

Deviation REST API V3

ValueStreamer GmbH

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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`

Deviation Endpoints for fetching and updating deviations			^
GET	/exchange/deviations	Retrieve a collection of deviations by team	🔒
POST	/exchange/deviations	Create a deviation	🔒
GET	/exchange/deviations/{id}	Retrieve a specific deviation.	🔒
PUT	/exchange/deviations/{id}	Update a deviation	🔒
DELETE	/exchange/deviations/{id}	Delete a deviation.	🔒
Deviation: Description Endpoints for fetching and updating the data of the richtext input field 'description'.			^
GET	/exchange/deviations/{id}/description	Get the description.	🔒
PUT	/exchange/deviations/{id}/description	Update the description.	🔒
Meta: Team config Endpoints to retrieve the deviation configurations of the teams.			^
GET	/exchange/teams/{id}/deviation-config	Get the deviation configuration for a specific team	🔒
Meta: Sys. admin Sys. admin endpoints to maintain the available deviation categories.			^
GET	/exchange/deviation-categories	Get all available deviation categories on the tenant	🔒
POST	/exchange/deviation-categories	Create a deviation category	🔒
GET	/exchange/deviation-categories/{id}	Retrieve a specific deviation category.	🔒
PUT	/exchange/deviation-categories/{id}	Update a deviation category	🔒
DELETE	/exchange/deviation-categories/{id}	Delete a deviation category.	🔒
Work Safety			^
GET	/exchange/worksafety-config	Get configurations of work safety	🔒

1.2 Authorization and user assignment

Authorization

1. Authorization on the API endpoints works via basic auth per request
2. 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

1. 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, ...)

HTTP Example:

GET

/api/exchange/deviations?status=ALL&level=ALL&team=e70ebfdd-760b-4f50-b69f-6564acb4a367&page=1

Host: api-demo.valuestreamer.de

Accept: application/vs.v2.0+json

Content-Type: application/vs.v2.0+json

Authorization: Basic a3Bpxxxxxxvvvvvv66554433222=

Postman example:

The screenshot shows the Postman interface for a GET request. The URL is `{{url}}/api/exchange/deviations?status=ALL&level=ALL&team=e70ebfdd-760b-4f50-b69f-6564acb4a367&page=1`. The 'Authorization' tab is selected, showing 'Basic Authentication' with a dropdown menu. The 'Username' field contains `{{basicUser}}` and the 'Password' field contains `{{basicPassword}}`. A 'Show Password' checkbox is checked. The 'Send' button is visible in the top right corner.

Additional information		
Created by System Admin	Created on 20.09.2023	Origin Work in Progress (Gut findbarer Name)
Last changed by *	Last changed on *	Archived on *

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

Deviations

Period from - to

51 Active 23 Without countermeasure 6 Closed 23.32 h Impact

Top issue Go & See Feedback Combine Done Delete

Deviation	Combine	Created on	Created by	Team	Category	Type	Duration (min)	Frequency	Linked with
Scrap on machine A		17.03.2021	Christina Kuhn	Project...	Machine...	Error	30	1	
Maschinendefekt Z74		01.03.2021	Christina Kuhn	Project...	Machine...	Problem	30	1	
Qualitätsproblem in der Fertigst...		26.02.2021	Christina Kuhn	Project...	No Material	Error	30	1	
Drilling machine broken		25.02.2021	Christina Kuhn	Project...	Machine...	Error	30	1	
Example		23.02.2021	Christina Kuhn	Project...	No Material	Error	30	1	
Test		22.02.2021	Christina Kuhn	Project...	Order &...	Error	30	1	
Bad weather		19.02.2021	Christina Kuhn	Project...	Order &...	Problem	30	1	
Lieferant hat nicht geliefert		26.01.2021	Christina Kuhn	Project...	Waiting	Problem	30	1	
Beispiel		23.01.2021	Christina Kuhn	Project...	No Material	Problem	30	1	
No raw material supplied		23.01.2021	Christina Kuhn	Project...	No Material	Error	20	1	

Close Scrap on machine A Apply changes

Deviation Countermeasures

Deviations

Scrap on machine A
17.03.2021 Christina Kuhn

Topic

Title (What happens?)
Scrap on machine A

Category Machine defect Deviation type Problem Duration (min) 30 Frequency 1

Description

Additional information

Created by Christina Kuhn Created on 17.03.2021 Origin PMO

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 method	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 a deviation category by id	Returns a specific categories on the tenant	GET	/exchange/deviation-categories/{id}
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 a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTdLdXY=

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=

Response:

```
[
  {
    "id": "e3372d60-d0c2-11ea-87d0-0242ac130003",
    "firstName": "Daniel",
    "lastName": "Ackermann",
    "email": "Daniel.Ackermann@valuestreamer-demo.de"
  },
  {
    "id": "e3372fcc-d0c2-11ea-87d0-0242ac130003",
    "firstName": "Martina",
    "lastName": "Amsel",
    "email": "Martina.Amsel@valuestreamer-demo.de"
  },
  {
    "id": "e3373314-d0c2-11ea-87d0-0242ac130003",
    "firstName": "Sarah",
    "lastName": "Andersen",
    "email": "Sarah.Andersen@valuestreamer-demo.de"
  },
  ...
]
```

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

Request:
GET /api/exchange/deviation-categories HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/json
Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTdLdXY=

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 #4 GET /exchange/deviation-categories

- Accept:
 - application/json
 - application/vs.v2.0+json
- Extra Query Parameters in V2:
 - @RequestParam category-type: Filters the categories by type. Available values: ALL, CORE
- Extra Response Fields in V2:
 - coreCategory (boolean): Indicates whether the category is a core category.
 - coreCategoryType (string or null): A string value if coreCategory = true, otherwise null.

Request:
GET /api/exchange/deviation-categories HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/vs.v2.0+json
Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=

Response:

```
[
  {
    "id": "fe7dd559-e1fe-4287-b856-9df646944946",
    "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"
      }
    ],
    "teams": [
      "fe7dd559-e1fe-4287-b856-9df646944946",
      ""
    ],
    "coreCategory": true,
    "coreCategoryType": "WORKSAFETY"
  }, ...
]
```

2.2 #5 GET /exchange/deviation-categories/{id}

Get a category by id

- Accept:
 - application/json
 - application/vs.v2.0+json
- Extra Response Fields in V2:
 - coreCategory (boolean): Indicates whether the category is a core category.
 - coreCategoryType (string or null): A string value if coreCategory = true, otherwise null.

Request:
GET /api/exchange/deviation-categories/{id} HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/vs.v2.0+json
Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=

Response:

```
{
  "id": "fe7dd559-e1fe-4287-b856-9df646944946",
  "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"
    }
  ],
  "teams": [
    "fe7dd559-e1fe-4287-b856-9df646944946",
    ""
  ],
  "coreCategory": true,
  "coreCategoryType": "WORKSAFETY"
}
```

2.2 #6 GET /exchange/teams/{team_id}/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. Extended configuration of KPI WorkSafety and how to use it

3.1 Extension of the configuration options of the work safety cross

System administrators now have the opportunity to define extra fields, instead of being limited to non-working days only.

Old

Arbeitsfreie Tage definieren

Bitte definieren Sie den/die Arbeitstag(e), an dem/denen typischerweise nicht gearbeitet wird.

☐ Montag
☒ Dienstag
☐ Mittwoch
☐ Donnerstag
☐ Freitag
☒ Samstag
☒ Sonntag

Abbrechen OK

New

Konfiguration Arbeitssicherheitskreuz

Arbeitsfreie Tage

☐ Montag ☒ Dienstag ☐ Mittwoch ☐ Donnerstag
☐ Freitag ☒ Samstag ☒ Sonntag

Verfügbare Felder

Alle Ausgewählt Nicht ausgewählt

Aktionen	Bezeichnung	Typ	Hinweis
	Bewertung	Dropdown	⚠ Systemweit vorgegebenen, nicht änderbar
	Beschreibung der Abweichung	Textfeld (200 Zeichen)	⚠ Systemweit vorgegebenen, nicht änderbar
	Textfeld 1 (lang, 80 Zeichen)	Textfeld (80 Zeichen)	
	Textfeld 2 (lang, 80 Zeichen)	Textfeld (80 Zeichen)	
	Textfeld 3 (lang, 80 Zeichen)	Textfeld (80 Zeichen)	
	Textfeld 1 (kurz, 40 Zeichen)	Textfeld (40 Zeichen)	
	Textfeld 2 (kurz, 40 Zeichen)	Textfeld (40 Zeichen)	
	Textfeld 3 (kurz, 40 Zeichen)	Textfeld (40 Zeichen)	
	Ursache	Dropdown	
	Dropdown 2	Dropdown	⚠ Deaktiviert, da keine Werte vorhanden
	Dropdown 3	Dropdown	⚠ Deaktiviert, da keine Werte vorhanden
	Dropdown 4	Dropdown	⚠ Deaktiviert, da keine Werte vorhanden
	Dropdown 5	Dropdown	⚠ Deaktiviert, da keine Werte vorhanden
	Dropdown 6	Dropdown	⚠ Deaktiviert, da keine Werte vorhanden
	Gefährdungsbeurteilung durchgeführt?	Checkbox	
	Arztbesuch durchgeführt?	Checkbox	
	Checkbox 3	Checkbox	
	Checkbox 4	Checkbox	
	Checkbox 5	Checkbox	
	Checkbox 6	Checkbox	

Available extra fields for work safety deviations:

- 3 long text fields (maximum 80 characters each)
- 3 short text fields (maximum 40 characters each)
- 6 checkbox fields
- 6 dropdown fields

System administrators can update the names of all fields and dropdown options in all supported languages.

3.2 GET /exchange/worksafety-config

Get the configuration of the work safety kpi

- The endpoint returns the configuration of the work safety kpi
- Accept: application/json

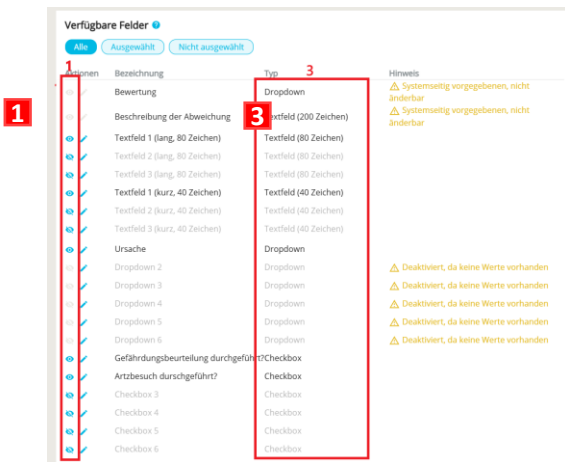
Request:
GET /api/exchange/worksafety-config HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/json
Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=

Response:

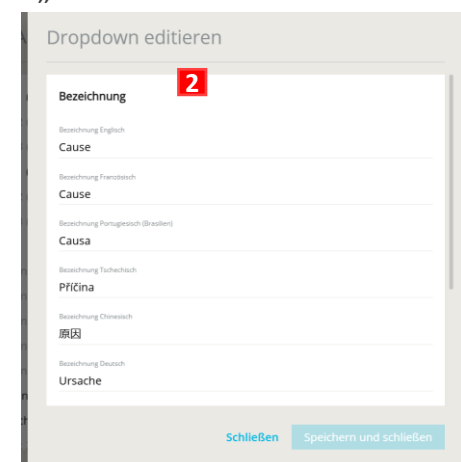
```
{
  "textfield_long_1": {
    "active": true,
    "names": {
      "CS": "Textfield 1 (long, 80 characters)",
      "DE": "Textfeld 1 (lang, 80 Zeichen)",
      "PT-BR": "Textfield 1 (long, 80 characters)",
      "EN": "Textfield 1 (long, 80 characters)",
      "FR": "Textfield 1 (long, 80 characters)",
      "ZH": "Textfield 1 (long, 80 characters)"
    },
    "type": "TEXTFIELD_LONG"
  },
  ...
  "dropdown_1": {...},
  ...
  "checkbox_1": {...},
  ...
}
```

3.3 # 1 Fields of work safety's configuration and where to get them as response

Screen 1: the „active“ field and the „type“ field



Screen2 : the „names“ fields



#	Field	Format	note
1	active	Boolean	If the extra field is activated
2	names	Map<String, String>	The translations in all supported languages
3	type	Enum	Type of the field, one of : - TEXTFIELD_LONG - TEXTFIELD_SHORT - CHECKBOX - DROPPDOWN

Response:

```
{
  "textfield_long_1": {...},
  ...
  "dropdown_1": {
    "active": true,
    "names": {
      "CS": "Příčina",
      "DE": "Ursache",
      "PT-BR": "Causa",
      "EN": "Cause",
      "FR": "Cause",
      "ZH": "原因"
    },
    "type": "DROPPDOWN",
    "options": [...]
  }
}
```

3.3 # 2 Fields of work safety's configuration and where to get them as response

Screen 3: all options of a dropdown

Werte

Aktioner

8

Bezeichnung

Unachtsamkeit / Ablenkung

Fehlende oder falsche Schutzausrüstung

Technisches oder organisatorisches Versagen

Menschliches Fehlverhalten / Regelverstöße

Screen4 : the translations of an option

Wert editieren

Bezeichnung

7

Bezeichnung English

Technical or organizational failure

Bezeichnung French

Défaillance technique ou organisationnelle

Bezeichnung Portuguese (Brazil)

Falha técnica ou organizacional

Bezeichnung Turkish

Technical or organizational failure

Bezeichnung Chinese

Technical or organizational failure

Bezeichnung Deutsch

Technisches oder organisatorisches Versagen

#	Field	Format	note
5	options[i].id	UUID	The id of the dropdown option
6	options[i].field_id	Enum	Which dropdown does the option belong to?
7	options[i].names	Map<String, String>	The translations of the option in all supported languages
8	options[i].order_id	int	The order of the option

Response:

```
{
  "dropdown_1": {
    ...
    "options": [
      {
        "id": "add87296-f986-408c-9a0f-b2a76dfeb06e",
        "field_id": "DROPDOWN_1",
        "names": {
          "CS": "Technical or organizational failure",
          "DE": "Technisches oder organisatorisches Versagen",
          "PT-BR": "Falha técnica ou organizacional",
          "EN": "Technical or organizational failure",
          "FR": "Défaillance technique ou organisationnelle",
          "ZH": "Technical or organizational failure"
        },
        "order_id": 0
      },
      ...
    ]
  }
}
```

4. Deviation management use cases and REST-API endpoints

4.1 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.

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

Close

No cookies

Apply changes

Deviation

Countermeasures

Deviations

No cookies

17.03.2021 Christina Kuhn

Topic

Title (What happens?)

No cookies

Category

No Material

Deviation type

Problem

Duration (min)

30

Frequency

1

Description

Additional information

Created by

Christina Kuhn

Created on

17.03.2021

Origin

PMO

Last changed by

Christina Kuhn

Last changed on

23.03.2022

Archived on

-

				List of endpoints:		
				1. GET /exchange/deviations/{query_parameters}		
				2. GET /exchange/deviations/{id}		
				3. GET /exchange/deviations/{id}/description		
#	Field	Format	JSON field name	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		✓	

4.2 The new deviation Category **WORKSAFETY** and new deviation types **NEAR_MISS/ ACCIDENT**

Screen 1: Single deviation focus mode

Create new deviation

CloseLink CountermeasureCreate

DeviationsCountermeasures

Deviations14.08.2024

Topic

Description of the deviation (what happened?)

CategoryWork safety2

Deviation type3

Dauer0 min.

Häufigkeit1 Wdhl.

Description

Start writing...

Additional information

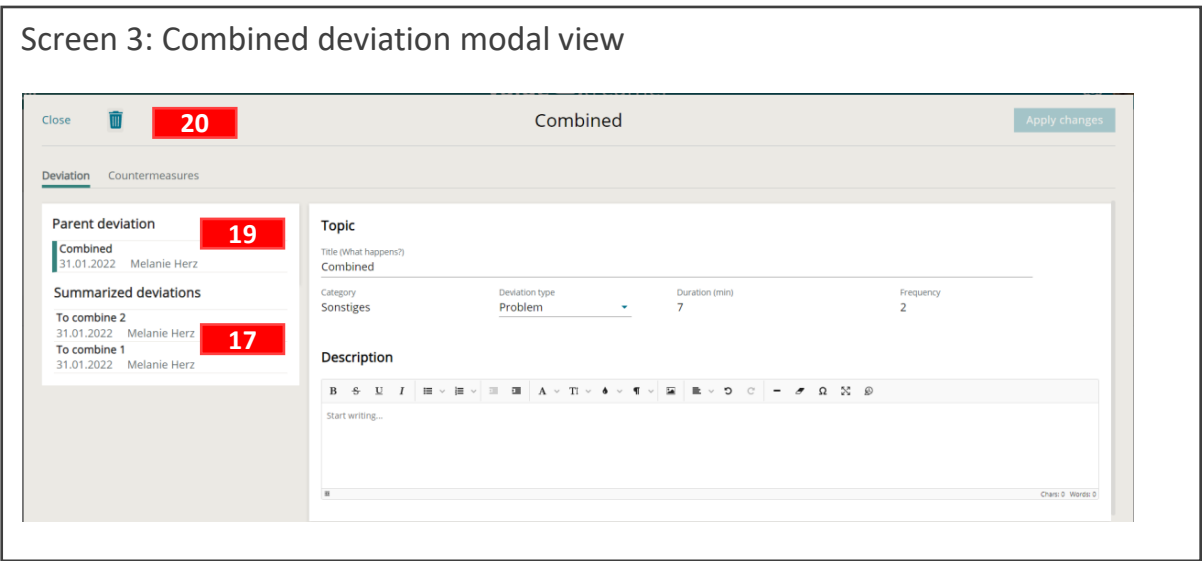
Created byCreated onOrigin

Last changed byLast changed onArchived on

List of endpoints:						
#	Field	Format	JSON field name			
1. GET /exchange/deviations/{query_parameters}				1	2	3
2. GET /exchange/deviations/{id}				✓	✓	
3. GET /exchange/deviations/{id}/description				✓	✓	
2	Category	UUID	category	✓	✓	
3	Deviation type	Enum	deviationType	✓	✓	

- Work safety deviations are assigned the fixed category "Work Safety".
- Non-work safety deviations cannot be assigned the category "Work Safety".
- For these deviations, the available types are "Near_Miss" and "Accident".
- For all non-work safety deviations, the type is "Problem / Error".

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



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

4.2 Extra fields of a work safety's deviation and where to get them as response

If system administrators define extra fields and the deviation belongs to the work safety's kpi

Screen 4: Extra fields of a work safety's deviation

Dauer0Häufigkeitmin. 1Wdhl.

Text field long21

Text field short22Ursache23

☒ Gefährdungsbeurteilung durchgeführt?24

☐ Arztbesuch durchgeführt?

				List of endpoints:		
#	Field	Format	JSON field name	1. GET /exchange/deviations/{query_parameters}		
				2. GET /exchange/deviations/{id}		
				3. GET /exchange/deviations/{id}/description		
				1	2	3
21		String	textfield_long_1 - 6	✓	✓	
22		String	textfield_short_1 - 6	✓	✓	
23		UUID	dropdown_1 - 6	✓	✓	
24		Boolean	Checkbox_1 - 6	✓	✓	

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

Screen 1: Single deviation modal view

Close

No cookies

Apply changes

Deviation

Countermeasures

Deviations

No cookies

17.03.2021 Christina Kuhn

Topic

Title (What happens?)

No cookies

Category

No Material

Deviation type

Problem

Duration (min)

30

Frequency

1

Description

Screen 2 : Deviation modal view – Additional info

Additional information

Created by

Christina Kuhn

Created on

17.03.2021

Origin

PMO

Last changed by

Christina Kuhn

Last changed on

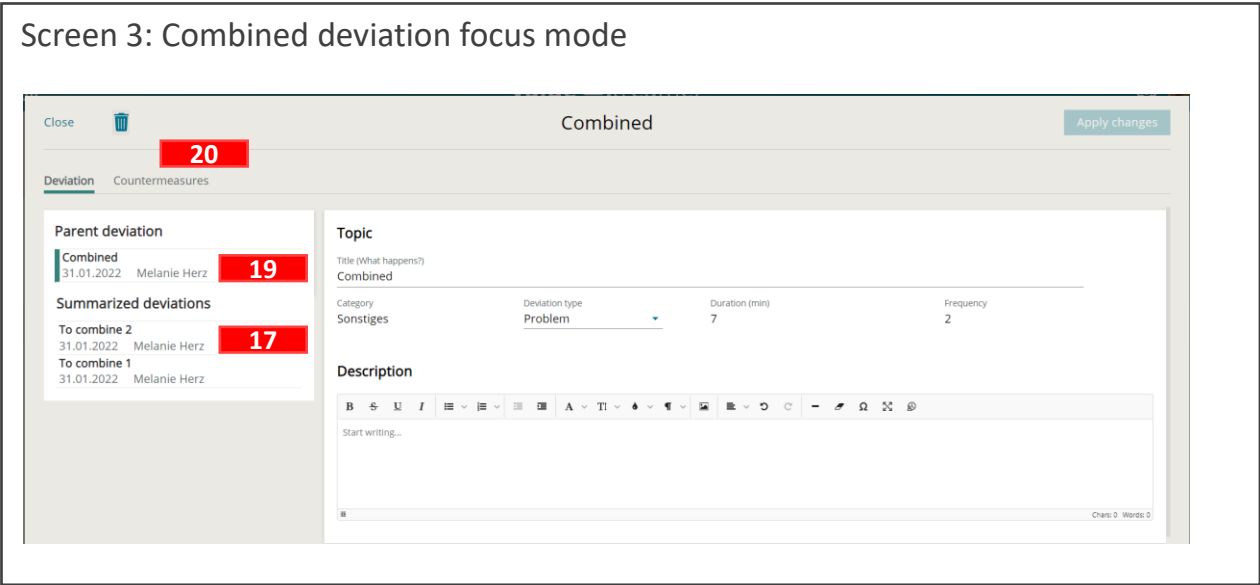
23.03.2022

Archived on

-

#	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		

4.3 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	isCombinedParentDeviation		✓	
17		List of UUIDs	childDeviations		✓	
18		Boolean	isChildDeviation		✓	
19		UUID	parentDeviation		✓	
20		List of UUIDs	countermeasures		✓	

4.3 Extra fields of a work safety's deviation and where to insert or update them

If system administrators define extra fields and the deviation belongs to the work safety's kpi

Screen 4: Extra fields of a work safety's deviation

Dauer0Häufigkeitmin. 1Wdhl.

Text field long21

Text field short22Ursache23

☒ Gefährdungsbeurteilung durchgeführt?24

☐ Arztbesuch durchgeführt?

				List of endpoints:		
				1. GET /exchange/deviations/{query_parameters}		
				2. GET /exchange/deviations/{id}		
				3. GET /exchange/deviations/{id}/description		
#	Field	Format	JSON field name	1	2	3
21		String	textfield_long_1 - 6	✓	✓	
22		String	textfield_short_1 - 6	✓	✓	
23		UUID	dropdown_1 - 6	✓	✓	
24		Boolean	Checkbox_1 - 6	✓	✓	

4.4 #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=** → 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
- V3: Accept: application/vs.v3.0+json,
- deviation types: PROBLEM, ERROR, NEAR_MISS and ACCIDENT

Bold = required / mandatory

Request:
GET /api/exchange/deviations?level=ALL&team=276cf6e6-f4fe-4e66-ae2b-cc42e51997a2&status=ALL&page=1 HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/vs.v3.0+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",
        "worksafety": {
          }
        }
      }
    ]
  }
}
```

4.4 #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 whether 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 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
- V3 Accept: application/vs.v3.0+json – Content-Type: application/vs.v3.0+json

Request:
GET /api/exchange/deviations/61d93096-3235-4b6d-8fef-1ca2935e2ee6?include=COUNTERMEASURES HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/vs.v3.0+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)"
  },
  "worksafety": null
}
```

4.4 #2 GET /exchange/deviations/{deviation-id}?include=V3 with worksafety's properties

- Work safety deviations include additional work safety-specific properties:
 - textfield_long_1 to textfield_long_3: string (maximum 80 characters each)
 - textfield_short_1 to textfield_short_3: string (maximum 40 characters each)
 - checkbox_1 to checkbox_6: Boolean
 - dropdown_1 to dropdown_6: UUID
- If the deviation is not related to work safety, the worksafety object is set to null

Request:
GET /api/exchange/deviations/61d93096-3235-4b6d-8fef-1ca2935e2ee6?include=COUNTERMEASURES HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/vs.v3.0+json
Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdLdXY=

```
{
  "id": "24ddf8c4-6941-472a-99c1-887976f8304d",
  ....
  "countermeasures": [],
  "sourceEntity": {...},
  "worksafety": {
    "textfield_long_1": "text long 1",
    "textfield_long_2": "text long 2",
    "textfield_long_3": "text long 3",
    "textfield_short_1": "text short 1",
    "textfield_short_2": "text short 2",
    "textfield_short_3": "text short 3",
    "checkbox_1": true,
    "checkbox_2": true,
    "checkbox_3": true,
    "checkbox_4": true,
    "checkbox_5": true,
    "checkbox_6": true,
    "dropdown_1": "3c845cca-0e3e-45c8-84f8-fdff6bb5a3fa",
    "dropdown_2": null,
    "dropdown_3": null,
    "dropdown_4": null,
    "dropdown_5": null,
    "dropdown_6": null
  }
}
```

4.4 #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 occurred
- 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/vnd.vs.v2.0+json
- **Currently, the endpoint does not support creating work safety deviations. Therefore, only 'PROBLEM' and 'ERROR' can be used as DeviationType, and the new core category 'Work Safety' cannot be applied**

Bold = required / mandatory

Request:

```
POST /api/exchange/deviations HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/vnd.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": {
    "isChildDeviation": false,
    "parentDeviation": null
  },
  "countermeasures": [],
  "sourceEntity": {
    "type": "KPI",
    "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
    "name": "resource availability"
  }
}
```

4.4 #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
- V3 Accept: application/ vs.v3.0+json – Content-Type: application/vs.v3.0+json

```
Request:
PUT /api/exchange/deviations/d80673f9-5011-4e86-88e2-278c01ac6dfb HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/vs.v3.0+json
Content-Type: application/vs.v3.0+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"
    ]
  },
  "worksafety": null,
  "childDeviation": {
    "isChildDeviation": false,
    "parentDeviation": null
  },
  "countermeasures": [
  ],
  "sourceEntity": {
    "type": "KPI",
    "id": "1fdd2864-162e-4f79-b20e-1dbcdbd409f2d",
    "name": "Level of disturbance (aggregated)"
  }
}
```

4.4 #4 PUT /exchange/deviations/{id} V3 mit worksafety's properties

- Work safety deviations include additional work safety-specific properties:
 - textfield_long_1 to textfield_long_3: string (maximum 80 characters each)
 - textfield_short_1 to textfield_short_3: string (maximum 40 characters each)
 - checkbox_1 to checkbox_6: Boolean
 - dropdown_1 to dropdown_6: UUID
- If the deviation is not related to work safety, the worksafety object is set to null

```
Request:
PUT /api/exchange/deviations/d80673f9-5011-4e86-88e2-278c01ac6d6b HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/vs.v3.0+json
Content-Type: application/vs.v3.0+json
Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdldXY=
{
  "category": "cd314f50-cb2c-11ea-87d0-0242ac130003",
  "closed": false,
  "title": "No cookies",
  "duration": 7,
  "frequency": 7,
  "deviationType": "PROBLEM"
}
{
  "id": "24ddf8c4-6941-472a-99c1-887976f8304d",
  ....
  "countermeasures": [],
  "sourceEntity": {...},
  "worksafety": {
    "textfield_long_1": "text long 1",
    "textfield_long_2": "text long 2",
    "textfield_long_3": "text long 3",
    "textfield_short_1": "text short 1",
    "textfield_short_2": "text short 2",
    "textfield_short_3": "text short 3",
    "checkbox_1": true,
    "checkbox_2": true,
    "checkbox_3": true,
    "checkbox_4": true,
    "checkbox_5": true,
    "checkbox_6": true,
    "dropdown_1": "3c845cca-0e3e-45c8-84f8-fdff6bb5a3fa",
    "dropdown_2": null,
    "dropdown_3": null,
    "dropdown_4": null,
    "dropdown_5": null,
    "dropdown_6": null
  }
}
```

4.4 #4 PUT /exchange/deviations/{id}

Note regarding the new core category 'Work Safety', the new deviation types 'NEAR_MISS' and 'ACCIDENT', and the associated work safety properties.

- If the created deviation has the core category “Work Safety”:
 - Only NEAR_MISS and ACCIDENT can be used as DeviationType.
 - The deviation category cannot be changed.
- If the created deviation has a category other than the core category “Work Safety”:
 - Only PROBLEM and ERROR can be used as DeviationType.
 - The deviation category cannot be changed to the core category “Work Safety”.
- The work safety properties cannot be added or modified.

4.4 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.v2.0+json** or **application/vs.v3.0+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 deviation endpoint by using Content-Type: application/vs.v2.0+json and version 3.0 PUT deviation endpoint by using Content-Type: application/vs.v3.0+json

```
Request:
PUT /api/exchange/deviations/d80673f9-5011-4e86-88e2-278c01ac6d6b HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: application/vs.v3.0+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-1dbcdbd409f2d",
    "name": "Level of disturbance (aggregated)"
  }
}
```

4.4 #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:

4.4 #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-af84-0fe651de8fcb/description HTTP/1.1
Host: api-demo.valuestreamer.de
Accept: text/html
Authorization: Basic a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTDdldXY=

Response:
<p>Your text could stand here</p>

4.4 #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 a3BpZXhjaGFuZ2U6NW1VZE1HbWpxOTNvdE9WTdLdXY=

'<p>Get some cookies!</p>'
```

```
Response:
'<p>Get some cookies!</p>'
```



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