If replaying matters, responses are subjected to the replay window.
- If follow-up requests were made, transiently tolerate erroneous responses.

...and that's it on the OSCORE side?
Next steps

- Interop based on concrete documents adopting this?
- Future in the WG?
RFC7252 simplest case  Single request, single response

RFC7252 multicast  Single request, different responses with different source addresses

RFC7641  Observe notifications come in until further notice\(^1\)

core-coap-sms  Response-To-Uri-Host/-Port – triangular requests

core-coap-endpoint-id  Observations across server address changes

core-responses-00  Configured requests, Response-For

RFC9177  Responding with multiple blocks

core-groupcomm-proxy  Multicast-Timeout

\(^1\)No intent to redefine, but implementers may use common mechanisms