G Suite

Schema for Gmail logs in BigQuery

Contents

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The schema contains the following fields.

Note: Google occasionally updates the template table schema, for example, to export additional logs data from Gmail into BigQuery. When new fields are added to the template table, the next daily table generated from the template contains the new fields. For this reason, if you want to query new fields, be sure to query daily tables generated after the template was updated.

event_info

Type	RECORD	**Mode**	REQUIRED
Description	General information about the event.		

event_info.elapsed_time_usec

Type	INTEGER	**Mode**	NULLABLE
Description	Time period this event took, in microseconds.		

event_info.success

Type	BOOLEAN	**Mode**	REQUIRED
Description	True if the event was successful, otherwise false. For example, it would be false if the message was rejected by a policy.		

event_info.timestamp_usec

Type	INTEGER	**Mode**	REQUIRED
Description	Time when this event started, in the format of a UNIX timestamp, in microseconds.		

message_info

Type	RECORD	**Mode**	NULLABLE
Description	General information about the email message.		

message_info.action_type

<table>
<tr><td><b>Type</b></td><td>INTEGER</td><td><b>Mode</b></td><td>NULLABLE</td></tr>
<tr><td><b>Description</b></td><td colspan="3">The action this event represents.
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>1</td><td>Message received by inbound SMTP server.</td></tr>
<tr><td>2</td><td>Message accepted by Gmail and prepared for delivery. This is usually the next step following #1, or the first step if you send from Gmail. For incoming messages, policies with reject dispositions are usually evaluated here; for example, and attachment compliance policy that rejects incoming messages. See also #68.</td></tr>
<tr><td>3</td><td>Message was handled by Gmail, for example, delivered to a Gmail mailbox or sent to another server. This is usually the next step following #2. Policies with dispositions other than reject are evaluated here; for example, an attachment compliance policy that strips attachments based on file type or other criteria.</td></tr>
<tr><td>10</td><td>Message sent out by outbound SMTP server.</td></tr>
<tr><td>14</td><td>A temporary error occured when Gmail tried to deliver the message, and the message has been scheduled for retry. This is usually caused by external or internal servers that Gmail talks to being temporarily unavailable; retry later. For example, we tried to deliver the message to an external SMTP server, but got a temporary error (4xx) back.</td></tr>
<tr><td>18</td><td>Message could not be delivered and was bounced. Sometimes you can find out what happened by reading message_info.description. Common reasons include:
● The recipient server didn’t accept our request.
● The message could not be delivered due to too many temporary errors (see #14).
● The message was rejected due to a deferred policy evaluation.
● The recipient is unrecognized and there’s no policy triggered to change the primary delivery route.</td></tr>
</table>
</td></tr>
</table>

	19	Message was dropped by Gmail. Common reasons include: ● If a message being sent triggers admin quarantine consequences, the original message is dropped and a copy of the message is added in the Admin Quarantine. ● For a journaling message, the wrapped inner message is delivered, while the original message is dropped. ● For inbound messages, Gmail can block and drop messages for example, if: ○ The message was not RFC 5322-compliant ○ The sender violates bulk senders guidelines ● If a policy removed the primary delivery route and added other routes, the original message is dropped and copies are delivered to the added routes. ● If the recipient is an unrecognized address and there's a policy that adds additional routes, the original message is dropped and copies are delivered to the added routes.
	48	Message received by inbound SMTP server for relay.
	49	Message sent via relay by outbound SMTP server.
	55	Message was re-inserted into Gmail, as caused by policies that modify the primary delivery route or envelope recipient.
	68	Message accepted by Gmail and prepared for delivery. This is similar to #2, with the distinction that the message was accepted from (sent via) a Gmail server.
	69	The user changed the message's spam classification, for example, by marking it as spam, phishing, not-spam, in Gmail.
	70	Message reclassified as spam, phishing, etc., after it was delivered to Gmail.

message_info.attachment

Type	RECORD	**Mode**	REPEATED
Description	Information about the message's attachments. This record is repeated for every attachment.		

message_info.attachment.file_extension_type

Type	STRING	**Mode**	NULLABLE

Description	File extension (not mime part type). Doesn't include the dot.

message_info.attachment.malware_family

Type	INTEGER	**Mode**	NULLABLE
Description	Malware category, if detected. Field is unset if no malware was detected when the message was handled.		

Value	Description
1	A known malicious program type of malware.
2	A virus or worm type of malware.
3	Content of email may be harmful.
4	Content of email may potentially be unwanted.
5	Other type of malware.

message_info.attachment.sha256

Type	STRING	**Mode**	NULLABLE
Description	SHA256 hash of the attachment.		

message_info.connection_info

Type	RECORD	**Mode**	NULLABLE
Description	Information about the connection on which the message was transferred.		

message_info.connection_info.authenticated_domain

Type	RECORD	**Mode**	REPEATED
Description	List of authenticated domain names and authentication mechanisms.		

message_info.connection_info.authenticated_domain.name

Type	STRING	**Mode**	NULLABLE
Description	The authenticated domain name.		

message_info.connection_info.authenticated_domain.type

Type	INTEGER	**Mode**	NULLABLE
Description	Message authentication type. For example, SPF, DKIM. **Value** **Description** 1 SPF 2 DKIM 3 DKIM_PROXY 4 XOAR_SPF 5 XOAR_DKIM		

message_info.connection_info.client_host_zone

Type	STRING	**Mode**	NULLABLE
Description	Client host zone of the mail sender.		

message_info.connection_info.client_ip

Type	STRING	**Mode**	NULLABLE
Description	IP address of the mail client that started the message.		

message_info.connection_info.dkim_pass

Type	BOOLEAN	**Mode**	NULLABLE
Description	Whether the message authenticated using at least one DKIM signature.		

message_info.connection_info.dmarc_pass

Type	BOOLEAN	**Mode**	NULLABLE
Description	Whether the message passed DMARC policy evaluation.		

message_info.connection_info.dmarc_published_domain

Type	STRING	**Mode**	NULLABLE
Description	Domain name used to evaluate the DMARC policy.		

message_info.connection_info.failed_smtp_out_connect_ip

Type	STRING	**Mode**	REPEATED
Description	List of all IPs in the remote MX record that Gmail attempted to connect to and failed.		

message_info.connection_info.ip_geo_city

Type	STRING	Mode	NULLABLE
Description	Nearest city computed based on the relay IP.		

message_info.connection_info.ip_geo_country

Type	STRING	Mode	NULLABLE
Description	ISO country code based on the relay IP.		

message_info.connection_info.is_internal

Type	BOOLEAN	Mode	NULLABLE
Description	Whether the message is sent within domains owned by the customer.		

message_info.connection_info.is_intra_domain

Type	BOOLEAN	Mode	NULLABLE
Description	Whether the message is sent within the same domain.		

message_info.connection_info.smtp_in_connect_ip

Type	STRING	Mode	NULLABLE
Description	Remote IP address for MTA client connections (inbound SMTP to Gmail).		

message_info.connection_info.smtp_out_connect_ip

Type	STRING	**Mode**	NULLABLE
Description	Remote IP address for SMTP connections from Gmail.		

message_info.connection_info.smtp_out_remote_host

Type	STRING	**Mode**	NULLABLE
Description	For outgoing SMTP connections, the domain we started from; the destination domain or the smarthost.		

message_info.connection_info.smtp_reply_code

Type	INTEGER	**Mode**	NULLABLE
Description	SMTP reply code for inbound and outbound SMTP connections. Generally 2xx, 4xx, or 5xx.		

message_info.connection_info.smtp_response_reason

<table>
<tr><td><b>Type</b></td><td>INTEGER</td><td><b>Mode</b></td><td>NULLABLE</td></tr>
<tr><td><b>Description</b></td><td colspan="3">Detailed reason for the SMTP reply code for inbound connections.
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>1</td><td>The default reason messages are rejected/accepted.</td></tr>
<tr><td>3</td><td>Malware.</td></tr>
<tr><td>4</td><td>DMARC policy.</td></tr>
<tr><td>5</td><td>Unsupported attachment (by Gmail).</td></tr>
<tr><td>6</td><td>Receive limit exceeded.</td></tr>
<tr><td>7</td><td>Account over quota.</td></tr>
</table>
</td></tr>
</table>

8	Bad PTR record.
9	Recipient doesn’t exist.
10	Customer policy.
12	RFC violation.
13	Blatant spam.
14	Denial of service.
15	Malicious or spammy links.
16	Low IP reputation.
17	Low domain reputation.
18	IP listed in public Real-time Blackhole List (RBL).

message_info.connection_info.smtp_tls_state

Type	INTEGER	**Mode**	NULLABLE
Description	Type of connection made to the SMTP server, only set for logs of events that explicitly handle SMTP connections.		

Value	**Description**
0	Not TLS.
1	TLS.

message_info.connection_info.smtp_user_agent_ip

Type	STRING	**Mode**	NULLABLE
Description	IP address of the mail user agent, for inbound SMTP connections.		

message_info.connection_info.spf_pass

Type	BOOLEAN	**Mode**	NULLABLE
Description	Whether the message authenticated using SPF mechanism.		

message_info.connection_info.tls_required_but_unavailable

Type	BOOLEAN	**Mode**	NULLABLE
Description	TLS required for an outbound SMTP connection, but no valid certificate was present.		

message_info.description

Type	STRING	**Mode**	NULLABLE
Description	Human-friendly description about what happened to the message.		

message_info.destination

Type	RECORD	**Mode**	REPEATED
Description	Information about message recipients; this record is repeated for every recipient.		

message_info.destination.address

Type	STRING	**Mode**	NULLABLE
Description	Email address of the recipient.		

message_info.destination.selector

Type	STRING	**Mode**	NULLABLE
Description	Subcategory for each service. See message_info.destination.service for an explanation of the different values.		

message_info.destination.service

<table>
<tr><td><b>Type</b></td><td>STRING</td><td><b>Mode</b></td><td>NULLABLE</td></tr>
<tr><td><b>Description</b></td><td colspan="3">The service to where this message went. There are many service and selector pairs for destinations. You can use these two fields to determine to which service the message was sent.
<table>
<tr><th>Service</th><th>Selector</th><th>Description</th></tr>
<tr><td>gmail-ui</td><td>sent-on-behalf-of-user</td><td>Message was sent to Gmail and kept as a copy in the user's Gmail Sent label.</td></tr>
<tr><td>gmail-ui</td><td>null</td><td>Message was sent to Gmail.</td></tr>
<tr><td>mailing-list-server</td><td>spam-check</td><td>Message was sent to Google Groups and was spam-checked.</td></tr>
<tr><td>mailing-list-server</td><td>null</td><td>Message was sent to Google Groups.</td></tr>
<tr><td>mailing-list-server</td><td>moderation</td><td>Message was sent to Google Groups and is pending administrator's moderation.</td></tr>
<tr><td>mailing-list-server</td><td>archive</td><td>Message was sent to Google Groups and is archived.</td></tr>
<tr><td>gmail-for-work-catchall</td><td></td><td>Message had unrecognized recipients and was delivered according to a catch-all rule.</td></tr>
<tr><td>smtp-outbound</td><td>gmail-delivery-server</td><td>Message was sent to outbound SMTP server and handled by Gmail delivery servers.</td></tr>
<tr><td>smtp-outbound</td><td>google-apps-for-work</td><td>Message was sent to outbound SMTP server and handled by G Suite Basic.</td></tr>
</table>
</td></tr>
</table>

	smtp-outbound	google-apps-for-work-starter	Message was sent to outbound SMTP server and handled by G Suite Basic.
	smtp-outbound	gmail-notification	Message was sent to outbound SMTP server and handled by Gmail notification.
	smtp-outbound	relay	Message was sent to outbound SMTP server and handled by Gmail relay servers.
	smtp-outbound	gmail	Message was sent to outbound SMTP server.
	smtp-outbound	gmail-for-work	Message was sent to outbound SMTP server and added by Gmail for business policies.
	smtp-outbound	null	Message was sent to outbound SMTP server.

message_info.destination.smime_decryption_success

Type	BOOLEAN	**Mode**	NULLABLE
Description	For inbound messages only. When set, indicates that S/MIME decryption was attempted for this recipient (not set if skipped), and the value indicates the completion status.		

message_info.destination.smime_extraction_success

Type	BOOLEAN	**Mode**	NULLABLE
Description	For inbound messages only. When set, indicates that S/MIME extraction was attempted for this recipient (not set if skipped), and the value indicates the completion status.		

message_info.destination.smime_parsing_success

Type	BOOLEAN	**Mode**	NULLABLE

Description	For inbound messages only. When set, indicates that S/MIME parsing was attempted for this recipient (not set if skipped), and the value indicates the completion status.

message_info.destination.smime_signature_verification_success

Type	BOOLEAN	**Mode**	NULLABLE
Description	For inbound messages only. When set, indicates that S/MIME signature verification was attempted for this recipient (not set if skipped), and the value indicates the completion status.		

message_info.flattened_destinations

Type	STRING	**Mode**	NULLABLE
Description	String that has information of all recipients flattened, in the format "service_for_recipient1:selector_for_recipient1:address_for_recipient1, service_for_recipient2:selector_for_recipient2:address_for_recipient2".		

message_info.flattened_triggered_rule_info

Type	STRING	**Mode**	NULLABLE
Description	String that has information of all triggered rules in JSON format.		

message_info.is_policy_check_for_sender

Type	BOOLEAN	**Mode**	NULLABLE
Description	True if the policy rules were evaluated for the sender, meaning the message was processed for outbound delivery. False if policy rules were evaluated for the recipient, for inbound messages.		

message_info.is_spam

Type	BOOLEAN	**Mode**	NULLABLE
Description	True if the message was classified as spam.		

message_info.link_domain

Type	STRING	**Mode**	REPEATED
Description	These are domains extracted from link URLs in the message body.		

message_info.message_set

Type	RECORD	**Mode**	REPEATED
Description	Message set type the message is a member of. See message_info.message_set.type.		

message_info.message_set.type

<table>
<tr><td><b>Type</b></td><td>INTEGER</td><td><b>Mode</b></td><td>NULLABLE</td></tr>
<tr><td><b>Description</b></td><td colspan="3">Message set types are attributes that describe the message. For example, if the message was inbound, outbound, or internal.
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>1</td><td>Message is inbound, that is, received from outside your domains. This message set doesn’t appear simultaneously with message set #10.</td></tr>
<tr><td>2</td><td>Message is outbound, that is, sent to a recipient outside your domains. This message set doesn’t appear simultaneously with message set #10.</td></tr>
<tr><td>7</td><td>Message was classified as spam by Gmail.</td></tr>
<tr><td>8</td><td>Message being sent; an outgoing message.</td></tr>
<tr><td>9</td><td>Message being received; an incoming message.</td></tr>
<tr><td>10</td><td>Message is internal to your domains.</td></tr>
<tr><td>11</td><td>Message had a sender or recipients outside your domains. Or, for received messages, and if message set #27 is missing, this means we couldn't authenticate the sender; the message was treated as having a sender outside your domain.</td></tr>
<tr><td>12</td><td>Message had some recipients internal to your domain and some recipients</td></tr>
</table>
</td></tr>
</table>

	outside your domain. This message set may appear only when: - There are multiple recipients. - A message is being sent (for message being received, we enforce that the recipients all belong to the same domain). - Action type for the message is #2 (we split multi-recipient messages to single-recipient messages after that). 27 The sender has successfully passed SPF/DKIM/DMARC authentication. If the sender isn't authenticated, then we don't trust the sender domain; the message won't be considered internal. 47 Message was detected to be spam by tag-and-deliver information in your inbound gateway settings.

message_info.num_message_attachments

Type	INTEGER	**Mode**	NULLABLE
Description	Number of message attachments.		

message_info.payload_size

Type	INTEGER	**Mode**	NULLABLE
Description	Size of the message payload in bytes.		

message_info.rfc2822_message_id

Type	STRING	**Mode**	NULLABLE
Description	RFC 2822 message ID for the message. For example, you can find this by selecting "Show Original" on a message in Gmail.		

message_info.smime_content_type

Type	INTEGER	Mode	NULLABLE
Description	The top-level S/MIME type of a message, as indicated by the Content-Type header. **Value** **Description** 0 The message does not have a recognized S/MIME Content-Type. 1 An S/MIME message with a detached signature, indicated by content type "multipart/signed" with parameter "protocol=application/pkcs7-signature". 2 An S/MIME message with an opaque signature, indicated by content type "application/pkcs7-mime" or "application/x-pkcs7-mime" with parameter "smime-type=signed-data". 3 An S/MIME message that is encrypted, indicated by content type "application/pkcs7-mime" or "application/x-pkcs7-mime" with parameter "smime-type=enveloped-data". 4 An S/MIME message that is compressed, indicated by content type "application/pkcs7-mime" or "application/x-pkcs7-mime" with parameter "smime-type=compressed-data".		

message_info.smime_encrypt_message

Type	BOOLEAN	Mode	NULLABLE
Description	For outbound messages only. When set and true, indicates message should be encrypted.		

message_info.smime_extraction_success

Type	BOOLEAN	Mode	NULLABLE
Description	When set, indicates that inbound S/MIME processing occurred (not set if skipped), and the value indicates the completion status. Note: currently not set.		

message_info.smime_packaging_success

Type	BOOLEAN	**Mode**	NULLABLE
Description	For outbound messages only. When set, indicates that smime packaging was attempted (not set if skipped), and the value indicates the completion status.		

message_info.smime_sign_message

Type	BOOLEAN	**Mode**	NULLABLE
Description	For outbound messages only. When set and true, indicates message should be signed.		

message_info.smtp_relay_error

Type	INTEGER	**Mode**	NULLABLE
Description	If Gmail rejected an SMTP relay request, this error code provides additional information about the cause of the rejection.		

Value	**Description**
1	Authentication error.
2	Daily rate limit was exceeded.
3	Peak rate limit was exceeded.
4	SMTP relay was abused.
5	Per-user rate limit was exceeded.

message_info.source

Type	RECORD	**Mode**	NULLABLE
Description	Information about the sender.		

message_info.source.address

Type	STRING	**Mode**	NULLABLE
Description	The email address of the sender.		

message_info.source.from_header_address

Type	STRING	**Mode**	NULLABLE
Description	From header address as it appears in the message headers, for example, foo@domain.com.		

message_info.source.from_header_displayname

Type	STRING	**Mode**	NULLABLE
Description	From header display name as it appears in the message headers, for example, “User Foo”.		

message_info.source.selector

Type	STRING	**Mode**	NULLABLE
Description	A subcategory of the source server. See message_info.source.service for a description of different values.		

message_info.source.service

Type	STRING	Mode	NULLABLE
Description	The source service for this message. There are many service and selector pairs for sender. You can use these two fields to determine which service the message was from and why the message was generated.		

Service	Selector	Description
calendar	send	Notifications from Google Calendar.
gmail-ui	read-receipt	Gmail read-receipt feature.
gmail-ui	autoforward	Gmail autoforward feature.
gmail-ui	unsubscribe	Gmail unsubscribe feature.
gmail-ui	canned-response	Message sent by Gmail Canned Response feature.
gmail-ui	vacation-response	Gmail vacation response feature.
gmail-ui	send	Message sent from Gmail web UI.
docs	share	Sharing notification from Google Drive.
groups	groups-ui	Message sent from Google Groups.
keep	invites	Invitation email sent by Google Keep.
mailing-list-server	custom-replies	Auto-replies from Google Groups.
mailing-list-server	null	Sent from Google Groups.
mailing-list-server	moderation	Sent from Google Groups moderation.
mailing-list-server	to-archive	Sent from Google Groups archive.
google-apps-script	user	Sent from Google Apps Script.
mail-fetcher	null	Message pulled by Gmail Mail Fetcher
gmail-for-work	spam-redelivery	User requests a (possibly a false

			positive) spam message to be redelivered to their non-Gmail mailbox; or, this is a quarantine summary (spam folder summary) sent to the non-Gmail mailbox.
	gmail-for-work	qsum-delivery	Periodic report is sent to the user detailing the contents of the Spam label and (optionally) the Inbox label.
	gmail-for-work	quarantine-delivery	Message released from the Quarantine Manager.
	gmail-for-work	quarantine-notification	Non-delivery response sent to the original sender of a denied quarantined message.
	gmail-for-work	policy	Message triggered some setting configured by the domain administrator.
	gmail-for-work	comprehensive-mail-storage	Sent to Gmail servers due to a Comprehensive Mail Storage setting.
	smtp-inbound	null	Message inserted from Google's SMTP servers to Gmail delivery pipeline.
	smtp-msa	null	Message inserted from Google's SMTP servers, in authenticated mode, to the Gmail delivery pipeline.
	smtp-relay	gmail-for-work	Messages routed through the SMTP Relay setting.
	google-spreadsheets	google-forms-receipt	Notifications from Google Sheets.
	google-spreadsheets	google-forms-invite	Sharing invites from Google Sheets.
	unified-notifications	google-apps	Notification from G Suite
	unified-notifications	null	Notification from a Google system.

message_info.spam_info

Type	RECORD	**Mode**	NULLABLE
Description	Spam classification information.		

message_info.spam_info.classification_reason

Type	INTEGER	**Mode**	NULLABLE
Description	Reason the message was classified as spam, phishing, etc.		

Value	Description
1	Default spam classification reason.
2	Message classified as such because of user's past actions.
3	Suspicious content.
4	Suspicious link.
5	Suspicious attachment.
6	Custom policy defined in G Suite Admin Console, Gmail settings.
7	DMARC.
8	Domain in public RBLs.
9	RFC standards violation.
10	Gmail policy violation.
11	Machine learning verdict.
12	Sender reputation.
13	Blatant spam.

message_info.spam_info.classification_timestamp_usec

Type	INTEGER	**Mode**	NULLABLE
Description	Message spam classification timestamp.		

message_info.spam_info.disposition

Type	INTEGER	**Mode**	NULLABLE
Description	The outcome of the Gmail spam classification.		

Value	Description
1	Message considered “clean” (not spam/malware).
2	Spam.
3	Phishing.
4	Suspicious.
5	Malware.

message_info.spam_info.ip_whitelist_entry

Type	STRING	**Mode**	NULLABLE
Description	The IP whitelist entry that informed the classification disposition when the message was classified as such due to a custom rule in Gmail settings.		

message_info.structured_policy_log_info

Type	RECORD	**Mode**	NULLABLE
Description	Structured information about policies that were evaluated for the message. This currently includes information about journaling and detected file types.		

message_info.structured_policy_log_info.detected_file_types

Type	RECORD	**Mode**	REPEATED
Description	Information about file types.		

message_info.structured_policy_log_info.detected_file_types.category

Type	INTEGER	**Mode**	NULLABLE
Description	MIME type category.		

Value	**Description**
1	Unrecognized file type.
2	Office documents, for example, word processing, spreadsheet, presentation, database, PDF, etc. The file may or may not be encrypted.
3	Video and multimedia, for example, MPEG, Quicktime, WMV, etc.
4	Music and audio, for example, MP3, AAC, WAV, etc.
5	Images, for example, JPEG, BMP, GIF, etc.
6	Archives, for example, ZIP, TAR, TGZ, etc.
7	Executables, for example EXE, COM, JS, etc.
8	Office documents which are encrypted.
9	Office documents which are not encrypted.

message_info.structured_policy_log_info.detected_file_types.mime_type

Type	STRING	**Mode**	NULLABLE
Description	MIME type of the file.		

message_info.structured_policy_log_info.exchange_journal_info

Type	RECORD	**Mode**	NULLABLE
Description	Information about Exchange journaling of the message.		

message_info.structured_policy_log_info.exchange_journal_info.recipients

Type	STRING	**Mode**	REPEATED
Description	Domain recipients for the journaled message known to Google.		

message_info.structured_policy_log_info.exchange_journal_info.rfc822_message_id

Type	STRING	**Mode**	NULLABLE
Description	RFC 822 message ID of the journaled message.		

message_info.structured_policy_log_info.exchange_journal_info.timestamp

Type	INTEGER	**Mode**	NULLABLE
Description	The timestamp of the journaled message, in seconds.		

message_info.structured_policy_log_info.exchange_journal_info.unknown_recipients

Type	STRING	Mode	REPEATED
Description	Domain recipients for the journaled message unknown to Google.		

message_info.subject

Type	STRING	Mode	NULLABLE
Description	The message’s subject.		

message_info.triggered_rule_info

Type	RECORD	Mode	REPEATED
Description	Information about policy rules triggered for the message.		

message_info.triggered_rule_info.consequence

Type	RECORD	Mode	REPEATED
Description	Information about a consequence applied to the message due to this triggered rule.		

message_info.triggered_rule_info.consequence.action

<table>
<tr><th>Type</th><td>INTEGER</td><th>Mode</th><td>NULLABLE</td></tr>
<tr><th>Description</th><td colspan="3">Action taken for the consequence.
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>0</td><td>Consequence is a no-op.</td></tr>
<tr><td>3</td><td>Put message in Admin Quarantine.</td></tr>
<tr><td>4</td><td>Modify the primary delivery target.</td></tr>
<tr><td>5</td><td>Add a delivery target.</td></tr>
<tr><td>6</td><td>Added a message header.</td></tr>
<tr><td>7</td><td>Overwrite the envelope recipient.</td></tr>
<tr><td>9</td><td>Add message to specified message set.</td></tr>
<tr><td>10</td><td>Modify the message’s labels.</td></tr>
<tr><td>11</td><td>Prefix text to message subject.</td></tr>
<tr><td>12</td><td>Add a footer to the message.</td></tr>
<tr><td>13</td><td>Strip the message body.</td></tr>
<tr><td>14</td><td>Store a copy of the message in the user’s mailbox, per comprehensive mail storage setting.</td></tr>
<tr><td>15</td><td>Replace attachment with canned text.</td></tr>
<tr><td>16</td><td>Require secure message delivery.</td></tr>
<tr><td>17</td><td>Message can’t be delivered; bounced.</td></tr>
<tr><td>18</td><td>Archive to Google Vault for recipients.</td></tr>
<tr><td>19</td><td>Skip Gmail spam checks.</td></tr>
</table>
</td></tr>
</table>

message_info.triggered_rule_info.consequence.reason

Type	STRING	**Mode**	NULLABLE
Description	Reason the consequence was applied. Usually contains the unique description of a rule that triggered the consequence.		

message_info.triggered_rule_info.consequence.subconsequence

Type	RECORD	**Mode**	REPEATED
Description	Information about a subconsequence of the primary consequence.		

message_info.triggered_rule_info.consequence.subconsequence.action

Type	INTEGER	**Mode**	NULLABLE
Description	Action taken for the subconsequence. See consequence action for an explanation of possible values.		

message_info.triggered_rule_info.consequence.subconsequence.reason

Type	STRING	**Mode**	NULLABLE
Description	Reason the subconsequence was applied. Usually contains the unique description of a rule that triggered the consequence.		

message_info.triggered_rule_info.policy_holder_address

Type	STRING	**Mode**	NULLABLE
Description	Email address of the policyholder whose policy triggered the rules.		

message_info.triggered_rule_info.rule_name

Type	STRING	**Mode**	NULLABLE
Description	Custom rule description given by an administrator in the Admin Console.		

message_info.triggered_rule_info.rule_type

<table>
<tr><td><b>Type</b></td><td>INTEGER</td><td><b>Mode</b></td><td>NULLABLE</td></tr>
<tr><td><b>Description</b></td><td colspan="3">Custom rule type, for example, inbound gateway, content compliance.
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>0</td><td>Walled garden.</td></tr>
<tr><td>7</td><td>Objectionable content.</td></tr>
<tr><td>8</td><td>Content compliance.</td></tr>
<tr><td>10</td><td>Received mail routing.</td></tr>
<tr><td>11</td><td>Sent mail routing.</td></tr>
<tr><td>12</td><td>Spam override.</td></tr>
<tr><td>14</td><td>Blocked senders.</td></tr>
<tr><td>15</td><td>Append footer.</td></tr>
<tr><td>16</td><td>Attachment compliance.</td></tr>
<tr><td>17</td><td>TLS compliance.</td></tr>
<tr><td>18</td><td>Domain default routing.</td></tr>
<tr><td>19</td><td>Inbound email journal acceptance in Vault.</td></tr>
<tr><td>20</td><td>Outbound relay.</td></tr>
<tr><td>21</td><td>Quarantine summary.</td></tr>
<tr><td>22</td><td>Alternate secure route.</td></tr>
<tr><td>23</td><td>Alias table.</td></tr>
<tr><td>24</td><td>Comprehensive mail storage.</td></tr>
</table>
</td></tr>
</table>

	25 Routing rule. 26 Inbound gateway. 27 S/MIME. 28 Third-party email archiving.

message_info.triggered_rule_info.spam_label_modifier

Type	INTEGER	Mode	NULLABLE
Description	Describes the custom rule spam classification verdict. **Value** **Description** 0 No action – the rule honored the Gmail spam classification verdict. 1 Spam – the rule classified the message as spam. 2 Not spam – the rule classified the message as not spam.		

message_info.triggered_rule_info.string_match

Type	RECORD	Mode	REPEATED
Description	If the rule was triggered because of string match; for example, content compliance rule, which contains the information about the string matches.		

message_info.triggered_rule_info.string_match.attachment_name

Type	STRING	Mode	NULLABLE
Description	Name of the attachment where a matching string was found if in the text extracted from a binary file. Note: this field is currently not populated.		

message_info.triggered_rule_info.string_match.match_expression

Type	STRING	**Mode**	NULLABLE
Description	Match expression that an administrator set in the Admin Console.		

message_info.triggered_rule_info.string_match.matched_string

Type	STRING	**Mode**	NULLABLE
Description	String that caused the rule to trigger. Sensitive information is hidden by "*" or "."		

message_info.triggered_rule_info.string_match.predefined_detector_name

Type	STRING	**Mode**	NULLABLE
Description	If this was a match of predefined detectors, shows the name of the predefined detector.		

message_info.triggered_rule_info.string_match.source

<table>
<tr><td><b>Type</b></td><td>INTEGER</td><td><b>Mode</b></td><td>NULLABLE</td></tr>
<tr><td><b>Description</b></td><td colspan="3">Location of the string matched in the message.
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>0</td><td>Unknown.</td></tr>
<tr><td>1</td><td>Message body, including text format attachments.</td></tr>
<tr><td>2</td><td>Binary format attachments.</td></tr>
<tr><td>3</td><td>Message headers.</td></tr>
<tr><td>4</td><td>Subject.</td></tr>
<tr><td>5</td><td>Sender header.</td></tr>
<tr><td>6</td><td>Recipient header.</td></tr>
</table>
</td></tr>
</table>

message_info.triggered_rule_info.string_match.type

<table>
<tr><td><b>Type</b></td><td>INTEGER</td><td><b>Mode</b></td><td>NULLABLE</td></tr>
<tr><td><b>Description</b></td><td colspan="3">Type of match.
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>0</td><td>Undefined.</td></tr>
<tr><td>1</td><td>Regular expression match.</td></tr>
<tr><td>2</td><td>Predefined detector match.</td></tr>
<tr><td>3</td><td>Simple content match.</td></tr>
<tr><td>4</td><td>Non-ASCII match.</td></tr>
</table>
</td></tr>
</table>

message_info.upload_error_category

<table>
<tr><th>Type</th><td>INTEGER</td><th>Mode</th><td>NULLABLE</td></tr>
<tr><th>Description</th><td colspan="3">Error encountered while uploading the message to the destination.
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>0</td><td>Uncategorized transient error.</td></tr>
<tr><td>1</td><td>Recipient account is too busy.</td></tr>
<tr><td>2</td><td>DNS error resolving recipient domain.</td></tr>
<tr><td>3</td><td>Recipient’s server refused connection.</td></tr>
<tr><td>4</td><td>Recipient is out of storage quota.</td></tr>
</table>
</td></tr>
</table>