SmartAccounts API

Version	Date	Comment
1	30.11.2017	First version
1.1	06.09.2018	New method on client invoices and a few typo fixes
1.2	03.03.2021	Updated with additions to different services and provided an
		example request to create an invoice
1.3	01.06.2021	Added SendEinvoice to ClientInvoices
1.4	16.12.2022	Added some services for payroll
1.5	09.03.2023	Added a few details to vatpcs endpoint
1.6	27.03.2023	Corrected a few typos and added support for
		LEDGER_ENTRY type documents in files endpoint

SmartAccounts API is in essence a RESTful JSON (not all the principles of REST are implemented 100%) communications channel between external applications and SmartAccounts. It can be used to synchronize data from external applications (for example e-commerce platform to SmartAccounts) or to query data from SmartAccounts for better reporting.

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General principles

Depending on the data synchronization principles the API services are divided into two groups:

- 1. Data for which changes cannot be queried;
- 2. Data for which changes can be queried.

We'll cover these two options in more detail below.

Data for which changes cannot be queried

If the API service is of this type, the external application using SmartAccounts API cannot ask for changes in the data after date dd.MM.yyyy and GET method can only query the list of objects in the system. This means that to sync data between the systems the API client must get the list of objects from SmartAccounts and look for changes between its local state.

This type of service is typically implemented for objects which do not change often: currencies, countries, document templates etc.

Data for which changes can be queried

This type of service is implemented for data which changes often: client invoices, purchase invoices, clients etc. These services allow the API client to GET only objects which have been added, updated or deleted after the last sync with the external system with second precision (dd.MM.yyyy HH:mm:ss).

In order to take advantage of this logic the external system must save the date of last sync and for changes after that time. Of course, you can also sync data by local list vs remote list method described above but that would be impractical.

Pagination

The responses to GET methods of these services are paginated. One page currently consists of 100 objects (this might change, and your implementation must not rely on this) and if the filtering parameters match more objects than that your implementation must ask for the invoices again with a new pageNumber (1,2,3 etc). For example, to sync changes for sales invoices after the last sync you should make requests to our GET method until the response JSON contains a parameter value hasMoreEntries = false.

Deleted objects

For this type of data sync the external system needs to know which invoices have been deleted after the last sync was made. The API has a solution for this as well.

So, let's ask for changes in client invoices with these parameters:

- dateFrom = 01.01.2018
- dateType = modifydate
- pageNumber = 1 (or empty, 1 is default)

When the pageNumber is set to 1 or is empty the resulting JSON will contain a JSONArray with the name of "deleted" which contains the list of objects deleted after the last sync. So, in order to remove the same invoices from your system you need to go through the list and remove the invoices from your local system with SmartAccounts id in the deleted list.

Security

SmartAccounts uses the following measures to secure the requests:

- Stale requests requests with a time difference more than 15 minutes are ignored as stale.
 Important! You must send requests with Estonian timezone!
- 2. Signatures all the requests must be signed by the external application with a secret key.
- 3. Request limits for 1h and 24h.
- 4. Privileges and rights. By default, the API user group is created with privileges to access every function available. It is strongly recommended to narrow down the scope of access of the API user group under Settings User groups to allow access to only those functions needed by the external application.

Every API request must contain the following parameters in the URL section:

Parameter	Data type	Description
timestamp	String	A timestamp with the date and time of the request. Format:
		ddMMyyyyHHmmss
apikey	String	The public API key of the company account
signature	String	Signature of the whole request – see "Signing the request"

Request limits

SmartAccounts only processes:

- 1000 requests per 24 hours.
- 60 requests per minute.

Requests exceeding these limits will get the response code of 503.

Response codes and validation

Code	Meaning	Description
200	OK	
400	Bad request	There is something wrong with the request itself. The most likely reason is that something which is not allowed to be null is null.
401	Unauthorised	The signature is missing or is not correct
500	Internal error	There was an internal error while processing the request. If the error persists, please contact SmartAccounts.
503	Rate Limit Exceeded	See the request limits section of this document.
503	Service unavailable (billing error)	You have a billing issue with SmartAccounts.

Signing the request

To verify the origin of the request (the originator must know the secret API key) a signature is calculated and passed as a URL parameter to SmartAccounts. The signature is calculated with **HMAC-SHA-256** algorithm and then converted to **HEX**.

- If you're signing a GET request (only URL parameters are provided) include only the URL parameters as the input to the signature calculation.
- If you're signing a request with a body part as well, include that as well (IMPORTANT! No space or line change in between!).
- Do not include SmartAccounts server URL in the signature calculation.

To sign a request:

- 1. First compile the request URL up to the last parameter (which must obviously be "signature") and BODY.
 - a. URL

If the URL of the request was:

https://sa.smartaccounts.eu/api/articles/getarticleswarehousequantities:run?codes=

<u>kood1%2Ckood2%2Ckood3×tamp=14022013133802&apikey=a066f7de604245</u> <u>8da916</u>

Only the following part is used as signature calculation: codes=kood1%2Ckood2%2Ckood3×tamp=14022013133802&apikey=a066f7de 6042458da916

- b. BODY
 If the request also includes a body part it must immediately follow the URL part with no spaces or any other characters in between.
- 2. 1.a + 1.b (optionally) is the input to the signature calculation algorithm. So now calculate the hash with your secret key and convert it to HEX value.

We've also included a calculator in SmartAccounts GUI to check if your signature is correct for the request. Please have a look at: Settings -> Connected services.

Add / edit request validation

The validation of the requests is done in two separate stages:

- 1. **Very basic validation** for example, if a required field is null. The request will fail as soon as one of these basic validation rules is not met and SmartAccounts will not process the request any further. The response body JSON gives you more details on this so you can correct the issue and try again.
- 2. **Complex validation** the request is trying to add an invoice to a period which is marked as locked by the users. Basic validation is passed but this complex validation is not. The request will fail with the same error code but this time the response error JSON will contain the list of all the rules which must be met to pass validation rules.

If validation fails, the resulting JSON contains error keys which can be used systematically and a more human readable message as well. The messages for basic validation are currently only in English and you can choose which language is used to return complex validation messages via the URL of the API call:

- Use sa.smartaccounts.eu/et/api for Estonian messages.
- Use sa.smartaccounts.eu/en/api for English messages.

Other useful notes

These notes might come in handy when dealing with SmartAccounts API:

- All the API services reside at https://sa.smartaccounts.eu/api/...
- The decimal places are separated by a full stop. For example, the correct decimal for one hundred euros and two cents is 100.02
- Use URL encoding to send more complex values to SmartAccounts server. For example, if the request accepts a comma separated list of values as URL parameter it must be urlencoded first: codes=kood1%2Ckood2%2Ckood3.
- Design your application to respect the request limits of SmartAccounts. Is it absolutely necessary to sync warehouse stock every 15 minutes?

- Design your application to handle failed requests as well. For example, your requests will fail
 when you've forgot to pay your bill and it'd be very bad for your main business processes to
 fail for this simple reason. It's a good practice not to tie your main business processes with an
 external system so when the system is down, or requests fail for any other reason your world
 stops as well.
- Troubleshooting! The response code is only a small part of the feedback you need to
 modify the request. Read the response body part as well. It gives you more information
 about the reason why the request failed.
- POST body encoding must be UTF-8!
- Implement your API client side with a test environment first. Please ask SmartAccounts support for help on this issue. If your implementation makes changes to live accounting data, they cannot be rolled back.
- Edit requests must contain all the changed fields not just changes to post the change to one data field only you must pass the whole object to SmartAccounts.
- The "uniqueness" of the objects in SmartAccounts is provided via the following parameters (in order of importance):
 - o Id used for invoices for example.
 - Code used for articles for example.
 - Name used

One of these parameters must exist for every object.

Example request

The following request is a simple example of how to create a sales invoice in SmartAccounts. Only the basic parameters needed to make the request are included so you might need to modify it according to your own needs.

Request type: POST

Request URL:

 $https://sa.smartaccounts.eu/api/purchasesales/clientinvoices: add?timestamp=03032021090000\&apikey=< your_api_key> \& signature=< generated_signature>$

Request body:

API services

General – Files

The current size limit for files to be uploaded is approximately 10MB.

SERVICE TYPE: Data for which changes cannot be queried

URL: /api/general/files:<methodname>

Available methods
get - get the list of files for one specific document
getDetails - get the details (including content) of one specific file
add
delete

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docType	Document type to ask files for. Possible values are: CLIENT_INVOICE, CLIENT, VENDOR, VENDOR_INVOICE, ARTICLE, CLIENT_OFFER, CLIENT_ORDER, LEDGER_ENTRY
docId	Document id
GETDETAILS: possible input parameters	
docType	Document type to ask files for. Possible values are: CLIENT_INVOICE, CLIENT, VENDOR, VENDOR_INVOICE, ARTICLE, CLIENT_OFFER, CLIENT_ORDER, LEDGER_ENTRY
docId	Document id
fileId	File to fetch details for

GET / ADD - data fields					
	get	.det	add	datatype	description
docId				String	Document id to which this file belongs to
docType				String	Document type to which this file belongs to
fileId					Unique id for this file
fileName					Filename
description					Additional description
mimeType					Mime type for the file. If not provided for the add request the calculated mime type will be returned in the response body.
fileContent					Content - BASE64 encoded string
LEGEND					mandatory
					optional

ADD / EDIT: return value				
fileId	Unique id for this object			
fileName	Filename			
description	Additional description			
docld	Document id to which this file belongs to			
docType	Document type to which this file belongs to			

DELETE: input parameters			
docId	Document id to which this file belongs to		
docType	Document type to which this file belongs to		
fileId	Unique id for this file		

Additional methods							

General - Entries

The add/edit services allow adding entries in EUR and in foreign currencies as well. The default use case would be to enter general ledger entries in EUR. As the differences between the two requests might go unnoticed in the table below, we'll provide a few explanatory notes as well.

Add/edit request for EUR

- currency = "EUR" (or leave blank if you wish)
- exchangeRate is not needed
- provide values for rows in parameters "debitAmount" and "creditAmount"

Add/edit request for other currencies

- currency = needed_currency. The currency must exist in SmartAccounts. You can get a list of
 possible currencies if you log in to SmartAccounts and follow the link from the left side of
 your front page.
- exchangeRate is not needed if your account uses ECB exchange rates (default behaviour) otherwise you need to provide a value here.
- provide values for rows in parameters "debitAmount OriginalCurrency" and "creditAmountOriginalCurrency" (parameters "debitAmount" and "creditAmount" are ignored).

SERVICE TYPE: Data with change history

URL: /api/general/entries:<methodname>

Available methods	
get	
get add edit	
edit	
delete	
getpdf	

GET: possible input parameters	
dateFrom	Filter objects by date
dateTo	Filter objects by date
dateType	Sets which dates are used in filtering. Possible values: empty, date - filter by entry date modifydate - added / modified date
filterDescription	Filter by document number or row description
id	Search for a specific entry

docType	Filter by entry type. Possible values are: LEDGER_ENTRY - manual ledger entry CLIENT_INVOICE VENDOR_INVOICE BANK_PAYMENT CASH_PAYMENT VAT_RETURN WAREHOUSE_MOVEMENT PERIOD_DEPRECIATION PERIOD_SALARY
paymentStatus	Filter by payment status. Possible values are: emtpy - filter not applied unpaid - unpaid invoices overdue - unpaid and overdue invoices
pageNumber	Page number
fetchRows	Return the invoice rows as well
fetchDocuments	Retrun the list of uploaded documents
fetchComments	Return internal information comments

GET / ADD / EDIT - data fields					
	get	add	edit	datatype	description
id				String	Unique identifier
docType				String	General ledger entry type. Only manual ledger entries can be added but all entries can be edited.
date				Date	Date
document				Date	Textfield for document number
currency				String	Default is EUR if not provided as an input parameter for add/edit. If currency != EUR you must provide "exchangeRate" as well if you are not using Exchange rates from the ECB (the default is enabled).
number				String	Document number in accounting.
amount				Decimal	Debit and credit sum amount. Cannot be passed to add or edit requests
comment				String	Internal information
documents				JSONArr	JSONArray of uploaded documents
fileName				String	
description				String	
rows					JSONArray of entry rows
account				String	Row account
description				String	

debitAmount		Decimal	Defaults to 0.00 if missing. If currency != EUR the parameter is ignored in add/edit.
creditAmount		Decimal	Defaults to 0.00 if missing. If currency != EUR the parameter is ignored in add/edit.
debitAmountOriginalCurrency		Decimal	Only provide a value here if currency != EUR. Parameter is ignored when currency is EUR.
creditAmountOriginalCurrency		Decimal	Only provide a value here if currency != EUR. Parameter is ignored when currency is EUR.
objectId		String	Row object
LEGEND			mandatory
			optional

ADD / EDIT: return value			
id			Id of the entry
amount			The total amount of the entry
number			Internal number for the entry
docType			LEDGER_ENTRY

DELETE: input parameters		
id		Unique id for this object

Additional methods				
/entries:getpdf	Render a PDF file of the entry. Input			
	parameters are:			
	id - entry id			

Settings – Accounts

SERVICE TYPE: Data for which changes cannot be queried URL: /api/settings/accounts:<methodname>

Available methods
get
add
edit
delete

GET: possible input parameters

None, the service always returns all accounts of the company

GET / ADD / EDIT - data fields							
	get	add	edit	datatype	description		
code				String	The code of the account		
id					A unique identifier for the account generated by SmartAccounts on add request and returned as "accountId" in the response body		
type				String	Account type. Possible values are: ASSET LIABILITY INCOME EXPENSE		
descriptionEt				String	Description: Estonian		
descriptionEn				String	Description: English		
balanceSheetRow				String	Report row code: balance sheet		
incomeStatementRow				String	Report row code: income statement		
cashflowRow				String	Report row code: cashflow		
LEGEND					mandatory		
					optional		

ADD / EDIT: return value	•	
code		The code of the account

DELETE: input parameter	s	
code		The code of the account

Additional methods			

Settings – Bank Accounts

SERVICE TYPE: Data for which changes cannot be queried URL: /api/settings/bankaccounts:<methodname>

Available methods	
get	
add	
edit	
delete	

GET: possible input parameters

GET / ADD / EDIT - data fields							
	get	add	edit	datatype	description		
name				String	The name of the bank account		
account				String	The general ledger account associated with the bank account		
order				String	Display order		
currency				String	Currency		
iban				String	Bank account number		
swift				String	Swift		
forNetting				Boolean	Is this the default account for netting credit invoices and invoices automatically		
showOnInvoice				Boolean	Show this account on invoice PDFs		
otherInvoiceInfo				String	Additional information printed to PDFs		
defaultEInvoiceAccount				Boolean	Is this the default account for e-invoices		
LEGEND					mandatory		
					optional		

ADD / EDIT: return value						
name	The name of the bank account					

DELETE: input parameters						
name			The name of the bank account			

Additional methods			

Settings – Cash Accounts

SERVICE TYPE: Data for which changes cannot be queried URL: /api/settings/cashaccounts:<methodname>

Available methods
get
add
edit
delete

GET: possible input parameters

GET / ADD / EDIT - data fields							
	get	add	edit	datatype	description		
name				String	The name of the cash account		
account				String	The general ledger account associated with the cash account		
order				String	Display order		
currency				String	Currency		
incomingOrderNumber				String	The number set to the next incoming cash order		
outgoingOrderNumber				Boolean	The number set to the next outgoing cash order		
LEGEND					mandatory		
					optional		

ADD / EDIT: return value						
name		The name of the cash account				

DELETE: input paramete	rs	
name		The name of the cash account

Additional methods				

Settings – Countries

SERVICE TYPE: Data for which changes cannot be queried URL: /api/settings/countries:<methodname>

Available methods	
get	
dd	
edit	
lelete	

GET: possible input parameters

GET / ADD / EDIT - data fields							
	get	add	edit	datatype	description		
code				String	The ISO code for the country		
name				String	Name		
nameEn				String	Name in English		
euMember				Boolean	Is the country a member of the EU or not		
systemCountry				Boolean	Read only parameter to distinguish system created countries (modification not possible) from custom countries		
LEGEND					mandatory		
					optional		

ADD / EDIT: return value	
code	The ISO code for the country

DELETE: input paramet	ers	
code		The ISO code for the country

Additional methods			

Settings – Document templates

SERVICE TYPE: Data for which changes cannot be queried

URL: /api/settings/documenttemplates:<methodname>

Available methods

get

GET: possible input parameters

None, the service always returns all objects

GET / ADD / EDIT - data fields						
	get	add	edit	datatype	description	
code				String	Unique code for the template	
name				String	The user readable name for the template	
available				String	Comma separated list of places where the template is used	
LEGEND					mandatory	
					optional	

ADD / EDIT: return value

DELETE: input parameters

Additional methods			

Settings – Groups

SERVICE TYPE: Data for which changes cannot be queried
URL: /api/settings/groups:<methodname>

Available methods	
get	
add	
edit	
delete	

GET: possible input parameters

GET / ADD / EDIT - data fields					
	get	add	edit	datatype	description
name				String	Group name
clients				Boolean	Can be used to group clients
vendors				Boolean	Can be used to group vendors
LEGEND					mandatory
					optional

ADD / EDIT: return value	
name	Group name

DELETE: input parameters						
name	Group name					

Additional methods			

Settings – Objects

SERVICE TYPE: Data for which changes cannot be queried URL: /api/settings/objects:<methodname>

Available methods	
get	
add	
edit	
delete	

GET: possible input parameters

GET / ADD / EDIT - data fields						
	get	add	edit	datatype	description	
id				String	Unique id for this object	
code				String	The code or class of the object	
name				Boolean	The name of the object	
LEGEND					mandatory	
					optional	

ADD / EDIT: return value						
id		Unique id for this object				

DELETE: input parameters						
id	Unique id for this object					

Additional methods			

Settings – Payment methods

SERVICE TYPE: Data for which changes cannot be queried
URL: /api/settings/paymentmethods:<methodname>

Available methods	
get	
add	
edit	
delete	

GET: possible input parameters

GET / ADD / EDIT - data fields							
	get	add	edit	datatype	description		
name				String	Unique name for payment method		
account				String	The code or class of the object		
order				Integer	Display order for the payment method		
isCash				Boolean	Is the payment method for cash payments		
LEGEND					mandatory		
					optional		

ADD / EDIT: return value						
name			Unique name for payment method			

DELETE: input parameters						
name			Unique name for payment method			

Additional methods							

Settings – Report rows

SERVICE TYPE: Data for which changes cannot be queried URL: /api/settings/reportrows:<methodname>

Available methods
get
get add
edit
delete

GET: possible input parameters

GET / ADD / EDIT - data fields								
	get	add	edit	datatype	description			
code				String	Unique code for the report row			
reportType				String	Report type for this report row. Possible values: BALANCE INCOME CASHFLOW			
descriptionEt				String	Estonian description			
descriptionEn				String	English description			
valueType				String	Report row type. Possible values: EMPTY BALANCE FORMULA TURNOVER			
style				String	Apply styling in the report. Possible values: REGULAR INDENT BOLD			
displayCondition				String	When to display this row in the report. Possible values: ALWAYS IFNOTNULL NEVER			
formula				String	Formula for the row if the row has a type of FORMULA			
LEGEND					mandatory			
					optional			

ADD / EDIT: return value						
code					Unique code for the report row	
DELETE: input parameters						
code					Unique code for the report row	
Additional methods						

Settings – Warehouses

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GEI:	possible	Input	parameters

None, the service always returns all objects

GET / ADD / EDIT - data fields								
	get	add	edit	datatype	description			
name				String	Warehouse name			
LEGEND					mandatory			
					optional			

ADD /	/ EDIT:	return	value
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DELETE: input parameters

Additional methods			

Settings – VatPcs

SERVICE TYPE: Data for which changes cannot be queried URL: /api/settings/vatpcs:<methodname>

Available methods	
get	
add	
edit	
delete	

GET: possible input parameters

None, the service always returns all vat percentages

GET / ADD / EDIT - data fields							
	get	add	edit	datatype	description		
vatPc				String	The code of the vat percentage		
рс				Decimal	Percentage (20 is 20% for example)		
descriptionEt				String	Description: Estonian		
descriptionEn				String	Description: English		
descriptionRu				String	Description: Russian		
activePurchase				Boolean	True if the vatpc is active for purchases		
activeSales				Boolean	True if the vatpc is active for sales		
accountPurchase				String	Account code: purchase		
accountSales				String	Account code: sales		
order				String	Order number		
custom				Boolean	Shows if the vat percentage is company specific or in general use		
inUse				Boolean	Shows if the vat pc is in use currently (can be deleted or not). This field is filled with true/false values only for custom = true vat percentages.		
LEGEND					mandatory		
					optional		

ADD / EDIT: return value						
vatPc	The code of the vat percentage					

DELETE: input parameters							
vatPc			The code of the vat percentage to be deleted				

Additional methods

Purchase / Sales – Articles

SERVICE TYPE: Data with change history

URL: /api/purchasesales/articles:<methodname>

Available methods	
get	
add	
edit	
delete	
getwarehousequantities	

GET: possible input parameters						
searchString	Filter articles by code or name					
code	Find specific article by code					
modifiedFrom	Get articles modified after					
modifiedTo	Get articles modified before					
pageNumber	Page number					
fetchDocuments	Fetch the list of uploaded documents					

GET / ADD / EDIT - data fields							
	get	add	edit	datatype	description		
code				String	Unique identifier		
description				String	Description		
type				String	Article type. Possible values are (case sensitive): PRODUCT - product SERVICE - service WH - warehouse item		
unit				String	Unit (kg, t, pc etc)		
vatPc				String	Vat percentage		
activeSales				Boolean	Is article active in sales		
activePurchase				Boolean	Is article active in purchase		
priceSales				Decimal	Sales price		
pricePurchase				Decimal	Purchase price		
priceOwn				Decimal	Own price		
accountSales				String	General ledger account for sales		
accountPurchase				String	General ledger account for purchase		
accountWarehouse				String	General ledger account for warehouse		
dateCreated				Date			

dateUpdated		Date	
createdBy		String	
updatedBy		String	
documents		JSONArr	Uploaded documents
fileName		String	File name
description		String	Description
LEGEND			mandatory
			optional

ADD / EDIT: return value			
code		Unique identifier	

DELETE: input parameters		
code		Unique identifier

Additional methods						
/articles:getwarehousequantities	Get the warehouse quantities of specified articles. Input parameters codes - urlencoded string of comma separated values of max 10 article codes. The default system warehouse is used for the query. The result is a JSONObject with JSONArray "quantities" inside which have the following parameters: code - article code quantity - article quantity in warehouse status - possible values are: OK - warehouse article found NOT-FOUND - article was not found NOT-WH - not a warehouse article					

Purchase / Sales — Clients

SERVICE TYPE: Data with change history

URL: /api/purchasesales/clients:<methodname>

Available methods	
get	
add	
edit	
delete	
getbalance	

GET: possible input parameters				
nameOrRegCode	Filter by name or regcode			
id	Fetch a specific client			
modifiedFrom	Fetch clients modified after			
modifiedTo	Fetch clients modified until			
pageNumber	Page number			
fetchDocuments	Fetch the list of uploaded documents			
fetchComments	Fetch internal comments			
fetchAddresses	Fetch addresses			
fetchContacts	Fetch contacts			
fetchAcceptsEinvoices	Return acceptsEinvoices = true for clients that accept e-invoices.			

GET / ADD / EDIT - data fields					
	get	add	edit	datatype	description
id				String	Unique identifier
group				String	Group name
name				String	
regCode				String	
vatNumber				String	VAT registration number
bankAccount				String	Bank account number
referenceNumber				String	Reference number
ignoreOnVatDeclaration				Boolean	Used to not include transactions with this partner in VAT declaration form
invoiceDueDate				Integer	Due date in days
invoiceInterest				Decimal	Interest on unpaid invoices
discount				Decimal	Client based discount
vatPc				String	Client based VAT percentage
pdfAdditionaldata				String	Additional information on PDF - always printed for this client
pdfTemplateInvoice				String	Template for sales invoice

pdfTemplateOffer		String	Template for offer
pdfTemplateOrder		String	Template for order
accountUnpaid		String	General ledger unpaid account
accountPrepayment		String	General ledger prepayment account
dateCreated		Date	
dateUpdated		Date	
createdBy		String	
updatedBy		String	
address		JSONObj	Address
country		String	2-letter ISO code for country
county		String	County
city		String	City
address1		String	Address1
address2		String	Address2
postalCode		String	Postcode
contacts		JSONArr	List of contacts
type		String	Type of contact. Possible values are (case sensitive): EMAIL, PHONE, FAX, WWW, SKYPE, OTHER, PERSON, POST_ADDRESS
value		String	Content (info@smartaccounts.eu for example)
description		String	Internal information ("The phone number of our contact person" for example)
comment		String	Internal information, comment
documents		JSONArr	The list of uploaded documents
fileName		String	File name
description		String	Description
acceptsEinvoices		Boolean	Returns "true" if the client accepts Estonian e- invoices. Only fetched when get parameter fetchAcceptsEinvoices = true is provided
LEGEND			mandatory
			optional

ADD / EDIT: return value				
clientId	Unique identifier			
referenceNumber	Generated reference number			

DELETE: input parameters				
id		Unique identifier		

Additional methods			
/clients:getbalance	Fetch outstanding balance of the partner: id - identifier balanceDate - the date of the balance fetchDetails - fetch details		

Purchase / Sales – Client Invoices

SERVICE TYPE: Data with change history

URL: /api/purchasesales/clientinvoices:<methodname>

vailable methods	
et	
dd	
dit	
lelete	
etpdf	
etxml	
endeinvoice	

GET: possible input parameters	
dateFrom	Filter objects by date
dateTo	Filter objects by date
dateType	Sets which dates are used in filtering. Possible values: empty - same as "date" date -invoice date entrydate - entry date duedate - due date modifydate - added / modified date
clientName	Filter by client name
clientId	Filter by client id
id	Search for a specific invoice
invoiceNumber	Filter by invoice number
paymentStatus	Filter by payment status. Possible values are: empty - filter not applied unpaid - unpaid invoices overdue - unpaid and overdue invoices
pageNumber	Page number
fetchRows	Return the invoice rows as well
fetchDocuments	Return the list of uploaded documents
fetchComments	Return internal information comments

GET / ADD / EDIT - data	fields				
, , ,	ge	ad	edi	datatyp	
	t	d	t	е	description
id				String	Unique identifier
clientId				String	Unique identifier for the client
client				JSONObj	JSONObject with data for client, GET only!
id				String	
name				String	
regCode				String	
vatNumber				String	
type				String	Type. Null or CRE - credit invoice
date				Date	Date
dueDate				Date	Due date
entryDate				Date	Entry date
number				String	Number in accounting
invoiceNumber				String	Invoice number. If not provided (usual use case), will be generated by SmartAccounts
invoiceNote				String	Additional information for PDF invoice
referenceNumber				String	Reference number for payment orders
currency				String	Currency (EUR for example)
exchangeRate				Decimal	Exchange rate (can be null or 1.00 for EUR). Mandatory for those currencies for which no ECB exchange rate can be found (Bitcoin for example).
interest				Decimal	Interest rate
amount				Decimal	Amount without VAT
roundAmount				Decimal	Rounding
vatAmount				Decimal	VAT amount
totalAmount				Decimal	Total amount including VAT. If provided for add / edit requests the total amount will be calculated by SmartAccounts as well and the difference will go to roundAmount. This is used to guarantee there is no difference in the amounts between the systems (because of different rounding rules for example)
outstandingAmount				Decimal	The outstanding amount of the invoice
dateCreated				Date	
dateUpdated				Date	
createdBy				String	
updatedBy				String	
pdfTemplate				String	Template to be used for PDFs

accountUnpaid		String	The general ledger account for the invoice (for add / edit this is taken from the client's data)
objectId		String	Object
emailLastSentBy		String	Details of the last e-mail sent
emailLastSentDate		Date	Details of the last e-mail sent
emailLastSentTo		String	Details of the last e-mail sent
omnivaLastSentDate		Date	Details of sending the invoice to Omniva
paymentMethod		String	If the invoice is marked as paid along with the invoice creation this field contains the reference to payment method used
paymentAmount		Decimal	Payment amount when paymentMethod is used
warehouseld		String	
baseForCreditInvoiceId		String	The id of the initial invoice when the type of the current invoice is CRE
offerId		String	The id of the offer when invoice is based on an offer
orderld		String	The id of the order when invoice is based on an order
periodicInvoiceId		String	Name of the periodic invoice when the invoice is created based on a periodic invoice
comment		String	Internal information
documents		JSONArr	JSONArray of uploaded documents
fileName		String	
description		String	
rows		6	JSONArray of invoice rows
code		String	Article code
description		String	
price		Decimal	
quantity		Decimal	
unit		String	
discount		Decimal	Discount percentage (for example 10% = 10)
vat		Decimal	VAT
vatPc		String	VAT percentage
sum		Decimal	Row total amount with VAT
order		Integer	Order
objectId		String	Row object
accountSales		String	General ledger sales account
accountWarehouse		String	General ledger warehouse account
accountPurchase		String	General ledger purchase account

LEGEND			mandatory
			optional

ADD / EDIT: return value	
invoiceId	Invoice id
clientId	The id of the client
number	Accounting number for the invoice
invoiceNumber	Invoice number
referenceNumber	
amount	Amount without VAT
vatAmount	VAT
totalAmount	Amount with VAT
roundAmount	Rounding amount (see description of totalAmount above)
dueDate	
interest	
warehouseld	

DELETE: input parameters					
id	Unique id for this object				

Additional methods	
/clientinvoices:getpdf	Returns the PDF of the invoice. Input parameters id - invoice id template - optional, if left empty the default templates will be used
/clientinvoices:getxml	Returns the E-Invoice XML file. Input parameters id - invoice id
/clientinvoices: sendeinvoice	Send e-invoice to the client. Sending einvoices must be activated via GUI and the partner must accept e-invoices. id - invoice id

Purchase / Sales – Client Offers / Client Orders

These are two services with almost exact same behaviour but different URLs.

SERVICE TYPE: Data with change history

URL: /api/purchasesales/clientoffers(/clientorders):<methodname>

Available methods	
get	
add	
edit	
delete	
getpdf	
getstatuses	
addstatus	

GET: possible input parameters	
dateFrom	Filter objects by date
dateTo	Filter objects by date
dateType	Sets which dates are used in filtering. Possible values: empty - same as "date" date -offer / order date modifydate - added / modified date
clientName	Filter by client name
clientId	Filter by client id
id	Search for a specific offer / order
offerNumber / orderNumber	Filter by offer / order number
pageNumber	Page number
fetchRows	Return the offer / order rows as well
fetchDocuments	Return the list of uploaded documents
fetchComments	Return internal information comments

GET / ADD / EDIT - data fields						
	ge t	ad d	edi t	datatyp e	description	
id				String	Unique identifier	
clientId				String	Unique identifier for the client	
client				JSONObj	JSONObject with data for client, GET only!	
id				String		
name				String		
regCode				String		
vatNumber				String		

date		Date	Date
dueDate		Date	Due date
nextActionDate		Date	Date of the next action
paymentDueDate		Date	Payment due date of the offer
number		String	Number in accounting
offerNumber / orderNumber		String	Offer / order number. If not provided (usual use case), will be generated by SmartAccounts
offerNote / orderNote		String	Additional information for PDF
currency		String	Currency (EUR for example)
exchangeRate		Decimal	Exchange rate (can be null or 1.00 for EUR). Mandatory for those currencies for which no ECB exchange rate can be found (Bitcoin for example).
status			Current status of the offer / order
interest		Decimal	Interest rate
amount		Decimal	Amount without VAT
roundAmount		Decimal	Rounding
vatAmount		Decimal	VAT amount
totalAmount		Decimal	Total amount including VAT. If provided for add / edit requests the total amount will be calculated by SmartAccounts as well and the difference will go to roundAmount. This is used to guarantee there is no difference in the amounts between the systems (because of different rounding rules for example)
dateCreated		Date	
dateUpdated		Date	
createdBy		String	
updatedBy		String	
pdfTemplate		String	Template to be used for PDFs
objectId		String	Object
emailLastSentBy		String	Details of the last e-mail sent
emailLastSentDate		Date	Details of the last e-mail sent
emailLastSentTo		String	Details of the last e-mail sent
offerId		String	The id of the offer when the order is based on an offer. Only for client offers
comment		String	Internal information
documents		JSONArr	JSONArray of uploaded documents
fileName		String	
description		String	

rows			JSONArray of rows
code		String	Article code
description		String	
price		Decimal	
quantity		Decimal	
unit		String	
discount		Decimal	Discount percentage (for example 10% = 10)
vat		Decimal	VAT
vatPc		String	VAT percentage
sum		Decimal	Row total amount with VAT
order		Integer	Order
objectId		String	Row object
LEGEND			mandatory
			optional

ADD / EDIT: return value				
offerId / orderId	Unique identifier			
clientId	The id of the client			
number	Internal number for the offer / order			
offerNumber / orderNumber	Number			
amount	Amount without VAT			
vatAmount	VAT			
totalAmount	Amount with VAT			
roundAmount	Rounding amount (see description of totalAmount above)			

DELETE: input parameters					
id	Unique id for this object				

Additional methods	
/clientoffers:getpdf /clientorders:getpdf	Render the PDF. Input parameters id - offer / order id template - optional, if left empty the default templates will be used
/clientoffers:getstatuses /clientorders:getstatuses	Get the list of statuses for this offer or order. Input parameters are: id - offer / order id

	Sets the status of the offer / order to a new
/clientoffers:addstatus	value. Possible input parameters are id,
/clientorders:addstatus	status.

Purchase / Sales – Vendors

SERVICE TYPE: Data with change history

URL: /api/purchasesales/vendors:<methodname>

Available methods	
get	
add	
edit	
delete	
getbalance	

GET: possible input parameters		
nameOrRegCode	Filter by name or registry code	
id	Fetch a specific vendor	
modifiedFrom	Fetch vendors modified after	
modifiedTo	Fetch vendors modified until	
pageNumber	Page number	
fetchDocuments	Fetch the list of uploaded documents	
fetchComments	Fetch internal comments	
fetchAddresses	Fetch addresses	
fetchContacts	Fetch contacts	

GET / ADD / EDIT - data fields					
	get	add	edit	datatype	description
id				String	Unique identifier
group				String	Group name
name				String	
regCode				String	
vatNumber				String	VAT registration number
bankAccount				String	Bank account number
referenceNumber				String	Reference number
ignoreOnVatDeclaration				Boolean	Used to not include transactions with this partner in VAT declaration form
invoiceDueDate				Integer	Due date in days
invoiceInterest				Decimal	Interest on unpaid invoices
vatPc				String	Vendor based VAT percentage
accountUnpaid				String	General ledger unpaid account
accountPrepayment				String	General ledger prepayment account

dateCreated	Date	
dateUpdated	Date	
createdBy	String	
updatedBy	String	
address	JSONObj	Address
country	String	2-letter ISO code for country
county	String	County
city	String	City
address1	String	Address1
address2	String	Address2
postalCode	String	Postcode
contacts	JSONArr	List of contacts
type	String	Type of contact. Possible values are: EMAIL, PHONE, FAX, WWW, SKYPE, OTHER, PERSON, POST_ADDRESS
value	String	Content (info@smartaccounts.eu for example)
description	String	Internal information ("The phone number of our contact person" for example)
comment	String	Internal information, comment
documents	JSONArr	The list of uploaded documents
fileName	String	File name
description	String	Description
LEGEND		mandatory
		optional

ADD / EDIT: return value		
vendorld		Unique identifier
referenceNumber		Generated reference number

DELETE: input parameters	
id	Unique identifier

Additional methods	
/vendors:getbalance	Fetch outstanding balance of the partner: id - identifier balanceDate - the date of the balance fetchDetails - fetch details

Purchase / Sales – Vendor Invoices

SERVICE TYPE: Data with change history

URL: /api/purchasesales/vendorinvoices:<methodname>

Available methods	
get	
add	
edit	
get add edit delete	
getpdf	

GET: possible input parameters	
dateFrom	Filter objects by date
dateTo	Filter objects by date
dateType	Sets which dates are used in filtering. Possible values: empty - same as "date" date -invoice date entrydate - entry date duedate - due date modifydate - added / modified date
vendorName	Filter by vendor name
vendorld	Filter by vendor id
id	Search for a specific invoice
invoiceNumber	Filter by invoice number
paymentStatus	Filter by payment status. Possible values are: empty - filter not applied unpaid - unpaid invoices overdue - unpaid and overdue invoices
pageNumber	Page number
fetchRows	Return the invoice rows as well
fetchDocuments	Retrun the list of uploaded documents
fetchComments	Return internal information comments

GET / ADD / EDIT - data fields						
	ge t	ad d	edi t	datatyp e	description	
id				String	Unique identifier	
vendorld				String	Unique identifier for the vendor	
vendor				JSONObj	JSONObject with data for vendor GET only!	
id				String		
name				String		

regCode		String	
vatNumber		String	
date		Date	Date
dueDate		Date	Due date
entryDate		Date	Entry date
number		String	Number in accounting
invoiceNumber		String	Invoice number
referenceNumber		String	Reference number for payment orders
currency		String	Currency (EUR for example)
exchangeRate		Decimal	Exchange rate (can be null or 1.00 for EUR). Mandatory for those currencies for which no ECB exchange rate can be found (Bitcoin for example).
interest		Decimal	Interest rate
amount		Decimal	Amount without VAT
roundAmount		Decimal	Rounding
vatAmount		Decimal	VAT amount. IF isCalculateVat = false - mandatory isCalculateVat = true - ignored, VAT is calculated by SmartAccounts
totalAmount		Decimal	Total amount incl VAT. If provided for add / edit requestts the total amount will be calculated by SmartAccounts as well and the difference will go to roundAmount. This is used to guarantee there is no difference in the amounts between the systems (because of different rounding rules for example)
outstandingAmount		Decimal	The outstanding amount of the invoice
isCalculateVat		Boolean	Is VAT calculated by SmartAccounts or is it provided in API call. Possible values: true = SmartAccounts will calculate VAT false = vatAmount is mandatory
reverseVatChargeType			Reverse charge type. For add and edit requests this is evaluated by the country of the vendor and vat percentages of the rows. Possible values: NATIONAL - for example KMS411 documents UNION - EU reverse charge OTHER - reverse charge outside the EU
dateCreated		Date	
dateUpdated		Date	
createdBy		String	
updatedBy		String	

accountUnpaid		String	The general ledger account for the invoice (for add / edit this is taken from the vendor's data)
objectId		String	Object
paymentMethod		String	If the invoice is marked as paid along with the invoice creation this field contains the reference to payment method used
paymentAmount		Decimal	Payment amount when paymentMethod is used
warehouseld		String	
comment		String	Internal information
documents		JSONArr	JSONArray of uploaded documents
fileName		String	
description		String	
rows			JSONArray of invoice rows
code		String	Article code
description		String	
price		Decimal	
quantity		Decimal	
unit		String	
vat		Decimal	VAT
vatPc		String	VAT percentage
sum		Decimal	Row total amount with VAT
order		Integer	Order
objectId		String	Row object
additional Expenses		Decimal	Additional warehouse expenses which are calculated into warehouse FIFO price
accountWarehouse		String	General ledger warehouse account
accountPurchase		String	General ledger purchase account
LEGEND			mandatory
			optional

ADD / EDIT: return value				
invoiceId	Invoice id			
vendorld	The id of the vendor			
number	Accounting number for the invoice			
invoiceNumber	Invoice number			
referenceNumber				
amount	Amount without VAT			

vatAmount	VAT
totalAmount	Amount with VAT
roundAmount	Rounding amount (see description of totalAmount above)
dueDate	
interest	
warehouseld	

DELETE: input parameters		
id		Unique id for this object

Additional methods					
/vendorinvoices:getpdf	Render the invoice PDF (not the initial invoice PDF but SmartAccounts representation of the document). Input parameters id - invoice id				

Purchase / Sales – Payments

SERVICE TYPE: Data with change history

URL: /api/purchasesales/payments:<methodname>

Available methods	
get	
get add	
edit	
delete	

GET: possible input parameters				
dateFrom	Filter objects by date			
dateTo	Filter objects by date			
dateType	Sets which dates are used in filtering. Possible values: empty - same as "date" date -payment date modifydate - added / modified date			
partnerType	Filter payments by vendor type. Possible values are CLIENT, VENDOR			
accountType	Filter payments by account type. Possible values are BANK, CASH			
accountName	Filter payments by account name			
partnerId	Filter by client / vendor id			
partnerName	Filter by client / vendor name			
id	Search for a specific payment			
pageNumber	Page number			
fetchRows	Return the payment rows as well			
fetchComments	Return internal information comments			

GET / ADD / EDIT - data fields						
	get	add	edit	datatype	description	
id				String	Unique identifier	
date				Date	Date	
number				String	Number in accounting	
document				String	Additional data: document number	
orderNumber				Integer	Cash order number	
partnerType					Possible values: CLIENT, VENDOR	
clientId / vendorId				String	Unique identifier for the vendor	
client / vendor				JSONObj	JSONObject with data for partner data	
id				String		
name				String		

regCode		String	
vatNumber		String	
accountType		String	Possible values: BANK, CASH
accountName		String	The name of the bank or cash account used
currency		String	Currency (EUR for example). Must exist in SmartAccounts. The currency must match the currency of the bank or cash account (parameter "accountName") OR multicurrency payments can be entered for accounts with the currency set to EUR (for example adding a payment for USD sales invoice on a bank account with currency set to EUR triggers a multicurrency payment).
exchangeRate		Decimal	Exchange rate (can be null or 1.00 for EUR). Mandatory for those currencies for which no ECB exchange rate can be found (Bitcoin for example).
amount		Decimal	Payment amount
eurAmount		Decimal	Payment amount in EUR. Use this field in add/edit request only if you are trying to trigger multicurrency payment behaviour (USD payment on an EUR bank account).
comment		String	Internal information
rows		JSONArr	JSONArray of payment rows
description		String	The description of the payment rows
amount		Decimal	Payment amount
type		String	Possible values: CLIENT_INVOICE, VENDOR_INVOICE, VAT_RETURN, PREPAYMENT_PAYMENT, SALARY
id		Decimal	Id of the object for this row (for example an invoice)
			If the client made a prepayment or a
prepayment		JSONObj	prepayment was made to a vendor
amount		Decimal	
description		String	
account		String	The general ledger account
extras		JSONArr	Extra rows for the payment
price		Decimal	Price of the extra
quantity		Decimal	Quantity of the extra
description		String	Description for the extra
amount		Decimal	Price x quantity
account		String	General ledger account
objectId		String	

LEGEND			mandatory
			optional

ADD / EDIT: return value				
paymentId	Payment id			
number	Accounting number for the payment			
amount				

DELETE: input parameters	
id	Unique id for this object

Additional methods

Payroll – Settings – Payout Types

SERVICE TYPE: Data for which changes cannot be queried

NEEDED PRIVILEGE: Payroll - Employees

URL: /api/payroll/settings/payouttypes:<methodname>

Available methods

get Returns JSONObject containing JSONArray with id payoutTypes

GET: possible input parameters

None, the service always returns all payout types of the company

GET / ADD / EDIT - data	a fields				
	get	add	edit	datatype	description
code				String	Unique identifier for the payout type (this is used in other services)
description				String	Human readable description for the payout type
incomeTax				Boolean	Is income tax calculated for this payout type
socialTax				Boolean	Is social tax calculated for this payout type
unemploymentTax				Boolean	Is unemployment tax calculated for this payout type
pension				Boolean	Is funded pension applicable for this payout type
tsdCode				String	TSD declaration code
tsdCodeA1EE				String	TSD declaration code if worker has A1 EE slip
tsdCodeA1nonEE				String	TSD declaration code if worker has A1 non EE slip
custom				Boolean	Value "true" only if it's a company specific payout type
incomeTaxPc				Decimal	Report row code: income statement
socialTaxPc				Decimal	Report row code: cashflow

Additional methods		

Payroll – Settings – Absence Types

SERVICE TYPE: Data for which changes cannot be queried

NEEDED PRIVILEGE: Payroll - Employees

URL: /api/payroll/settings/absencetypes:<methodname>

Available methods

get Returns JSONObject containing JSONArray with id absenceTypes

GET: possible input parameters

None, the service always returns all payout types of the company

GET / ADD / EDIT - data fields						
	get	add	edit	datatype	description	
code				String	Unique identifier for the absence type (this is used in other services)	
description				String	Human readable description	
payoutType				String	If payouts are possible for this type of absence this refers to payout type used	

Additional methods			

Payroll – Workers

SERVICE TYPE: Data for which changes cannot be queried

NEEDED PRIVILEGE: Payroll - Employees

URL: /api/payroll/workers:<methodname>

Available methods

get Returns JSONObject containing JSONArray with id workers

GET: possible input parameters

searchString Filter workers via name or ID code

active Return only workers who are active today

fetchContracts Return workers with the list of

GET / ADD / EDIT - data fie	elds				
	get	add	edit	datatype	description
id				String	Unique identifier
forename				String	Forename
surname				String	Surname
socialSecurityCode				String	Social security code
startDate				Date	The general date of registering the worker in the system, see JSONArray contracts below for specific contract start and end dates
endDate				Date	General end date of the worker
vendor				JSON	If worker has a vendor attached (typical case) the details are provided in this JSONObject
id				String	Unique identifier for the vendor
name				String	
bankAccount				String	
email				String	
phone				String	
objectId				String	Identifier of the object selected for the worker (if selected)
internalData				String	Comment for internal use
payday				Integer	Day of month for the salaries to be paid out to this worker. Possible values are: 128 – first calendar days of month -1 – last day of month -2 – last working day of month
vacationDaysPerYear				Integer	How many days of vacation per year
taxSettings					
sustainSocialTaxMin				Boolean	Check the minimum of social tax for each month
noUnempInsurance				Boolean	Don't withhold unemployment insurance
disabilityPension				Boolean	Disability pensioner

taxResidency	String	Country code for tax residency if specified. Typically, null!
a1code	String	Country code for A1 slip. Typically, null!
incomeTaxFree	Boolean	Deduct tax free for worker
taxFreeApplications	JSON	If the user has made specific income tax free sum applications, this array is filled. If the tax-free sum for the worker is calculated via law this array is not provided
startDate	Date	
amount	Decimal	
fundedPension	JSON	
hasJoined	Boolean	Has the worker joined funded pension system
applicableToday	Boolean	Is funded pension applicable today for this worker
startDate	Date	Funded pension opt in date
endDate	Date	Funded pension opt out date
contracts	JSON	JSONArray of contracts for the worker if fetchContracts was set to true in the request
payoutType		Applicable payout type identifier. See API service payroll - settings - payout types
description	String	
startDate	Date	
endDate	Date'	
grossSum	Decimal	
partialWorkload	Decimal	Value of 01. Null is equal to 1
account	String	The bookkeeping account of the contract expense. See API service settings - accounts

Additional methods

/workers:getvacationreport

Get the vacation balances of the workers. Possible input parameters are:

workerId - worker identifier

active - only fetch vacation report for active workers. If workerld is provided this parameter is ignored

searchString - filter workers via name or social security id **date** - calculate vacation report for date. Current date is used if not explicitly set in the request.

Returns JSONArray with id workers where each worker has:

- workerId
- socialSecurityCode
- vacation (JSON)
- -- accumulatedDays
- -- calculationDetails details of the calculation for previous years
- -- -- year
- -- -- accumulated
- -- -- currected
- -- -- used
- -- -- total

Payroll – Absences

SERVICE TYPE: Data with change history

NEEDED PRIVILEGES: Payroll - Time off

OPTIONAL: General - Saving enabled OPTIONAL: General - Deleting enabled

URL: /api/payroll/workerabsences:<methodname>

Available methods	
get	
get add	
edit	
delete	

GET: possible input parameters	
dateFrom	Filter objects by date. Required if no id is provided to fetch a specific worker absence
dateTo	Filter objects by date
dateType	Sets which dates are used in filtering. Possible values: empty - same as "date" date - filter by absence start and end date. Absence will be returned if any part of the absence is in the period between dateFrom and dateTo modifydate - added / modified date. Absence will be returned if dateCreated or dateUpdated is between dateFrom and dateTo
type	Filter by absence type
workerld	Filter by worker id
id	Search for a specific absence
pageNumber	Page number

GET / ADD / EDIT - data fields							
	get	add	edit	datatype	description		
id				String	Unique identifier		
workerId				String			
type				String	Type of absence. See api - payroll - settings - worker absence types		
startDate				Date			
endDate				Date			
duration				Integer	Duration in calendar days		
description				String	Description		
payoutDateType				String	Possible values are: BEF - payout should be made before the absence NE - next payday		

payoutDate		Date	Date when the payout should be made
payoutYear		Integer	Period to classify expenses to (year, 2023 for example)
payoutMonth		Integer	Period to classify expenses to (month 112)
payoutCreated		Boolean	True if a payout has been created for this absence. If true, this absence cannot be deleted.
dateCreated		Datetime	
dateUpdated		Datetime	
createdBy		String	
updatedBy		String	
LECEND			
LEGEND			mandatory
			optional

ADD / EDIT: return value						
id	Unique identifier					

DELETE: input parameters					
id	Unique identifier				

Additional methods						

Example add request body

This request sets all the required fields for a paid vacation for two days in December 2022:

```
{
    "type": "VACATION_REG",
    "startDate": "02.12.2022",
    "endDate": "03.12.2022",
    "workerId": "<worker_id_code>"
}
```