Deviation REST API V2

Staufen ValueStreamer GmbH



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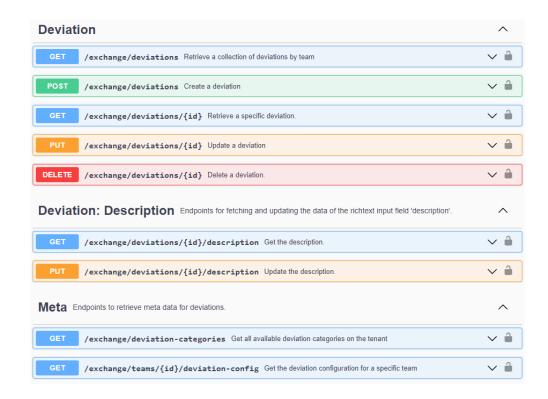
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1. Introduction

1.1 REST-API & basic technical knowledge

- The API allows clients to fetch or insert entries via REST and JSON documents
- The API specification contains all endpoints and JSON formats in .yaml files as OpenAPI 3 format
- We recommend to view the file via Swagger UI / Editor
- All access to the API is done via HTTPS
- The API uses appropriate HTTP methods for each action.
 - GET: For retrieving one or more entries, descriptions or meta data
 - POST: For creating an entry
 - PUT: For updating an entry or a description
 - DELETE: For deleting an entry
- The API returns corresponding HTTP status codes for each request, see Swagger file. E.g.
 - 2xx for success: 200 OK, 204 Deleted
 - 4xx for client errors: 400 Bad request, 401 Unauthorized, 404 Not found
 - 5xx for server errors: 500 Internal server error
- The API is reachable via https://api-<tenant>.valuestreamer.de/api/ where <tenant> must be replaced with your tenant
- E.g.: https://api-demo.valuestreamer.de/api/exchange/deviations



1.2 Authorization and user assignment

Authorization

- 1. Authorization on the API endpoints works via basic auth per request
- ValueStreamer Support provides username + password to the customer
- 3. When sending requests to the API, the basic auth credentials must be passed base64 encoded in the authorization header like this:

 Authorization: Basic 123456

Assigned user for changes via the API

- The ValueStreamer Support creates a ValueStreamer Application user named "API-USER"
- 2. Whenever a deviation is created, modified or deleted via the API, this API-USER is written to the changelogs (createdBy, modifiedBy, ...)

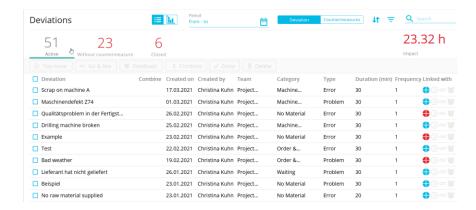


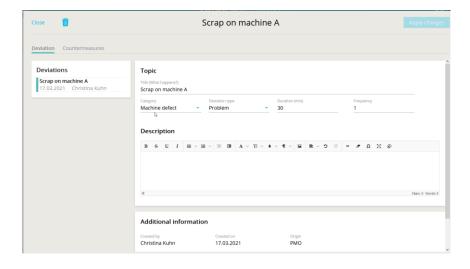




1.3 Deviation management overview

- The deviation view is available for every team by default
- Each team member can create deviations
- A deviation either has the type Problem or Error
- A deviation has a category. Based on the list of available deviation categories of the team, a category must be assigned to the deviation
- A deviation has a Duration i. e., how long did the deviation occur in minutes
- A deviation has a Frequency i. e., how often did the deviation occur
- Single deviation
 - "Single" deviations are not combined resp. related to another deviation
- Combined parent deviation
 - A combined deviation is created based on multiple single deviations, which then become child deviations
 - The duration and frequency of the combined deviation are calculated based on the values of the child deviations
 - When a combined deviation is closed, its child deviations are also closed
 - When a combined deviation is deleted, its child deviations are also deleted
- Child deviation
 - A combined child deviation is related to a parent deviation
 - A child deviation can not be closed directly. A child is only closed, when the parent deviation is closed
 - A child deviation can not be deleted directly. A child is only deleted, when the parent deviation is deleted





2. Necessary meta data for querying, creating and updating deviations

2.1 Meta data: Use cases and API endpoints

■ The following table describes how to get all the data you need for interactions with the API

#	Use case	Use case description	HTTP metho d	API URL
1	Team: Get the list of teams	Returns all teams with id and name. The id can be used to fetch the team details.	GET	/exchange/teams
2	Team: Get a team's details (by team id)	Returns the details of a team by its team id: Team's name and short name List of team members	GET	/exchange/teams/{teamid}
3	Get the list of all users	Returns all existing users with id and name	GET	/exchange/users
4	Get the list of all deviation categories	Returns all available categories on the tenant	GET	/exchange/deviation-categories
5	Get the deviation configuration of a team	Returns the deviation configuration of the given team with available categories	GET	/exchange/teams/{teamid}/deviation-config

For more details, please have a look into the OpenAPI files.

2.2 #1 GET /exchange/teams Get the list of teams

- The endpoint returns a lists of all teams existing on the tenant
- Accept: application/json

```
Request:

GET /api/exchange/teams HTTP/1.1

Host: api-demo.valuestreamer.de

Accept: application/json

Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=
```

```
Response:
       "id": "5bcaa97a-d0c1-11ea-87d0-0242ac130003",
       "name": "Linie 1",
       "shortName": "Linie 1",
       "parentTeam": "5bcaa8b2-d0c1-11ea-87d0-0242ac130003"
       "id": "5bcaaa38-d0c1-11ea-87d0-0242ac130003",
       "name": "Linie 2",
       "shortName": "Linie 2",
        "parentTeam": "5bcaa8b2-d0c1-11ea-87d0-0242ac130003"
   },
       "id": "d72fb249-af46-43d8-a116-afd5b32815ef",
       "name": "Log-X",
       "shortName": "Log-X",
       "parentTeam": "14321ce0-ba75-4336-ab26-1b13ebc33114"
   },
       "id": "5bca9930-d0c1-11ea-87d0-0242ac130003",
       "name": "Management",
       "shortName": "Management",
       "parentTeam": "8ba7de30-41b8-4fb3-8d19-dd6c9e92ead7"
```

2.2 #2 GET /exchange/teams/{id} Get team details

- The endpoint returns the details of a team, like the teams members, and available KPIs
- Accept: application/vs.te.v2.0+json

Request:

GET /api/exchange/teams HTTP/1.1

Host: api-demo.valuestreamer.de

Accept: application/vs.te.v2.0+json

Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=

```
Response:
    "id": "5bcaa97a-d0c1-11ea-87d0-0242ac130003",
    "name": "Linie 1",
   "shortName": "Linie 1",
   "parentTeam": "5bcaa8b2-d0c1-11ea-87d0-0242ac130003",
    "members": [
            "id": "e3373620-d0c2-11ea-87d0-0242ac130003",
            "firstName": "Nino",
            "lastName": "Baresi",
            "email": "Nino.Baresi@valuestreamer-demo.de"
            "id": "e3375560-d0c2-11ea-87d0-0242ac130003",
            "firstName": "Jürgen",
            "lastName": "Seiler",
            "email": "Jürgen.Seiler@valuestreamer-demo.de"
    "processBoards": [
            "id": "78f748e5-0ad5-4f1a-951e-7bcc7cc94d97",
            "name": "log-x"
            "id": "d40f30ae-f509-4126-bd71-73da5df21967",
            "name": "KVP Projekte"
    "availableKpis": [
        "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
        "name": "string",
        "recordingTeam": true,
        "subTileRecording": false,
        "subTiles": [
            "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
            "name": "string",
            "orderId": 0
         }]
```

2.2 #3 GET /exchange/users Get the list of users

- The endpoint returns all users present on the tenant
- Accept: application/json

```
Request:

GET /api/exchange/users HTTP/1.1

Host: api-demo.valuestreamer.de

Accept: application/json

Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=
```

2.2 #4 GET /exchange/deviation-categories Get all available categories

- The endpoint returns a list of all deviation categories on the tenant
- The process of managing the categories is divided into two parts:
 - System administration
 - The sys. admin can create new categories using the sys.
 Administration or the deviation-categories API
 - The sys. admin can temporarily activate or deactivate existing categories
 - The sys. Admin can delete categories completely. Deleted categories can not be reactivated
 - Team administration
 - Based on the list of all active deviation categories, each team admin can select categories for his team's deviation management
 - In the team's deviation management, the selected and active categories can be used to create or update deviations
 - Deactivated categories are not available for the team's deviation management anymore. Deactivated categories can be reactivated and will then be available again
- Accept: application/json

```
Request:
GET /api/exchange/deviation-categories HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/json
Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=
```

```
Response:
   "categories":[
      "id": "cd315130-cb2c-11ea-87d0-0242ac130003",
      "active":true,
      "deleted":false,
      "names":[
          "language": "DE",
         "name": "Überproduktion"
          "language": "EN",
          "name": "Over production"
          "language":"FR",
          "name": "Surproduction"
          "language":"HU",
          "name": "Túltermelés"
         "language": "PL",
          "name": "Nadprodukcja"
```

2.2 #5 GET /exchange/teams/{teamid}/deviation-config Get the deviation configuration of a team

- The endpoint returns all available deviation categories for the given team
- Available means the category has been selected for the team, the category is active and not deleted
- Categories no longer appear in the list that were selected for the team, but were subsequently deactivated or deleted by the system administrator
- The section categories has the same structure as given by the endpoint /exchange/deviation-categories
- Accept: application/json

```
Request:

GET /api/exchange/teams/{id}/deviation-config HTTP/1.1

Host: api-demo.valuestreamer.de

Accept: application/json

Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=
```

```
Response:
   "categories":[
      "id": "cd315130-cb2c-11ea-87d0-0242ac130003",
       "active":true,
      "deleted":false,
       "names":[
          "language": "DE",
         "name": "Überproduktion"
          "language": "EN",
          "name":"Over production"
          "language": "FR",
          "name": "Surproduction"
          "language": "HU",
         "name": "Túltermelés"
          "language": "PL",
          "name": "Nadprodukcja"
```

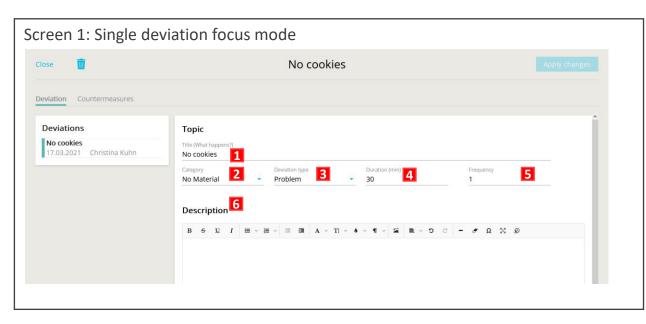
3. Deviation management use cases and REST-API endpoints

3.1 Use case and REST-API endpoint mapping

#	Use case	HTTP Method	API URL
1	Retrieve a collection of deviations according to the query parameters	GET	/exchange/deviations?{query-parameters}
2	Retrieve the given deviation and each of its fields	GET	/exchange/deviations/{deviation-id}
3	Create a new deviation	POST	/exchange/deviations
4	Update the given deviation	PUT	/exchange/deviations/{deviation-id}
5	Delete the given deviation	DELETE	/exchange/deviations/{deviation-id}
6	Get the description of the given deviation	GET	/exchange/deviations/{deviation-id}/description
7	Update the description of the given deviation	PUT	/exchange/deviations/{deviation-id}/description

For more details, please have a look into the OpenAPI Files.

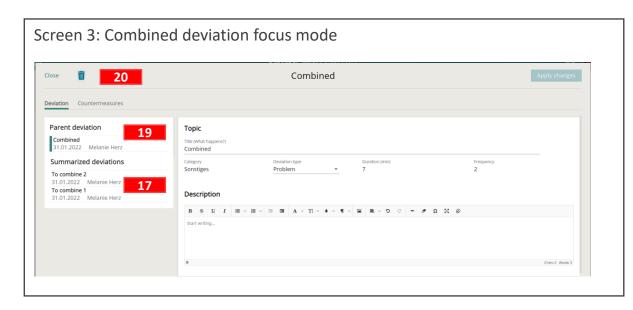
3.2 Fields of a deviation and where to get them as response





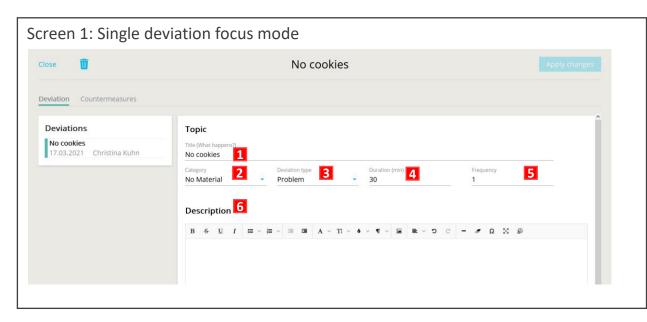
#	Field	Format	JSON field name	List of endpoints: 1. GET /exchange/deviations?{query_parameter s} 2. GET /exchange/deviations/{id} 3. GET /exchange/deviations/{id}/description		
				1	2	3
	id	UUID	id	✓	✓	
1	Title	String	title	✓	✓	
2	Category	UUID	category	✓	✓	
3	Deviation type	Enum	deviationType	✓	✓	
4	Duration	Integer	duration	✓	✓	
5	Frequency	Integer	frequency	✓	✓	
6	Description	String				✓
7	Created By	UUID	createdBy	✓	✓	
8	Created On	Date string	createdDate	✓	✓	
9	Origin	Object	sourceEntity	✓	✓	
9	Origin	String	source	✓	✓	
10	Last changed by	UUID	modifiedBy		✓	
11	Last changed on	Date String	modifiedOn		✓	
12	Archived on	Date string	closedOn		✓	

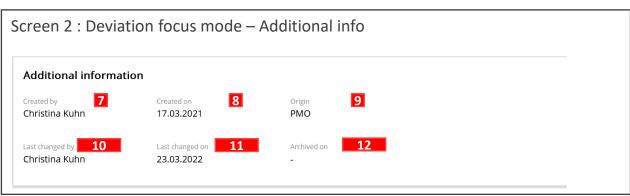
3.2 Fields of a deviation and where to get them as response



#	Field	Format	JSON field name	List of endpoints: 1. GET /exchange/deviations?{query_parameters} 2. GET /exchange/deviations/{id} 3. GET /exchange/deviations/{id}/description			
				1	2	3	
13		Enum	status	✓	✓		
14		Enum	level	✓	✓		
15		Boolean	closed	✓	✓		
16		Boolean	isCombinedParen tDeviation	✓	✓		
17		List of UUIDs	childDeviations	✓	✓		
18		Boolean	isChildDeviation	√	✓		
19		UUID	parentDeviation	✓	✓		
20		List of UUIDs	countermeasures		✓		

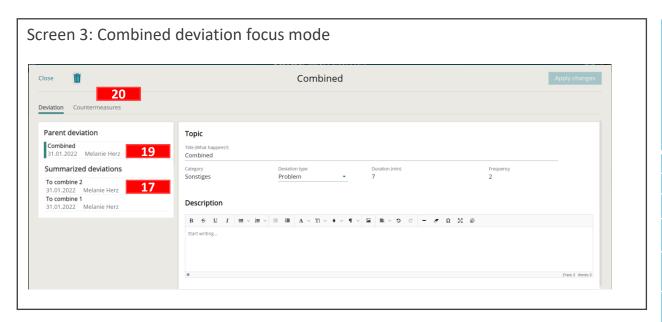
3.3 Fields of a deviation and where to insert or update them





#	Field	Format	JSON field name	List of endpoints: 1. POST /exchange/deviations 2. PUT /exchange/deviations/{deviation_id} 3. PUT /exchange/deviations/{deviation_id}/description		
				1	2	3
	id	UUID	id	✓		
1	Title	String	title	✓	✓	
2	Category	UUID	category	✓	✓	
3	Deviation Type	Enum	deviationType	✓	✓	
4	Duration	Integer >=0	duration	✓	✓	
5	Frequency	Integer > 0	frequency	✓	✓	
6	Description					✓
7	Created By	UUID	createdBy	Automatically set		
8	Created On	Date String	createdDate	Automatically set		
9	Origin	String	source	Automatically set		
9	Origin	Object	sourceEntitiy	✓	✓	
10	Last changed by	UUID	modifiedBy	Automatically set		
11	Last changed on	Date String	modifiedDate	Automatically set		
12	Archived on	Date String	closedOn	Automatically set		

3.3 Fields of a deviation and where to insert or update them



#	Field	Format	JSON field name	List of endpoints: 1. POST /exchange/deviations 2. PUT /exchange/deviations/{deviation_id} 3. PUT /exchange/deviations/{deviation_id}/description				
				1	2	3		
13		Enum	status	Automatically set				
14		Enum	level	Automatically SINGLE				
15		Boolean	closed	Automatically set				
16		Boolean	isCombinedParentD eviation		✓			
17		List of UUIDs	childDeviations		✓			
18		Boolean	isChildDeviation		✓			
19		UUID	parent Deviation		✓			
20		List of UUIDs	countermeasures		✓			

3.4 #1 GET /exchange/deviations?{query-parameters} Retrieve a collection of deviations according to the query parameters

- The endpoint returns all deviations for a team that match the given query parameters
- Filter attributes as req. parameters:
 - **&team**= \rightarrow id of the team
 - **&status**= → ALL, ACTIVE or CLOSED
 - ACTIVE: Only include deviations that are not done
 - CLOSED: Only include deviations that are done
 - ALL: Include both, ACTIVE + CLOSED deviations
 - **&level**= → SINGLE, COMBINED, CHILDREN
 - SINGLE: Only include deviations that are not combined, parent or child
 - COMBINED: Only include parents of combined deviations
 - CHILDREN: Only include children of combined deviations

Parameter "level" can take a list of the values comma-separated

- **&page=1** → Page number, max. 200 entries per page
- &countermeasures= → WITHCOUNTERMEASURES.

WITHOUTCOUNTERMEASURES

- Get deviations with existing countermeasures or without existing countermeasures
- Accept: application/vs.v2.0+json

Bold = required / mandatory

Request:

GET /api/exchange/deviations?level=ALL&team=276cf6e6-f4fe-4e66-ae2bcc42e51997a2&status=ALL&page=1 HTTP/1.1

Host: api-demo.valuestreamer.de
Accept: application/vs.v2.0+json
Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=

```
Response:
"page":{
  "page":1,
 "elementsOnPage":7,
 "elementsPerPage":200,
 "totalPages":1,
 "totalElements":7
 "entries":[
   "id": "393ffad4-9b6f-423d-8b50-5c3801b5b0bf",
   "category": "cd315130-cb2c-11ea-87d0-0242ac130003",
   "createdBy": "a8437d73-53ff-458f-961c-063a4d800adb";
   "createdDate": "2022-01-31",
   "closed":false,
   "deviationType": "problem",
   "duration":15,
   "frequency":2,
   "responsibleTeam": "276cf6e6-f4fe-4e66-ae2b-cc42e51997a2",
   "status": "ACTIVE WITH COUNTERMEASURES",
   "title": "No cookies",
   "level": "SINGLE",
   "source": "Control element for the new XYZ-Car",
   "combinedParentDeviation":{
   "isCombinedParentDeviation":false,
    "childDeviations":[
   "childDeviation":{
    "isChildDeviation":false,
    "parentDeviation":null
   "sourceEntity":{
    "type": "PROCESSACTIVITY",
    "id": "1fdd2864-162e-4f79-b20e-1dbcbd409f2d",
   "name": "Control element for the new XYZ-Car"},
```

3.4 #2 GET /exchange/deviations/{deviation-id}?include= Retrieve the given deviation and each of its fields

- The endpoint returns all fields and additional information of the given deviation
- The **description** of the deviation can be retrieved with endpoint #6
- The property **closed** indicates whether the deviation is active (closed=false) or closed / read only (closed=true)
- **Duration** how long did the deviation occur in minutes?
- **Frequency** how often did the deviation occur?
- If the deviation is a combined parent deviation, the properties duration and frequency are derived from the child deviations
- The property status is derived from the property closed and the presence of countermeasures and can be either
 - ACTIVE_WITH_COUNTERMEASURES or ACTIVE_WITHOUT_COUNTERMEASURES
 - CLOSED_WITH_COUNTERMEASURES or CLOSED_WITHOUT_COUNTERMEASURES
- The property **level** indicates wheter this is a SINGLE, COMBINED, or CHILD deviation
 - If the deviation is a COMBINED parent deviation, the property isCombinedParentDeviation is TRUE and the childDeviations array contains the child deviations
 - If the deviation is a child deviation, the property **isChildDeviation** is TRUE and contains a a reference to the parent deviation in the property **parentDeviation**
- Get countermeasures with query parameter ?include=COUNTERMEASURES
 - When the query parameter is present in the URL, the array countermeasures contains the list of related countermeasures
 - When the query parameter is not present in the URL, countermeasures are not included in the response and the array will be empty
- Accept: application/vs.v2.0+json

```
Request:

GET /api/exchange/deviations/61d93096-3235-4b6d-8fef-
1ca2935e2ee6?include=COUNTERMEASURES HTTP/1.1

Host: api-demo.valuestreamer.de
Accept: application/vs.v2.0+json
Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=
```

```
Response:
  "id": "61d93096-3235-4b6d-8fef-1ca2935e2ee6",
  "category": "cd3152c0-cb2c-11ea-87d0-0242ac130003",
  "createdBy": "a8437d73-53ff-458f-961c-063a4d800adb",
  "createdDate": "2022-01-31",
  "closed":false,
  "closedOn":null,
  "deviationType": "PROBLEM",
  "duration":7,
  "frequency":2,
  "modifiedBy":"a8437d73-53ff-458f-961c-063a4d800adb",
  "modifiedDate":"2022-01-31",
  "responsibleTeam": "276cf6e6-f4fe-4e66-ae2b-cc42e51997a2",
  "status": "ACTIVE WITH COUNTERMEASURES",
  "source": "Level of disturbance (aggregated)",
  "title": "Cookies are empty",
  "level": "COMBINED",
  "combinedParentDeviation":{
    "isCombinedParentDeviation":true,
    "childDeviations":[
      "73c5e68f-c622-4f5a-bd00-48b5600081d8",
      "e32deb2b-c6fa-4a05-8340-f8261f398cce"
  "childDeviation":{
    "isChildDeviation":false,
    "parentDeviation":null
  "countermeasures":[
  "sourceEntity":{
    "type": "KPI",
    "id": "1fdd2864-162e-4f79-b20e-1dbcbd409f2d",
    "name": "Level of disturbance (aggregated)"},
```

3.4 #3 POST /exchange/deviations Create a new deviation

- The endpoint creates a new deviation
- The API only supports to create SINGLE deviations. Combined parent deviations and child deviations can be created only via GUI
- Property: responsibleTeam
 - A deviation is always linked to a team by the team id
- Property: category
 - Based on the list of available categories of the team, a category ID must be provided. Only active and available categories for the team are accepted
- Property: duration
 - To generate a deviation, the duration of the deviation must be provided. It is an integer for the duration in minutes and can be zero
- Property: frequency
 - To generate a deviation, the frequency must be provided. It is an integer to show how often the deviation occured
- Property: deviationType
 - A deviation type must be provided. The deviation type can be "ERROR" or "PROBLEM"
- Property: title
 - Every deviation must have a title
- Property: sourceEntity
 - A deviation can be linked to other items. Type can be KPI, LIST, MEETINGATTENDANCE, PROCESSACTIVITY, TASK. The ID is the ID of the KPI, list entry, null in case of MEETINGATTENDANCE, ID of the process item or ID of the task
 - The link to other items can only be created for active (not closed or done) items and only ONCE per list
- Accept: application/json Content-Type: application/vs.v2.0+json



10/18/2023



```
Request:
POST /api/exchange/deviations HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/vs.v2.0+json
Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=
  "responsibleTeam": "276cf6e6-f4fe-4e66-ae2b-cc42e51997a2",
  "category": "cd314b36-cb2c-11ea-87d0-0242ac130003",
  "deviationType": "ERROR",
  "duration":13,
  "frequency":7,
  "title": "No cookies",
  "sourceEntity": {
   "type": "KPI",
   "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6"
Response:
  "id": "93aad423-2f16-4d5d-889c-895c7c5f7a66",
  "category": "cd314b36-cb2c-11ea-87d0-0242ac130003",
  "createdBy": "785a94d2-97d8-43b3-aa55-9e7141571ee7",
  "createdDate": "2022-02-01",
  "closed":false,
  "closedOn":null,
  "deviationType": "ERROR",
  "duration":13,
  "frequency":7,
  "modifiedBy": "785a94d2-97d8-43b3-aa55-9e7141571ee7",
  "modifiedDate": "2022-02-01",
  "responsibleTeam": "276cf6e6-f4fe-4e66-ae2b-cc42e51997a2",
  "status": "ACTIVE WITHOUT COUNTERMEASURES",
  "source": "resource availability",
  "title": "No cookies",
  "level": "SINGLE",
  "combinedParentDeviation":{
    "isCombinedParentDeviation":false,
    "childDeviations":[
```

"childDeviation":{

"countermeasures":[],
"sourceEntity": {
 "type": "KPI",

"isChildDeviation":false.

"name": "resource availability"

"id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",

"parentDeviation":null

3.4 #4 PUT /exchange/deviations/{id} Update the given deviation

- The endpoint updates the given deviation. SINGLE, as well as COMBINED and CHILD deviations can be updated
- Title and closed are mandatory
- Frequency and duration are mandatory when updating a SINGLE or CHILD deviation. When
 updating a combined parent deviation, frequency and category must be null, as the values are then
 calculated based on the values of the child deviations
- Category is mandatory when updating a SINGLE deviation. When updating COMBINED or CHILD
 deviations, the category can't be changed and must be null
- If properties are sent with NULL values, the existing values in the database are removed resp. overwritten with NULL
- Deviations can be closed by setting "closed"=true. Closed deviations are then read only and can no longer be updated
- SINGLE deviations cannot be combined to a COMBINED deviation with this endpoint. This is only
 possible via GUI
- Deviations can be linked to lists, tasks, process items, KPIs etc (see POST) by putting sourceEntity into the request
- Accept: application/json Content-Type: application/vs.v2.0+json

```
Request:
PUT /api/exchange/deviations/d80673f9-5011-4e86-88e2-278c01ac6dfb HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/vs.v2.0+json
Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=
  "category": "cd314f50-cb2c-11ea-87d0-0242ac130003",
  "closed": false,
  "title": "No cookies",
  "duration": 7,
  "frequency": 7,
  "deviationType": "PROBLEM"
Response:
  "id": "61d93096-3235-4b6d-8fef-1ca2935e2ee6",
  "category": "cd3152c0-cb2c-11ea-87d0-0242ac130003",
  "createdBy": "a8437d73-53ff-458f-961c-063a4d800adb",
  "createdDate": "2022-01-31",
  "closed":false,
  "closedOn":null,
  "deviationType": "PROBLEM",
  "duration":7.
  "frequency":2,
  "modifiedBy": "a8437d73-53ff-458f-961c-063a4d800adb",
  "modifiedDate": "2022-01-31",
  "responsibleTeam": "276cf6e6-f4fe-4e66-ae2b-cc42e51997a2",
  "status": "ACTIVE WITH COUNTERMEASURES",
  "source": "Level of disturbance (aggregated)",
  "title":"No cookies",
  "level": "COMBINED",
  "combinedParentDeviation":{
    "isCombinedParentDeviation":true,
    "childDeviations":[
     "73c5e68f-c622-4f5a-bd00-48b5600081d8"
      "e32deb2b-c6fa-4a05-8340-f8261f398cce"
  "childDeviation":{
   "isChildDeviation":false,
    "parentDeviation":null
  "countermeasures":[
  "sourceEntity":{
    "type": "KPI",
    "id": "1fdd2864-162e-4f79-b20e-1dbcbd409f2d",
    "name": "Level of disturbance (aggregated)"},
```

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3.4 Creating/updating the link to other entities

- Using either the POST or PUT endpoint, a deviation can optionally be linked to the following entities within ValueStreamer: KPI, LIST, MEETINGATTENDANCE, PROCESSACTIVITY, TASK
- A special case is MEETINGATTENDANCE, since no ID is needed (Link will be created to the Meeting Attendance list in the given team in ValueStreamer)
- For KPIs you can use the endpoint GET /exchange/teams/{id} to get the list of available KPIs in this team
 - Use application/vs.te.v2.0+json for the Accept-Header to receive a list of available KPIs in this team
- For LIST you can use the GET /exchange/list/{list-id}/{team-id} endpoint to find the list record you want to link the deviation to
- For PROCESSACTIVITY you can use the GET /exchange/processactivities endpoint to find the process item you want to link the deviation to
- For TASK you can use the GET /exchange/tasks endpoint to find the task you want to link the
 deviation to

• The sourceEntity property is only available for version 2.0 of the POST/PUT deviation endpoint by using Content-Type: application/vs.v2.0+json

```
Request:
PUT /api/exchange/deviations/d80673f9-5011-4e86-88e2-278c01ac6dfb HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/vs.v2.0+json
Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=
  "category": "cd314f50-cb2c-11ea-87d0-0242ac130003",
  "closed": false,
  "title": "No cookies",
  "duration": 7,
  "frequency": 7,
  "deviationType": "PROBLEM"
Response:
  "id": "61d93096-3235-4b6d-8fef-1ca2935e2ee6",
  "category": "cd3152c0-cb2c-11ea-87d0-0242ac130003",
  "createdBy": "a8437d73-53ff-458f-961c-063a4d800adb",
  "createdDate": "2022-01-31",
  "closed":false,
  "closedOn":null,
  "deviationType": "PROBLEM",
  "duration":7.
  "frequency":2,
  "modifiedBy": "a8437d73-53ff-458f-961c-063a4d800adb",
  "modifiedDate": "2022-01-31",
  "responsibleTeam": "276cf6e6-f4fe-4e66-ae2b-cc42e51997a2",
  "status": "ACTIVE WITH COUNTERMEASURES",
  "source": "Level of disturbance (aggregated)",
  "title":"No cookies",
  "level": "COMBINED",
  "combinedParentDeviation":{
    "isCombinedParentDeviation":true,
    "childDeviations":[
     "73c5e68f-c622-4f5a-bd00-48b5600081d8",
      "e32deb2b-c6fa-4a05-8340-f8261f398cce"
  "childDeviation":{
   "isChildDeviation":false,
    "parentDeviation":null
  "countermeasures":[
  "sourceEntity":{
    "type": "KPI",
    "id": "1fdd2864-162e-4f79-b20e-1dbcbd409f2d",
    "name": "Level of disturbance (aggregated)"},
```

3.4 #5 DELETE /exchange/deviations/{deviation-id} Delete a deviation

- The endpoint deletes the given deviation
- When a deviation is deleted, entries of the following types related to the deviation are also deleted:
 - Child deviations
 - Countermeasures
 - Go + see
 - Top issue
 - Feedback
- Tasks that are linked to a deviation remain but the deviation and the link are deleted
- Accept: application/json

Request:

DELETE /exchange/deviations/54e0f2ab-9c22-402f-a915-f63b4c4b7071 HTTP/1.1

Host: api-demo.valuestreamer.de

Accept: application/json

Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=

Response:

3.4 #6 GET /exchange/deviations/{deviation-id}/description Get the description of the given deviation

The endpoint returns the description of the given deviation as HTML code

Accept: text/html

Request:

GET /api/exchange/deviations/81beaa9b-b510-4924-af84-

Ofe651de8fcb/description HTTP/1.1 Host: api-demo.valuestreamer.de

Accept: text/html

Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=

Response:

Your text could stand here

3.4 #7 PUT /exchange/deviations/{deviations-id}/description Update the description of the given deviation

- The endpoint updates the description of a deviation
- Valid HTML code must be sent in the request body
- Accept: text/html Content-Type: text/html

Request:

PUT /api/exchange/deviation/54e0f2ab-9c22-402f-a915-

f63b4c4b7071/description HTTP/1.1
Host: api-demo.valuestreamer.de

Accept:'text/html'

Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=

'Get some cookies!'

Response:

'Get some cookies!'



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