

# Suomen Asiakastieto Oy Integration Interfaces

## Watch List Information

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## Document History

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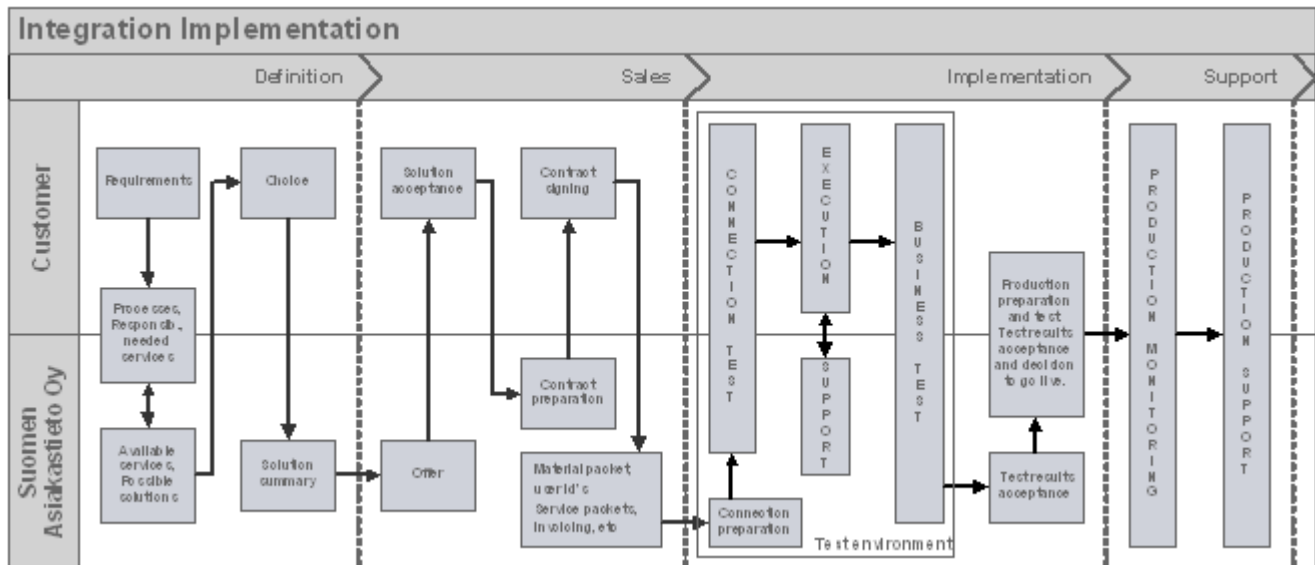
Version	Date	Issuer	Issue
1.0	28.10.2016	Marko Lehto	First version
1.1	25.3.2021	Marko Lehto	NORDIC_PEP and NORDIC_RCA lists added, endpoint changed test to demo
1.2	28.12.2023	Jussi Korkonen	Added SANCTIONS_AT db
1.3	18.1.2024	Katri Rautiainen	New format, JSON updated
1.31	21.3.2024	Jussi Korkonen	FirstName mandatory in NORDIC_PEP

## Confidential Statement

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## Process Description



When implementing the integration interface into use the process is:

### Definition:

- Customer has identified the requirements to fulfill their business needs.
- Customer and Sales Person walk through Customer's processes, Sales Person explains Customer's responsibilities and they plan what are the needed services.
- Sales Person and Specialist define existing services and propose a few solutions.
- Customer makes a decision on the solution.
- Sales Person and Specialist make a summary of the definition.

### Sales:

- Sales Person makes an offer and Customer accepts it if ok.
- Sales Person prepares the contracts like Service Contract, Integration Contract, Population Information System Contract and Customer signs them.
- After the signing of the contracts, Sales Person prepares and orders user ID's, service packets, invoice methods, etc and Specialist makes a material packet according to the definition and delivers it to Customer.

### Implementation in Test Environment:

- Network Specialist prepares connections for test like VPN, firewall settings etc, according to the definition and tests connection with Customer.
- Customer does coding, functional testing and other internal development work.
- After accepted test, implementation can be moved to production environment.

### Implementation in Production Environment:

- In production preparation Network Specialist prepares VPN, firewall settings etc, for own production environment if needed.
- Customer moves implementation to own production environment if needed.
- After accepted test, Customer and Sales Person make a decision about going live.

**Support:**

- In the beginning of the production use there is a short monitoring period for checking that everything works correctly.

## The REST interface Watch List Information

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The REST interface is based on HTTPS calls. The interface is SSL encrypted. Client's application forms a specified-form URL, which contains the required parameters, e.g. the user ID, the key identifying the subject, and the data on which operation of service is requested. The message is protected by an identifier, which is calculated on the basis of the SHA-512 algorithm. The interface returns an XML or JSON page containing the data contents of the selected service.

### Schema

[http://www.asiakastieto.fi/XMLSchema/Common\\_5\\_00.xsd](http://www.asiakastieto.fi/XMLSchema/Common_5_00.xsd)  
[http://www.asiakastieto.fi/XMLSchema/WatchLists\\_5\\_00.xsd](http://www.asiakastieto.fi/XMLSchema/WatchLists_5_00.xsd)

### Services in the REST interface

- Watch list service

## The REST interface

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Format of the URL for REST requests

The URL is formed according to the following syntax:

### Fixed part:

https://www.asiakastieto.fi/services/watchlist5/REST? (Production)

https://demo.asiakastieto.fi/services/watchlist5/REST? (Testing)

### JSON request

For JSON response please add the following headers to the http request.

Accept: application/json

Content-Type: application/json; charset=utf-8

Note that returned dates can be java milliseconds depending on data source.

## Request parameters

### General obligatory parameters

Name	Description	Max length
userid	User ID, given by SAT	12
passwd	password, given by SAT	10
timestamp	Time stamp for calculating the URL checksum (more Calculating the SHA-512 checksum)	24
checksum	URL check calculated by using the SHA-512 hash value	128
version	5.01, interface version for company services	
enduser	defines the enduser	12
reqmsg	COMPANY (company request) GROUP (group request) DECISION (decision support service)	
format	not in use	4

### Voluntary parameters

Name	Description	Max length
target	Target database requests PAP1 production requests (default) VAP1 for testing company information TAP1 for testing soletrader information	
lang	defines the response language, FI= Finnish EN= English	2

	SV= Swedish	
ccenter	cost center: For an enclosure of invoice including transactions sorted by the cost center	20

### Watch List request mandatory parameters

Name	Description	Max length
entityType	Defines a filter for the entity types to be searched. Possible values are: I (individual) O (organization)	
listType	Defines a filter against which lists to search against.	
listCode	PEP SANCTIONS_AT SANCTION_LIST ASSOCIATED_ENTITY ENFORCEMENT SOE ALL (Combination of lists PEP, SANCTION_LIST, ENFORCEMENT, ASSOCIATED_ENTITY and SOE) checked at once. NORDIC_PEP NORDIC_RCA	

### Watch List request voluntary parameters

Name	Description	Max length
firstName	The first name of the individual. This field is mandatory in list NORDIC_PEP otherwise the field is optional. This field used in case the entityType is I	
lastName	The last name of the individual. The field is optional and used in case the entityType is	
birthDate	The date of birth of individuals in case entityType is I, format is dd.mm.yyyy or yyyy	
personId	Person id of the individuals in case entityType is I and list is NORDIC_PEP	
businessId	Company VAT number (Not in use)	
companyName	Company name	



## SHA-512 checksum

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### Calculating the SHA-512 checksum

Formation of the verified URL is performed at the customer's end, using the secret calculation key the customer and Asiakastieto have agreed upon.

The interface application conducts the security check for the given URL, based on the given time stamp (current time) and the calculated verification. This procedure eliminates the risk that Asiakastieto's actual database user ID and password should fall into wrong hands, in case they are possibly shown in plain text in the target address line of the browser.

### Time stamp

The time stamp is supplied with the parameter timestamp, and it is of the following format:

YYYYMMDDHHMMSSXXTZNNNNNN

in which

YYYY	year in four digits
MM	month 01-12
DD	day of the month 01-31
HH	hour 00-23
MM	minutes 00-59
SS	seconds 00-59
XX	hundredths of a second 00-99
TZN	time zone correction in relation to GMT. In Finland +02 (plus has to be included). The offset from GMT is always presented in relation to local normal time, daylight saving time (DST) is not added to the correction value.
NNNNN	consecutive number

### Verification

The checksum (SHA-512 hash value) is presented as a hexadecimal string of 128 characters, in which letter symbols are capital letters.

The verification is calculated by using the standard SHA-512 algorithm, forming first a source character string from part of the parameters, and including the secret key known only by the customer and Asiakastieto.

Source character string: userid&enduser&timestamp&key&

The parameters are placed in succession, set off by & characters as a single uniform character string, and the SHA-512 hash value is calculated for this, which is again placed into the parameter checksum in the final URL. The & character also has to be found at the end of the source character string when performing the calculation. The SHA-512 hash value received is presented as a hexadecimal character string of 128 characters, in which letter symbols are capital letters.

## URL Notes

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### URL Notes

Question mark (?) is used as separator between the fixed part and the parameter part. The separator between the parameters is & character. Each parameter is separated from its value with the equals sign (=).

URL in its entirety must not contain spaces or characters in the so-called 8-bit area (national characters, e.g. ääö). For example, if the password contains characters in the 8-bit area, they have to be entered as their UTF-8 hexadecimal values, set off by percentage characters, in accordance with the http/URL standard. For example, the password PÄIVÄÄ should be entered as the parameter passwd=P%C3%84IV%C3%84%C3%84. Blank characters should be entered as %20 e.g. in the parameter "name=Miehen%20Mikael".

Timestamp consists of time zone correction related to GMT time, the "+" or "-" sign must be included. Notice that in the url the "+" sign must be as UTF-8 value %2B and "-" sign as UTF-8 hexadecimal value %2D.

The checksum (the SHA-512 hash value) is presented as a hexadecimal character string of 128 characters, in which letter symbols are capital letters.

Input parameters for the Decision support service are delivered in two tables. C6\_input.code and C6\_input.value.

Brackets must be as UTF-8 hexadecimal value "[" as %5B and "]" as %5D.

The first element of C6\_input.code is indexed by 0  
(C6\_input.code%5B0%5D=XXX&C6\_input.value%5B0%5D=nnnn), e.g.  
C6\_input.code%5B0%5D=A05 and C6\_input.value%5B0%5D=1000 (amount of the credit).

## Examples of REST request for testing

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### Examples

```
https://demo.asiakastieto.fi/services/watchlist5/REST?
target=VAP1&userid=xxxxxxxxxxx&passwd=xxxxxxx&enduser=testtesttest&entityType=I&listType
e.listCode=PEP&listType.listCode=NORDIC_PEP&firstName=Matti&lastName=Meikalainen&
timestamp=2004070713434000%2B0200001&checksum=71BCA0FDF4926E784A1C86B64E528435
305B5FFD0952C6B1834F234D44CAC69674E0D7A95A484F1708D82DC623F24D3F331732619E5ED
7E3237DA139A8D00643&
```