

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

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 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 it's always a question – how does the external system 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:

1. 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
<code>timestamp</code>	String	A timestamp with the date and time of the request. Format: <code>ddMMyyyyHHmmss</code>
<code>apikey</code>	String	The public API key of the company account
<code>signature</code>	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

In order 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 be obviously be "signature") and BODY.

- a. URL

If the URL of the request was:

<https://sa.smartaccounts.eu/api/articles/getarticleswarehousequantities:run?codes=kood1%2Ckood2%2Ckood3×tamp=14022013133802&apikey=a066f7de6042458da916>

Only the following part is used as signature calculation:

codes=kood1%2Ckood2%2Ckood3×tamp=14022013133802&apikey=a066f7de6042458da916

- 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/...](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 really 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.
- 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 – in order 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):
 - Id – used for invoices for example;
 - Code – used for articles for example;

- Name - used

One of these parameters must exist for every object.

API services

General - Files

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 (incl content) of one specific file

add

delete

GET: possible input parameters

docType					Document type to ask files for. Possible values are: CLIENT_INVOICE, CLIENT, VENDOR, VENDOR_INVOICE, ARTICLE, CLIENT_OFFER, CLIENT_ORDER
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
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
fileContent		■	■		Content - BASE64 encoded string
LEGEND		■			mandatory
		■			optional

ADD / EDIT: return value

fileId					Unique id for this object
fileName					Filename
description					Additional description
docId					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

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General – Entries

SERVICE TYPE: Data with change history
URL: /api/general/entries:<methodname>

Available methods
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, 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: emptpy - 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	ad	edi	datatyp	description
	t	d	t	e	
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	Only EUR entries can be added or edited through the API so currency is not needed as an input parameter
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
creditAmount				Decimal	Defaults to 0.00 if missing
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: inout parameters

id					Unique id for this object
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Additional methods

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

code					The code of the account
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Additional methods

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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
None, the service always returns all vat accounts

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
None, the service always returns all objects

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 parameters					
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

add

edit

delete

GET: possible input parameters

None, the service always returns all objects

GET / ADD / EDIT - data fields

	get	add	edit	datatype	description
code				String	The ISO code for the country
name				String	Name
euMember				Boolean	Is the country a member of the EU or not
LEGEND					mandatory
					optional

ADD / EDIT: return value

code					The ISO code for the country
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DELETE: input parameters

code					The ISO code for the country
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Additional methods

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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

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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

None, the service always returns all objects

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
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DELETE: input parameters

name					Group name
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Additional methods

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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

None, the service always returns all objects

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
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DELETE: input parameters

id					Unique id for this object
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Additional methods

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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

None, the service always returns all objects

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
currency				String	Currency
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
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DELETE: input parameters

name					Unique name for payment method
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Additional methods

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Settings – Report rows

SERVICE TYPE: Data for which changes cannot be queried

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

Available methods

get

add

edit

delete

GET: possible input parameters

None, the service always returns all objects

GET / ADD / EDIT - data fields

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

ADD / EDIT: return value

code					Unique code for the report row
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DELETE: input parameters

code					Unique code for the report row
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Additional methods

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Settings – Warehouses

GET: 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				
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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
pc	■	■	■	Decimal	Percentage (20 is 20% for example)
descriptionEt	■	■	■	String	Description: Estonian
descriptionEn	■	■	■	String	Description: English
descriptionRu	■	■	■	String	Description: Russian
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)
LEGEND		■			mandatory
		■			optional

ADD / EDIT: return value

vatPc					The code of the vat percentage
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DELETE: input parameters

vatPc					The code of the vat percentage to be deleted
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Additional methods

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Purchase / Sales – Articles

SERVICE TYPE:

Data with change history

URL:

/api/purchasesales/articles:<methodname>

Available methods
get
add
edit
delete
getwarehousequantites

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: 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 acitve 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				JSONArray	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					<p>Get the warehouse quantities of specified articles. Input parameters</p> <p>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:</p> <p>code - article code</p> <p>quantity - article quantity in warehouse</p> <p>status - possible values are:</p> <p>OK - warehouse article found</p> <p>NOT-FOUND - article was not found</p> <p>NOT-WH - not a warehouse article</p>

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

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: 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

clientId					Unique identifier
referenceNumber					Generated reference number

DELETE: input parameters

id					Unique identifier
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Additional methods

/clients:getbalance					Feth outstanding balance of the partner: id - identifier balanceDate - the date of the balance fetchDetails - fetch details
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Purchase / Sales – Client Invoices

SERVICE TYPE: Data with change history

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

Available methods
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
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				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
clientId				String	Unique identifer 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 usecase), 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 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
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
warehouseId				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
orderId				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					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					
warehouseId					

DELETE: input parameters

id					Unique id for this object
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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

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				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
clientId				String	Unique identifer 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 usecase), 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 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)
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: inout 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
/clientoffers:addstatus /clientorders:addstatus					Sets the status of the offer / order to a new value. Possible input parameters are: id , 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 regcode
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	Green		Blue	String	Unique identifier
group	Green	Light Blue	Light Blue	String	Group name
name	Green	Blue	Blue	String	
regCode	Green	Light Blue	Light Blue	String	
vatNumber	Green	Light Blue	Light Blue	String	VAT registration number
bankAccount	Green	Light Blue	Light Blue	String	Bank account number
referenceNumber	Green	Light Blue	Light Blue	String	Reference number
ignoreOnVatDeclaration	Green	Light Blue	Light Blue	Boolean	Used to not include transactions with this partner in VAT declaration form
invoiceDueDate	Green	Light Blue	Light Blue	Integer	Due date in days
invoiceInterest	Green	Light Blue	Light Blue	Decimal	Interest on unpaid invoices
vatPc	Green	Blue	Blue	String	Vendor based VAT percentage
accountUnpaid	Green	Light Blue	Light Blue	String	General ledger unpaid account
accountPrepayment	Green	Light Blue	Light Blue	String	General ledger prepayment account
dateCreated	Green			Date	
dateUpdated	Green			Date	
createdBy	Green			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

vendorId					Unique identifier
referenceNumber					Generated reference number

DELETE: input parameters

id					Unique identifier
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Additional methods

/vendors:getbalance					Feth outstanding balance of the partner: id - identifier balanceDate - the date of the balance fetchDetails - fetch details
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Purchase / Sales – Vendor Invoices

SERVICE TYPE: Data with change history

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

Available methods
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
vendorId				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
vendorId				String	Unique identifer 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 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
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
warehouseId				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
additionalExpenses				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
vendorId					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					
warehouseId					

DELETE: inout parameters

id					Unique id for this object
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Additional methods

/vendorinvoices:getpdf					Render the invoice PDF (not the initial invoice PDF but SmartAccounts representation of the document). Input parameters id - invoice id
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Purchase / Sales – Payments

SERVICE TYPE: Data with change history
URL: /api/purchasesales/payments:<methodname>

Available methods
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)
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
comment				String	Internal information
rows				JSONArray	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)
prepayment				JSONObj	If the client made a prepayment or a prepayment was made to a vendor
amount				Decimal	
description				String	
account				String	The general ledger account
extras				JSONArray	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
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Additional methods