

MSRP Core

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Status

- Major rewrite (iterative editing sessions with Rohan and Cullen)
- Tried to make things clearer, reduce “cut-and-paste-itus”
- Lots of late-night editing

Significant Changes

- Report Handling
- Framing/Transaction Mapping
- Moved chunk handling into headers
- Removed VISIT method
- Changed transport and TLS selection
- Added max-size to media type negotiation

Reports

- Two headers for report selection
 - Report-Success (yes / no)
 - End-to-end success reports
 - Defaults to no
 - Report-Failure (yes / no / partial)
 - MSRP responses `_only_` used if Report-Failure:yes
 - Defaults to yes
 - Partial allows failure reports for failures that can be detected w/o MSRP responses

Reports

- DSN Payload optional
 - MAY for success reports
 - SHOULD for failure reports
- Added status header to allow reports w/o payloads
- Scoped to Message-ID
- Byte-range header for reports about “chunks”

Framing

- Boundary moved to start-line
- No more boundary header
- Also acts as transaction ID
 - MSRP response shares same value
 - Must be unique for session.

Chunking

- Removed dependency on multipart/byte-ranges
- Any kind of content can be chunked
- Added Byte-Range header
 - SEND: tells you what range is carried in the message
 - REPORT: tells you what range is being reported on

Removed VISIT

- Semantics became almost identical to SEND
- Replaced with an initial SEND request
 - May or may not carry content.

Transport and Protection

- Transport URL parameter
- Protection indicated in scheme
 - `msrps:alice.example.com:9938/sfa934s;tcp`

Max-Size

- Optional parameter to media type entries
 - In accept-types and accept-wrapped-types
- Indicates maximum size you are willing to receive for the given type
- Refers to complete message content, not “chunk” content.

Open Issues

Report Handling

- Should we separate report request negotiating from transaction response negotiation?
 - Transaction responses only serve to enable error reports.
 - Separation allows nonsensical states
 - Proposal: leave as is.

Extensibility

- How do we evolve to future versions?
- Paul proposed adding a URL parameter for version
- Do we care?
 - If so, I propose we accept Paul's suggestion.

What does max-size mean?

- Questions about how max-size applies to body parts inside of multiparts.
 - Proposal: It applies to any matching body part, regardless of encapsulation.

Page vs Session Mode

- We have had requests for a discussion about when to use Session mode vs Page mode. Does that belong here?
- Proposal: No, this really belongs somewhere else. Maybe the SIMPLE architecture work?

Now What?

- Seems like we are getting close to done here!
- Proposal:
 - One minor revision RSN...
 - ... then WGLC?