Spam Reporting & Abuse Feedback
MARF SMS/MMS Extension

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Goals

- Filling the existing gaps in “Message Abuse Reporting” among two leading standards setting organizations on the project
- Support abuse reporting of SMS, MMS, IM in IETF MARF with appropriate MIME type, transport and metadata scheme
- Support optional message corpus inclusion in the abuse reporting for SMS/MMS
- Support abuse detection information from message centers and/or user agent
- Add additional reporting attributes to reporting message headers
Some Major Observed Gaps

OMA SpamRep Scope
- Applicable to email, SMS, MMS and IM message spam reporting
- Specifies HTTP as transport
- Attributes largely extracted from GSM MAP and SMPP fields,
- Single report but no human-readable part

IETF MARF Scope
- Specifies email only spam reporting/feedback protocol
- Uses SMTP as transport
- Uses RFC 5322 (email) style metadata.Headers
- Both corpus and report metadata in the same multipart/report MIME part
- No clear aggregation of multiple reports, and report has a mandatory human-readable part
Proposed Options for Message Body for SMS/MMS

Options:

- Whole message body
- A part of message body which contains spam
- No message body
Abuse Detection Information

Following optional fields from message centers or end user agent

- Abuse Type
  - spam, phishing, spoofing, fake sender address, unauthorized sender/recipient, suspicious network/domain, message flooding, denial of service attack, malware, unauthorized message, not spam, others (TBD)

- Abuse Detection Methods
  - Forbidden senders/receivers, forbidden network/domain, forbidden application entity screening, spam keywords match, spam multimedia match, spam pattern match, volume threshold per sender match, volume threshold per sending network/domain match, others

- Abuse Keywords

- Abuse Multimedia Elements

- Message Delivery Decisions: delivered, rejected with notification, dropped silently, on hold for instruction, others
Additional Optional Spam Reporting Attributes for SMS/MMS

- Message-ID
- Message Center ID
- Message Type
- Message Protocol ID
- Message Teleservice ID
- Message Language Indicator
- Message Segment Indicator
- Message Data Encoding
- Message User Data (Header)
- Message Addresses and Address Types