

Augmented Cash API interface guide

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Overview

Sidetrade offers client applications the ability to issue authenticated requests to our APIs on behalf of the client application itself (as opposed to on behalf of a specific enduser).

The authorization server's implementation is based on the Client Credentials Grant flow of the OAuth 2.0 specification.

The official language of the APIs is English (including this documentation and all other objects/properties).

Invoices Status Updates API for Sidetrade Augmented Cash

The Invoices status Update API is a public endpoint that you can integrate in your own applications to update the status of invoices from any sources and automatically trigger the associated automated actions.

Thanks to the API, Sidetrade users do not lose time to manually reflecting some changes and can be more reactive to manage dispute resolution, to follow payment received or promised, or to be informed of any update, as all changes reported are visible on the same day.

How it works

Follow the described process to make authenticated API calls.

- Authentication: Get Client ID and Client Secret and use them to generate an Access Token
- Make REST API Requests

Authentication

Step 1: Get Client ID and Client Secret

Each application is assigned a unique Client ID (also known as Consumer key or API key) and Client Secret. Make note of these values as they have to be integrated into the configuration files or the actual code of your application.

Please contact Sidetrade Customer Care to get your Client ID and Client Secret.

A Your *Client Secret* protects your application's security so be sure to keep it secure! Do not share your *Client Secret* value with anyone, including posting it in support forums for help with your application.

Step 2: Generate an Access Token

To generate an access token, issue a HTTP POST against **accessToken** with both your Client ID and Client Secret values.

Resource URL

https://login.sidetrade.net/connect/token

Resource Information

Response formats	
Requires authentication?	No
Rate limited?	No

Parameters

Parameter Name	Description	Required
grant_type	The value of this field should always be client_credentials.	Yes
client_id	The Client ID value generated by the Customer Care.	Yes
client_secret	The Client Secret value generated by the Customer Care.	Yes

Sample Request

```
POST https://login.sidetrade.net/connect/token HTTP/1.1

Host: www.sidetrade.net

Content-Type: application/x-www-form-urlencoded

Cache-Control: no-cache

grant_type=client_credentials&client_id={your_client_id}&client_secret={your_client_secret}
```

Sample Response

expires_in value in seconds

Possible error messages

"error": "invalid_client": Check if your client id and client secret are filled
correctly.

This message will also show up when the client_secret contains invalid URL characters such as the + (plus) sign. For example,

"CzbYUTS/AGiysc59cpljoiMTk2RUJf2Ba23+bTv6knV2tgz=" will trigger the error."

```
C:\Users\kkiiza>curl -X POST "https://cloud-ptf4-web-oauth.sidetrade.com/connect/token" -H "Content-Type: application/x-www-form-urlencoded" -d "grant_type=client_credentials&client_id=84b6efb1-2ad1-4e2e-9750-dfb672e304b6&client_secret=nupCzbYUTS/AGiysc59cpIjoiMTk2RUJf2Ba23+bTv6knV2tgz="
{"error":"invalid_client"}
C:\Users\kkiiza>
```

"error": "unsupported_grant_type": Check if the grant_type is client_credentials

Make REST API Requests

Once you've received an access token, you can make API requests by including an Authorization header with your token in the HTTP call to Sidetrade's API.

Augmented cash collection API provide 3 endpoints:

1. Bulk Update status

Qualify a list of invoices and return the ID of the created qualification task.

⚠ The functional rules for this update are strictly identical as from Sidetrade Augmented Cash platform. So only items that can be qualified from the platform are eligible to this update. It means they have to respect the below conditions to not be rejected:

- Item is still open (Remainder != 0)
- Item type is Credit Note (AVO) or Invoice (FAC)
- Item is set as "collectable" in the daily import

2. Get task status

Get the invoice qualification task status.

3. Get task status with details

Get the invoice qualification task details.

1. Bulk Update status

Resource URL

https://api.sidetrade.net/collection

Resource Information

Response formats	JSON
Requires authentication	YES
Rate limited	YES : One call per second

Sample Request

```
POST v1/invoices/status/bulk HTTP/1.1
Host: api.sidetrade.net
Connection: Keep-Alive
Cache-Control: no-cache
Content-Type: application/json
Authorization: Bearer {access token}
Body:
[
  {
          "InvoiceNumber": "1822222222",
          "CompanyCode": "123333",
          "Substatus": "DLPP",
          "PaymentDate": "2022-03-15",
          "Comment": "paid on time",
          "ResolverCode": ""
  },
          "InvoiceNumber": "43434343443",
          "CompanyCode": "8787878",
```

```
"Substatus": "DLPP",

"PaymentDate": "2022-03-15",

"Comment": "paid on time",

"ResolverCode": ""
}
```

Sample Response

You can use this value to get the task status or task details in the next GET end points.

```
653
```

Having this value returned in the response only means that the task to qualify the invoices has been created. You need to make the get task status or get task details request to confirm whether the qualification is successful or not.

Body Properties

Parameter Name	Description	Type	Required
invoiceNumber	Functional invoice number of the invoice.	string	YES
substatus	sub status code*	string	YES
comment	Comment about the qualification	string	NO
paymentDate	Promise of Payment Date	string ISO 8601	Yes if the sub status is a type of Promise of payment
companyCode	Functional code of the company	string	YES
resolverCode	Resolver code in the case of the Litigation**	string	YES if the sub status is a type of Litigation

⚠ If some items (invoices and/or credit note) are updated with the exact same information: same sub-status code, same comment, same payment date, same company code, same resolver code, they are managed together.

It means that if a automated actions is set to be triggered for this sub-status, only one action will be triggered for the group of items.

If at least one information is different between 2 items, 2 separate actions will be triggered and visible in the collector to-do-list.

Where to find the sub-status and the resolver code?

To get the list of sub status code please connect to the platform with an administrator profile and access to the **Settings/Administration/Items: Status** section.

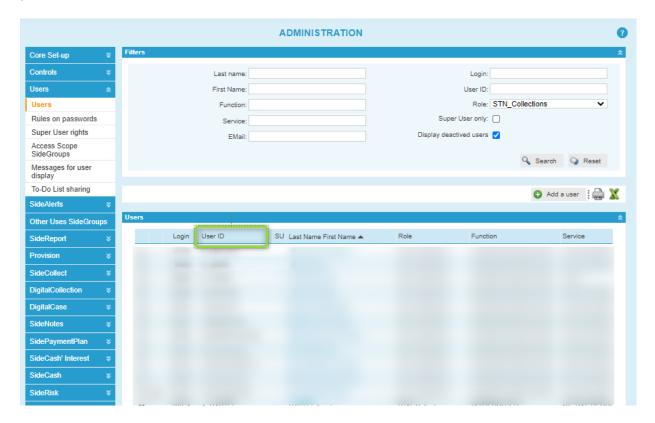
From there you can export the sub-status list and get the mapping between the substatus code and the functional label in any user language:



The resolver code is usually the employee ID used in your company.

In order to get your Resolver code, please connect to the platform with an administrator profile and access to the **Settings/Users/Users** section.

From there you can export the list of users and get User ID set for each user in the platform:



2. Get task status

Resource URL

https://api.sidetrade.net/collection

Resource Information

Response formats	JSON
Requires authentication?	YES
Rate limited?	YES : One call per second

Parameters

Parameter Name	Description	Required
Task id	The id of the task created by bulk update endpoint	Yes

Sample Request

GET v1/invoices/task/{taskid} HTTP/1.1

Host: api.sidetrade.net Connection: Keep-Alive Cache-Control: no-cache

Content-Type: application/json

Authorization: Bearer {access_token}

Sample Response

Succeeded

Status	Description
Queued	The task is queued, waiting for the previous one to be completed
In progress	The task is still in progress
Partially successful	The task has been completed, but errors have been found and at least one row has been rejected. Note that even if some errors have been found for all the rows, it will be partially successful, once the API was able to read the data that were sent and analyze what the issue is for each of them.
	The reason of the error can be obtain through the <i>get task status with details</i> end point
	For a quick correction, it is also possible to access to the platform, to the Status import section, download the csv file that contains the row in errors and the error description. It is then possible to correct it and manually re-import the file.
Failed	The update is totally failed due to a technical error, the API was not able to read the data.
	The reason of the error can be obtain through the get task status with details end point
Successful	The update is totally successful. All items have been updated as expected

3. Get task status with details

Resource URL

https://api.sidetrade.net/collection

Resource Information

Response formats	JSON
Requires authentication?	YES
Rate limited	YES : One call per second

Parameters

Parameter Name	Description	Required
Task id	The id of the task created by bulk update endpoint	Yes

Sample Request

GET v1/invoices/task/{taskid}/details HTTP/1.1

Host: api.sidetrade.net Connection: Keep-Alive Cache-Control: no-cache

Content-Type: application/json

Authorization: Bearer {access token}

Sample Response

```
"taskId": 653,
    "status": "Succeeded",
    "startDate": "2021-02-11T10:37:48.2685050",
    "endDate": "2021-02-11T10:44:53.1633030",
    "message": "",
    "totalInvoices": 2,
    "processedInvoices": 2,
    "invoices": [
        {
            "taskId": 613,
            "invoiceNumber": "R82CCC85XXX",
            "substatus": "DLPP",
            "comment": "paid on time",
            "paymentDate": "2022-03-15",
            "companyCode": "1232567",
            "companyName": "MyComapny",
            "status": "Succeeded",
            "errors": []
        } ,
        {
            "taskId": 653,
            "invoiceNumber": "H82BBB224YYY",
            "substatus": "DLPP",
            "comment": "promised to pay",
            "paymentDate": "2022-03-15",
            "companyCode": "1232567",
            "companyName": "MyCompany",
            "status": "Succeeded",
            "errors": []
        }
    1
}
```

Response Properties

Task

Task is an element created when you call the Bulk update end point.

Parameter Name	Description
taskld	Id of the task
status	Partially successful
	Queued
	Failed
	Successful
startDate	Start date and time of the task <u>ISO 8601</u>
endDate	End date and time of the task <u>ISO 8601</u>
message*(listed below)	Filled if the status is Failedor PartiallySucceeded
totalInvoices	Total number of invoices in the task
processedInvoices	Number of successfully updated invoices
invoices	List of invoices in the task (Detailed below)

Invoice

Parameter Name	Description
taskId	Task Id
invoiceNumber	Functional item number
substatus	sub status code
comment	Comment about the qualification
paymentDate	Promise of Payment Date <u>ISO 8601</u>
companyCode	Functional code of the company
companyName	Company Name

status	Update result status of the invoice : Failed or Succeeded
errors*(listed below)	List of error messages

*Possible Functional Errors or messages :

The item has not been found on this company or its update is not allowed. The stat us can only be updated for open invoices and credit notes that have been set as coll ectable on the daily import.

Company code, invoice number and Sub status are mandatory fields

The sub status code does not exist.

The payment date is mandatory for a promise of payment qualification.

The payment date format is incorrect. Be sure to choose a format that matches your file format when importing the data.

The payment date can not be in the past.

The dispute resolver internal code does not exist.

Several open items with the same number have been found on the company. Only manual qualification is allowed in this situation.

The invoice status has not been updated due to a technical error. Please update the item manually and contact the Sidetrade Support Team.

Responses Codes

Sidetrade API uses standard HTTP response codes.

Successful execution

200: Successful request and response.

Error Handling

There are two status code ranges you can expect:

- 4xx error status codes indicate an error due to a problem on the client's part because of the information provided (e.g., invalid input)
- 5xx error status codes indicate an error due to a problem in the server side.

Ex: 404 Not Found for the end point /collection/v1/invoices/task/{taskID}/details if the data are not found for the given task ID

Invalid Tokens

If you make an API call using an invalid token, you'll receive a 401 Unauthorized response from the server. In this case, the token may need to be regenerated because it expired or was revoked.

These are not the only reasons for an invalid token. Make sure your applications are coded to properly handle a 401 Unauthorized error.

Integration into Sidetrade

All updates done via the API are visible in the Status Import screen with their current status. If your data is partially successful a csv file that contains the items that have been rejected can be downloaded in order to be manually corrected, then re-imported.

It is possible from the platform to set a notification email address in order to receive a confirmation email each time an update via the API is done, with the corresponding status (Successful, Partially Successful or Failed)

An important point in terms of integration is to make sure these updates via API fit with your business process. So we recommend to verify with the platform administrator that all automated actions are well set as expected.

Status Import screen

By default, this feature can be access only by administrator and Credit Manager. It allow you to test it and decide how you want to organize the deployment with your teams.

It is then possible to request its deactivation for a role, or its activation for collectors and/or sales managers profiles, by contacting your Sidetrade main contact.

From that screen that you can access via the **Collections/Actions/Status import** menu, you will find, in addition of the import manually handled by users, the updates done via API.

Each line contains:

- The import date
- The source (it can be an external source using the API or a csv file for manual import)
- The Author (Sidetrade Engine for import done using the API)
- The number of rows imported on the total number of rows that were expected to be imported. This information is only displayed for **successful** or **partially successful** imports
- The status (queued, in progress, successful, partially successful or failed)
- The link to the csv that contains the rows in errors and the reason of the error. This file is available only when the import is **partially successful**

How to correct a file in a partially successful status from the status import screen?

In case you have at least one row in error, it is possible to manually handle it from this page. You will find a link to download a csv when you import has been partially successful.

This csv contains only the rows that have been rejected with the reason of the error. From this file you can:

- 1. Correct the errors
- 2. Delete the "reason of the error" column
- 3. Manually import the file from the import wizard

Administrator - How to prepare the activation of the feature

Step 1 - Define the list of sub-status to be used

The administrator can define the list of sub-status he wants to use for the import from the **Settings/Core set-up/Items: Status** section.

From this section, the administrator has two options:

- 1. Identify the list of sub-status code he wants to use and make sure they are the ones that will be sent to the API
- 2. Create new sub-status specific to the import via API, with a code that matches the one sent to the API and a label explicit for the end-user.



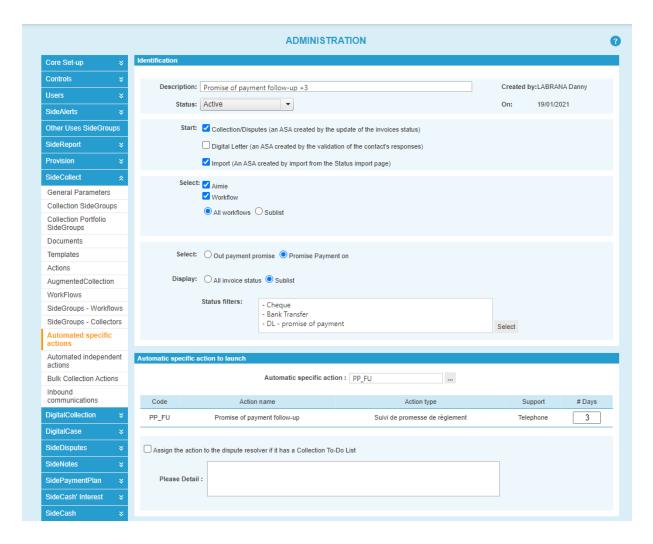
⚠ When creating the sub-status, you have to indicate if it can be used to qualify items from the platform and/or from a Digital letter. If none of these 2 options are selected, the sub-status will only be available for the items status import.

Step 2 - Set the automated actions

To fit with your business processes, you will probably have to set some specific actions to be triggered on the collector or on the dispute resolver to-do-list depending on the imported sub-status.

You have the option to set:

- **Automated specific Actions** that will exclude the invoice(s) from the workflow. It means the invoice(s) can't be the leading invoice anymore and won't trigger any workflow or Aimie actions as the action is not completed or cancelled. They are set from the **Settings/Sidecollect/ Automated Specific Actions** section.
- Automated independent actions that will not exclude the invoice(s) from the
 workflow. It means the invoice(s) can still be the leading invoice and trigger some
 workflow or Aimie actions even if the action is not completed or cancelled. They
 are set from the Settings/Sidecollect/ Automated Independent Actions
 section.



From these 2 sections, it's possible to:

- Use an already existing automated action set for update via the company page or via the Digital Letter, to follow the same process if the status is updated via import
- Create a new automated action, specific to import, that will start only if the qualification is done via the import

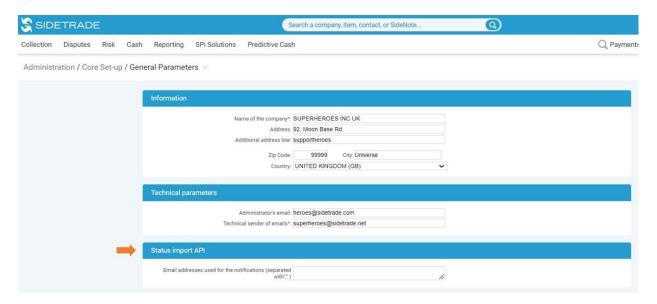
Actions will be triggered by default in the company's collector to-do-list, except if you indicate for and automated specific actions, that it has to be assigned to the dispute resolver, if a dispute resolver has been defined in the import and he has a collection to-do-list.

Step 3 - Set the notification emails

From this section, you can define who should receive a notification email for a status update via API, and for which status you want to receive this notification (Success, Failed and/or Partially success)

This can be modified at any time.

To do this setting, please connect to the platform with an administrator profile and access to the **Settings/Core set-up/General Parameters** section.



Only one email address can be used for the notification, so if several persons need to be notified, we invite you to use a group email address.

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