

Explainsafe API

Version 4.5.1 (16-10-2024)



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Document changes

The following changes have been made to this document since the last version:

3-3-2022	Page 7 - RequestExam	This call is a new addition to this documentation. Additional information has also been added about the personal data validation and the max length constraints on this data.
3-3-2022	Page 3 – Document Changes	A “Document changes” section has been created to log any changes to this API documentation from now on.
11-4-2022	Page 6 to 13 – GetResults	Changed the example responses to reflect the correct attributes for this specific GetResults call (some GPI attributes were still included and had to be replaced)
13-4-2022	Page 6 – GetResults	Added some information about the customization of the response on the GetResults call and changed some example URLs to reflect the correct endpoint.
30-05-2023	Page 26 – UpdateExam	Call UpdateExam added to documentation.
15-10-2024	Page 6 – GetExams Page 7 – GetResults Page 31 – RemoveCandidate	The RemoveCandidate call was already built earlier in the year but was missed in this update table. This call makes it possible for test-enabled users to remove a candidate including all of the exams. The GetResults has been updated to also accept a module_key for refined searching and smaller collections in the response as a result. This can be combined with the mail input and the date range input. We also made it possible to return a groupname for the candidate, we can enable this manually per API-user, this is not something the customer can enable themselves, simply send us a mail to request this update on your user.

Introduction

This manual describes the technical information needed to exchange information from and to the explain-safe application.

All described calls include the URL parameters, data parameters and the to-be-expected success and error messages.

Information in this manual is not final. However, changes made in this manual are prevented as much as possible.

URLs

Test URL: <https://acc-www.explainsafe.nl/>

Production URL: <https://www.explainsafe.nl/>

Authentication

For each request you will need to provide your relation key and your user key. Explain will provide you with both keys.

Example:

```
"relation_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",  
"user_key": "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q"  
}
```

Requests

1. GetExams
2. GetResults
3. GetRegister
4. RequestExam
5. UpdateExam
6. RemoveCandidate

i.e. by default, you are authorized to interact with the GetRegister API. Make sure you have additional permissions to also interact with the other three APIs.

1. GetExams

The GetExams request is used to obtain a list of all current exams that are available. You must use the modulekey value to request an exam.

URL

/api/sector/GetExams

Method

POST

URL parameters

None

Data parameters

Parameter	Required	Type	Description
relation_key	Y	String	Your relation_key (provided by explain)
user_key	Y	String	Your user_key (provided by explain)

Sample request

URL: <https://www.explainsafe.nl/api/sector/GetExams>

Request

```
{
  "relation_key":
  "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfzld8cxzjbc3",
  "user_key": "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q"
}
```

Success Response

```
{
  "exams": [
    {
      "id": "de20c2a3af",
      "name": "Module_1"
    },
    {
      "id": "5bb0b85fd4",
      "name": "Module_2"
    },
    {
      "id": "b7f1701529",
```

```

"name": "Module_3"
},

{
  "id": "7ab3c36a5a",
  "name": "Module_4"
}
]
}

```

Error Response

```
{ "error": "Authentication failed" }
```

2. GetResults

The results as described can vary per customer due to the dynamic nature of the response in our application. This means that candidate could for example exclude 'date_of_birth' and at the same time include another attribute such as company_name. Configuration of the customized GetResults response is done by eX:plain.

The GetResults request is used to obtain the results of a single exam, all results of a single candidate or all the results within a specified date range.

It is possible to further specify the date range by providing additional email addresses

The certificate will be returned as a base64 string when a single exam is requested (exam key).

URL

/api/sector/get-results

Method

GET

URL parameters

None

Parameter	Required	Type	Description
relation_key	Y	String	Your relationkey (provided by explain)
user_key	Y	String	Your userkey (provided by explain)
candidate_key	N	String	Your candidatekey (provided By RequestExam)
exam_key	N	String	Your examkey (provided By RequestExam)
date_range_start	N	Date	The start date (dd-mm-yyyy) of the specified range (based on completion data)

date_range_end	N	Date	The end date (dd-mm-yyyy) of the specified range (based on completion data)
candidate_email	N	String	Optionally specify the request by providing the email address of a candidate within a specified date range.
module_key	N	String	Get the module_key by using the GetExams call first, use these module_key values to filter the search with the GetResults call, this can be done in combination with the candidate_email and date_range_start/date_range_end input scenario's.

Data parameters

1. Sample request on candidate key and exam key.

URL: <https://www.explainsafe.nl/api/sector/get-results>

Request

```
{
  "relation_key":
  "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",
  "candidate_key":
  "9GzH4PNsb6oIcl6fjo7d401CQ6m5fH9OZNMnnB0XxQDvjFf4dsUgQmN7TrazYPY",
  "exam_key":
  "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"
}
```

Success Response

```
[
  {
    "candidate": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "birth_date": "01-01-2000",
      "email": "sample@email.com",
      "company_name": ""
    },
    "exam_groups": [
      {
        "key":
        "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
        "name": "B&U",
        "graduation_date": "20-01-2018",
        "certificate_expire_date": "20-01-2019",
        "language": "Nederlands",
        "graduated": "true",

```



```
        "status": "Geslaagd",
        "number_attempts": "2",
        "certificate": "[base64 string (only for single exam)]"
    }
}
]
```

Error Response

```
{ "error": "Authentication failed" }
```

OR

```
{ "error": "Exam cannot be found" }
```

2. Sample request on candidate key.

URL: <https://www.explainsafe.nl/api/sector/get-results>

Request

```
{
  "relation_key":
  "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzflzd8cxzjbc3",
  "candidate_key":
  "9GzH4PNsb6oIcl6fjo7d401CQ6m5fH9OZNMnnB0XxQDvjFf4dsUgQmN7TrazYPY"
}
```

Success Response

```
[
  {
    "candidate": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "birth_date": "01-01-2000",
      "email": "sample@email.com",
      "company_name": ""
    },
    "exam_groups": [
      {
        "key":
        "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
        "name": "B&U",
        "graduation_date": "20-01-2018",
        "certificate_expire_date": "20-01-2019",
        "language": "Nederlands",
        "graduated": "true",
        "status": "Geslaagd"
        "number_attempts": "2",
        "certificate": "[base64 string (only for single exam)]"
      }
    ]
  }
]
```

```
]      }      ]
```

Error Response

```
{ "error": "Authentication failed" }
```

OR

```
{ "error": "Exam cannot be found" }
```

3. Sample request on exam key.

URL: <https://www.explainsafe.nl/api/sector/get-results>

Request

```
{
  "relation_key":
  "tttewls7iedgw8x0tawhw9fikkfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfd8cxzjbc3",
  "examkey": "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"
}
```

Success Response

```
[
  {
    "candidate": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "birth_date": "01-01-2000",
      "email": "sample@email.com",
      "company_name": ""
    },
    "exams": [
      {
        "key":
        "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
        "name": "B&U",
        "graduation_date": "20-01-2018",
        "certificate_expire_date": "20-01-2019",
        "language": "Nederlands",
        "graduated": "true",
        "status": "Geslaagd"
        "number_attempts": "2",
        "certificate": "[base64 string (only for single exam)]"
      }
    ]
  }
]
```

Error Response

```
{ "error": "Authentication failed" }
```

OR

```
{ "error": "Exam cannot be found" }
```

4. Sample request on date range and candidate email address.

URL: <https://www.explainsafe.nl/api/sector/get-results>

Request

```
{  
  "relation_key":  
  "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",  
  "user_key":  
  "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfd8cxzjbc3",  
  "date_range_start": "01-01-2021",  
  "date_range_end": "01-02-2021",  
  "candidate_email": "sample@email.com"  
}
```

Success Response

```
[  
  {  
    "candidate": {  
      "initials": "H.D",  
      "firstname": "Harry",  
      "lastname": "Wild",  
      "birth_date": "01-01-2000",  
      "email": "sample@email.com",  
      "company_name": ""  
    },  
    "exam_groups":  
    [  
      {  
        "key":  
        "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"  
        "name": "B&U",  
        "graduation_date": "05-01-2021",  
        "certificate_expire_date": "05-01-2022",  
        "language": "Nederlands",  
        "graduated": "true",  
        "status": "Geslaagd"  
        "number_attempts": "2",  
        "certificate": "[base64 string (only for single exam)]"  
      }  
    ]  
  }  
]
```

Error Response

{ "error": "Authentication failed" }

OR

{ "error": "Exam cannot be found" }

5. Sample request on date range.

URL: <https://www.explainsafe.nl/api/sector/get-results>

Request

```
{
  "relation_key":
  "tttewls7iedgw8x0tawhw9fikkfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key":
  "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfd8cxzjbc3",
  "date_range_start": "01-01-2021",
  "date_range_end": "01-02-2021"
}
```

Success Response (in reality this response could be way bigger when using date range only, this is just an example, use the previous response in combination with email to reduce to response size)

```
[
  {
    "candidate": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "birth_date": "01-01-2000",
      "email": "sample@email.com",
      "company_name": ""
    },
    "exams": [
      {
        "key":
        "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"
        "name": "B&U",
        "graduation_date": "05-01-2021",
        "certificate_expire_date": "05-01-2022",
        "language": "Nederlands",
        "graduated": "true",
        "status": "Geslaagd"
        "number_attempts": "2",
        "certificate": "[base64 string (only for single exam)]"
      }
    ]
  }
]
```

Error Response

```
{ "error": "Authentication failed" }
```

OR

```
{ "error": "Exam cannot be found" }
```

6. Sample request on candidate email address.

URL: <https://www.explainsafe.nl/api/sector/get-results>

Request

```
{  
  "relation_key":  
  "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",  
  "user_key":  
  "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfld8cxzjbc3",  
  "candidate_email": "sample@email.com"  
}
```

Success Response

```
[  
  {  
    "candidate": {  
      "initials": "H.D",  
      "firstname": "Harry",  
      "lastname": "Wild",  
      "birth_date": "01-01-2000",  
      "email": "sample@email.com",  
      "company_name": ""  
    },  
    "exams": [  
      {  
        "key":  
        "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"  
        "name": "B&U",  
        "graduation_date": "05-01-2021",  
        "certificate_expire_date": "05-01-2022",  
        "language": "Nederlands",  
        "graduated": "true",  
        "status": "Geslaagd"  
        "number_attempts": "2",  
        "certificate": "[base64 string (only for single exam)]"  
      }  
    ]  
  }  
]
```


]

7. Sample request on candidate email address and module key

URL: <https://www.explainsafe.nl/api/sector/get-results>

Request

```
{
  "relation_key":
  "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key":
  "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfd8cxzjbc3",
  "candidate_email":
  "sample@email.com",
  "module_key":
  "7ab3c36a5a"
}
```

Success Response

```
[
  {
    "candidate": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "birth_date": "01-01-2000",
      "email": "sample@email.com",
      "company_name": ""
    },
    "exams": [
      {
        "key":
        "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"
        "name": "Module_4 ",
        "graduation_date": "05-01-2021",
        "certificate_expire_date": "05-01-2022",
        "language": "Nederlands",
        "graduated": "true",
        "status": "Geslaagd"
        "number_attempts": "2",
        "certificate": "[base64 string (only for single exam)]"
      }
    ]
  }
]
```

]

EXTRA:

It is also possible to enable the candidate_group to be returned in the response, this is something we can enable for the API user and is disabled by default.

We used to already have the possibility of expanding the response but the candidate_group was an outlier in this case. Since 15-10-2024 it is also possible to include the candidate_group (name).

The response will look like this example:

Success Response

```
[
  {
    "candidate": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "birth_date": "01-01-2000",
      "email": "sample@email.com",
      "company_name": "company name",
      "candidate_group": "group name"
    },
    "exams": [
      {
        "key":
          "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"
        "name": "Module_4 ",
        "graduation_date": "05-01-2021",
        "certificate_expire_date": "05-01-2022",
        "language": "Nederlands",
        "graduated": "true",
        "status": "Geslaagd"
        "number_attempts": "2",
        "certificate": "[base64 string (only for single exam)]"
      }
    ]
  }
]
```

Error Response

{ "error": "Authentication failed" }

OR

{ "error": "Exam cannot be found" }

3. GetRegister

The GetRegister request is used to search the Explainsafe register (optionally the GPI register) in order to check if a candidate has obtained certain certificates.

URL

/api/sector/get-register

Method

GET

URL parameters

None

Data Parameters

Parameter	Required	Type	Description
relation_key	Y	String	Your relationkey (provided by explain)
user_key	Y	String	Your userkey (provided by explain)
certificate_key	Y	String	A certificatenummer that can be found on the certificate. (also provided by GetResults)

OR

Parameter	Required	Type	Description
relation_key	Y	String	Your relationkey (provided by explain)
user_key	Y	String	Your userkey (provided by explain)
lastname	Y	String	Last name of the requested candidate results
date_of_birth	Y	Date (DD-MM-YYYY)	Date of birth of the requested candidate results
module	N	String	The name of the module

or (for a Base64 return)

Parameter	Required	Type	Description
relationkey	Y	String	Your relationkey (provided by explain)
userkey	Y	String	Your userkey (provided by explain)
lastname	Y	String	Last name of the requested candidate results
date_of_birth	Y	Date (DD-MM-YYYY)	Date of birth of the requested candidate results
certificate_key	Y	String	A certificatenummer that can be found on the certificate. (also provided by GetResults)

Sample request

URL: <https://www.explainsafe.nl/api/sector/get-register>

Request

There are three ways to obtain information from the register. You can either specify a specific certificate key or you can use the last name, date of birth of the candidate in combination with the module name of the exam. If you specify all the parameters, the certificate key will dominate and you will receive the certificate number belonging to that specific key.

The third method would be to use the lastname, date_of_birth and certificate_key together in order to get a base64 returned in addition to the usual response, this makes it possible to retrieve the actual .PDF for the certificate.

```
{
  "relation_key" :
  "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",
  "certificate_key": "202101000008"
}
```

or

```
{
  "relation_key": "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",
  "lastname": "Register",
  "date_of_birth": "01-01-1990"
  "module": "GPI"
}
```

Success Response

```
"results": [
  {
    "module": "GPI",
    "startdate": "20-01-2021",
    "valid_until": "20-01-2022",
    "language": "Nederlands",
    "code": "202101000008"
  },
  {
    "module": "GPI",
    "startdate": "20-01-2021",
    "valid_until": "20-01-2022",
    "language": "Nederlands",
    "code": "202101000009"
  }
]
```

Error Response

```
{ "error": "Authentication failed" }
```

A sample request for the third option (for the additional Base64):

```
{
  "relation_key": "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",
  "lastname": "Register",
  "date_of_birth": "01-01-2000"
  "certificate_key": "201801000008"
}
```

Success Response (Base64 is longer in reality, this is just an example)

```
"results": [
  {
    "module": "GPI",
    "startdate": "20-01-2018",
    "valid_until": "20-01-2019",
    "language": "Nederlands",
    "code": "201801000008"
    "certificate": "JVBERi0xLjQKJeLjz9MKCjEgMCBvYmoKPDwvVHlwZSAvQ2F....."
  },
]
```

Error Response

```
{ "error": "Authentication failed" }
```

Maximum number of GetRegister calls per day

There exists a maximum on the amount of GetRegister calls a user can execute per day. This maximum is now set on 20000 calls per day.

Whenever you reach this limit with your API user, the **response** will be:

```
{
  "error": "Maximum number of calls reached for today"
}
```

Using GetRegister to retrieve information from other environments within Explainsafe

There is a possibility built in the API to connect the API user onto other environments with which it becomes possible to retrieve exam information from candidates that are present in the company from which you authenticate with the API.

So for example, if you are a company with an API user but your candidates also need to pass their Vattenfall or TenneT modules alongside the GPI we can connect your API user to these environments to make it possible to request this data (only for your own candidates) with the same API GetRegister call.

Or we can configure the API user to be connected to GPI if you're a company using this API and interested in also being able to request the GPI public register data.

If you are interested in this integration, contact us!

4. RequestExam

The RequestExam request is used to request an exam for a candidate and create the candidate simultaneously in case of a new candidate. You will retrieve a unique url (exam_url) that can be used by the candidate to authenticate with Explainsafe and start the exam. A unique candidate key that can be used to obtain the results of the candidate. An unique exam key that can be used to obtain the result of that exam.

Personal data sent to the API is validated to contain no special characters except for “-.’ ” to allow for certain names that might use these characters.

We also use a max character limit constraint on the personal data:

- Initials: max 20 characters
- Firstname: max 30 characters
- Lastname: max 40 characters
- Insertion: max 15 characters

URL

/api/sector/RequestExam

Method

POST

URL parameters

None

Data Parameters

Parameter	Required	Type	Description
user_key	Y	String	Your userkey (provided by explain)
relation_key	Y	String	Your relationkey (provided by explain)
modulekey	Y	String	ID of the exam (provided by GetExams request)
initials	Y	String	Initials of the candidate
firstname	Y	String	First name of the candidate
lastname	Y	String	Last name of the candidate
date_of_birth	Y	Date	Date of birth of the candidate (DD-MM-YYYY)
email	Y	String	Email of the candidate
insertion	N	String	Insertions of the candidate

Sample request

URL: <https://www.explainsafe.nl/api/sector/RequestExam>

Request

```
{
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfzld8cxzjbc3",
  "relation_key":
  "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "modulekey": "12345abcde",
  "initials": "H.D.",
  "firstname": "Harry",
  "lastname": "Wild",
  "insertion": "van",
  "date_of_birth": "01-01-2000",
  "email": "sample@email.com"
}
```

Success Response

<https://www.explainsafe.nl/nl/modules/5d9c9ff5c981c1aa4f79456aeecb32df8ca3af0f1b161af916bce16f5e281ae5/start-exam/6ff75fc1109f3bb1eb13f96b39c99c564097c20d3b05ab9f38a380db4aae8d9d>

```
{
  "exam_url": "https://example.explainsafe.nl/modules/
  9GzH4PNsb6oIcl6fjo7d401CQ6m5fH9OZNMnnB0XxQDvjFf4dsUgQmN7TrazYPY/start-
  exam/10029bbcbc"
  "candidatekey":
  "9GzH4PNsb6oIcl6fjo7d401CQ6m5fH9OZNMnnB0XxQDvjFf4dsUgQmN7TrazYPY",
  "exam": {
    "examkey":
    "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
    "attempts": 0,
    "total_attempts": 1
  }
}
```

OR

```

{
  "exam_url": "https://example.explainsafe.nl/modules/
9GzH4PNsb6oIcl6fjo7d401CQ6m5fH9OZNMnnB0XxQDvjFf4dsUgQmN7TrazYPY/start-
exam/10029bbc"
  "candidatekey":
"9GzH4PNsb6oIcl6fjo7d401CQ6m5fH9OZNMnnB0XxQDvjFf4dsUgQmN7TrazYPY",
  "exam": {
    "examkey": "
b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
    "attempts": "1",
    "total_attempts": "1"
  },
  "message": "The used email address is already known to a user with an account. The user
must
reset his password in order to login again. The direct login url remains active until the user
resets his password"
}

```

Error Response

```
{ "error": "Email is not valid" }
```

OR

```
{ "error": "Candidate already has this exam" }
```

```
{ "error": "Date of birth is not valid" }
```

OR

```
{ "error": "Authentication failed" }
```

OR

```
{ "error": "Modulekey is invalid/does not exist" }
```

OR

```
{ "error": "Firstname, initials, insertion or lastname has characters that are not allowed" }
```

5. UpdateExam

This method is built for test scenario's and is only available after we've given the API user the correct permissions to use this method.

If you believe you incorrectly miss these permissions, please contact eX:plain to get this configured.

UpdateExam makes it possible to change the results of an exam to Passed (Geslaagd) or Failed (Gezakt) where we also generate a certificate and return a Base64 for the Passed status.

This makes it possible to test the GetResults call without having to ask eX:plain to change results on a newly added exam.

When Passed, we always update the certificate date one year in the future and we always use a 100% score, when failed, we always update the completed date to today with a 60% score and remove any previously filled data if this exam was passed before.

The language used is always 'Nederlands' while updating exams with this method.

URL

/api/sector/update-exam

Method

POST

URL parameters

None

Data parameters

Parameter	Required	Type	Description
relation_key	Y	String	Your relationkey (provided by explain)
user_key	Y	String	Your userkey (provided by explain)
exam_status	Y	String	Status to change the exam to. Use '1' or 'Geslaagd' for Passed. Use '0' or 'Gezakt' for failed
exam_key	Y	String	Your examkey (provided By RequestExam)

1. Sample request for updating to passed using the exam key

URL: <https://www.explainsafe.nl/api/sector/update-exam>

Request

```
{
  "relation_key":
  "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key":
  "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzflzld8cxzjbc3",
  "exam_status": "1",
  "exam_key":
  "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"
}
```

Success Response

```
[
  {
    "candidate_info": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "date_of_birth": "01-01-2000",
      "email": "sample@email.com"
    },
    "exam":
    [
      {
        "exam_key":
        "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
        "name": "B&U",
        "graduation_date": "30-05-2023",
        "certificate_expire_date": "30-05-2024",
        "language": "Nederlands",
        "graduated": "true",
        "status": "Geslaagd",
        "number_attempts": "1",
        "certificate_number": "123456789",
        "certificate": "[base64 string]"
      }
    ]
  }
]
```

Error Response

```
{ "error": "Authentication failed" }
```

OR

{ "error": "Authentication denied - no test API user permissions" }

OR

{ "error": " Exam not found because there was no valid exam_key given" }

OR

{ "error": "Denied - API user is not connected to the relation_key given" }

OR

{ "error": " Invalid exam_status given - no update could be done" }

2. Sample request for updating to failed using the exam key

URL: <https://www.explainsafe.nl/api/sector/update-exam>

Request

{

```
    "relation_key":
"tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
    "user_key":
"yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfzld8cxzjbc3",
    "exam_status": "0",
    "exam_key":
"b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"
}
```

Success Response

```
[
  {
    "candidate_info": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "date_of_birth": "01-01-2000",
      "email": "sample@email.com"
    },
    "exam":
    [
      {
        "exam_key":
        "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
        "name": "B&U",
        "graduation_date": "",
        "certificate_expire_date": "",
        "language": "Nederlands",
        "graduated": "false",
        "status": "Gezakt",
        "number_attempts": "1",
        "certificate_number": "123456789",
        "certificate": ""
      }
    ]
  }
]
```

Error Response

```
{ "error": "Authentication failed" }
```

OR

```
{ "error": "Authentication denied - no test API user permissions" }
```

OR

{ "error": " Exam not found because there was no valid exam_key given" }

OR

{ "error": "Denied - API user is not connected to the relation_key given" }

OR

{ "error": " Invalid exam_status given - no update could be done" }

6. RemoveCandidate

This method is built for test scenario's and is only available after we've given the API user the correct permissions to use this method.

If you believe you incorrectly miss these permissions, please contact eX:plain to get this configured.

RemoveCandidate makes it possible to remove exam(s) from a candidate or remove exam(s) and the candidate.

URL

/api/sector/RemoveCandidate

Method

POST

URL parameters

None

Data parameters

Parameter	Required	Type	Description
relation_key	Y	String	Your relation_key (provided by explain)
user_key	Y	String	Your user_key (provided by explain)
candidate_key	Y	String	Your candidate_key (provided By RequestExam)
full-delete	Y	String	Status to change the call. Use '1' to remove exam(s) and candidate Use '0' to remove exam(s)

Or

Parameter	Required	Type	Description
relation_key	Y	String	Your relation_key (provided by explain)
user_key	Y	String	Your user_key (provided by explain)
email	Y	String	Email of the candidate
full-delete	Y	String	Status to change the call. Use '1' to remove exam(s) and candidate Use '0' to remove exam(s)

1. Sample request for full-delete 0 with candidatekey

URL: <https://www.explainsafe.nl/api/sector/RemoveCandidate>

Request

```
{
  "relation_key": " tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q ",
  "user_key": " yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfld8cxzjbc3",
  "candidate_key":
  "28e8dd59b9c71530818d598818589751ca23c5dceeb456eedd9b88a71ca8e943",
  "full-delete": "0"
}
```

Success Response

```
{
  "full-delete": "false"
},
"candidate_info": [
  {
    "firstname": " Remove",
    "lastname": " Candidate",
    "email": " sample@email.com"
  }
]
```

1 exams succesfully removed from user sample@email.com

Error Response

{ "error": "Authentication failed" }

OR

{ "error": "Authentication denied - no test API user permissions" }

OR

{ "error": "error": "candidate not present" }

OR

{ "error": "error" "full-delete not present" }

OR

{ "error": "Denied - API user is not connected to the relation_key given" }

2. Sample request for full-delete 0 with email

URL: <https://www.explainsafe.nl/api/sector/RemoveCandidate>

Request

```
{  
  "relation_key": "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",  
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfld8cxzjbc3",  
  "email": "sample@email.com",  
  "full-delete": "0"  
}
```

Success Response

```
{  
  "full-delete": "false"  
},  
"candidate_info": [  
  {  
    "firstname": "Remove",  
    "lastname": "Candidate",  
    "email": "sample@email.com"  
  }  
]
```

1 exams succesfully removed from user sample@email.com

Error Response

{ "error": "Authentication failed" }

OR

{ "error": "Authentication denied - no test API user permissions" }

OR

{ "error": "error": "candidate not present" }

OR

{ "error": "error" "full-delete not present" }

OR

{ "error": "Denied - API user is not connected to the relation_key given" }

3. Sample request for full-delete 1 with candidatekey

URL: <https://www.explainsafe.nl/api/sector/RemoveCandidate>

Request

```
{  
  "relation_key": "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",  
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",  
  "candidate_key":  
  "28e8dd59b9c71530818d598818589751ca23c5dceeb456eedd9b88a71ca8e943",  
  "full-delete": "1"  
  
}
```

Success Response

```
{  
  "full-delete": "true"  
},  
"candidate_info": [  
  {  
    "firstname": "Remove",  
    "lastname": "Candidate",  
    "email": "sample@email.com"  
  }  
]
```

User sample@email.com with 1 exams succesfully removed

Error Response

{ "error": "Authentication failed" }

OR

{ "error": "Authentication denied - no test API user permissions" }

OR

{ "error": "error": "candidate not present" }

OR

{ "error": "error" "full-delete not present" }

OR

{ "error": "Denied - API user is not connected to the relation_key given" }

3. Sample request for full-delete 1 with email

URL: <https://www.explainsafe.nl/api/sector/RemoveCandidate>

Request

```
{  
  "relation_key": "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",  
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfld8cxzjbc3",  
  "email": "sample@email.com",  
  "full-delete": "1"  
}
```

Success Response

```
{  
  "full-delete": "true"  
},  
"candidate_info": [  
  {  
    "firstname": "Remove",  
    "lastname": "Candidate",  
    "email": "sample@email.com"  
  }  
]
```

User sample@email.com with 1 exams succesfully removed

Error Response

{ "error": "Authentication failed" }

OR

{ "error": "Authentication denied - no test API user permissions" }

OR

{ "error": "error": "candidate not present" }

OR

{ "error": "error" "full-delete not present" }

OR

{ "error": "Denied - API user is not connected to the relation_key given" }