Mastercard Trace Financial Crime Consolidated API Specifications

Version history

Version	Date	Comments
1.0.0	15 June 2022	First Release
1.0.1	22 February 2023	Amended Production and MTF Server names.

```yaml
openapi: 3.0.0
info:
  description: Consolidated page for the following API services
  version: 1.0.0
  title: Trace And Alert API
  contact:
    name: API Support
    email: apisupport@mastercard.com
    url: https://developer.mastercard.com/support

servers:
  - url: " https://trace.bancnet.fcs.mastercard.com "
    description: "Production server"
  - url: "https://trace.test.fcs.mastercard.com "
    description: "MTF server"
tags:
  - name: "Feedback"
    description: "These endpoints allow you to provide feedback on account, transaction and network alerts."
  - name: "Trace"
    description: "These endpoints allow you to trace the proceeds of financial crime through the payments
network."
  - name: "Alert"
    description: "These endpoints allow you to retrieve alerts on suspicious accounts, transactions and
dispersion networks."
  - name: "Match"
    description: "This endpoint allows you to match transactions without an id."
paths:
  /feedback:
    post:
      tags:
        - Feedback
      summary: "Provide feedback on financial crime."
      description: "Use this api to submit feedback about alerts. The feedback you provide may trigger a new
set of alerts which will be made available to other participants."
      operationId: "postFeedback"
      requestBody:
        $ref: "#/components/requestBodies/Feedback"
      responses:
        "200":
          $ref: "#/components/responses/PostFeedbackResponse"
        "400":
          $ref: "#/components/responses/BadRequestErrorResponseFeedback"
        "401":
          $ref: "#/components/responses/UnauthorisedErrorResponse"
        "403":
          $ref: "#/components/responses/ForbiddenErrorResponseFeedback"
        "404":
          $ref: "#/components/responses/NotFoundErrorResponseFeedback"
        "405":
          $ref: "#/components/responses/MethodNotAllowedErrorResponseFeedback"
        "409":
          $ref: "#/components/responses/ConflictErrorResponseFeedback"
        "415":
          $ref: "#/components/responses/UnsupportedMediaTypeErrorResponseFeedback"
```

```yaml
      "422":
        $ref: "#/components/responses/UnprocessableEntityErrorResponseFeedback"
      "429":
        $ref: "#/components/responses/RateLimitErrorResponse"

  /financial-crime/networks/{txn_id}:
    get:
      operationId: "getNetworkById"
      tags:
        - "Trace"
      summary: "Trace the proceeds of financial crime through the payments network"
      description: "This endpoint allows you to retrieve the dispersion networks relating to the provided
transaction.
        This includes the submitted transaction as well as the subsequent movement of funds, and possibly
fund movement
        previous to the supplied transaction. Calling this endpoint may generate alerts for other involved
        participants."
      parameters:
        - $ref: "#/components/parameters/TransactionIdentifier"
        - $ref: "#/components/parameters/TraceType"
      responses:
        "200":
          $ref: "#/components/responses/GetNetworkByIdResponseTrace"
        "400":
          $ref: "#/components/responses/BadRequestErrorResponseTrace"
        "401":
          $ref: "#/components/responses/UnauthorisedErrorResponse"
        "403":
          $ref: "#/components/responses/ForbiddenErrorResponseTrace"
        "404":
          $ref: "#/components/responses/NotFoundErrorResponseTrace"
        "405":
          $ref: "#/components/responses/MethodNotAllowedErrorResponseTrace"
        "429":
          $ref: "#/components/responses/RateLimitErrorResponse"
  /financial-crime/visualisations/networks/{network_alert_id}:
    get:
      operationId: "getVizById"
      tags:
        - "Trace"
      summary: "Returns the dispersion network visualization for a given networkAlertID."
      description: "This endpoint returns the dispersion network visualisation asset for the participant
accounts."
      parameters:
        - $ref: "#/components/parameters/NetworkAlertIdTrace"
        - $ref: "#/components/parameters/VizFormat"
        - $ref: "#/components/parameters/VizWidth"
        - $ref: "#/components/parameters/VizHeight"
        - $ref: "#/components/parameters/VizLegend"
        - $ref: "#/components/parameters/VizAxis"
        - $ref: "#/components/parameters/VizColour"
      responses:
        "200":
          $ref: "#/components/responses/GetVizByIdResponseTrace"
```

```yaml
      "400":
        $ref: "#/components/responses/BadRequestErrorResponseTrace"
      "401":
        $ref: "#/components/responses/UnauthorisedErrorResponse"
      "403":
        $ref: "#/components/responses/ForbiddenErrorResponseTrace"
      "404":
        $ref: "#/components/responses/NotFoundErrorResponseTrace"
      "405":
        $ref: "#/components/responses/MethodNotAllowedErrorResponseTrace"
      "429":
        $ref: "#/components/responses/RateLimitErrorResponse"
  /alerts/accounts:
    get:
      tags:
        - Alert
      summary: "Retrieve a list of account alerts."
      description: "This endpoint allows you to retrieve a set of account alerts filtered by a comprehensive set
of optional parameters. Calling without any parameters will return a list of the most recent account alerts.
This endpoint can be called regularly to detect new alerts as they are generated or on an ad-hoc basis to
power an interface."
      operationId: "getAccountAlerts"
      parameters:
        - $ref: "#/components/parameters/SinceDate"
        - $ref: "#/components/parameters/LimitAlerts"
        - $ref: "#/components/parameters/PaginationToken"
        - $ref: "#/components/parameters/Filter"
      responses:
        "200":
          $ref: "#/components/responses/GetAccountAlertsResponseAlert"
        "400":
          $ref: "#/components/responses/BadRequestErrorResponseAlert"
        "401":
          $ref: "#/components/responses/UnauthorisedErrorResponse"
        "403":
          $ref: "#/components/responses/ForbiddenErrorResponseAlert"
        "404":
          $ref: "#/components/responses/NotFoundErrorResponseAlert"
        "405":
          $ref: "#/components/responses/MethodNotAllowedErrorResponseAlert"
        "429":
          $ref: "#/components/responses/RateLimitErrorResponse"
  /alerts/transactions:
    get:
      tags:
        - "Alert"
      summary: "Retrieve a list of transaction alerts"
      description: "This endpoint allows you to retrieve a set of transaction alerts fitting various parameters."
      operationId: "getTransactionAlerts"
      parameters:
        - $ref: "#/components/parameters/SinceDate"
        - $ref: "#/components/parameters/LimitAlerts"
        - $ref: "#/components/parameters/PaginationToken"
        - $ref: "#/components/parameters/Filter"
```

```yaml
      responses:
        "200":
          $ref: "#/components/responses/GetTransactionAlertsResponseAlert"
        "400":
          $ref: "#/components/responses/BadRequestErrorResponseAlert"
        "401":
          $ref: "#/components/responses/UnauthorisedErrorResponse"
        "403":
          $ref: "#/components/responses/ForbiddenErrorResponseAlert"
        "404":
          $ref: "#/components/responses/NotFoundErrorResponseAlert"
        "405":
          $ref: "#/components/responses/MethodNotAllowedErrorResponseAlert"
        "429":
          $ref: "#/components/responses/RateLimitErrorResponse"
  /alerts/networks:
    get:
      tags:
        - "Alert"
      summary: "Retrieve a list of dispersion network alerts"
      description: "This endpoint allows you to retrieve a set of dispersion network alerts fitting various
parameters."
      operationId: "getNetworkAlerts"
      parameters:
        - $ref: "#/components/parameters/SinceDate"
        - $ref: "#/components/parameters/LimitAlerts"
        - $ref: "#/components/parameters/PaginationToken"
        - $ref: "#/components/parameters/Filter"
        - $ref: "#/components/parameters/IncludeAllAlerts"
      responses:
        "200":
          $ref: "#/components/responses/GetNetworkAlertsResponseAlert"
        "400":
          $ref: "#/components/responses/BadRequestErrorResponseAlert"
        "401":
          $ref: "#/components/responses/UnauthorisedErrorResponse"
        "403":
          $ref: "#/components/responses/ForbiddenErrorResponseAlert"
        "404":
          $ref: "#/components/responses/NotFoundErrorResponseAlert"
        "405":
          $ref: "#/components/responses/MethodNotAllowedErrorResponseAlert"
        "429":
          $ref: "#/components/responses/RateLimitErrorResponse"
  /alerts/accounts/{account_alert_id}:
    get:
      tags:
        - "Alert"
      summary: "Retrieves the account alert for a given alertID."
      description: "This endpoint allows you to retrieve an account alert for a given alertID."
      operationId: "getAccountAlertByAlertID"
      parameters:
        - $ref: "#/components/parameters/AccountAlertId"
      responses:
```

```yaml
      "200":
        $ref: "#/components/responses/GetAccountAlertByAlertIDResponseAlert"
      "400":
        $ref: "#/components/responses/BadRequestErrorResponseAlert"
      "401":
        $ref: "#/components/responses/UnauthorisedErrorResponse"
      "403":
        $ref: "#/components/responses/ForbiddenErrorResponseAlert"
      "404":
        $ref: "#/components/responses/NotFoundErrorResponseAlert"
      "405":
        $ref: "#/components/responses/MethodNotAllowedErrorResponseAlert"
      "429":
        $ref: "#/components/responses/RateLimitErrorResponse"
/alerts/transactions/{txn_alert_id}:
  get:
    tags:
      - "Alert"
    summary: "Retrieves the transaction alert for a given alertID"
    description: "This endpoint allows you to retrieve a transaction alert for a given alertID"
    operationId: "getTransactionAlertByAlertID"
    parameters:
      - $ref: "#/components/parameters/TransactionAlertId"
    responses:
      "200":
        $ref: "#/components/responses/GetTransactionAlertByAlertIDResponseAlert"
      "400":
        $ref: "#/components/responses/BadRequestErrorResponseAlert"
      "401":
        $ref: "#/components/responses/UnauthorisedErrorResponse"
      "403":
        $ref: "#/components/responses/ForbiddenErrorResponseAlert"
      "404":
        $ref: "#/components/responses/NotFoundErrorResponseAlert"
      "405":
        $ref: "#/components/responses/MethodNotAllowedErrorResponseAlert"
      "429":
        $ref: "#/components/responses/RateLimitErrorResponse"
/alerts/networks/{network_alert_id}:
  get:
    tags:
      - "Alert"
    summary: "Retrieves the dispersion network alert for a given alertID"
    description: "This endpoint allows you to retrieve a dispersion network alert for a given alertID"
    operationId: "getNetworkAlertByAlertID"
    parameters:
      - $ref: "#/components/parameters/NetworkAlertIdAlert"
      - $ref: "#/components/parameters/IncludeAllAlerts"
    responses:
      "200":
        $ref: "#/components/responses/GetNetworkAlertByAlertIDResponseAlert"
      "400":
        $ref: "#/components/responses/BadRequestErrorResponseAlert"
      "401":
```

```yaml
        $ref: "#/components/responses/UnauthorisedErrorResponse"
      "403":
        $ref: "#/components/responses/ForbiddenErrorResponseAlert"
      "404":
        $ref: "#/components/responses/NotFoundErrorResponseAlert"
      "405":
        $ref: "#/components/responses/MethodNotAllowedErrorResponseAlert"
      "429":
        $ref: "#/components/responses/RateLimitErrorResponse"
  /transaction-id-matches:
    post:
      tags:
        - "Match"
      summary: "Returns the transaction IDs that are possible matches for the supplied transaction details"
      description: "This endpoint evaluates the supplied transaction details and returns a ranked set of
transaction IDs that match those details as closely as possible. Note that the supplied transaction details can
return multiple transactions. The response matches depends on the supplied service parameter:
        * If service matches an onboarded service e.g. FPS, BACS, etc. the match is treated as a 'normal' match.
In this case, all matches
        HAVE to match the source_id and beneficiary_id exactly, but will allow for some variation in time and
value.
        * If service is 'OSS', the match is treated as an outbound match, which is a special case. In this case, the
provided beneficiary_id is used to find a set of transactions sent by the beneficiary within a short time
period after the provided timestamp. Here, OSS stands for 'Out of service scheme' and source_id and value
are ignored for the purpose of the match."
      operationId: "matchTransaction"
      requestBody:
        $ref: "#/components/requestBodies/TransactionIDMatches"
      responses:
        "200":
          $ref: "#/components/responses/MatchTransactionResponseMatchAPI"
        "400":
          $ref: "#/components/responses/BadRequestErrorResponseMatchAPI"
        "401":
          $ref: "#/components/responses/UnauthorisedErrorResponse"
        "403":
          $ref: "#/components/responses/ForbiddenErrorResponseMatchAPI"
        "404":
          $ref: "#/components/responses/NotFoundErrorResponseMatchAPI"
        "405":
          $ref: "#/components/responses/MethodNotAllowedErrorResponseMatchAPI"
        "415":
          $ref: "#/components/responses/UnsupportedMediaTypeErrorResponseMatchAPI"
        "422":
          $ref: "#/components/responses/UnprocessableEntityErrorResponseMatchAPI"
        "429":
          $ref: "#/components/responses/RateLimitErrorResponse"
components:
  parameters:
    #Alert
    SinceDate:
      name: "since"
      description: "List account/transaction/network alerts generated since the supplied date, specified as a
ISO8601/RFC3339 date-time."
```

required: false
      example: "2017-07-21T17:32:28Z"
     in: "query"
     schema:
       type: "string"
       format: "date-time"
   LimitAlerts:
    name: "limit"
    description: "Limit the last n account/transaction/network alerts"
    required: false
    example: 200
    in: "query"
    schema:
      type: "integer"
      minimum: 1
      maximum: 999
  PaginationToken:
    name: "pagination_token"
    description: "Parameter to be used to retrieve next or previous set of alerts"
    required: false
    example: "asc:1617275388000:2SKqogOYg2UQRnP1a4oJ66TFHcvfpZpt"
    in: "query"
    schema:
      type: "string"
      minLength: 1
      maxLength: 256
   Filter:
    name: "filter"
    description: "The filter query parameter provides an ability to write filter expressions for alert records.
By supplying dimensions with comparison operators and expressions, the alerts response can be restricted
for certain records

    ## Following operators are available to filter dimensions:
    | Operator | URL Encoded Format | Description |
    Example
    |
    | -------- | --------------- | ---------------------- |

    |
    | == | %3D%3D | Equals | Return
    results where networkID is exactly d41d8cd98f00b204e9800998ecf8427e
    |
    | >= | %3E%3D | Greater than or equal to | Return
    results where dwellTime is greater than or equal to 2m5s |
    | <= | %3C%3D | Less than or equal to | Return
    results where Generation is less than or equal to 6 |
    | > | %3E | Greater than | Return
    results where length is greater than 10 |
    | < | %3C | Less than | Return
    results where legitimate n is less than 2 |
    ## Rules:
      * Multiple filters can be applied by delimiting the expressions with comma (,)
      * Filter query values must be url encoded to ensure unsafe and non-ASCII characters are accepted."

```yaml
      required: false
    examples:
      account:
        value : "owningBank==934,muleScore>=0.7"
        summary: "Filter account alerts where the owning bank id is 934 and the mule score greater than or
equal to 0.7."
      transaction:
        value : "value<=10000,muleScore<0.7"
        summary: "Filter transaction alerts where the value is less than or equal to 10000 and mule score less
than 0.7."
      network:
        value : "dwellTime>=5m5s,Generation<=6"
        summary: "Filter network alerts so the dwell time is greater than or equal to 5m5s and the Generation
is less than or equal to 6."
    in: "query"
    schema:
      type: "string"
  IncludeAllAlerts:
    name: "include_all_alerts"
    description: "Whether to display non owning masked transaction alerts in the dispersion network"
    required: false
    example: true
    in: "query"
    schema:
      type: "boolean"
      default: false
  AccountAlertId:
    name: "account_alert_id"
    description: "Account alert ID to be retrieved"
    required: true
    example: "86781fb3-7854-4794-82e6-ead8a08c11f9"
    in: "path"
    schema:
      $ref: "#/components/schemas/EventIdentifierAlert"
  TransactionAlertId:
    name: "txn_alert_id"
    description: "Transaction alert ID to be retrieved"
    required: true
    example: "86781fb3-7854-4794-82e6-ead8a08c11f9"
    in: "path"
    schema:
      $ref: "#/components/schemas/EventIdentifierAlert"
  NetworkAlertIdAlert:
    name: "network_alert_id"
    description: "Dispersion network alert ID to be retrieved"
    required: true
    example: "86781fb3-7854-4794-82e6-ead8a08c11f9"
    in: "path"
    schema:
      $ref: "#/components/schemas/EventIdentifierAlert"

  #Trace
  TransactionIdentifier:
    name: "txn_id"
```

```yaml
      description: "Unique identifier of transaction to be traced"
      required: true
      example: "2b588f38-d1bc-40bf-85fc-91397bc98465"
      in: "path"
      schema:
        $ref: "#/components/schemas/TransactionIdentifierTrace"
    TraceType:
      name: "type"
      description: "The type of transaction used to trigger the trace"
      required: true
      example: "FRAUD"
      in: "query"
      schema:
        $ref: "#/components/schemas/TraceTypeTrace"
    NetworkAlertIdTrace:
      name: "network_alert_id"
      description: "Dispersion network alertID to be visualized."
      required: true
      example: "e99a18c428cb38d5f260853678922e03"
      in: "path"
      schema:
        $ref: "#/components/schemas/EventIdentifierTrace"
    VizFormat:
      name: "format"
      description: "Format of the returned asset."
      required: false
      example: "SVG"
      in: "query"
      schema:
        $ref: "#/components/schemas/VizFormatTrace"
    VizWidth:
      name: "width"
      description: "Width(px) of the returned asset."
      required: false
      example: 1280
      in: "query"
      schema:
        $ref: "#/components/schemas/VizWidthTrace"
    VizHeight:
      name: "height"
      description: "Height(px) of the returned asset"
      required: false
      example: 720
      in: "query"
      schema:
        $ref: "#/components/schemas/VizHeightTrace"
    VizLegend:
      name: "legend"
      description: "Boolean filter whether to return legend (true/false)."
      required: false
      example: true
      in: "query"
      schema:
        $ref: "#/components/schemas/VizLegendTrace"
```

```yaml
  VizAxis:
    name: "type"
    description: "Type of X axis"
    required: false
    example: "SEQ"
    in: "query"
    schema:
      $ref: "#/components/schemas/VizAxisTrace"
  VizColour:
    name: "colour_mode"
    description: "Colour palette of the returned asset."
    required: false
    example: "LIGHT"
    in: "query"
    schema:
      $ref: "#/components/schemas/VizColourTrace"
requestBodies:
 #Feedback
 Feedback:
   description: "Feedback provided on the specified alert ID"
   required: true
   content:
     application/json:
       schema:
         $ref: "#/components/schemas/Feedback"
 #MatchAPI
 TransactionIDMatches:
   description: "Response provided to match transactions without an id."
   required: true
   content:
     application/json:
       schema:
         $ref: "#/components/schemas/TransactionIDMatchesBody"
responses:
 #common
 UnauthorisedErrorResponse:
   description: "Unauthorised - your request could not be authorised."
   content:
     application/json:
       schema:
         $ref: "#/components/schemas/ErrorWrapper"
       examples:
         UnauthorisedExample:
           $ref: "#/components/examples/UnauthorisedExample"
 RateLimitErrorResponse:
   description: "Rate Limited - Exceed the designated rate limit."
   content:
     application/json:
       schema:
         $ref: "#/components/schemas/ErrorWrapper"
       examples:
         RateLimitExample:
           $ref: "#/components/examples/RateLimitExample"
 #Feedback
```

```yaml
    PostFeedbackResponse:
      description: "Feedback has been processed"
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/TraceFeedback"
    BadRequestErrorResponseFeedback:
      description: "Bad Request."
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/ErrorWrapper"
          examples:
            BadRequestExample:
              $ref: "#/components/examples/BadRequestExampleFeedback"
    ForbiddenErrorResponseFeedback:
      description: "Forbidden - you do not have permission to make this request."
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/ErrorWrapper"
          examples:
            AccessForbiddenExample:
              $ref: "#/components/examples/AccessForbiddenExample"
            ConsumerForbiddenExample:
              $ref: "#/components/examples/ConsumerForbiddenExampleFeedback"
            ForbiddenNotFoundExample:
              $ref: "#/components/examples/ConsumerForbiddenNotFoundExampleFeedback"
    NotFoundErrorResponseFeedback:
      description: "Not found - the url path does not exist or alert id not found."
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/ErrorWrapper"
          examples:
            NotFoundExample:
              $ref: "#/components/examples/NotFoundExample"
            TransactionNotFoundExample:
              $ref: "#/components/examples/AlertIdNotFoundExampleFeedback"
    MethodNotAllowedErrorResponseFeedback:
      description: "Method not allowed - http method not supported."
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/ErrorWrapper"
          examples:
            MethodNotAllowedExample:
              $ref: "#/components/examples/MethodNotAllowedExampleFeedback"
    ConflictErrorResponseFeedback:
      description: "Conflict - Alert ID does not match the specified entity"
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/ErrorWrapper"
```

```yaml
      examples:
        ConflictExample:
          $ref: "#/components/examples/ConflictExampleFeedback"
UnsupportedMediaTypeErrorResponseFeedback:
  description: "Unsupported media type - Only application/json is allowed."
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/ErrorWrapper"
      examples:
        UnsupportedMediaTypeExample:
          $ref: "#/components/examples/UnsupportedMediaTypeExampleFeedback"
UnprocessableEntityErrorResponseFeedback:
  description: "Unprocessable Entity - Failed to process the body."
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/ErrorWrapper"
      examples:
        UnprocessableEntityExample:
          $ref: "#/components/examples/UnprocessableEntityExampleFeedback"

#MatchAPI
MatchTransactionResponseMatchAPI:
  description: "Transaction has been matched"
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/TransactionIDMatchesMatchAPI"
BadRequestErrorResponseMatchAPI:
  description: "Bad Request."
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/ErrorWrapper"
      examples:
        BadRequestExample:
          $ref: "#/components/examples/BadRequestExampleMatchAPI"
ForbiddenErrorResponseMatchAPI:
  description: "Forbidden - you do not have permission to make this request."
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/ErrorWrapper"
      examples:
        AccessForbiddenExample:
          $ref: "#/components/examples/AccessForbiddenExample"
        ConsumerForbiddenExample:
          $ref: "#/components/examples/ConsumerForbiddenExampleMatchAPI"
        ForbiddenNotFoundExample:
          $ref: "#/components/examples/ConsumerForbiddenNotFoundExampleMatchAPI"
NotFoundErrorResponseMatchAPI:
  description: "Not found - the url path does not exist."
  content:
```

```yaml
        application/json:
          schema:
            $ref: "#/components/schemas/ErrorWrapper"
          examples:
            NotFoundExample:
              $ref: "#/components/examples/NotFoundExample"
MethodNotAllowedErrorResponseMatchAPI:
  description: "Method not allowed - http method not supported."
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/ErrorWrapper"
      examples:
        MethodNotAllowedExample:
          $ref: "#/components/examples/MethodNotAllowedExampleMatchAPI"
UnsupportedMediaTypeErrorResponseMatchAPI:
  description: "Unsupported media type - Only application/json is allowed."
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/ErrorWrapper"
      examples:
        UnsupportedMediaTypeExample:
          $ref: "#/components/examples/UnsupportedMediaTypeExampleMatchAPI"
UnprocessableEntityErrorResponseMatchAPI:
  description: "Unprocessable Entity - Failed to process the body."
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/ErrorWrapper"
      examples:
        UnprocessableEntityExample:
          $ref: "#/components/examples/UnprocessableEntityExampleMatchAPI"
#Alert
GetAccountAlertsResponseAlert:
  description: "Account alert has been processed"
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/AccountAlerts"
GetTransactionAlertsResponseAlert:
  description: "Transaction alert has been processed"
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/TransactionAlerts"
GetNetworkAlertsResponseAlert:
  description: "Network alert has been processed"
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/NetworkAlerts"
GetAccountAlertByAlertIDResponseAlert:
  description: "Account alert by id has been processed"
```

```yaml
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/AccountAlert"
    GetTransactionAlertByAlertIDResponseAlert:
      description: "Transaction alert by id has been processed"
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/TransactionAlert"
    GetNetworkAlertByAlertIDResponseAlert:
      description: "Network alert by id has been processed"
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/NetworkAlert"
    BadRequestErrorResponseAlert:
      description: "Bad Request."
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/ErrorWrapper"
          examples:
            BadRequestExample:
              $ref: "#/components/examples/BadRequestExampleAlert"
    ForbiddenErrorResponseAlert:
      description: "Forbidden - you do not have permission to make this request."
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/ErrorWrapper"
          examples:
            AccessForbiddenExample:
              $ref: "#/components/examples/AccessForbiddenExample"
            ConsumerForbiddenExample:
              $ref: "#/components/examples/ConsumerForbiddenExampleAlert"
            ForbiddenNotFoundExample:
              $ref: "#/components/examples/ConsumerForbiddenNotFoundExampleAlert"
    NotFoundErrorResponseAlert:
      description: "Not found - the url path does not exists or transaction not found."
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/ErrorWrapper"
          examples:
            NotFoundExample:
              $ref: "#/components/examples/NotFoundExample"
            AlertIdNotFoundExample:
              $ref: "#/components/examples/AlertIdNotFoundExampleAlert"
    MethodNotAllowedErrorResponseAlert:
      description: "Method not allowed - http method not supported."
      content:
        application/json:
          schema:
```

```yaml
          $ref: "#/components/schemas/ErrorWrapper"
        examples:
          MethodNotAllowedExample:
            $ref: "#/components/examples/MethodNotAllowedExampleAlert"
#Trace
GetNetworkByIdResponseTrace:
  description: "Transaction has been traced."
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/TracedNetworks"
GetVizByIdResponseTrace:
  description: "Visualisation has been created."
  content:
    application/pdf:
      schema:
        format: "binary"
    image/svg+xml:
      schema:
        format: "string"
BadRequestErrorResponseTrace:
  description: "Bad Request."
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/ErrorWrapper"
      examples:
        BadRequestExample:
          $ref: "#/components/examples/BadRequestExampleTrace"
ForbiddenErrorResponseTrace:
  description: "Forbidden - you do not have permission to make this request."
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/ErrorWrapper"
      examples:
        AccessForbiddenExample:
          $ref: "#/components/examples/AccessForbiddenExample"
        ConsumerForbiddenExample:
          $ref: "#/components/examples/ConsumerForbiddenExampleTrace"
        ForbiddenNotFoundExample:
          $ref: "#/components/examples/ConsumerForbiddenNotFoundExampleTrace"
NotFoundErrorResponseTrace:
  description: "Not found - the url path does not exists or transaction not found."
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/ErrorWrapper"
      examples:
        NotFoundExample:
          $ref: "#/components/examples/NotFoundExample"
        TransactionNotFoundExample:
          $ref: "#/components/examples/TransactionNotFoundExampleTrace"
MethodNotAllowedErrorResponseTrace:
```

```yaml
        description: "Method not allowed - http method not supported."
      content:
        application/json:
          schema:
            $ref: "#/components/schemas/ErrorWrapper"
          examples:
            MethodNotAllowedExample:
              $ref: "#/components/examples/MethodNotAllowedExampleTrace"
schemas:
#common
  ErrorWrapper:
    description: "A top level object for errors."
    type: "object"
    required:
      - Errors
    properties:
      Errors:
        $ref: "#/components/schemas/Errors"
  Errors:
    description: "Object that contains the list of errors."
    type: "object"
    required:
      - Error
    properties:
      Error:
        $ref: "#/components/schemas/ErrorList"
  ErrorList:
    description: "The list of errors."
    type: "array"
    minItems: 1
    items:
      $ref: "#/components/schemas/Error"
  Error:
    description: "A single error."
    type: "object"
    properties:
      Source:
        type: "string"
        description: "Information about where the error happened."
        example:
          - "FEEDBACK_FINANCIAL_CRIME"
          - "MATCH_FINANCIAL_CRIME"
          - "ALERT_FINANCIAL_CRIME"
          - "TRACE_FINANCIAL_CRIME"
        minLength: 1
        maxLength: 1000
      ReasonCode:
        type: "string"
        description: "The http error code in words."
        example: "BAD_REQUEST"
        minLength: 1
        maxLength: 100
      Description:
        type: "string"
```

```
        description: "A description of the error."
        example: "We could not handle your request."
        minLength: 1
        maxLength: 1000
      Recoverable:
        type: "boolean"
        description: "Indicates if the request can be presented again for processing."
        example: false
      Details:
        type: "string"
        description: "More details about the error."
        example: "The request contains a bad payload"
        minLength: 1
        maxLength: 10000

  #Feedback
    Feedback:
      type: "object"
      required:
        - "alertID"
        - "alertType"
        - "entityID"
        - "decisionDate"
        - "feedback"
      properties:
        alertID:
          type: "string"
          description: "Reference to the original alertID on which feedback is based."
          example: "e99a18c428cb38d5f260853678922e03"
          minLength: 10
          maxLength: 100
        alertType:
          type: "string"
          description: "Type of alert provided by the trace financial crime api."
          example: "ACCOUNT_ALERT"
          enum:
            - "ACCOUNT_ALERT"
            - "TRANSACTION_ALERT"
            - "NETWORK_ALERT"
          minLength: 5
          maxLength: 100
        entityID:
          type: "string"
          description: "Unique, consistent account/transaction or network identifier depending on the
alertType, if account use IBAN following ISO 13616 where possible"
          example: "GB98MIDL07009312345678"
          minLength: 5
          maxLength: 100
        decisionDate:
          type: "string"
          description: "Date on which the decision was taken by the financial institution as per ISO 8601."
          example: "2017-07-21T17:32:28.001Z"
          format: "date-time"
        feedback:
```

```yaml
        type: "string"
        description: "The most recent feedback label received against this account alert"
        example: "ACTIONED_MULE"
        enum:
          - "ACTIONED_MULE"
          - "CONFIRMED_LEGITIMATE"
        minLength: 5
        maxLength: 100
  TraceFeedback:
    type: "object"
    required:
      - "feedbackID"
    properties:
      feedbackID:
        description: "The unique ID of the feedback response."
        type: "string"
        example: "2b588f38d1bc40bf85fc91397bc98465"
        minLength: 1
        maxLength: 100

#MatchAPI
  TransactionIDMatchesBody:
    type: "object"
    required:
      - "service"
      - "sourceID"
      - "beneficiaryID"
      - "transactionTime"
      - "amount"
    properties:
      service:
        type: string
        description: "Code describing service that transaction is a part of."
        example: "FPS"
        enum:
        - "Bacs"
        - "FPS"
        minLength: 3
        maxLength: 4
      sourceID:
        type: string
        description: "Source account identifier"
        example: "GB98MIDL07009312345678"
        minLength: 5
        maxLength: 34
        nullable: false
      beneficiaryID:
        type: string
        description: "Recipient of the payment"
        example: "GB98MIDL07009312345678"
        minLength: 5
        maxLength: 34
        nullable: false
      transactionTime:
```

```yaml
        type: "string"
        description: "Date time as per ISO 8601."
        example: "2017-07-21T17:32:28.001Z"
        format: "date-time"
      amount:
        type: "integer"
        description: "The integer value of the payment in the fractional unit (e.g. pence, cents) where used
and in the main unit (e.g. krÃ³na) when fractional units are not used."
        example: 10034
        format: "int64"
        minimum: 1
        maximum: 5000000000000
  AccountIdentifierMatchAPI:
    type: "string"
    description: "Unique, consistent account identifier, ideally the IBAN following ISO 13616 where
possible."
    example: "GB98MIDL07009312345678"
    minLength: 5
    maxLength: 34
    nullable: false
  ValueMatchAPI:
    type: "integer"
    description: "The integer value of the payment in the fractional unit (e.g. pence, cents) where used and
in the main unit (e.g. krÃ³na) when fractional units are not used."
    example: 10034
    format: "int64"
    minimum: 1
    maximum:  5000000000000
  TransactionIdentifierMatchAPI:
    type: "string"
    description: "Unique transaction identifier."
    example: "2b588f38-d1bc-40bf-85fc-91397bc98465"
    minLength: 10
    maxLength: 100
  TransactionIDMatchesMatchAPI:
    type: "object"
    properties:
      matchID:
        type: "string"
        description: "Unique match identifier."
        example: "e99a18c428cb38d5f260853678922e03"
        minLength: 10
        maxLength: 100
      sourceID:
        $ref: "#/components/schemas/AccountIdentifierMatchAPI"
      beneficiaryID:
        $ref: "#/components/schemas/AccountIdentifierMatchAPI"
      refTime:
        type: "string"
        description: "Time associated with a match as per ISO 8601."
        example: "2017-07-21T17:32:28.001Z"
        format: "date-time"
      matches:
        description: "List of matched transactions."
```

```yaml
      type: "array"
      items:
        properties:
          txnID:
            $ref: "#/components/schemas/TransactionIdentifierMatchAPI"
          time:
            type: "string"
            description: "Time associated with a transaction as per ISO 8601."
            example: "2017-07-21T17:32:28.001Z"
            format: "date-time"
          amount:
            $ref: "#/components/schemas/ValueMatchAPI"

  #Alert
  AlertsMetadata:
    type: "object"
    properties:
      totalRecords:
        type: "integer"
        description: "The number of alerts available with the search"
        example: 505
      displayedRecords:
        type: "integer"
        description: "The number of alerts displayed in the response"
        example: 56
      nextPaginationToken:
        description: "Token which can be used with `pagination_token` to retrieve next set of alerts"
        type: "string"
        example: "asc:1617275388000:2SKqogOYg2UQRnP1a4oJ66TFHcvfpZpt"
        minLength: 1
        maxLength: 256
      previousPaginationToken:
        description: "Token which can be used with `pagination_token` to retrieve previous set of alerts"
        type: "string"
        example: "asc:1617275388000:2SKqogOYg2UQRnP1a4oJ66TFHcvfpZpt"
        minLength: 1
        maxLength: 256
  EventIdentifierAlert:
    type: "string"
    description: "Unique event identifier."
    example: "e99a18c428cb38d5f260853678922e03"
    minLength: 10
    maxLength: 100
  AccountIdentifierAlert:
    type: "string"
    description: "Unique, consistent account identifier, ideally the IBAN following ISO 13616 where
possible."
    example: "GB98MIDL07009312345678"
    minLength: 5
    maxLength: 34
    nullable: false
  TransactionIdentifierAlert:
    type: "string"
    description: "Unique transaction identifier."
```

example: "2b588f38-d1bc-40bf-85fc-91397bc98465"
        minLength: 10
        maxLength: 100
    BankIdentifierAlert:
        type: "string"
        description: "Bank Identifier, can be Bank Identifier Code or Business Identifier Code (BIC) following ISO 9362; If this account is a source account, this field maps onto the pacs.008 FIToFICstmrCdtTrf/GrpHdr/InstgAgt for the first leg of the transaction. If this account is the destination account this field maps onto the FIToFICstmrCdtTrf/GrpHdr/InstdAgt for the final leg."
        example: "DEUTDEFF"
        minLength: 1
        maxLength: 20
    MuleScoreAlert:
        type: "number"
        description: "The probability of an account being a money mule"
        example: 0.87
        minimum: 0
        maximum: 1
    GenerationAlert:
        type: "integer"
        description: "The generation of an account relative to the start of a specific dispersion. The account that receives the fraudulent funds from the victim is generation 1."
        example: 4
        minimum: 1
        maximum: 100
    TraceTypeAlert:
        type: "string"
        description: "Description of the transaction, e.g. 'FRAUD', 'SUSPECT', 'RETRACTION', 'ROMANCE_SCAM', 'PURCHASE_SCAM','INVESTMENT_SCAM', 'INVOICE_SCAM', 'ADVANCE_FEE_SCAM', 'IMPERSONATION_SCAM','FAMILY_EMERGENCY_SCAM'"
        example: "FRAUD"
        minLength: 5
        maxLength: 100
    FeedbackStatus:
        type: "string"
        description: "The most recent feedback label received against this account alert, e.g. 'ACTIONED_MULE', 'CONFIRMED_LEGITIMATE'"
        example: "ACTIONED_MULE"
        minLength: 5
        maxLength: 100
    AccountAlert:
        type: object
        required:
          - "id"
          - "networkAlertID"
          - "accountID"
          - "networkID"
          - "owningBankID"
          - "owningBankName"
          - "time"
          - "muleScore"
          - "endpointFlag"
          - "receivesSalary"
        description: "A minimal account model containing additional alert properties"

```yaml
properties:
  id:
    type: "string"
    description: "Unique account alert identifier."
    example: "e99a18c428cb38d5f260853678922e03"
    minLength: 10
    maxLength: 100
  networkAlertID:
    type: "string"
    description: "Unique network alert identifier."
    example: "e99a18c428cb38d5f260853678922e03"
    minLength: 10
    maxLength: 100
  accountID:
    $ref: "#/components/schemas/AccountIdentifierAlert"
  networkID:
    type: "string"
    description: "Unique network identifier."
    example: "2b588f38-d1bc-40bf-85fc-91397bc98465"
    minLength: 10
    maxLength: 100
  owningBankID:
    $ref: "#/components/schemas/BankIdentifierAlert"
  owningBankName:
    type: "string"
    description: "Owning bank name - this is the bank that owns the account."
    example: "OwningBank"
    minLength: 1
    maxLength: 100
  time:
    type: "string"
    description: "The time associated with the account alert as per ISO 8601."
    example: "2017-07-21T17:32:28.001Z"
    format: date-time
  name:
    type: "string"
    description: "Name against the account"
    example: "Charlié Döe"
    minLength: 1
    maxLength: 100
  muleScore:
    $ref: "#/components/schemas/MuleScoreAlert"
  sourceTransactionValue:
    type: "integer"
    description: "The value of the source transaction in a dispersion network as the integer value of the
payment in the fractional unit (e.g. pence, cents) where used and in the main unit (e.g. króna) when
fractional units are not used."
    example: 10034
    format: "int64"
    minimum: 1
    maximum: 5000000000000
  endpointFlag:
    type: "boolean"
    description: "This account alert is an endpoint"
```

```
      example: true
    numOutboundRelationships:
      type: "integer"
      description: "The number of outbound relationships of this account at the time of the alert"
      example: 3
      minimum: 0
      maximum: 100
    numInboundRelationships:
      type: "integer"
      description: "The number of inbound relationships of this account at the time of the alert"
      example: 7
      minimum: 0
      maximum: 100
    numScheduledMandates:
      type: "integer"
      description: "The number of scheduled mandates associated with this account at the time of the alert"
      example: 2
      minimum: 0
      maximum: 100
    firstAppearance:
      type: "string"
      description: "The first time we observed this account in a dispersion"
      example: "2017-07-21T17:32:28.001Z"
      format: "date-time"
    mostRecentAppearance:
      type: string
      description: "The most recent time we observed this account in a dispersion, before this alert"
      example: "2017-07-21T17:32:28.001Z"
      format: "date-time"
    firstTransactionTime:
      type: "string"
      description: "The time of the first transaction ever seen associated with this account"
      example: "2017-07-21T17:32:28.001Z"
      format: "date-time"
    mostRecentTransactionTime:
      type: "string"
      description: "The time of the most recent transaction seen associated with this account relative to the
time of the alert"
      example: "2017-07-21T17:32:28.001Z"
      format: "date-time"
    receivesSalary:
      type: "boolean"
      description: "If true, this account is known to receive a salary"
      example: true
    dwellTime:
      type: string
      description: "If appropriate, the dwell time is the amount of time that funds spent in this account
during the dispersion that generated this alert. If this account was a source of funds or an endpoint then
this field will be blank. This field is formatted as an ISO8601 duration."
      example: "P3Y6M4DT12H30M5S"
      pattern:
"^P(?!$)(\\d+(?:\\.\\d+)?Y)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?W)?(\\d+(?:\\.\\d+)?D)?(T(?=\\d)(\\d+(?:\\.
\\d+)?H)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?S)?)?$"
    numNetworks:
```

```yaml
        type: "integer"
        description: "The number of dispersion networks we have seen this account be a part of, including the
dispersion that caused this alert"
        example: 3
        maximum: 1000
        minimum: 1
      numTracedNetworks:
        type: integer
        description: "The number of traced dispersion networks this account has been a part of"
        example: 2
        maximum: 1000
        minimum: 1
      generation:
        $ref: "#/components/schemas/GenerationAlert"
      traceType:
        $ref: "#/components/schemas/TraceTypeAlert"
      totalSuspiciousValueInbound:
        type: integer
        description: "The total value of suspicious funds that have been sent to this account as the integer
value of the payment in the fractional unit (e.g. pence, cents) where used and in the main unit (e.g. krÃ³na)
when fractional units are not used."
        example: 10034
        format: "int64"
        minimum: 1
        maximum: 5000000000000
      totalSuspiciousValueOutbound:
        type: "integer"
        description: "The total value of suspicious funds that have been sent from this account as the integer
value of the payment in the fractional unit (e.g. pence, cents) where used and in the main unit (e.g. krÃ³na)
when fractional units are not used."
        example: 10034
        format: "int64"
        minimum: 1
        maximum: 5000000000000
      totalValueInbound:
        type: "integer"
        description: "The total value of funds that have been sent to this account over last 13 months as the
integer value of the payment in the fractional unit (e.g. pence, cents) where used and in the main unit (e.g.
krÃ³na) when fractional units are not used."
        example: 10034
        format: "int64"
        minimum: 1
        maximum: 5000000000000
      totalValueOutbound:
        type: "integer"
        description: "The total value of funds that have been sent from this account over last 13 months as
the integer value of the payment in the fractional unit (e.g. pence, cents) where used and in the main unit
(e.g. krÃ³na) when fractional units are not used."
        example: 10034
        format: "int64"
        minimum: 1
        maximum: 5000000000000
      generations:
        type: "array"
```

```yaml
      items:
        type: "integer"
        minimum: 1
        maximum: 100
      description: "The generations that this account has appeared in across all the other dispersion
networks it has occurred in"
      example:
        - 1
        - 1
        - 2
        - 3
        - 3
        - 3
    mostRecentFeedback:
      $ref: "#/components/schemas/FeedbackStatus"
    parentAlertID:
      type: "string"
      description: "Reference to the original alertID on which feedback was based"
      example: "e99a18c428cb38d5f260853678922e03"
      minLength: 10
      maxLength: 1000
    decisionDate:
      type: "string"
      description: "Date on which the decision was taken by the financial institution"
      example: "2017-07-21T17:32:28.001Z"
      format: "date-time"
  AccountAlerts:
    allOf:
      - $ref: "#/components/schemas/AlertsMetadata"
      - type: "object"
        properties:
          alerts:
            description: "List of account alerts"
            items:
              $ref: "#/components/schemas/AccountAlert"
  ValueAlert:
    type: integer
    description: "The integer value of the payment in the fractional unit (e.g. pence, cents) where used and
in the main unit (e.g. krÃ³na) when fractional units are not used."
    example: 10034
    format: int64
    minimum: 1
    maximum: 9223372036854776000
  TransactionAlert:
    type: object
    required:
      - "networkAlertID"
      - "networkID"
      - "time"
      - "txnTime"
      - "sourceID"
      - "destID"
      - "sourceBankID"
      - "destBankID"
```

```yaml
      - "value"
  description: "A minimal transaction model containing additional alert properties."
  properties:
   id:
     type: "string"
     description: "Unique transaction alert identifier."
     example: "e99a18c428cb38d5f260853678922e03"
     minLength: 10
     maxLength: 100
   txnID:
     type: "string"
     description: "Unique transaction identifier."
     example: "2b588f38-d1bc-40bf-85fc-91397bc98465"
     minLength: 10
     maxLength: 100
   networkAlertID:
     type: "string"
     description: "Unique network alert identifier."
     example: "e99a18c428cb38d5f260853678922e03"
     minLength: 10
     maxLength: 100
   networkID:
     type: "string"
     description: "Unique network identifier."
     example: "2b588f38-d1bc-40bf-85fc-91397bc98465"
     minLength: 10
     maxLength: 100
   time:
     type: "string"
     description: "The time associated with the transaction alert as per ISO 8601."
     example: "2017-07-21T17:32:28.001Z"
     format: "date-time"
   txnTime:
     type: "string"
     description: "The time associated with the transaction as per ISO 8601."
     example: "2017-07-21T17:32:28.001Z"
     format: "date-time"
   sourceID:
     $ref: "#/components/schemas/AccountIdentifierAlert"
   destID:
     $ref: "#/components/schemas/AccountIdentifierAlert"
   sourceBankID:
     $ref: "#/components/schemas/BankIdentifierAlert"
   sourceBankName:
     type: "string"
     description: "Source bank name - this is the bank that owns the source account."
     example: "Barclays"
     minLength: 1
     maxLength: 100
   destBankID:
     $ref: "#/components/schemas/BankIdentifierAlert"
   destBankName:
     type: "string"
     description: "Destination bank name - this is the bank that owns the destination account."
```

example: "Lloyds"
        minLength: 1
        maxLength: 100
      value:
        $ref: "#/components/schemas/ValueAlert"
    remitInfo:
        type: "string"
        description: "Remittance information as entered by the sender of the transaction. This field maps onto pacs.008 /FIToFICstmrCdtTrf/CdtTrfTxInf/RltdRmtInf/RmtInf/Ustrd/ in the ISO20002 standard. See https://www.iso20022.org/standardsrepository/type/RemittanceInformation16 for further information."
        example: "rent 10 Main St"
        minLength: 1
        maxLength: 140
    generation:
        type: "integer"
        description: "The generation the destination account appeared in the dispersion network that caused this alert relative to the start of the dispersion. The account that receives the fraudulent funds from the victim is generation 1."
        example: 4
        minimum: 1
        maximum: 100
    currency:
        type: "string"
        description: "The currency of the transaction based on a subset of ISO 4217."
        example: "GBP"
        minLength: 3
        maxLength: 3
    service:
        type: "string"
        description: "The service used for the payment, e.g. 'Bacs', 'FPS'"
        example: "FPS"
        minLength: 2
        maxLength: 10
    dwellTime:
        type: string
        description: "The amount of time that funds spent in the source account before the transaction associated with this alert. This field will only be populated if this alert was generated as part of a dispersion, and is formatted as an ISO8601 duration."
        example: P3Y6M4DT12H30M5S
        pattern:
"^P(?!$)(\\d+(?:\\.\\d+)?Y)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?W)?(\\d+(?:\\.\\d+)?D)?(T(?=\\d)(\\d+(?:\\.\\d+)?H)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?S)?)?$"
    traceType:
        $ref: "#/components/schemas/TraceTypeAlert"
    muleScore:
        $ref: "#/components/schemas/MuleScoreAlert"
    parentAlertID:
        type: "string"
        description: "Reference to the original alertID on which feedback was based"
        example: "e99a18c428cb38d5f260853678922e03"
        minLength: 10
        maxLength: 100
    decisionDate:
        type: "string"

```yaml
        description: "Date on which the decision was taken by the financial institution"
        example: "2017-07-21T17:32:28.001Z"
        format: "date-time"
      mostRecentFeedback:
        $ref: "#/components/schemas/FeedbackStatus"
  TransactionAlerts:
    allOf:
      - $ref: "#/components/schemas/AlertsMetadata"
      - type: "object"
        properties:
          alerts:
            description: "List of transaction alerts"
            items:
              $ref: "#/components/schemas/TransactionAlert"
  NetworkAlert:
    type: object
    required:
      - "id"
      - "time"
      - "networkID"
    description: Response data model for network alerts
    properties:
      id:
        $ref: "#/components/schemas/EventIdentifierAlert"
      time:
        type: string
        example: "2017-07-21T17:32:28.001Z"
        format: date-time
        description: The alert time
      networkID:
        $ref: "#/components/schemas/TransactionIdentifierAlert"
      transactionAlerts:
        type: array
        description: List of transaction alerts
        items:
          $ref: "#/components/schemas/TransactionAlert"
      accountAlerts:
        type: array
        description: List of account alerts
        items:
          $ref: "#/components/schemas/AccountAlert"
      vizURL:
        type: "string"
        format: "uri"
        description: "URL of the dispersion network visualisation."
        example:
"https://api.fcs.uk.mastercard.com/trace/financialcrime/viz/d41d8cd98f00b204e9800998ecf8427e"
        minLength: 12
        maxLength: 200
      sourceTxnID:
        type: "string"
        description: "Unique source transaction identifier."
        example: "2b588f38-d1bc-40bf-85fc-91397bc98465"
        minLength: 10
```

maxLength: 100
     sourceTxnType:
      $ref: "#/components/schemas/TraceTypeAlert"
     length:
      type: "integer"
      description: "The length of dispersion network, defined as the number of transactions in the
dispersion network."
      example: 20
      minimum: 1
      maximum: 1000
     generations:
      type: "integer"
      description: "The number of generations in the dispersion network."
      example: 3
      minimum: 1
      maximum: 10
     totalValue:
      type: "integer"
      description: "The total value of all the transactions in the dispersion network as the integer value of
payment in
       the fractional unit (e.g. pence, cents) where used and in the main unit (e.g. krÃ³na) when fractional
units are not
       used."
      example: 10034
      format: "int64"
      minimum: 1
      maximum: 9223372036854775807
     sourceValue:
      type: "integer"
      description: "The source value of a dispersion network as the integer value of payment in the
fractional unit (e.g.
       pence, cents) where used and in the main unit (e.g. krÃ³na) when fractional units are not used."
      example: 10034
      format: "int64"
      minimum: 1
      maximum: 5000000000000
     uniqueAccounts:
      type: "integer"
      description: "The number of unique accounts in this dispersion network."
      example: 16
      minimum: 2
      maximum: 100
     meanDwellTime:
      type: "string"
      description: "The average (mean) time funds remain in intermediary accounts in this dispersion
network specified as an ISO8601 duration string."
      example: "P3Y6M4DT12H30M5S"
      pattern:
"^P(?!\$)(\\d+(?:\\.\\d+)?Y)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?W)?(\\d+(?:\\.\\d+)?D)?(T(?=\\d)(\\d+(?:\\.
\\d+)?H)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?S)?)?\$"
     medianDwellTime:
      type: "string"
      description: "The average (median) time funds remain in intermediary accounts in this dispersion
network specified as an ISO8601 duration string."

```
      example: "P3Y6M4DT12H30M5S"
      pattern:
"^P(?!$)(\\d+(?:\\.\\d+)?Y)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?W)?(\\d+(?:\\.\\d+)?D)?(T(?=\\d)(\\d+(?:\\.
\\d+)?H)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?S)?)?$"
    meanMuleScore:
      type: "number"
      description: "The average (mean) mule score of accounts in this dispersion network."
      example: 0.845
      minimum: 0
      maximum: 1.0
    elapsedTime:
      type: "string"
      description: "The amount of time this dispersion took, from the earliest transaction to the last
transaction specified as an ISO8601 duration string"
      example: "P3Y6M4DT12H30M5S"
      pattern:
"^P(?!$)(\\d+(?:\\.\\d+)?Y)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?W)?(\\d+(?:\\.\\d+)?D)?(T(?=\\d)(\\d+(?:\\.
\\d+)?H)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?S)?)?$"
    numActionedMules:
      type: "integer"
      description: "The number of actioned mules in this dispersion network."
      example: 2
      minimum: 0
      maximum: 100
    numLegitimate:
      type: "integer"
      description: "The number of confirmed legitimate accounts in this dispersion network."
      example: 7
      minimum: 0
      maximum: 100
    numNotInvestigated:
      type: "integer"
      description: "The number of accounts in this dispersion network that have not been investigated."
      example: 3
      minimum: 0
      maximum: 100
    parentAlertID:
      type: "string"
      description: "Reference to the original alertID on which feedback was based."
      example: "e99a18c428cb38d5f260853678922e03"
      minLength: 10
      maxLength: 100
    decisionDate:
      type: "string"
      description: "Time at which the decision was taken by the financial institution as per ISO 8601."
      example: "2017-07-21T17:32:28.001Z"
      format: date-time
    mostRecentFeedback:
      type: "string"
      description: "The most recent feedback label received against this account alert, e.g.
'ACTIONED_MULE', 'CONFIRMED_LEGITIMATE'"
      example: "ACTIONED_MULE"
      minLength: 5
      maxLength: 100
```

```yaml
    NetworkAlerts:
      allOf:
        - $ref: "#/components/schemas/AlertsMetadata"
        - type: object
          properties:
            alerts:
              description: List of dispersion network alerts
              items:
                $ref: "#/components/schemas/NetworkAlert"
  #Trace
    TransactionIdentifierTrace:
      type: "string"
      description: "Unique transaction identifier, prepend with 'match' if an outbound transaction."
      example: "2b588f38-d1bc-40bf-85fc-91397bc98465"
      minLength: 10
      maxLength: 100
    TraceTypeTrace:
      type: "string"
      description: "Description of the transaction, e.g. 'FRAUD', 'SUSPECT', 'RETRACTION', 'ROMANCE_SCAM',
'PURCHASE_SCAM','INVESTMENT_SCAM', 'INVOICE_SCAM', 'ADVANCE_FEE_SCAM',
'IMPERSONATION_SCAM','FAMILY_EMERGENCY_SCAM'"
      example: "FRAUD"
      minLength: 5
      maxLength: 100
    EventIdentifierTrace:
      type: "string"
      description: "Unique event identifier."
      example: "e99a18c428cb38d5f260853678922e03"
      minLength: 10
      maxLength: 100
    TracedNetworks:
      description: "List of traced networks."
      type: "array"
      items:
        $ref: "#/components/schemas/TracedNetwork"
    TracedNetwork:
      description: "A single traced network."
      type: "object"
      required:
        - "id"
        - "time"
        - "networkID"
        - "transactionAlerts"
        - "accountAlerts"
        - "vizURL"
        - "sourceTxnID"
        - "sourceTxnType"
        - "length"
        - "generations"
        - "totalValue"
        - "sourceValue"
        - "uniqueAccounts"
        - "meanDwellTime"
        - "medianDwellTime"
```

```yaml
      - "meanMuleScore"
      - "elapsedTime"
      - "numActionedMules"
      - "numLegitimate"
      - "numNotInvestigated"
      - "parentAlertID"
      - "decisionDate"
      - "mostRecentFeedback"
    properties:
     id:
       type: "string"
       description: "Unique request identifier."
       example: "e99a18c428cb38d5f260853678922e03"
       minLength: 10
       maxLength: 100
     time:
       type: "string"
       description: "The time associated with the traced network alert as per ISO 8601."
       example: "2017-07-21T17:32:28.001Z"
       format: date-time
     networkID:
       type: "string"
       description: "Unique network identifier."
       example: "2b588f38-d1bc-40bf-85fc-91397bc98465"
       minLength: 10
       maxLength: 100
     transactionAlerts:
       type: "array"
       items:
         $ref: "#/components/schemas/TransactionAlertBasicTrace"
     accountAlerts:
       type: "array"
       items:
         $ref: "#/components/schemas/AccountAlertBasicTrace"
     vizURL:
       type: "string"
       format: "uri"
       description: "URL of the dispersion network visualisation."
       example:
"https://api.fcs.uk.mastercard.com/trace/financialcrime/viz/d41d8cd98f00b204e9800998ecf8427e"
       minLength: 12
       maxLength: 200
     sourceTxnID:
       type: "string"
       description: "Unique source transaction identifier."
       example: "2b588f38-d1bc-40bf-85fc-91397bc98465"
       minLength: 10
       maxLength: 100
     sourceTxnType:
       $ref: "#/components/schemas/TraceTypeTrace"
     length:
       type: "integer"
       description: "The length of dispersion network, defined as the number of transactions in the
dispersion network."
```

```
        example: 20
        minimum: 1
        maximum: 1000
      generations:
        type: "integer"
        description: "The number of generations in the dispersion network."
        example: 3
        minimum: 1
        maximum: 10
      totalValue:
        type: "integer"
        description: "The total value of all the transactions in the dispersion network as the integer value of
payment in
          the fractional unit (e.g. pence, cents) where used and in the main unit (e.g. krÃ³na) when fractional
units are not
          used."
        example: 10034
        format: "int64"
        minimum: 1
        maximum: 9223372036854775807
      sourceValue:
        type: "integer"
        description: "The source value of a dispersion network as the integer value of payment in the
fractional unit (e.g.
          pence, cents) where used and in the main unit (e.g. krÃ³na) when fractional units are not used."
        example: 10034
        format: "int64"
        minimum: 1
        maximum: 9223372036854775807
      uniqueAccounts:
        type: "integer"
        description: "The number of unique accounts in this dispersion network."
        example: 16
        minimum: 2
        maximum: 100
      meanDwellTime:
        type: "string"
        description: "The average (mean) time funds remain in intermediary accounts in this dispersion
network specified as an ISO8601 duration string."
        example: "P3Y6M4DT12H30M5S"
        pattern:
"^P(?!$)(\\d+(?:\\.\\d+)?Y)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?W)?(\\d+(?:\\.\\d+)?D)?(T(?=\\d)(\\d+(?:\\.
\\d+)?H)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?S)?)?$"
      medianDwellTime:
        type: "string"
        description: "The average (median) time funds remain in intermediary accounts in this dispersion
network specified as an ISO8601 duration string."
        example: "P3Y6M4DT12H30M5S"
        pattern:
"^P(?!$)(\\d+(?:\\.\\d+)?Y)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?W)?(\\d+(?:\\.\\d+)?D)?(T(?=\\d)(\\d+(?:\\.
\\d+)?H)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?S)?)?$"
      meanMuleScore:
        type: "number"
        description: "The average (mean) mule score of accounts in this dispersion network."
```

example: 0.845
minimum: 0
maximum: 1.0
elapsedTime:
type: "string"
description: "The amount of time this dispersion took, from the earliest transaction to the last transaction specified as an ISO8601 duration string"
example: "P3Y6M4DT12H30M5S"
pattern: "^P(?!$)(\\d+(?:\\.\\d+)?Y)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?W)?(\\d+(?:\\.\\d+)?D)?(T(?=\\d)(\\d+(?:\\.\\d+)?H)?(\\d+(?:\\.\\d+)?M)?(\\d+(?:\\.\\d+)?S)?)?$"
numActionedMules:
type: "integer"
description: "The number of actioned mules in this dispersion network."
example: 2
minimum: 0
maximum: 100
numLegitimate:
type: "integer"
description: "The number of confirmed legitimate accounts in this dispersion network."
example: 7
minimum: 0
maximum: 100
numNotInvestigated:
type: "integer"
description: "The number of accounts in this dispersion network that have not been investigated."
example: 3
minimum: 0
maximum: 100
parentAlertID:
type: "string"
description: "Reference to the original alertID on which feedback was based."
example: "e99a18c428cb38d5f260853678922e03"
minLength: 10
maxLength: 100
decisionDate:
type: "string"
description: "Time at which the decision was taken by the financial institution as per ISO 8601."
example: "2017-07-21T17:32:28.001Z"
format: date-time
mostRecentFeedback:
type: "string"
description: "The most recent feedback label received against this account alert, e.g. 'ACTIONED_MULE', 'CONFIRMED_LEGITIMATE'"
example: "ACTIONED_MULE"
minLength: 5
maxLength: 100
TransactionAlertBasicTrace:
type: "object"
description: "A minimal transaction model containing additional alert properties."
required:
- "id"
- "txnID"
- "networkAlertID"

```yaml
        - "networkID"
        - "time"
        - "txnTime"
        - "sourceID"
        - "destID"
        - "sourceBankID"
        - "sourceBankName"
        - "destBankID"
        - "destBankName"
        - "value"
      properties:
       id:
         type: "string"
         description: "Unique transaction alert identifier."
         example: "e99a18c428cb38d5f260853678922e03"
         minLength: 10
         maxLength: 100
       txnID:
         type: "string"
         description: "Unique transaction identifier."
         example: "2b588f38-d1bc-40bf-85fc-91397bc98465"
         minLength: 10
         maxLength: 100
       networkAlertID:
         type: "string"
         description: "Unique network alert identifier."
         example: "e99a18c428cb38d5f260853678922e03"
         minLength: 10
         maxLength: 100
       networkID:
         type: "string"
         description: "Unique network identifier."
         example: "2b588f38-d1bc-40bf-85fc-91397bc98465"
         minLength: 10
         maxLength: 100
       time:
         type: string
         description: "The time associated with the transaction alert as per ISO 8601."
         example: "2017-07-21T17:32:28.001Z"
         format: date-time
       txnTime:
         type: string
         description: "The time associated with the transaction as per ISO 8601."
         example: "2017-07-21T17:32:28.001Z"
         format: date-time
       sourceID:
         $ref: "#/components/schemas/AccountIdentifierTrace"
       destID:
         $ref: "#/components/schemas/AccountIdentifierTrace"
       sourceBankID:
         $ref: "#/components/schemas/BankIdentifierTrace"
       sourceBankName:
         type: "string"
         description: "Source bank name - this is the bank that owns the source account."
```

```yaml
      example: "Barclays"
      minLength: 1
      maxLength: 100
    destBankID:
      $ref: "#/components/schemas/BankIdentifierTrace"
    destBankName:
      type: "string"
      description: "Destination bank name - this is the bank that owns the destination account."
      example: "Lloyds"
      minLength: 1
      maxLength: 100
    value:
      $ref: "#/components/schemas/ValueTrace"
AccountAlertBasicTrace:
  type: "object"
  description: "A minimal account model containing additional alert properties."
  required:
    - "id"
    - "networkAlertID"
    - "accountID"
    - "networkID"
    - "owningBankID"
    - "owningBankName"
    - "time"
  properties:
    id:
      type: "string"
      description: "Unique account alert identifier."
      example: "e99a18c428cb38d5f260853678922e03"
      minLength: 10
      maxLength: 100
    networkAlertID:
      type: "string"
      description: "Unique network alert identifier."
      example: "e99a18c428cb38d5f260853678922e03"
      minLength: 10
      maxLength: 100
    accountID:
      $ref: "#/components/schemas/AccountIdentifierTrace"
    networkID:
      type: "string"
      description: "Unique network identifier."
      example: "2b588f38-d1bc-40bf-85fc-91397bc98465"
      minLength: 10
      maxLength: 100
    owningBankID:
      $ref: "#/components/schemas/BankIdentifierTrace"
    owningBankName:
      type: "string"
      description: "Owning bank name - this is the bank that owns the account."
      example: "OwningBank"
      minLength: 1
      maxLength: 100
    time:
```

```
          type: "string"
          description: "The time associated with the account alert as per ISO 8601."
          example: "2017-07-21T17:32:28.001Z"
          format: date-time
    AccountIdentifierTrace:
       type: "string"
       description: "Unique, consistent account identifier, ideally the IBAN following ISO 13616 where
possible."
       example: "GB98MIDL07009312345678"
       minLength: 5
       maxLength: 34
       nullable: false
    BankIdentifierTrace:
       type: "string"
       description: "Bank Identifier, can be Bank Identifier Code, e.g 1 or Business Identifier Code (BIC)
following ISO 9362; If this account is a source account, this field maps onto the pacs.008
FIToFICstmrCdtTrf/GrpHdr/InstgAgt for the first leg of the transaction. If this account is the destination
account this field maps onto the FIToFICstmrCdtTrf/GrpHdr/InstdAgt for the final leg."
       example: "DEUTDEFF"
       minLength: 1
       maxLength: 20
    ValueTrace:
       type: "integer"
       description: "The integer value of the payment in the fractional unit (e.g. pence, cents) where used and
in the main unit (e.g. krÃ³na) when fractional units are not used."
       example: 10034
       format: "int64"
       minimum: 1
       maximum: 5000000000000
    VizFormatTrace:
       type: "string"
       enum: ["SVG", "PDF"]
       default: "SVG"
       example: "SVG"
    VizWidthTrace:
       type: "integer"
       format: "int64"
       default: 1280
       example: 1280
    VizHeightTrace:
       type: "integer"
       format: "int64"
       default: 720
       example: 720
    VizLegendTrace:
       type: "boolean"
       default: true
       example: true
    VizAxisTrace:
       type: "string"
       default: "SEQ"
       enum: ["TIME", "SEQ", "GEN"]
       example: "SEQ"
    VizColourTrace:
```

```yaml
        type: "string"
        default: "LIGHT"
        enum: ["LIGHT", "DARK"]
        example: "LIGHT"
  examples:

    #common
    UnauthorisedExample:
      value:
        Errors:
          Error:
          - Source: "Gateway"
            ReasonCode: "Unauthorised"
            Description: "Invalid API key provided"
            Recoverable: false
            Details: null
    RateLimitExample:
      value:
        Errors:
          Error:
            - Source: "Gateway"
              ReasonCode: "RATE_LIMIT_EXCEEDED"
              Description: "You have exceeded the service rate limit. Maximum allowed: ${rate_limit.output} TPS"
              Recoverable: true
              Details: null
    NotFoundExample:
      value:
        Errors:
          Error:
            - Source: "Gateway"
              ReasonCode: "NOT_FOUND"
              Description: "URL not found"
              Recoverable: false
              Details: null
    AccessForbiddenExample:
      value:
        Errors:
          Error:
            - Source: "Gateway"
              ReasonCode: "PERMISSION_DENIED"
              Description: "Invalid customer for third party"
              Recoverable: false
              Details: null

    #Feedback
    BadRequestExampleFeedback:
      value:
        Errors:
          Error:
            - Source: "FEEDBACK_FINANCIAL_CRIME"
              ReasonCode: "BAD_REQUEST"
              Description: "We could not handle your request"
              Recoverable: false
              Details: "The request body is expecting an array"
```

```yaml
AlertIdNotFoundExampleFeedback:
  value:
    Errors:
      Error:
      - Source: "FEEDBACK_FINANCIAL_CRIME"
        ReasonCode: "NOT_FOUND"
        Description: "Alert ID not found in our records"
        Recoverable: false
        Details: "Alert ID is valid but is not present in our records"
MethodNotAllowedExampleFeedback:
  value:
    Errors:
      Error:
        - Source: "FEEDBACK_FINANCIAL_CRIME"
          ReasonCode: "METHOD_NOT_ALLOWED"
          Description: "Only POST method allowed"
          Recoverable: false
          Details: null
ConflictExampleFeedback:
  value:
    Errors:
      Error:
        - Source: "FEEDBACK_FINANCIAL_CRIME"
          ReasonCode: "CONFLICT"
          Description: "Alert ID does not match the specified entity"
          Recoverable: false
          Details: null
UnsupportedMediaTypeExampleFeedback:
  value:
    Errors:
    Error:
      - Source: "FEEDBACK_FINANCIAL_CRIME"
        ReasonCode: "UNSUPPORTED_MEDIA_TYPE"
        Description: "Unsupported media type"
        Recoverable: false
        Details: "The request media type 'application/x-www-form-urlencoded' is not supported by this
resource"
UnprocessableEntityExampleFeedback:
  value:
    Errors:
      Error:
        - Source: "FEEDBACK_FINANCIAL_CRIME"
          ReasonCode: "UNPROCESSABLE_ENTITY"
          Description: "Expects a single json object and not an array"
          Recoverable: false
          Details: null
ConsumerForbiddenExampleFeedback:
  value:
    Errors:
      Error:
        - Source: "FEEDBACK_FINANCIAL_CRIME"
          ReasonCode: "PERMISSION_DENIED"
          Description: "Invalid permission set"
          Recoverable: false
```

Details: "Consumer ${client.name} does not have permission to access the account requested"
ConsumerForbiddenNotFoundExampleFeedback:
  value:
    Errors:
      Error:
        - Source: "FEEDBACK_FINANCIAL_CRIME"
          ReasonCode: "PERMISSION_DENIED"
          Description: "Sort Code not found in our records"
          Recoverable: false
          Details: "Consumer ${client.name} does not have permission to access the account requested"

#MatchAPI
BadRequestExampleMatchAPI:
  value:
    Errors:
      Error:
        - Source: "MATCH_FINANCIAL_CRIME"
          ReasonCode: "BAD_REQUEST"
          Description: "We could not handle your request"
          Recoverable: false
          Details: "The request body is expecting an array"
MethodNotAllowedExampleMatchAPI:
  value:
    Errors:
      Error:
        - Source: "MATCH_FINANCIAL_CRIME"
          ReasonCode: "METHOD_NOT_ALLOWED"
          Description: "Only POST method allowed"
          Recoverable: false
          Details: null
ConsumerForbiddenExampleMatchAPI:
  value:
    Errors:
      Error:
        - Source: "MATCH_FINANCIAL_CRIME"
          ReasonCode: "PERMISSION_DENIED"
          Description: "Invalid permission set"
          Recoverable: false
          Details: "Client identifier (X-Consumer-Custom-ID) header cannot be empty"
ConsumerForbiddenNotFoundExampleMatchAPI:
  value:
    Errors:
      Error:
        - Source: "MATCH_FINANCIAL_CRIME"
          ReasonCode: "PERMISSION_DENIED"
          Description: "Sort Code not found in our records"
          Recoverable: false
          Details: "Consumer ${client.name} does not have permission to access the account requested"
UnsupportedMediaTypeExampleMatchAPI:
  value:
    Errors:
    Error:
      - Source: "MATCH_FINANCIAL_CRIME"
        ReasonCode: "UNSUPPORTED_MEDIA_TYPE"

```yaml
          Description: "Unsupported media type"
          Recoverable: false
          Details: "The request media type 'application/x-www-form-urlencoded' is not supported by this
resource"
    UnprocessableEntityExampleMatchAPI:
      value:
        Errors:
          Error:
            - Source: "MATCH_FINANCIAL_CRIME"
              ReasonCode: "UNPROCESSABLE_ENTITY"
              Description: "Expects a single json object and not an array"
              Recoverable: false
              Details: null


    #Alert
    BadRequestExampleAlert:
      value:
        Errors:
          Error:
            - Source: "ALERT_FINANCIAL_CRIME"
              ReasonCode: "BAD_REQUEST"
              Description: "We could not handle your request"
              Recoverable: false
              Details: "The request contains a bad payload"
    AlertIdNotFoundExampleAlert:
      value:
        Errors:
          Error:
            - Source: "ALERT_FINANCIAL_CRIME"
              ReasonCode: "NOT_FOUND"
              Description: "Alert ID not found in our records"
              Recoverable: false
              Details: "Alert ID is valid but is not present in our records"
    MethodNotAllowedExampleAlert:
      value:
        Errors:
          Error:
            - Source: "ALERT_FINANCIAL_CRIME"
              ReasonCode: "METHOD_NOT_ALLOWED"
              Description: "Only POST method allowed"
              Recoverable: false
              Details: null
    ConsumerForbiddenExampleAlert:
      value:
        Errors:
          Error:
            - Source: "ALERT_FINANCIAL_CRIME"
              ReasonCode: "PERMISSION_DENIED"
              Description: "Invalid permission set"
              Recoverable: false
              Details: "Consumer ${client.name} does not have permission to access the account requested"
    ConsumerForbiddenNotFoundExampleAlert:
      value:
        Errors:
```

```
   Error:
    - Source: "ALERT_FINANCIAL_CRIME"
      ReasonCode: "PERMISSION_DENIED"
      Description: "Sort Code not found in our records"
      Recoverable: false
      Details: "Consumer ${client.name} does not have permission to access the account requested"


#Trace
BadRequestExampleTrace:
 value:
   Errors:
    Error:
    - Source: "TRACE_FINANCIAL_CRIME"
      ReasonCode: "BAD_REQUEST"
      Description: "We could not handle your request"
      Recoverable: false
      Details: "The request contains a bad payload"
ConsumerForbiddenExampleTrace:
 value:
   Errors:
    Error:
    - Source: "TRACE_FINANCIAL_CRIME"
      ReasonCode: "PERMISSION_DENIED"
      Description: "Invalid permission set"
      Recoverable: false
      Details: "Consumer ${client.name} does not have permission to access the account requested"
ConsumerForbiddenNotFoundExampleTrace:
 value:
   Errors:
    Error:
    - Source: "TRACE_FINANCIAL_CRIME"
      ReasonCode: "PERMISSION_DENIED"
      Description: "Sort Code not found in our records"
      Recoverable: false
      Details: "Consumer ${client.name} does not have permission to access the account requested"
TransactionNotFoundExampleTrace:
 value:
   Errors:
    Error:
    - Source: "TRACE_FINANCIAL_CRIME"
      ReasonCode: "NOT_FOUND"
      Description: "Transaction ID not found in our records"
      Recoverable: false
      Details: "Transaction ID is valid but is not present in our records"
MethodNotAllowedExampleTrace:
 value:
   Errors:
    Error:
    - Source: "TRACE_FINANCIAL_CRIME"
      ReasonCode: "METHOD_NOT_ALLOWED"
      Description: "Only POST method allowed"
      Recoverable: false
      Details: null
```