



Integrated API from UC.

A solution for the search and delivery
of corporate data for integration in
external systems.



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1. BIWS, Business Info Web Service

1.1 About the service

The objective of the BIWS (Business Information Web Service) for corporate data is to provide a straightforward means of retrieving or updating current information on companies, such as details of addresses, accounting records and board of directors, or make available complete reports on company reports, group structures or original copies of annual accounts.

This technology uses Hypertext Transfer Protocol (HTTP) to transmit information, sent and delivered in XML format.

Information is requested by sending a search query/request to BIWS. The search query can be sent via HTTP-POST, packaged in a specific XML format, or via HTTP-GET, as an URI.

In order for the web service to be accessible, the IP address of the external system must be registered with [allabolag.se](#), and a unique customer ID is to be created.

Validation is carried out for each call to the server by verifying the IP address and unique customer ID.

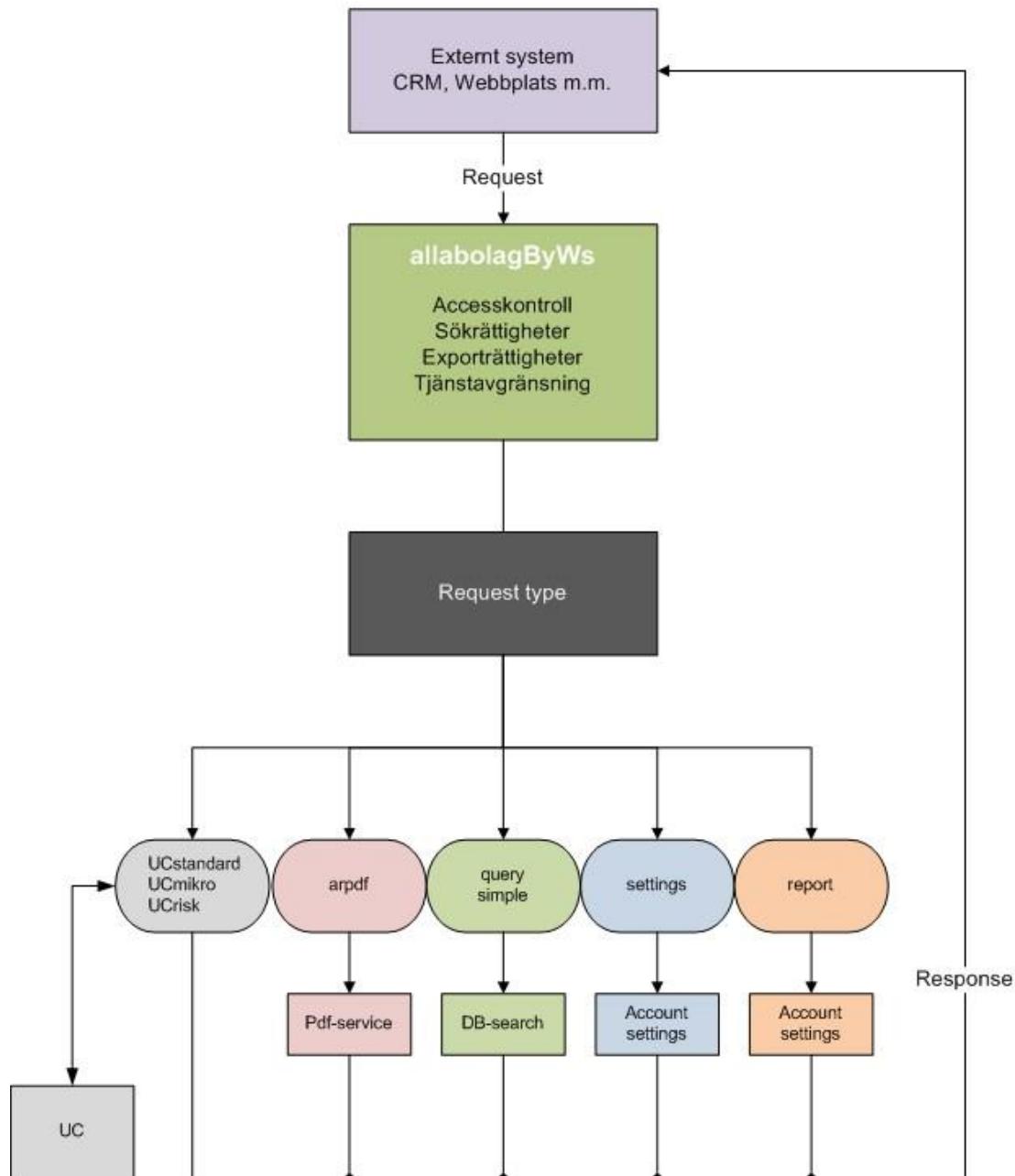
1.2 Searchability and delivery

BIWS contains all of the corporate data available via [allabolag.se](#), and more besides.

In order to use BIWS, it is necessary to have an agreement on which fields are to be searchable and which are to return data. Only registered search fields may subsequently be used for searches, and only fields registered to return data can be retrieved. It should be noted that not all registered search fields have to be used, and it is possible to retrieve fewer fields than those registered in BIWS.

1.3 Character set

The character set used is either UTF-8 or ISO-8859-1. If the application calling BIWS uses UTF-8, the service will adapt accordingly, and if no character set is stated UTF-8 will be used for the response. If the request is made via HTTP-GET, the “encoding” parameter can be sent in order to retrieve data with the intended character set.



2. Requests to the service (XML request)

2.1 Requests, XML request

Each request must begin with a standard XML header followed by a body within <biwsXML_request type=""></biwsXML_request>

```
<?xml version="1.0" encoding="-8"
<biwsXML_request type="find|flow|fetch|group|arpdf|koncern|form">
  <open_session key="(string)" />  <query>(query-
string)</query>
  <wpquery>(query-string)</wpquery>
  <wpfilter>hq | all | none | wpid:nr | filterfält:filtertext</wpfilter>
  <year>(annual_report-year)</year>
  <response>
    <sort field="(fieldname [asc | desc])" />
    <groupby field="ba_postort" />
    <records from="(int)" to="(int)">
      <field name="(field1,field2,field3,...)" />
    </records>
  </response>
</biwsXML_request>
```

The call is structured in one or two parts – the request, and for searches in the database, a response.

It is possible to call a range of services through BIWS by specifying them in the “type” attribute and declaring a range of parameter requirements in order to execute the request.

| Type | Description | Parameter requirements |
|-------------|--|---------------------------------|
| find | Search in company database | Correct query syntax |
| flow | Search company, best match | Correct query syntax |
| group | Grouping of the result in search query | groupby must be stated |
| fetch | Search and retrieve data | Correct query syntax |
| arpdf | Retrieve an annual report, XML as base64 encoded PDF | Corporate ID no. in query, year |
| arpdfstream | Retrieve an annual report, result as streamed PDF | Corporate ID no. in query, year |
| abregbevis | Retrieve UC allabolag AB's Certificate of Registration for a company, result as streamed PDF | Corporate ID no. in query |
| group | Retrieve a group structure in XML format | Corporate ID no. in query |
| koncernHtml | Retrieve a group structure in HTML format | Corporate ID no. in query |
| account | Show account settings, XML | Type only |
| checkUpdate | Check if there is updated data | Corporate ID no. in query |
| fetchUpdate | Retrieve updated data | Corporate ID no. in query |

| | | |
|---------------|--|---------------------------|
| handleMonitor | Add/remove companies under monitoring | Corporate ID no. in query |
| checkMonitor | Check if there are new events under monitoring | BIWS key |
| findEvents | Search for corporate events | Corporate ID no. in query |
| fetchEvents | Retrieve latest corporate events | Corporate ID no. in query |
| bolagsordning | Retrieve current Articles of Association from the Swedish Companies Registration Office for a corporate ID no. | Corporate ID no. in query |
| regbevis | Retrieve a current Certificate of Registration from the Swedish Companies Registration Office for a corporate ID no. | Corporate ID no. in query |

2.2 Elements and attributes in the query

All elements and attributes must be specified exactly as they are described in this documentation, and it is important to use upper and lower case letters as they appear.

Certain characters in the text may be confused with regular XML syntax, and must be coded in a specific way so as not to be interpreted as special characters in XML. These characters are as follows: ampersand (&), less than (<), greater than (>), inverted commas (") and apostrophe ('). As these characters occur in text as part of both requests and responses, they must be entity coded as follows:
 & = &; < = <; > = >; " = "; och ' = ';

2.3 The components of an XML request

BIWS is a strictly script-based API based on XML code. Calls are made up of one or two parts: a request, and when performing searches in the database, a response.

In the first part of the request, attributes are passed to allbolagXML_request, with the type of request in the “type” attribute.

2.3.1 List of XML elements in a query:

| XML element | Attribute | Explanation |
|----------------------|------------|--|
| allbolag_XML_request | type | Start of query |
| open_session | key | Connecting |
| query | | Corporate data search query |
| wpquery | | Workplace data search query |
| wpfilter | | Workplace filter, “all” “hq” “none”, default “none”, “wpid:nr” |
| year | | Accounting year |
| response | | The response |
| sort | expression | Sorting of results |
| records | from, to | Which entries |

| | | |
|-------|------|------------------|
| field | name | Specifies column |
|-------|------|------------------|

key

The next part of the request <open_session> handles identification of the client via the “key” attribute. The value passed to “key” is a unique 32-character customer ID obtained from allabolag.se.

query

The “query” element can be used for advanced Boolean search queries. The search query is forwarded in an unchanged state to the search engine used by BIWS. The search syntax to be used is outlined in Section 4.

A common search query used to return the right annual report or group structure is to search for a corporate identity number.

```
<query>orgnr:5567307367</query>
```

In BIWS, the corporate identity number is the key for identification of companies. The corporate identity number is allocated by the Swedish authorities when the company is registered. This number can be written in various ways, and although BIWS handles different formats, we recommend using 10 digits without other separating characters. It should be noted that, in the “orgnr” field, the last four digits will be hidden in the case of Sole trader enterprises. To find the company with the corporate identity number unhidden, searches can be performed in the “nummer” field.

Other common search fields are as follows:

| | |
|--|--|
| jurnamn | The legal name |
| ba_postort | The visiting address town/city (hq) |
| The visiting address municipality (hq) | ba_kommun |
| ba_lan | The |
| visiting address county (hq) | oms_X |
| turnover and latest annual report | anst_X |
| employees at the company | numcfar |
| workplaces at the company | The number of |
| what | Must be used with type="flow" to enable "smart" company searches |

All available search fields are shown in Section 6.

wpquery

The “wpquery” element is used for selections among the companies’ workplaces. Boolean search queries can be carried out in this element. The search query is forwarded in an unchanged state to the search engine used by BIWS. The search syntax which can be used is Boolean, that is, with AND/OR/NOT between the search fields.

The search fields available are as follows:

Name of workplace – namn Area code
 of workplace – riktnr
 Area code + telephone number of workplace – riktnrtelnr
 SNI code of workplace – sni

Visiting address
 Street name – ba_gatuadress
 Post code – ba_postnummer
 Town/city – ba_postort
 Municipality – ba_kommun
 County – ba_lan

Delivery address
 Street name – ua_gatuadress
 Post code – ua_postnummer
 Town/city – ua_postort
 Municipality – ua_kommun
 County – ua_lan

This is an example of a search query:

```
<wpquery>ba_postort:Uppsala AND ba_gatuadress:Vaksalagatan</wpquery>
```

The field can be combined with `<query />` in order to declare advanced selections such as:

```
<query>statuskod:1 AND oms_X:2000..50000 AND cfar_antal:2..10</query>
<wpquery>ba_postort:uppsala AND ba_gatuadress:vaksalagatan NOT ba_postnr:75320</wpquery>
```

This search query returns all companies which are active (statuskod:1), with a turnover from MSEK 20 to MSEK 50 and 2 to 10 workplaces, and located on Vaksalagatan, in Uppsala. It does not include those in the postcode area 75320.

wpfilter

The “wpfilter” element specifies how the workplace data is to be filtered. The parameters which can be used as filters are as follows:

Name of workplace – namn Area code
 of workplace – riktnr
 Area code + telephone number of workplace – riktnrtelnr
 SNI code of workplace – sni Visiting address
 Street name – ba_gatuadress
 Post code – ba_postnummer
 Town/city – ba_postort
 Municipality – ba_kommun
 County – ba_lan

Delivery address
 Street name – ua_gatuadress
 Post code – ua_postnummer
 Town/city – ua_postort
 Municipality – ua_kommun

County – ua_lan

Filter requests can be declared to wpfilter, for example: "ba_postort:stockholm" to filter companies with offices based in Stockholm:

```
<wpfilter>ba_postort:stockholm</wpfilter>
```

Alternatively, declare "riktnr:018" to find companies with offices located within the 018 area code (Uppsala).

```
<wpfilter>riktnr:018</wpfilter>
```

The main address of the company can be returned by specifying "hq":

```
<wpfilter>hq</wpfilter>
```

To return all workplaces, pass the value "all".

```
<wpfilter>all</wpfilter>
```

If no workplace data is to be returned, specify "none". This is also the default if wpfilter is empty.

```
<wpfilter>none</wpfilter>
```

Please note. wpid is an ID term for an address. Multiple companies can have the same wpid.

To update information on a workplace, use the "wpid" prefix. The current ID for the entry is passed to wpid. It should be noted that this ID should have been retrieved from BIWS previously. Either the CFAR ID, which is set by Statistics Sweden (SCB), or the company's corporate identity number are valid means of obtaining the main address.

```
<wpfilter>wpid:45960697</wpfilter>
```

The CFAR number is the eight-digit ID for workplaces held on the Statistics Sweden Business Register. The CFAR stays with the workplace following a change of ownership (and corporate identity number) if the entity continues operating in the same industry, at the same address and with the same personnel. If a workplace only changes its visiting address, that is, relocates its operations and personnel, the CFAR also stays the same.

As the owner of an entity linked to a wpid can change, this should be combined with a search for the corporate identity number. `<query>orgnr:5567307367</query>`

```
<wpfilter>wpid:45960697</wpfilter>
```

year

When requesting annual reports, the corporate identity number and "year" parameter must be declared. If "year" is not included, a list of available annual reports is returned.

2.4 Handling of results

For database searches, there is another part of the request where the structure of the result can be controlled, that is, the number, selection of and order in which entries are to appear.

| | | |
|-----------|------------|-------------------|
| • sort | expression | Sort field |
| • groupby | field | Group field |
| • records | from, to | Entry no. x to y |
| • fields | name | Columns retrieved |

sort

Data is sorted by entering a value in the expression attribute in the sort element:

```
<sort expression="oms_X">           – Sort by ascending turnover
<sort expression="oms_X desc">       – Sort by descending turnover
```

groupby

If the request type is “group”, this means the query is seeking a grouped result whereby data is grouped according to the values specified in the “field” attribute in the “groupby” element.

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="group">
<open_session key="BIWSKEYxxxxxxxxxxxxxxxxxxxxxx" />
<query>oms_X:>100000</query>
<wpfilter></wpfilter>
<year></year>
<response>
<sort field="orgnr" />
<groupby field="ba_postort" />
<records from="1" to="25" maxchars="0">
<field name="" />
</records>
</response>
</biwsXML_request>
```

The XML result returned consists of a list of localities and the number of companies in the locality which match the query. See also Managing results and sort options in Section 3.

records

The entries of the hits which are to be retrieved are specified in the “records” element within the request. The attributes “from” and “to” are used to create a range.

```
<records from="1" to="25">
```

field

The “field” element is used in order to obtain specific fields. The service has a default setting for fields which is returned if nothing is specified in the “field” element. The default setting is shown by submitting the type=”account”.

Read more about the result, XML response, in Section 3.

2.5 Requests via HTTP-GET

In their most basic form, queries via HTTP-GET consist of three parameters.

key – Customer ID type
– Type of request
query – Search query

The above would return data for company 5567307367 in an XML response.

This would return data on all of the law firms in Uppsala, provided the “sni” and “ba_postort” fields are permitted to be searchable for the customer.

The parameters which can be used for requests via HTTP-GET are:

key – Customer ID
type – account, find, fetch, index, arpdf, koncern
query – Query
wpfilter – Workplace filtering: “all” | “hq” | “none”, default “none” fields
– The fields to retrieve, must be registered in the user account sort – Sort
field [asc,desc] – must be one of the registered search fields
recfrom – Which record number to show results from recto
– Which record number to show results to
encoding – If output is to be generated in ISO-8859-1 rather than UTF-8

3. Results, XML response

3.1 Results, XML response for find and fetch

biwsXML_response obtains the result of a biwsXML_request. The difference between “find” and “fetch” is that the fields which can be retrieved via find are limited. This is because when BIWS searches are used for prospecting, and a list of hits is to be shown, “find” is used. When data on a company/workplace is to be retrieved to a CRM system, “fetch” must be used, as this enables access to all fields in the field description in Section 6.

A result set in which data on Retriever AB has been retrieved via the “find” type is shown below.

There is a client data section in the XML code within the <clientdata></clientdata> tags. “clientdata” displays the search query sent to the BIWS search engine and a message field, if there are remarks relating to the request. To find out more about the search language for the search function, see Section 4.1.

The <records> field includes the “total” attribute, which displays the number of search hits in the result. All of the companies found appear within the <records></records> tags.

The fields within <record></record> are those which have been selected to be returned.

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_response type="find">
<clientdata>
<message></message>
<query>orgnr: 5565861571</query>
<wpfilter></wpfilter>
</clientdata>
<records total="1">
<record nr="1">
<orgnr>5565861571</orgnr>
<jurnamn>Retriever Sverige AB</jurnamn>
<oms_X>23377</oms_X>
</record>
</records>
</biwsXML_response>
```

When the “fetch” type is used for the same result, the only difference to the output is the number of fields shown.

```
<biwsXML_response type="fetch">
<clientdata>
<message/>
<query>orgnr:5565861571</query>
<wpfilter></wpfilter>
</clientdata>
<records total="1">
<record nr="1">
<orgnr>5565861571</orgnr>
<jurnamn>Retriever Sverige AB</jurnamn>
<oms_X>23377</oms_X>
<mgmt type="vd">Söderling, Robert Carl Sture</mgmt>
<omsgrp>20 000 - 49 999 tkr</omsgrp>
<sni>
<code>62020</code>
<text>Datakonsultverksamhet</text>
</sni>
</record>
</records>
</biwsXML_response>
```

3.2 The number of records for find and fetch

There is an upper limit for the number of “records” generated per request. The total number of “records” found in the request is provided in the result as an attribute in the XML <records> field. The upper limit for the number of “records” generated is a setting in the service which can be adapted to the needs of the customer.

When data is to be retrieved for more companies/records than the limit value, the query must be run more than once. By using the recfrom and recto parameters in GET requests or

biwsXML/response@from and biwsXML/response@to in POST requests, you can specify which companies in the total number of hits that are to be returned.

3.3 Results, XML response for arpdf and arpdfstream

There are two types for retrieving annual reports: arpdf and arpdfstream. They work slightly differently, and are chosen depending on the environment in which the service is to be integrated.

For both types, an accounting year (<year></year>) must be specified in order for an annual report to be returned. If the accounting year is not specified, an XML response with available annual reports will be returned.

Here is an example of a response following a request for available annual reports.

```
<biwsXML_response type="arpdfstream">
<clientdata>
<message/>
<query>orgnr:5566105705</query>
<wpfilter/>
</clientdata>
<reports>
<orgnr>5566105705</orgnr>
<report>
<period>
<year>2007</year>
<tom>200712</tom>
<nrmon>12</nrmon>
</period>
<size>4.73</size>
</report>
<report>
<period>
<year>2006</year>
<tom>200612</tom>
<nrmon>12</nrmon>
</period>
<size>3.48</size>
</report>
</reports>
</biwsXML_response>
```

The arpdf type returns an annual report embedded in XML. In this case, the binary code for the PDF file is Base64 encoded, to ensure the binary code does not break the XML code, and also lies within CDATA sections.

Request:

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="arpdf">
<open_session key="Biwsd231a5a74fda4a0913152c4df3fc" />
<query>orgnr:5565861571</query>
<wpfilter></wpfilter>
```

```
<year>2007</year>
<response>
  <sort field="" />
  <groupby field="" />
  <records from="1" to="25">
    <field name="" />
  </records>
</response>
</biwsXML_request>
```

Response:

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_response type="arpdf">
<clientdata>
  <message></message>
  <query>orgnr:5565861571</query>
</clientdata>
<arpdf>
  <filename>Retriever_Sverige_AB_2007_12m.pdf</filename>
<pdfdata><![CDATA[JVBERi0xLjEgDSXi48/TDQoxIDAcb2JqDTw8IA0vVHlwZSAvQ2F0YWxvZyANL1
BhZ2VzIDMgMCBSIA0+Pg1lbmRvYmoNMu+qXwQbcVsVUVFLdrUXrfIkKHI1kdaKHev7YVMJhNNdR
XtpINL+OODh2bdcRDBCChMJgnhMK2FFMVCVKqqor4ililhhQmEGCqtqqhQmEvEREQwTCaaEW
....>
]]></pdfdata>
</arpdf>
</biwsXML_response>
```

The arpdfstream type returns the content of the PDF file immediately. Header information is sent which states that it is a PDF file.

3.4 Results for requests using the abregbevis type

The abregbevis type returns a PDF file containing the UC allabolag Certificate of Registration for a company. Header information is sent which states that a PDF file is being delivered, with the file searching for a suitable program at the end user. The request takes the following form:

Example of XML request

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="abregbevis">
  <open_session key="BIWSKEYxxxxxxxxxxxxxxxxxxxxxx" />
  <query>orgnr:5567104871</query>
</biwsXML_request>
```

3.7 Results, XML response for account

```
<field name="orgnr,jurnamn,oms_X,mgmt,omsgrp,sni" />
```

The default settings for the account are provided through the “account” type, with all other request data ignored.

```
<biwsXML_request type="account">
```

Result:

```
<biwsXML_response type="account">
<clientdata>
<message/>
<query>jurnamn:Retriever</query>
</clientdata>
<account_settings>
<client>Retriever</client>
<validtypes>find,fetch,group,form,arpdf,arpdfstream,koncern,breport,acc ount</validtypes>
<UCusr></UCusr>
<UCpass></UCpass>
<searchfields>orgnr,wpid,jurnamn,ba_postort,koncernmoder,mgmt,oms_X</searchfields>
<findfields>orgnr,jurnamn,ba_postort,oms_X,anst_X</findfields>
<fetchfields>orgnr,jurnamn,ba_postort,koncernmoder,mgmt,oms_X,anst_X,rorres_AB_X,sni,ftgtyp
</fetchfields>
<maxcols>10</maxcols>
<maxrows>500</maxrows> <groupby>ftgtyp</groupby>
<sort>oms_X</sort>
<ip>xxx.x.xx.xx</ip>
<block>0</block>
</account_settings> </biwsXML_response>
```

3.8 Results, XML response for status

To easily obtain the status of a company, for example, whether it is active or inactive, has merged, been declared bankrupt or entered into liquidation, the “status” type can be requested.

Retrieve status information about the company with the corporate identity number 5566373576:

The XML request only requires for “status” to be requested as the type – that is, type=”status” – with the corporate identity number also declared.

Request as XML:

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="status">
<open_session key="Biwsd231a5a74fda4a0913152c4df3fc" />
<query>orgnr:5566373576</query>
<wpfilter></wpfilter>
<year></year>
<response>
<sort field="" />
<groupby field="" />
<records from="1" to="25">
<field name="">
```

```
</records>
</response>
</biwsXML_request>
```

XML Result:

Response:

```
<?xml version="1.0" encoding="utf-8" ?>
<biwsXML_response type="status">
<clientdata>
<message />
<query>orgnr:5567307367</query>
<wpfilter />
</clientdata>
<records total="1">
<record nr="1">
<statusinfo>
<orgnr>5566373576</orgnr>
<regdatum>19980109</regdatum>
<avregdatum>20070330</avregdatum>
<statuskod>9</statuskod>
<statustxt>Bolaget är inaktivt</statustxt>
<statusdata>
<datum>20070102</datum>
<text>Likvidation avslutad</text>
<kod>31</kod>
<forgnr/>
</statusdata>
<taxdata>
<f_skatt>9</f_skatt>
<f_start>20030904</f_start>
<f_slut>20070222</f_slut>
<m_status>9</m_status>
<m_start>20030904</m_start>
<m_slut>20070222</m_slut>
</taxdata>
</statusinfo>
</record>
</records>
</biwsXML_response>
```

3.9 Articles of Association from the Swedish Companies Registration Office

The “bolagsordning” type returns a PDF file with the Articles of Association of a company obtained directly from the Swedish Companies Registration Office. Header information is sent which states that a PDF file is being delivered, with the file searching for a suitable program at the end user. The request takes the following form:

Example of XML request

```
<?xml version="1.0" encoding="utf-8"?> <biwsXML_request  
type="bolagsordning">  
  <open_session key="BIWSKEYxxxxxxxxxxxxxxxxxxxxxx" />  
  <query>orgnr:5567307367</query> </biwsXML_request>
```

3.10 Certificate of Registration from the Swedish Companies Registration Office

The “regbevis” type returns a PDF file with the Swedish Companies Registration Office Certificate of Registration for a company. Header information is sent which states that a PDF file is being delivered, with the file searching for a suitable program at the end user. The request takes the following form:

Example of XML request

```
<?xml version="1.0" encoding="utf-8"?>  
<biwsXML_request type="regbevis">  
  <open_session key="BIWSKEYxxxxxxxxxxxxxxxxxxxxxx" />  
  <query>orgnr:5567307367</query> </biwsXML_request>
```

4. Search function, examples of search queries

4.1 Syntax for search queries

The general search syntax used is Boolean, that is, handling the logical operators AND, OR and NOT. The mathematical operators for greater than and less than (“>” and “<”) can be used for all fields which contain numbers. All numerical fields are searchable by specifying a range, using “..” as the range operator. There are three different types for searches: type=”find”, type=”fetch” och type=”flow”. type=”find” is used in the example, if nothing else is specified.

Example 1.

Find the company with the corporate identity number 5566380738:

Corporate ID no.: 5566380738

Example 2.

Find the company called “Retriever”:

jurnamn: retriever

To obtain a list of hits sorted by relevance, type="flow" can be used, with the "what" field specified.

what: retriever

This means searches are conducted in a smarter way, with results sorted by relevance in accordance with different parameters.

Example 3.

Find the company with the corporate identity number of 566380738, where any data has been updated after 1 January 2009.

Corporate ID no.: 5566380738 AND datum14:>20090101000000

This is a good search to conduct if there is a register of companies to be kept up to date. Rather than retrieving all the information and checking if changes have occurred on the client side, this can be verified with the service, provided the client system knows when the information was last retrieved.

Example 4.

There are also more advanced search functions available at field level. Searches for words close to other words can be performed in the field for company names ("ftgnamn").

A company search including the words "tyre" and "transport" within two words of one another appears as follows:

ftgnamn: near(tyre transport,2,0)

Example 5.

Find all companies whose turnover is greater than MSEK 10 and less than MSEK 20:

oms_X:>=10000 AND oms_X:<=20000

The same search query can be written using the range operator "..":

oms_X: 10000..20000

Example 6.

Find all companies with a visiting address locality of Uppsala and the SNI code 62010 or 62020:

ba_postort: Uppsala AND sni:62010 OR 62020

Example 7.

Find all companies with between 10 and 15 employees, a turnover of between MSEK 10 and 20, an SNI code starting with 62 and located in Uppsala:

oms_X: 10000..20000 AND anst_X: 10..15 AND sni:62* AND ba_postort: Uppsala

4.2 The varningslista and varningsinfo fields

There are two fields in BIWS which indicate whether a company appears on an official warning list. These are “varningslista” and “varningsinfo”. The “varningslista” search field can also be used to search for specific lists, or both.

| Field | Description |
|---------------|---|
| varningslista | Returns details of warning list/s on which the company is registered. |
| varningsinfo | Returns additional information on the Company name, Product name, Telephone number and Postgiro/Bankgiro used by the company. |

varningslista search query: **SHV** retrieves all companies on the Swedish Trade Federation Warning list – search query **varningslista: FBV** retrieves all companies on the Förenade Bolag list. To retrieve both, enter: **varningslista: (SHV OR FBV)**.

These fields can of course be retrieved without searching for a warning list.

Please note. When requesting “varningsinfo”, the “nummer” field must also be retrieved in order to return additional information about the companies on the warning list.

The “varningslista” field can be obtained without retrieving additional fields.

4.3 Using wpfilter

To include the company's workplaces in the XML response for searches, the wpfilter element is to be used.

Information about workplaces is only returned if the “fetch” type is used.

The following can be passed to wpfilter:

- | | |
|------|---|
| all | – Returns all workplaces |
| hq | – Only returns head office |
| none | – No workplace returned. This is the default value, that is, if nothing is passed to wpfilter, no workplace data will be shown. |

To filter a specific record relating to a workplace, specify the field name followed by the text to be used for the filter:

Example 1.

Filter a search query to only return companies whose office is based in Uppsala:

Search query:

Find all companies with between 10 and 15 employees, a turnover of between MSEK 10 and 20, an SNI code starting with 62 and located in Uppsala:

```
<query>oms_X: 10000..20000 AND anst_X: 10..15 AND sni:62*</query>
```

Filter:

```
<wpfilter>ba_postort: Uppsala</wpfilter>
```

This request returns six companies with a total of 13 workplaces in Uppsala, with four of these workplaces also the main address of the company. This means two of the companies have their main address in another locality.

Example 2.

Return all workplaces for a search with the main address in Uppsala:

Search query:

Find all companies with between 10 and 15 employees, a turnover of between MSEK 10 and 20, an SNI code starting with 62 and located in Uppsala:

```
<query>oms_X: 10000..20000 AND anst_X: 10..15 AND sni:62* AND  
ba_postort:uppsala</query>
```

Filter:

```
<wpfilter>all</wpfilter>
```

This request returns four companies with a total of 11 workplaces in Uppsala.

[4.4 Search workplace data using wpquery and wpfilter](#)

The <wpquery /> element in BIWS makes it possible to perform more detailed searches for workplace addresses.

It works as follows:

1. The request includes the <wpquery></wpquery> element, in which all search fields available for <wpfilter> can be used, according to the documentation. These include: namn, riktnr, riktnrtelnr, sni, ba_gatuadress, ba_postnr, ba_postort, ba_kommun, ba_lan, ua_gatuadress, ua_postnr, ua_postort, ua_kommun, ua_lan.
2. The fields can be used in combination with the same syntax as the <query /> element. For example: ba_postort:uppsala AND ba_gatuadress:vaksalagatan NOT ba_postnr:75320.
3. The request shown above returns a result at company level. In order to obtain the right workplaces from the result, the <wpfilter> must also be used. Declaring <wpfilter>all</wpfilter> will return all of the company's workplaces, that is, addresses located on streets other than Vaksalagatan. However, by specifying <wpfilter>ba_gatuadress:vaksalagatan</wpfilter>, only workplaces located on Vaksalagatan will be returned.
4. The element can be combined with <query /> to request other company level data, such as the industry, size and status, etc.

4.4.1 Example of an extended request using

wpquery

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="fetch">
  <open_session key="hhkjewrhwerh4j543jhakjhsjkfhaskdfhj" />
  <query>statuskod:1 AND oms_X:2000..50000 AND cfar_antal:2..10</query>
  <wpquery>ba_postort:uppsala</wpquery>
  <wpfilter>ba_gatuadress:vaksalagatan</wpfilter>
  <year></year>
  <response>
    <sort field="orgnr" />
    <groupby field="abv_ugrupp" />
    <records from="1" to="100">
      <field name="orgnr,jurnamn,ba_gatuadress,statustxt" />
    </records>
  </response>
</biwsXML_request>
```

4.4.2 Example of a response to a request using wpquery

```
<?xml version="1.0" encoding="utf-8"?> <biwsXML_response
type="fetch">
  <clientdata>
    <message>Using not allowed fields for search</message>
    <query>statuskod:1 AND oms_X:2000..50000 AND cfar_antal:2..10</query>
    <wpquery>ba_postort:uppsala</wpquery>
```

```
<wpfilter>ba_gatuadress:vaksalagatan</wpfilter>
<saldo>99897,8</saldo>
</clientdata>
<records total="4">
  <record nr="1">
    <orgnr>5562104983</orgnr>
    <jurnamn>Aktiebolaget Aug. Johansson Skomodehus</jurnamn>
    <ba_gatuadress>Vaksalagatan 3</ba_gatuadress>
    <statustxt>Bolaget &#228;r aktivt</statustxt>
    <workplace type="hq">
      <orgnr>5562104983</orgnr>
    <cifar>10249951</cifar>
      <wpid>5562104983</wpid>
      <namn>Aktiebolaget Aug. Johansson Skomodehus</namn>
      <ba_gatuadress>Vaksalagatan 3</ba_gatuadress>
    <ba_postnr>75320</ba_postnr>
      <ba_postort>Uppsala</ba_postort>
    <ba_kommun>Uppsala</ba_kommun>
      <ba_lan>Uppsala 1&#228;n</ba_lan>
      <ua_gatuadress>Box 1011</ua_gatuadress>
    <ua_postnr>75140</ua_postnr>
      <ua_postort>Uppsala</ua_postort>
    <ua_kommun>Uppsala</ua_kommun>
      <ua_lan>Uppsala 1&#228;n</ua_lan>
    <riktnr>018</riktnr>
      <riktnrtelnr>018-139660</riktnrtelnr>
      <antanst>20-49</antanst>
      <sni>47721</sni>
    </workplace>
  </record>
  <record nr="2">
    <orgnr>5565000626</orgnr>
    <jurnamn>ABj F&#246;retaget Aktiebolag</jurnamn>
    <ba_gatuadress>S:t Olofsg. 12</ba_gatuadress>
    <statustxt>Bolaget &#228;r aktivt</statustxt>
    <workplace type="wp">
      <orgnr>5565000626</orgnr>
    <cifar>39289624</cifar>
      <wpid>39289624</wpid>
      <namn>Hallsenius Och Stenholms Begravningsbyr&#229;</namn>
      <ba_gatuadress>Vaksalag. 26</ba_gatuadress>
    <ba_postnr>75331</ba_postnr>
      <ba_postort>Uppsala</ba_postort>
    <ba_kommun>Uppsala</ba_kommun>
      <ba_lan>Uppsala 1&#228;n</ba_lan>
      <ua_gatuadress>Vaksalag. 26</ua_gatuadress>
    <ua_postnr>75331</ua_postnr>
      <ua_postort>Uppsala</ua_postort>
    <ua_kommun>Uppsala</ua_kommun>
      <ua_lan>Uppsala 1&#228;n</ua_lan>
      <riktnr>018</riktnr>
      <riktnrtelnr>018-656440</riktnrtelnr>
      <antanst>1-4</antanst>
      <sni>96030</sni>
    </workplace>
  </record>
  <record nr="3">
```

```

<orgnr>5566307475</orgnr>
<jurnamn>Siden Selma Aktiebolag</jurnamn>
<ba_gatuadress>Bredgränd 6</ba_gatuadress>
<statustxt>Bolaget är aktivt</statustxt>
<workplace type="wp">
  <orgnr>5566307475</orgnr>
<cfar>52773124</cfar>
  <wpid>52773124</wpid>
  <namn>Siden Selma Aktiebolag</namn>
  <ba_gatuadress>Vaksalagatan 22 F</ba_gatuadress>
<ba_postnr>75331</ba_postnr>
  <ba_postort>Uppsala</ba_postort>      <ba_kommun>Uppsala</ba_kommun>
  <ba_lan>Uppsala 1-n</ba_lan>
  <ua_gatuadress>Box 1441</ua_gatuadress>
<ua_postnr>75144</ua_postnr>
  <ua_postort>Uppsala</ua_postort>
  <ua_kommun></ua_kommun>
<ua_lan></ua_lan>
  <riktnr>018</riktnr>
  <riktnrtelnr>018-124250</riktnrtelnr>
  <antanst>1-4</antanst>
  <sni>47711</sni>
</workplace>
</record>

...
</records>
</biwsXML_response>

```

4.4.3 Example of an extended request using wpquery

```

<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="fetch">
  <open_session key="hhkjewrhkerh4j543jhakjhsjkfhaskdfhj" />
  <query>statuskod:1 AND oms_X:2000..50000 AND cfar_antal:2..10</query>
  <wpquery>ba_postort:uppsala AND ba_gatuadress:vaksalagatan NOT
ba_postnr:75320</wpquery>
  <wpfilter>ba_gatuadress:vaksalagatan</wpfilter>
  <year></year>
  <response>
    <sort field="orgnr" />
    <groupby field="abv_ugrupp" />
    <records from="1" to="100">
      <field name="orgnr,jurnamn,ba_gatuadress,statustxt" />
    </records>
  </response>
</biwsXML_request>

```

4.5 Information packages

A number of information packages can be requested which return an XML package containing data.

Information packages are available for:

| Description | Called with "fält" |
|--|--------------------|
| Address information Includes the following fields: ba_gatuadress, ba_postnr, ba_postort, ba_kommun, ba_lan, ua_gatuadress, ua_postnr, ua_postort, ua_kommun, ua_lan. | adressinfo |
| Basic information about companies, including accounting period, share capital, number of shares (total/highest/lowest), class of shares and voting power. | basinfo |
| Includes the following fields: rakper_slut, kallelse_stamma, aktiekapital, valuta, aktiekapital_lagst, aktiekapital_hogst, antalaktier_total, antalaktier_lagst, antalaktier_hogst, antalaktier_beskrivning, aktieslag, antalaktier_aktieslag, rostvarde_aktieslag. | |
| Accounting data. Returns a number of accounts fields and creates trend data for them based on the previous year's data. | bokslutsdata |
| Status info. The same data returned for type="status" requests, that is, the status of the company, F-tax registration, VAT, etc. Includes the following fields: orgnr, regdatum, bv_regdatum, scb_regdatum, scb_avregdatum, statuskod, statustxt, f_skatt, f_start, f_slut, m_status, m_start, m_slut, statdatakod, statdatatxt, statdataorg, statdatadat. Also indicates if the companies are registered on warning lists. | statusinfo |
| Status warning. Checks if the company is inactive or has entered into bankruptcy proceedings, or equivalent, and if it is included on a warning list. Returns 1 warning. Contains the following fields: statuskod, statustxt, statdatakod, statdatatxt, statdataorg. Also indicates if the companies are registered on warning lists. | statusvarning |

4.6 Historical data

Certain fields must be requested in order to retrieve historical data. These fields are not searchable, and only return data. The field names for historical data are provided in this documentation under "Field description".

When fields with historical data are retrieved, an additional field must always be included which indicates the period the data relates to. The field is called bokmanad_slut_AB for standard financial statements, and bokmanad_slut_KONC for consolidated financial statements.

A request for the details of historical turnover and equity-to-assets ratio for the company 5560014689 looks like this:

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="fetch">
<open_session key="hhkjewrhwkerh4j543jhakjhsjkfhaskdfhj" />
<query>orgnr:5560014689</query>
<wpfilter>none</wpfilter>
<year></year>
<response>
<sort field="orgnr" />
<groupby field="ba_postort" />
<records from="1" to="25">
<field name="orgnr,jurnamn,bokmanad_slut_AB,netoms_AB,solid_NT_AB" />
</records>
</response>
</biwsXML_request>
```

5. Updating retrieved entries

Once BIWS has been integrated for retrieval of information, the logical next step is to update this information. In order to avoid retrieving the same information again, it is possible to carry out update checks for the information which is currently held by BIWS. To utilise these services, mapping must be carried out between the internal system's data fields and the field names used by BIWS.

5.1 The checkUpdate and fetchUpdate types

The types to be used are checkUpdate and fetchUpdate.

- checkUpdate – compares data and gives details of the number of entries which are different.
- fetchUpdate – compares data and returns new data for the entries which are different.

5.2 Requests

The request to be created is similar for both types. The only difference is the “type” to be specified. One or more companies can be declared in the same request. Customer data which is specific to the internal system, and needs to be accessed in the response, can be declared in the “<external_data></external_data>” section. The section will be returned precisely as specified in the request.

Example:

```
<?xml version="1.0" encoding="iso-8859-1" ?>
<biwsXML_request type="checkUpdate">
  <open_session key="hjSDJhjkHjd472hjKjhJdjshj68sjs23" />
  <records>
    <record>
      <external_data>
        <isUpdated>false</isUpdated>
        <accountid>43f36df0-92ab-df11-aa37-001a6431d092</accountid>
      </external_data>
      <query>orgnr:5565542239</query>
      <biws_data>
        <ba_postort>Simrishamn</ba_postort>
        <jurnamn>T. Nordström Arkitekt Aktiebolag</jurnamn>
        <anst_X>2</anst_X>
        <resefinintokost_AB_X>-337</resefinintokost_AB_X>
        <ua_gatuadress>St. Rådmansg. 1</ua_gatuadress>
        <ba_gatuadress>St. Rådmansg. 1</ba_gatuadress>
        <oms_X>884</oms_X>
        <abv_hgrupp>Bygg-, Design- & Inredningsverksamhet</abv_hgrupp>
      <orgnr>5565542239</orgnr>
        <ua_postnr>27231</ua_postnr>
        <riktnrtefnr>0414-16284</riktnrtefnr>
        <abv_ugrapp>Arkitektverksamhet</abv_ugrapp>
      </biws_data>
    </record>
    <record>
      <external_data>
        <isUpdated>false</isUpdated>
        <accountid>44f36df0-92ab-df11-aa37-001a6431d092</accountid>
      </external_data>
      <query>orgnr:5562219476</query>
      <biws_data>
        <ba_postort>Stockholm</ba_postort>
        <jurnamn>T.S. Arkitekt Aktiebolag</jurnamn>
        <anst_X>1</anst_X>
        <resefinintokost_AB_X>163</resefinintokost_AB_X>
        <ua_gatuadress>Bastug. 5</ua_gatuadress>
        <ba_gatuadress>Bastug. 5</ba_gatuadress>
        <oms_X>287</oms_X>
        <abv_hgrupp>Bygg-, Design- & Inredningsverksamhet</abv_hgrupp>
      <orgnr>5562219476</orgnr>
        <ua_postnr>11820</ua_postnr>
        <riktnrtefnr>08-7145474</riktnrtefnr>
        <abv_ugrapp>Arkitektverksamhet</abv_ugrapp>
      </biws_data>
    </record>
  </records>
</biwsXML_request>
```

5.3 Response for checkUpdate

Only entries for which there is an update to retrieve will be returned. If all entries have been updated, an empty XML response is returned.

If there are updates to be retrieved, the number of fields is specified within the `<nrof_mismatch_items></nrof_mismatch_items>` element, with the fields to be updated declared in `<mismatch_fields></mismatch_fields>`.

Example where there is no update

```
<?xml version="1.0" encoding="iso-8859-1"?>
<biwsXML_response type="fetchUpdate">
  <clientdata>
    <message></message>
    <query>orgnr:5565542239</query>
    <wpfilter></wpfilter>
    <saldo>49497</saldo>
  </clientdata>
  <records total="0">
  </records>
</biwsXML_response>
```

Example where updates can be retrieved

```
<?xml version="1.0" encoding="iso-8859-1" ?>
<biwsXML_response type="checkUpdate">
  <clientdata>
    <message/>
    <query>orgnr:5565542239</query>
    <wpfilter/>
    <saldo>1593423</saldo>
  </clientdata>
  <records total="2">
    <record nr="1">
      <external_data>
        <isUpdated>false</isUpdated>
        <accountid>43f36df0-92ab-df11-aa37-001a6431d092</accountid>
      </external_data>
      <nrof_mismatch_items>2</nrof_mismatch_items>
      <mismatch_fields>jurnamn,resefinintokost_AB_X</mismatch_fields>
    </record>
    <record nr="2">
      <external_data>
        <isUpdated>false</isUpdated>
        <accountid>44f36df0-92ab-df11-aa37-001a6431d092</accountid>
      </external_data>
      <nrof_mismatch_items>2</nrof_mismatch_items>
      <mismatch_fields>resefinintokost_AB_X,ua_gatuadress</mismatch_fields>
    </record>
  </records>
</biwsXML_response>
```

5.4 Response for fetchUpdate

The `fetchUpdate` type returns the fields which need to be updated as well as the value which was submitted for the fields to be updated. The updated data is displayed in the element with the field

name, in accordance with the BIWS specification. The former value is shown in the <fältnamn_old></fältnamn_old> element.

Example of fetchUpdate, with the same request as in 5.3.

```
<?xml version="1.0" encoding="iso-8859-1" ?>
<biwsXML_response type="fetchUpdate">
<clientdata>
<message></message>
<query>orgnr:5565542239</query>
<wpfilter></wpfilter>
<saldo>1593423</saldo>
</clientdata>
<records total="2">
<record nr="1">
<external_data>
<isUpdated>false</isUpdated>
<accountid>43f36df0-92ab-df11-aa37-001a6431d092</accountid>
</external_data>
<jurnamn>T. Nordström Arkitekt Aktiebolag</jurnamn>
<jurnamn_old>Nordström Arkitekt Aktiebolag</jurnamn_old>
<resefinintokost_AB_X>-337</resefinintokost_AB_X>
<resefinintokost_AB_X_old>-37</resefinintokost_AB_X_old>
</record>
<record nr="2">
<external_data>
<isUpdated>false</isUpdated>
<accountid>44f36df0-92ab-df11-aa37-001a6431d092</accountid>
</external_data>
<resefinintokost_AB_X>163</resefinintokost_AB_X>
<resefinintokost_AB_X_old>563</resefinintokost_AB_X_old>
<ua_gatuadress>Bastug. 5</ua_gatuadress>
<ua_gatuadress_old>Bastug. 15</ua_gatuadress_old>
</record>
</records>
</biwsXML_response>
```

5.5 Checking workplace data

In order to return matches at workplace level, the company and corporate identity number must be specified, along with the <wpfilter /> field. The workplace ID to be checked is specified in <wpfilter />. Wpid is the company's corporate identity number if the head office data is to be checked. In other cases, the workplace is identified through the so-called CFAR ID, assigned by Statistics Sweden.

Example of a query for updating a workplace in the register:

Request:

```
<biwsXML_request type="checkUpdate">
<open_session key="<open_session key="hjSDJhjkHjd472hjKjhJdjshj68sjs23" />" />
<records>
<record>
<external_data>
<limeid>4383656092</limeid> </external_data>
<query>orgnr:5561375113</query>
<wpfilter>wpid:22766356</wpfilter>
```

```

<biws_data>
<namn>UC AB</namn>
<ba_gatuadress>Storgatan 5</ba_gatuadress>
<ba_postnr>41251</ba_postnr>
<ba_postort>Partille</ba_postort>
<ba_kommun>Partille</ba_kommun>
<ba_lan>Västra Götalands län</ba_lan>
<sni>58290, 62020</sni>
</biws_data> </record>
</records>
</biwsXML_request>

```

Response:

```

<?xml version="1.0" encoding="utf-8"?>
<biwsXML_response type="fetchUpdate">
<clientdata>
<message></message>
<query></query>
<wpquery></wpquery>
<wpfilter></wpfilter>
<saldo>99999376</saldo>
</clientdata>
<records total="1">
<record nr="1">
<query>orgnr:5561375113</query>
<wpfilter>wpid:22766356</wpfilter>
<external_data><limeid>4383656092</limeid></external_data>
<ba_gatuadress>G&#197;RDAv. 1</ba_gatuadress>
<ba_gatuadress_old>Storg. 5</ba_gatuadress_old>
<ba_postnr>41250</ba_postnr>
<ba_postnr_old>41251</ba_postnr_old>
<ba_postort>G&#246;teborg</ba_postort>
<ba_postort_old>Partille</ba_postort_old>
<ba_kommun>G&#246;teborg</ba_kommun>
<ba_kommun_old>Partille</ba_kommun_old>
<sni>82910</sni>
<sni_old>58290, 62020</sni_old>
</record>
</records>
</biwsXML_response>

```

6. Corporate events, search latest changes, findEvents, fetchEvents

All changes notified to BIWS databases can be retrieved by submitting special requests to BIWS. There may be a number of reasons to monitor information on, for example, the status, address or changes to the board of directors at companies.

6.1 Searching for changes, findEvents

type="findEvents" is used in order to search for corporate events and find out what type of information has been changed. Submitting type="findEvents" along with a corporate identity number and date returns the corporate events occurring from the specified date. If no date is provided, events from the previous day will be returned.

Request

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="findEvents">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
  <query>orgnr:5565998241</query>
  <cfrom>20101012</cfrom>
</biwsXML_request>
```

Response

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_response type="findEvents">
  <clientdata>
    <message></message>
    <query>orgnr:5565998241</query>
    <wpfilter></wpfilter>
    <saldo>983728</saldo>
  </clientdata>
  <records total="3">

    <record eid="4805137">
      <source>Bolagsverket</source>
      <orgnr>5565998241</orgnr>
      <date>20101012</date>
      <time>05:20</time>
      <event>Styrelseuppgift</event>

      <changes>
        <ftext>Styrelse</ftext>
        <fname>funktioner</fname>
      </changes>
    </record>
    <record eid="4804871">
      <source>Bolagsverket</source>

      <orgnr>5565998241</orgnr>
      <date>20101012</date>
      <time>05:20</time>
      <event>Bolagsstatus</event>
      <changes>
        <ftext>Likvidation, status</ftext>

        <fname>litxt</fname>
        <ftext>Likvidation, beslutsdatum</ftext>
        <fname>lbesldat</fname>
      </changes>
    </record>
    <record eid="4804210">
      <source>Bolagsverket</source>

      <orgnr>5565998241</orgnr>
      <date>20101012</date>
      <time>05:20</time>
      <event>Bolagsuppgift</event>
      <changes>
```

```

<ftext>Gatuadress</ftext>

<fname>gata</fname>
<ftext>Postnummer</ftext>
<fname>postnr</fname>
<ftext>Firmatecknare</ftext>
<fname>ftrad</fname>
</changes>

</record>
</records>
</biwsXML_response>

```

<efilter> can be added to the request to filter out specific types of events, such as changes to the address or the status of a company.

To only obtain changes to address:

Request

```

<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="findEvents">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
  <query>orgnr:5565998241</query>
  <cfrom>20101012</cfrom>
  <efilter>fname:gata</efilter>
</biwsXML_request>

```

To only obtain changes to the company status:

Request

```

<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="findEvents">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
  <query>orgnr:5565998241</query>
  <cfrom>20101012</cfrom>
  <efilter>event:Bolagsstatus</efilter>
</biwsXML_request>

```

Using “findEvents” along with fetchUpdate can be a good way of keeping a register up to date. See Section 8 for more details.

6.2 Retrieve full details of companies where changes have occurred, fetchEvents

fetchEvents can be used in order to obtain additional information on events. The individual changes are returned in the <changes /> tags, with a textual description of the event provided in HTML format in the <story /> tags.

“eid” – the identity of each event – can be passed in “fetchEvents”. If details of events are initially retrieved with findEvents, the “eid” returned can be used to obtain additional information about a particular event.

Request

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="fetchEvents">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
  <query>orgnr:5565998241</query>
  <cfrom>20101012</cfrom>
</biwsXML_request>
```

Response

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_response type="fetchEvents">
  <clientdata>
    <message></message>
    <query>orgnr:5565998241</query>
    <wpfilter></wpfilter>
    <saldo>983728</saldo>
  </clientdata>
  <records total="3">

    <record eid="4805137">
      <source>Bolagsverket</source>
      <orgnr>5565998241</orgnr>
      <date>20101012</date>
      <event>&#196;ndrad styrelseuppgift</event>
      <changes>
        <ftext>Styrelse</ftext>

        <fname>funktioner</fname>
        <new>&#214;berg, Kjell Peter, LI</new>
      <old>Isaksson, Sven-Isak, LE</old>
        <old>Isaksson, Margareta Kristin, SU</old>
      </changes>
      <story><![CDATA[
<b>NYA UPPGIFTER</b>
<b>Styrelse:</b>
- &Ouml;berg, Kjell Peter (f.1970), Likvidator

<b>TIDIGARE UPPGIFTER</b>

<b>Styrelse:</b>
- Isaksson, Sven-Isak (f.1946), Styrelseledamot, Ordf&ouml;rande
- Isaksson, Margareta Kristin (f.1947), Styrelsесупплеант

<b>FAKTA OM BOLAGET</b>

<b>Namn:</b> Omframt AB
<b>Organisationsnummer:</b> 5565998241
<b>Registreringsdatum:</b> 20001106
<b>Ort:</b> Ume&aring;
```

Postnr: 90323
Län: Västerbottens län
Bransch: Förvaltning & Handel med Värdepapper
Omsättnings: 994 tkr.

]]></story>
</record>

<record eid="4804871">
 <source>Bolagsverket</source>
 <orgnr>5565998241</orgnr>
<date>20101012</date>
 <event>Ny bolagsstatus</event>
 <changes>
 <ftext>Likvidation, status</ftext>

 <fname>litxt</fname>
 <new>Likvidation beslutad</new>
 <old></old>
 <ftext>Likvidation, beslutsdatum</ftext>
 <fname>lbesldat</fname>
<new>20101005</new> <old></old>
 </changes>
 <story><! [CDATA[
NYA UPPGIFTER

Likvidation, status: Likvidation beslutad
Likvidation, beslutsdatum: 20101005

FAKTA OM BOLAGET

Namn: Omframt AB
Organisationsnummer: 5565998241
Registreringsdatum: 20001106
Ort: Ume&aaring;
Postnr: 90323
Län: Västerbottens län

Bransch: Förvaltning & Handel med Värdepapper
Omsättnings: 994 tkr.

]]></story>
</record>
<record eid="4804210">

```
<source>Bolagsverket</source>
<orgnr>5565998241</orgnr>
<date>20101012</date>

<event>&#196;ndrad bolagsuppgift</event>
<changes>
  <ftext>Gatuadress</ftext>
  <fname>gata</fname>
<new></new>
  <old>Brogatan 19</old>
  <ftext>Postnummer</ftext>

  <fname>postnr</fname>
<new>903 25</new>
  <old>903 23</old>
  <ftext>Firmatecknare</ftext>
  <fname>ftrad</fname>
  <new>/ Firman tecknas ensam av / &gt;likvidatorn</new>

  <old>/ Firman tecknas var f&#246;r sig av / &gt;ledamoten /
&gt;suppleanten</old>
</changes>
<story><! [CDATA[

<b>NYA UPPGIFTER</b>

<b>Postnummer:</b> 903 25
<b>Firmatecknare:</b>
  Firman tecknas ensam av , likvidatorn


<b>TIDIGARE UPPGIFTER</b>

<b>Gatuadress:</b> Brogatan 19
<b>Postnummer:</b> 903 23
<b>Firmatecknare:</b>
  Firman tecknas var f&ouml;r sig av , ledamoten , suppleanten

<b>FAKTA OM BOLAGET</b>

<b>Namn:</b> Omframt AB
<b>Organisationsnummer:</b> 5565998241
<b>Registreringsdatum:</b> 20001106
<b>Ort:</b> Ume&aaring;
<b>Postnr:</b> 90323
<b>L&auml;n:</b> V&auml;sterbottens l&auml;n

<b>Bransch:</b> F&ouml;rvaltning &amp; Handel med V&auml;rdepapper
<b>Oms&auml;ttnings:</b> 994 tkr.
```

```
]]></story>
</record>
</records>
</biwsXML_response>
```

6.3 Retrieving corporate events as an RSS feed

By adding the `<btype />` element when calling corporate events via `fetchEvents`, the result can be created in the form of an RSS feed.

Request

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="fetchEvents">
  <open_session key="Biwsd231a5a74fda4a0913152c4df3fc" />
  <query>orgnr:5565998241</query>
  <cfrom>20101012</cfrom>
  <btype>RSS</btype>
</biwsXML_request>
```

In RSS readers, requests are usually specified as GET-URL, that is, the web address. The above request can be actioned as follows:

7. Monitoring service, notification of changed data

To facilitate maintenance of a register, BIWS provides a monitoring service enabling your register to be mirrored. This means that a request can be made to BIWS providing only a date, with details returned of what has taken place at the companies in your register since the last specified date. The corporate identity number can also be added, in order to find out what has happened at a specific company.

The “do” method is provided to administrate mirroring, with “enable”, “disable”, “reset” and “list” the permitted values.

7.1 Add/remove companies under monitoring, handleMonitor

Add companies under Monitoring, “enable”. When a corporate identity number is added for monitoring, the request must contain the name and corporate identity number.

Request for adding a company to Monitoring.

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="handleMonitor">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
  <query>orgnr:5568085483</query>
  <name>Bergåsa HVB AB</name>
  <do>enable</do>
</biwsXML_request>
```

Request for adding one or more companies to Monitoring.

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="handleMonitor">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
  <morgnr>5568085483 5565352431 5565355343 5565772737 5567072839 5567921621
  5560005158</morgnr>
  <do>enable</do>
</biwsXML_request>
```

There is an upper limit of 10,000 for the number of companies which can be added to a request.

Please note. If nothing is declared within “<name />”, BIWS will retrieve the relevant company name for the corporate identity number and use it as the name of the task.

The result

The result includes information on how the request was processed. If everything is OK, “ok” is returned within the result tags. If not, an error message is returned beginning “Failed”. This also returns a “bid”, which is a foreign key for the entry in Monitor.

```
<biwsXML_response type="handleMonitor">
  <clientdata>
    <message/>
    <query>orgnr:5568085483</query>
    <wpfilter/>
    <saldo>983984</saldo>
  </clientdata>
  <monitor>
    <orgnr>5568085483</orgnr>
    <action>enable</action>
    <result>ok</result>
    <bid>200006</bid>
  </monitor> </biwsXML_response>
```

Request for listing relevant subjects under Monitoring.

"list" is used in order to list the current tasks under Monitoring.

The registered companies for the relevant key are listed as follows:

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="handleMonitor">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
  <do>list</do>
</biwsXML_request>
```

Remove a company under Monitoring, "disable"

"bid" is used in order to identify an entry under Monitoring. "bid" is returned when a monitoring task is created. Ordinarily, a monitoring task can also be identified through "key" and "orgnr".

Request

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="handleMonitor">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
  <query>orgnr:5568085483</query>
  <bid>200013</bid>
  <do>disable</do>
</biwsXML_request>
```

Respons

```
<biwsXML_response type="handleMonitor">
  <clientdata>
    <message/>
    <query>orgnr:5568085483</query>
    <wpfilter/>
    <saldo>983984</saldo>
  </clientdata>
  <monitor>
    <orgnr>5568085483</orgnr>
    <action>disable</action>
    <result>ok</result>
    <bid>200013</bid>
  </monitor>
</biwsXML_response>
```

Remove one or more companies under Monitoring with "disable"

In the same way as "enable", multiple objects can be disabled simultaneously by using <morgnr />.

Request

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="handleMonitor">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
  <morgnr>5568085483 5565352431 5565355343 5565772737 5567072839 5567921621
  5560005158</morgnr>
  <do>disable</do>
</biwsXML_request>
```

Remove all companies under Monitoring, “reset”

Monitoring tasks can easily be purged, that is, fully cleared, by using the “reset” command.

Request

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="handleMonitor">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
  <do>reset</do>
</biwsXML_request>
```

7.2 Retrieve details of the companies which have undergone changes, checkMonitor

type="checkMonitor" is used in order to retrieve details of the companies where changes have taken place. In its most basic form, the query contains only key and type. This returns all updates since the day before for every company added to the Monitor service. The result is the same as for "findEvents" in Section 6.1.

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="checkMonitor">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
</biwsXML_request>
```

The orgnr, bid (ID in Monitor for a monitoring task) or cfrom (the date from which changes are to be checked) can be added to the request. In most cases it is not necessary to use “bid”, as key and orgnr constitute a valid key.

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="checkMonitor">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
  <query>orgnr:5565998241</query>
  <cfrom>20101012</cfrom>
</biwsXML_request>
```

The result

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_response type="checkMonitor">
  <clientdata>
    <message></message>
    <query>orgnr:5565998241</query>
```

```

<wpfilter></wpfilter>
<saldo>983728</saldo>
</clientdata>
<records total="3">

<record eid="4805137">
<source>Bolagsverket</source>
<orgnr>5565998241</orgnr>
<date>20101012</date>
<time>05:20</time>
<event>Styrelseuppgift</event>

<changes>
<ftext>Styrelse</ftext>
<fname>funktioner</fname>
</changes>
</record>
<record eid="4804871">
<source>Bolagsverket</source>

<orgnr>5565998241</orgnr>
<date>20101012</date>
<time>05:20</time>
<event>Bolagsstatus</event>
<changes>
<ftext>Likvidation, status</ftext>

<fname>liltxt</fname>
<ftext>Likvidation, beslutsdatum</ftext>
<fname>lbesldat</fname>
</changes>
</record>
<record eid="4804210">
<source>Bolagsverket</source>

<orgnr>5565998241</orgnr>
<date>20101012</date>
<time>05:20</time>
<event>Bolagsuppgift</event>
<changes>
<ftext>Gatuadress</ftext>
<fname>gata</fname>
<ftext>Postnummer</ftext>
<fname>postnr</fname>
<ftext>Firmatecknare</ftext>
<fname>ftrad</fname>
</changes>
</record>
</records>
</biwsXML_response>

```

<filter> can be added to the request to filter out specific types of events, such as changes to the address or the status of a company.

To only obtain changes to address:

Request

```

<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="checkMonitor">
```

```
<open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
<query>orgnr:5565998241</query>
<cfrom>20101012</cfrom>
<efilter>fname:gata</efilter>
</biwsXML_request>
```

To only obtain changes to the company status:

Request

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="checkMonitor">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
  <query>orgnr:5565998241</query>
  <cfrom>20101012</cfrom>
  <efilter>event:Bolagsstatus</efilter>
</biwsXML_request>
```

7.3 Retrieve corporate events as an RSS feed

By adding the `<btype />` element when calling `checkMonitor`, the result will be created in the form of an RSS feed.

Request

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="checkMonitor">
  <open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
  <cfrom>20131012</cfrom>
  <btype>RSS</btype>
</biwsXML_request>
```

In RSS readers, requests are usually specified as GET-URL, that is, the web address. The above request can be actioned as follows:

8. Workflow for updating register

There are different ways of using BIWS in order to keep a register updated.

A conceivable workflow is outlined below:

1. Add all of the companies' corporate identity numbers in Monitor through `handleMonitor`.
2. Check if the companies in your register need to be updated with `checkUpdate`, and then action the update with `fetchUpdate` if required.
3. Run the `checkMonitor` request daily in order to see which companies have been updated. Then, run `fetchUpdate` for these companies.

9. Industry key ratios

Key ratios for industries can be retrieved from BIWS. The industry categories which can be used are the allabolag classification, on two levels, or the five-digit SNI code. The result is either returned for the whole industry, or broken down in accordance with the size of the turnover. It is also possible to specify the number of years for which data is to be returned, or declare a specific year.

Search field for industry codes:

Allabolag main groups: **abv_hgrupp**
Allabolag sub-groups: **abv_ugrupo** Five-digit
SNI: **sni_kod**

Codes for turnover ranges:

| | |
|----|-------------------------|
| 99 | Whole industry |
| 0 | No turnover |
| 1 | < SEK 1 thousand |
| 2 | 1–499 thousand |
| 3 | 500–999 thousand |
| 4 | 1,000–9,999 thousand |
| 5 | 10,000–49,999 thousand |
| 6 | 50,000–499,999 thousand |
| 1 | > SEK 499,999 thousand |

If no specific turnover range is declared in the search query, data from the industry as a whole is returned.

Search for industry data for a specific year

You can specify the year for which you wish to retrieve data by declaring, for example: "... AND year:2013".

Specify number of years in the result

In the response section of the search query, you can specify the number of years for which data is to be returned, as follows: <records from="1" to="3"> where "from" is the last year which has been calculated and "to" is the number of years for which the result is required.

Accounting figures and key ratios with industry averages calculated

The following fields are calculated with industry data (for translations of field names, see Section 10):

antanst, aretsres, avkegetkap_nt, avktotkap_nt, brures, brutvinstmarg_nt, dupontmod_nt, kapomshast_nt, kasslikvid_nt, kostperanst_nt, kundfodavoms_nt, lageravoms_nt, lageromshats_nt, lonovranst, lonstyrvd, minorint, netoms, nettmarg_nt, omsandr_nt, omsanst_nt, ranttackgrad_nt, resefinintokost, riskbuff_nt, rorkapavoms_nt, rormarg_nt, rorres, samavs, skuldranta_nt, skuldsattgrad_nt, sockost, solid_nt, sumanlttil, sumegkap, sumegkapsk, sumkfskuld, sumlfskuld, sumobesres, sumomstil, sumtil, tecejinbkap, varavreslonovranst, varavtantiemstyrvd, vinstmarg_nt

9.1 Example of a search query for industry statistics

This search query uses all of the search parameters in order to demonstrate what is possible.

Request:

```
<?xml version="1.0" encoding="utf-8"?>
<biwsXML_request type="bransch">
<open_session key="BIWSJhjkHjd472hjKjhJdjshj68sjs23" />
<query>brtype:abv_ugrapp AND brid:ICKE SPEC. HANDEL MED LIVSMEDEL, PARTI-
HANDEL AND year:<2014 AND omsgrp:99</query>
<response>
<sort field="orgnr" />
<groupby field="ba_postort" /> <records
from="1" to="3">
<field name="omsandr_NT,aretsres" />
</records>
</response>
```

Response:

```
<?xml version="1.0" encoding="utf-8"?> <biwsXML_response
type="bransch">
<clientdata>
<message></message>
<query>brtype:abv_ugrapp AND brid:ICKE SPEC. HANDEL MED LIVSMEDEL,
PARTIHANDEL AND year:<2014 AND omsgrp:99</query>
<wpquery></wpquery>
<wpfilter></wpfilter>
<saldo>99999376</saldo>
</clientdata>
<records total="14">
<record nr="1">
<year nr="2013">
<omsgrp nr="99">
<field name="aretsres">
<count>213</count>
<avg>1753,38</avg>
<min>-10646</min>
<max>102730</max>
<median>78</median>
```

```
<upper>675</upper>
<lower>-7</lower>
</field>
<field name="omsandr_NT">
<count>213</count>
<avg>12,18</avg>      <min>-100</min>
<max>2363,74</max>
<median>0</median>
<upper>7,58</upper>
<lower>-11,95</lower>
</field>
</omsgrp>
</year>
</record>
<record nr="2">
<year nr="2012">
<omsgrp nr="99">
<field name="omsandr_NT">
<count>223</count>
<avg>34,51</avg>      <min>-100</min>
<max>4265,91</max>
<median>0</median>
<upper>10,59</upper>
<lower>-7,21</lower>      </field>
<field name="aretsres">
<count>223</count>      <avg>567,86</avg>
<min>-79949</min>
<max>41989</max>
<median>58</median>
<upper>551</upper>
<lower>-15</lower>
</field>
</omsgrp>
</year>
</record>
</records>
</biwsXML_response>
```

10. Support

10.1 Support requests

For questions and support, contact:

abteknik@allabolag.se

11. Available fields

11.1 Description of field

The description contains the name and description of the field as well as its “type” (text or integer). If the field is searchable, an x will appear in the SEARHC column. If the field can be used to filter workplaces, an “x” is entered in the WP column.

| FIELD | DESCRIPTION | SEARC H | WP |
|---------------|--|------------|----|
| orgnr | The personal/corporate identity number of the subject (for personal identity numbers, the last four digits are replaced by letters) | x | |
| ftgtyp | AB,EB,EF,EK,FI,HK,BF,IF,OV,SA,SF,SK,VP | x | |
| jurnamn | name of company (business name) | x | |
| ftgnamn | jurnamn, popular, alias, bors_namn (use this field when searching for the company name) | x | |
| bv_regdatum | Date of registration with Swedish Companies Registration Office | x | |
| scb_regdatum | Date of registration with Statistics Sweden | | |
| f_skatt | 0 Has never been registered for F-tax, 1 Registered for F-tax, 9 Deregistered for F-tax | x | |
| status code | 1=active, 9=inactive, based on data from Statistics Sweden and the Swedish Companies Registration Office | x | |
| m_grupp | 0 Does not belong to a Swedish Tax Authority VAT group, 1 Reports VAT, <= MSEK 40, 5 Reports for full year, trading partnerships, max SEK 200,000, 6 Reports VAT, > MSEK 40, 7 Reports VAT in income tax return, < MSEK 1. | x | |
| m_status | Specifies the VAT status of the company | x | x |
| ba_gatuadress | Visiting address – street name, number and entrance | x | x |

| | | | |
|---------------|--|---|---|
| ba_postnr | Visiting address – postcode of representative | x | x |
| ba_postort | Visiting address – town/city | x | x |
| ba_kommun | Visiting address – municipality | x | x |
| ba_lan | Visiting address – county | x | x |
| ua_gatuadress | Delivery address – street name, number and entrance | x | x |
| ua_postnr | Delivery address – postcode of representative | x | x |
| ua_postort | Delivery address – town/city | x | x |
| ua_kommun | Delivery address – municipality | x | x |
| ua_lan | Delivery address – county | x | x |
| municipality | municipality visiting address | | |
| kommun_kod | municipality code visiting address | x | |
| county | county visiting address | x | |
| lan_kod | county code visiting address (use for zoom) | x | |
| riktnrtelnr | area code and telephone number | x | |
| riktnr | area code | x | |
| telnr | telephone number | x | |
| telefax | Telefax | | |
| publ | indicates that the company is a public limited-liability company | x | |
| priv | indicates that the company is a private limited-liability company | x | |
| bors_bolag | Set to 1 for listed companies | x | |
| bors_listaid | Aktietorget, BeQuoted, LargeCap, MidCap, SmallCap, NGMEquity, FirstNorth | x | |
| sni | SNI code and designation | x | x |

x

| | | |
|-----------------------|---|---|
| oms_X | Uses the turnover which is most relevant for sorting | |
| anst_X | number of employees | x |
| mgmt | Returns CEO or equivalent position | x |
| rvaluta | Accounting currency, "SEK" or "EURO" | |
| datum14 | Information last updated, yyyyymmddhhiiss | x |
| bolord | Free text, operational description from Articles of Association | x |
| cfar_antal | Number of workplaces | x |
| koncernmoder | name of company's main parent company and corporate identity number | x |
| parent | name of company's parent company and corporate identity number | x |
| subsidiaries | name of subsidiary and corporate identity number | |
| what | orgnr, ftgnamn, bpfirma, dottrar_namn, cfar_namn, pers_namn, funk_namn, abv_x, bors_x, cfar_allanummer, cfar_namn | x |
| var | postort, kommun, lan, riktnr, cfar_gatuadress, cfar_postnr, cfar_postort, cfar_kommun, cfar_lan, cfar_riktnr | x |
| bokmanad_slut_KONC_X | end of accounting period - consolidated financial statements | x |
| bokmanad_slut_AB_X | end of accounting period | x |
| netoms_KONC_X | net turnover - consolidated financial statements | x |
| netoms_AB_X | net turnover | x |
| rorres_KONC_X | operating profit - consolidated financial statements | x |
| rorres_AB_X | operating profit | x |
| reseinintokost_KONC_X | profit after net financial items - consolidated financial statements | x |
| reseinintokost_AB_X | profit after net financial items | x |
| aretsres_KONC_X | profit for the year - consolidated financial statements | x |
| aretsres_AB_X | profit for the year | x |

x

| | | |
|--------------------|--|---|
| sumkasobank_KONC_X | total cash and bank balances - consolidated financial statements | x |
| sumkasobank_AB_X | Total cash and bank balances | x |
| sumtil_KONC_X | total assets - consolidated financial statements | x |
| sumtil_AB_X | total assets | x |
| sumegkap_KONC_X | total equity - consolidated financial statements | |
| sumegkap_AB_X | total equity | x |
| sumegkapsk_KONC_X | total equity and liabilities - consolidated financial statements | x |
| sumegkapsk_AB_X | total equity and liabilities | x |
| antanst_KONC_X | number of employees - consolidated financial statements | x |
| antanst_AB_X | number of employees | x |

SEARCHABLE KEY RATIOS

| | | |
|-----------------------|---|---|
| andrtotkap_NT_KONC_X | change in total equity - consolidated financial statements - key ratios | x |
| andrtotkap_NT_AB_X | change in total equity - key ratios | x |
| kostperanst_NT_KONC_X | personnel costs per employee - consolidated financial statements - key ratios | x |
| kostperanst_NT_AB_X | personnel costs per employee - key ratios | x |
| omsandr_NT_KONC_X | change in turnover - consolidated financial statements - key ratios | x |
| omsandr_NT_AB_X | change in turnover - key ratios | x |
| omsanst_NT_KONC_X | turnover per employee - consolidated financial statements - key ratios | x |
| omsanst_NT_AB_X | turnover per employee - key ratios | x |
| vinstmarg_NT_KONC_X | profit margin - consolidated financial statements - key ratios | x |
| vinstmarg_NT_AB_X | profit margin - key ratios | x |

x

| | | |
|----------------------|--|---|
| avktotkap_NT_KONC_X | return on total capital - consolidated financial statements - key ratios | x |
| avktotkap_NT_AB_X | return on total capital - key ratios | x |
| avkegetkap_NT_KONC_X | return on equity - consolidated financial statements - key ratios | x |
| avkegetkap_NT_AB_X | return on equity - key ratios | x |
| kasslikvid_NT_KONC_X | quick ratio - consolidated financial statements - key ratios | x |
| kasslikvid_NT_AB_X | quick ratio - key ratios | x |
| solid_NT_KONC_X | Equity-to-assets ratio - consolidated financial statements - key ratios | x |
| solid_NT_AB_X | Equity-to-assets ratio - key ratios | |

FIELDS WITH ACCOUNTING HISTORY

| | |
|-----------------|--|
| admkost_KONC | Administration costs - consolidated financial statements - history |
| admkost_AB | Administration costs |
| agartillsk_KONC | Shareholder's contribution - consolidated financial statements - history |
| agartillsk_AB | shareholder's contribution |
| akagtillsk_AB | shareholder's contribution paid/received |
| akagtillsk_KONC | shareholder's contribution paid/received - consolidated financial statements - history |
| akap_AB | share capital |
| akap_KONC | share capital - consolidated financial statements - history |
| aktarber_KONC | capitalised work on own account – consolidated financial statements - history |
| aktarber_AB | capitalised work on own account |
| andavlager_AB | change in inventory, etc. |

x

| | |
|--------------------|--|
| | change in inventory etc. - consolidated financial statements - history |
| andavlager_KONC | |
| andkoncoint_AB | participations in group companies and associates |
| | participations in group companies and associates - consolidated financial statements - history |
| andkoncoint_KONC | |
| antanst_AB | number of employees |
| | number of employees - consolidated financial statements - history |
| antanst_KONC | |
| aretsres_KONC | profit for the year - consolidated financial statements - history |
| aretsres_AB | profit for the year |
| avskinadmkost_AB | depreciation in administration costs |
| | depreciation in administration costs - consolidated financial statements - history |
| avskinadmkost_KONC | |

| | |
|---------------------|--|
| avskinforskost_KONC | depreciation in sales costs - consolidated financial statements - history |
| avskinforskost_AB | depreciation in sales costs |
| avskinfoukost_KONC | depreciation in R&D costs - consolidated financial statements - history |
| avskinfoukost_AB | depreciation in R&D costs |
| avskinksv_KONC | depreciation in cost of goods sold - consolidated financial statements - history |
| avskinksv_AB | depreciation in cost of goods sold |
| avskinovrkost_KONC | depreciation in other costs - consolidated financial statements - history |
| avskinovrkost_AB | depreciation in other costs |
| avskr_KONC | depreciation - consolidated financial statements - history |
| avskr_AB | depreciation |
| avtalavg_KONC | agreed resignations - consolidated financial statements - history |
| avtalavg_AB | agreed resignations |
| balres_KONC | profit brought forward - consolidated financial statements - history |
| balres_AB | profit brought forward |
| balutgfou_AB | capital expenditures (R&D) |
| balutgfou_KONC | capital expenditures (R&D) - consolidated financial statements - history |
| bevcheckred_AB | overdraft facility sanctioned |
| bevcheckred_KONC | overdraft facility sanctioned - consolidated financial statements - history |
| bokdisp_AB | appropriations |
| bokdisp_KONC | appropriations - consolidated financial statements - history |
| bokmanad_slut_KONC | end of accounting period - consolidated financial statements - history |
| bokmanad_slut_AB | end of accounting period |

| | |
|--------------------|---|
| bokslut_langd_KONC | term of accounting period - consolidated financial statements - history |
| bokslut_langd_AB | term of accounting period |
| bolprot_KONC | corporate minutes - consolidated financial statements - history |
| bolprot_AB | corporate minutes |
| brures_KONC | gross profit - consolidated financial statements - history |
| brures_AB | gross profit |
| byggomark_AB | land and buildings |
| byggomark_KONC | Land and buildings - consolidated financial statements - history |
| extordint_AB | extraordinary income |
| extordint_KONC | extraordinary income - consolidated financial statements - history |
| extordkost_AB | extraordinary costs |
| extordkost_KONC | extraordinary costs - consolidated financial statements - history |
| extrantint_AB | external interest income |
| extrantint_KONC | external interest income - consolidated financial statements - history |
| extrantkost_KONC | external interest expense - consolidated financial statements - history |
| extrantkost_AB | external interest expense |
| fastinteck_KONC | property mortgages - consolidated financial statements - history |
| fastinteck_AB | property mortgages |
| fordhkoncoint_AB | receivables from group companies and associates |
| fordhkoncoint_KONC | receivables from group companies and associates - consolidated financial statements - history |
| fordpkoncoint_AB | receivables to group companies and associates |
| fordpkoncoint_KONC | receivables to group companies and associates - consolidated financial statements - history |
| forkost_AB | sales costs |
| forkost_KONC | sales costs - consolidated financial statements - history |
| foukost_AB | R&D costs |

| | |
|-------------------|--|
| foukost_KONC | R&D costs - consolidated financial statements - history |
| ftginteck_AB | floating charges |
| ftginteck_KONC | floating charges - consolidated financial statements - history |
| goodwill_KONC | goodwill - consolidated financial statements - history |
| goodwill_AB | goodwill |
| handvar_KONC | goods for resale - consolidated financial statements - history |
| handvar_AB | goods for resale |
| ingkoncred_KONC | no consolidated accounts - consolidated financial statements - history |
| ingkoncred_AB | no consolidated accounts |
| inkinkonc_KONC | purchases within group - consolidated financial statements - history |
| inkinkonc_AB | purchases within group |
| inventarier_AB | equipment |
| inventarier_KONC | equipment - consolidated financial statements - history |
| jmfstfinpost_AB | comparison affecting financial items |
| jmfstfinpost_KONC | comparison affecting financial items - consolidated financial statements - history |
| jmfstpost_AB | comparison affecting items |
| jmfstpost_KONC | comparison affecting items - consolidated financial statements - history |
| komansv_KONC | comments on liability - consolidated financial statements - history |
| komansv_AB | comments on liability |
| komsak_KONC | comments on security - consolidated financial statements - history |
| komsak_AB | comments on security |
| koncbid_AB | group contribution paid/received |

| | |
|-------------------|---|
| | group contribution paid/received - consolidated financial statements - history |
| koncbid_KONC | |
| koncbidr_KONC | group contribution - consolidated financial statements - history |
| koncbidr_AB | group contribution |
| konvlan_AB | convertible loans |
| konvlan_KONC | convertible loans - consolidated financial statements - history |
| ksv_AB | cost of goods sold |
| ksv_KONC | cost of goods sold - consolidated financial statements - history |
| kundford_KONC | trade receivables - consolidated financial statements - history |
| kundford_AB | trade receivables |
| lantdelagare_AB | loans to partners and related parties |
| lantdelagare_KONC | loans to partners and related parties - consolidated financial statements - history |
| levskuld_AB | accounts payable |
| levskuld_KONC | accounts payable - consolidated financial statements - history |
| lonovranst_KONC | salaries to other employees - consolidated financial statements - history |
| lonovranst_AB | salaries to other employees |
| lonstyrvd_AB | salaries to board and chief executive officer |
| lonstyrvd_KONC | salaries to board and chief executive officer - consolidated financial statements - history |
| maskiner_KONC | machinery - consolidated financial statements - history |
| maskiner_AB | machinery |
| maskoinv_AB | machinery and equipment |
| maskoinv_KONC | machinery and equipment - consolidated financial statements - history |
| minorint_KONC | minority interests - consolidated financial statements - history |
| minorint_AB | minority interests |
| minorintforv_KONC | minority interests and profit/loss in acquired subsidiaries - consolidated financial statements - history |

| | |
|------------------|--|
| minorintforv_AB | minority interests and profit/loss in acquired subsidiaries |
| netoms_AB | net turnover |
| netoms_KONC | net turnover - consolidated financial statements - history |
| obliglan_AB | bond loans |
| obliglan_KONC | bond loans - consolidated financial statements - history |
| okfond_AB | share premium reserve |
| okfond_KONC | share premium reserve - consolidated financial statements - history |
| ospecavskr_KONC | unspecified depreciation - consolidated financial statements - history |
| ospecavskr_AB | unspecified depreciation |
| ovransvforb_AB | other contingent liabilities |
| ovransvforb_KONC | other contingent liabilities - consolidated financial statements - history |
| ovrbundekap_KONC | other restricted equity - consolidated financial statements - history |
| ovrbundekap_AB | other restricted equity |
| ovrextkost_KONC | other external costs - consolidated financial statements - history |
| ovrextkost_AB | other external costs |
| ovrfinanltl_KONC | other financial non-current assets - consolidated financial statements - history |
| ovrfinanltl_AB | other financial non-current assets |
| ovrfinint_AB | other financial income |
| ovrfinint_KONC | other financial income - consolidated financial statements - history |
| ovrfinkost_KONC | other financial costs - consolidated financial statements - history |
| ovrfinkost_AB | other financial costs |

| | |
|---------------------|---|
| ovrimmanlillg_KONC | other intangible non-current assets - consolidated financial statements - history |
| ovrimmanlillg_AB | other intangible non-current assets |
| ovrkfskuld_KONC | other current liabilities - consolidated financial statements - history |
| ovrkfskuld_AB | other current liabilities |
| ovrkortford_KONC | other current receivables - consolidated financial statements - history |
| ovrkortford_AB | other current receivables |
| ovrlfskuld_AB | other non-current liabilities |
| ovrlfskuld_KONC | other non-current liabilities - consolidated financial statements - history |
| ovrmatanltirma_AB | other tangible depreciable non-current assets |
| ovrmatanltirma_KONC | other tangible depreciable non-current assets - consolidated financial statements - history |
| ovrmatanltilua_AB | other tangible non-depreciable non-current assets |
| ovrmatanltilua_KONC | other tangible non-depreciable non-current assets - consolidated financial statements - history |
| ovromstil_AB | other current assets |
| ovromstil_KONC | other current assets - consolidated financial statements - history |
| ovrorkost_AB | other operating costs |
| ovrorkost_KONC | other operating costs - consolidated financial statements - history |
| ovrrorint_KONC | other operating income - consolidated financial statements - history |
| ovrrorint_AB | other operating income |
| ovrrorintk_KONC | other operating income - consolidated financial statements - history |
| ovrrorintk_AB | other operating income |
| ovrrorkost_KONC | other operating costs - consolidated financial statements - history |
| ovrrorkost_AB | other operating costs |
| ovrsaker_KONC | other security - consolidated financial statements - history |

| | |
|----------------------|--|
| ovrsaker_AB | other security |
| ovrvarulag_KONC | other inventories - consolidated financial statements - history |
| ovrvarulag_AB | other inventories |
| pagarnannrak_AB | work in progress on behalf of others |
| pagarnannrak_KONC | work in progress on behalf of others - consolidated financial statements - history |
| patolic_KONC | patents, licences, etc. - consolidated financial statements - history |
| patolic_AB | patents, licences, etc. |
| perskost_AB | personnel costs |
| perskost_KONC | personnel costs - consolidated financial statements - history |
| rantfrkconc_AB | interest income from group companies |
| rantfrkconc_KONC | interest income from group companies - consolidated financial statements - history |
| rantkostkconc_KONC | interest expense to group - consolidated financial statements - history |
| rantkostkconc_AB | interest expense to group |
| rantnetfb_AB | net interest income/expense for finance companies |
| rantnetfb_KONC | net interest income/expense for finance companies - consolidated financial statements - history |
| ravofor_AB | raw materials and consumables |
| ravofor_KONC | raw materials and consumables - consolidated financial statements - history |
| resefinintokost_KONC | profit after financial income and expenses - consolidated financial statements - history |
| resefinintokost_AB | profit after financial income and expenses |
| resfrkoncoint_KONC | profit from participations in group companies and associates - consolidated financial statements - history |
| resfrkoncoint_AB | profit from participations in group companies and associates |

| | |
|------------------|---|
| revber_KONC | auditor's report - consolidated financial statements - history |
| revber_AB | auditor's report |
| revkom_KONC | auditor's comments - consolidated financial statements - history |
| revkom_AB | auditor's comments |
| rorres_AB | operating profit |
| rorres_KONC | operating profit - consolidated financial statements - history |
| samavs_AB | total provisions |
| samavs_KONC | total provisions - consolidated financial statements - history |
| skatt_AB | tax |
| skatt_KONC | tax - consolidated financial statements - history |
| skkonckort_KONC | current liabilities to group companies and associates - consolidated financial statements - history |
| skkonckort_AB | current liabilities to group companies and associates |
| skkonclang_KONC | non-current liabilities to group companies and associates - consolidated financial statements - history |
| skkonclang_AB | non-current liabilities to group companies and associates |
| skkredkort_KONC | current liabilities to credit institutions - consolidated financial statements - history |
| skkredkort_AB | current liabilities to credit institutions |
| skkredlang_AB | non-current liabilities to credit institutions |
| skkredlang_KONC | non-current liabilities to credit institutions - consolidated financial statements - history |
| sockost_KONC | social security costs - consolidated financial statements - history |
| sockost_AB | social security costs |
| sumanltl_KONC | total non-current assets - consolidated financial statements - history |
| sumanltl_AB | total non-current assets |
| sumansvforb_KONC | total contingent liabilities - consolidated financial statements - history |
| sumansvforb_AB | total contingent liabilities |

| | |
|---------------------|---|
| sumegkap_KONC | total equity - consolidated financial statements - history |
| sumegkap_AB | total equity |
| sumegkapsk_AB | total equity and liabilities |
| sumegkapsk_KONC | total equity and liabilities - consolidated financial statements - history |
| sumfinanlttil_AB | total financial non-current assets |
| sumfinanlttil_KONC | total financial non-current assets - consolidated financial statements - history |
| sumimmanltillg_AB | total intangible non-current assets |
| sumimmanltillg_KONC | total intangible non-current assets - consolidated financial statements - history |
| sumkasobank_AB | total cash and bank balances |
| sumkasobank_KONC | total cash and bank balances - consolidated financial statements - history |
| sumkfskuld_KONC | total current liabilities - consolidated financial statements - history |
| sumkfskuld_AB | total current liabilities |
| sumkortford_AB | total current receivables |
| sumkortford_KONC | total current receivables - consolidated financial statements - history |
| sumkortplac_AB | total short-term investments |
| sumkortplac_KONC | total short-term investments - consolidated financial statements - history |
| sumlfskuld_AB | total non-current liabilities |
| sumlfskuld_KONC | total non-current liabilities - consolidated financial statements - history |
| summatanlttil_AB | total tangible non-current assets |

| | |
|------------------|---|
| summatantil_KONC | total tangible non-current assets - consolidated financial statements - history |
| sumobesres_KONC | total untaxed reserves - consolidated financial statements - history |
| sumobesres_AB | total untaxed reserves |
| sumomstil_AB | total current assets |
| sumomstil_KONC | total current assets - consolidated financial statements - history |
| sumsaker_AB | total security |
| sumsaker_KONC | total security - consolidated financial statements - history |
| sumtil_KONC | total assets - consolidated financial statements - history |
| sumtil_AB | total assets |
| sumvarulag_AB | total inventories |
| sumvarulag_KONC | total inventories - consolidated financial statements - history |
| tecejinbkap_KONC | subscribed unpaid capital - consolidated financial statements - history |
| tecejinbkap_AB | subscribed unpaid capital |
| totfak_KONC | total invoicing - consolidated financial statements - history |
| totfak_AB | total invoicing |
| uskfond_AB | revaluation reserve |
| uskfond_KONC | revaluation reserve - consolidated financial statements - history |
| utdbel_KONC | amount of dividend - consolidated financial statements - history |
| utdbel_AB | amount of dividend |
| utdkod_KONC | dividend code - consolidated financial statements - history |
| utdkod_AB | dividend code |
| utncheckred_KONC | overdraft facility utilised - consolidated financial statements - history |
| utncheckred_AB | overdraft facility utilised |
| varavmark_KONC | whereof land - consolidated financial statements - history |
| varavmark_AB | whereof land |

| | |
|-------------------------|---|
| | whereof merit pay to other employees - consolidated financial statements - history |
| varavreslonovranst_KONC | |
| varavreslonovranst_AB | whereof merit pay to other employees |
| varavtantiemstyrvd_AB | whereof bonus payments to board and chief executive officer |
| | whereof bonus payments to board and chief executive officer - consolidated financial statements - history |
| varavtantiemstyrvd_KONC | |
| vilkagartillsk_KONC | conditional shareholder's contribution - consolidated financial statements - history |
| vilkagartillsk_AB | conditional shareholder's contribution |

KEY RATIOS WITH HISTORY

| | |
|---------------------|---|
| | change in equity - consolidated financial statements - key ratios - history |
| andregetkap_NT_KONC | |
| andregetkap_NT_AB | change in equity - key ratios |
| | rate of value added - consolidated financial statements - key ratios - history |
| andrgrad_NT_KONC | |
| andrgrad_NT_AB | rate of value added - key ratios |
| | change in total equity - key ratios |
| andrtotkap_NT_AB | |
| | change in total equity - consolidated financial statements - key ratios - history |
| andrtotkap_NT_KONC | |
| avkegetkap_NT_AB | return on equity - key ratios |
| | return on equity - consolidated financial statements - key ratios - history |
| avkegetkap_NT_KONC | |
| | return on employed capital - consolidated financial statements - key ratios - history |
| avksyskap_NT_KONC | |
| avksyskap_NT_AB | return on employed capital - key ratios |

| | |
|-----------------------|---|
| avktotkap_NT_KONC | return on total capital - consolidated financial statements - key ratios - history |
| avktotkap_NT_AB | return on total capital - key ratios |
| brutvinstmarg_NT_AB | gross profit margin - key ratios |
| brutvinstmarg_NT_KONC | gross profit margin - consolidated financial statements - key ratios - history |
| forsavoms_NT_AB | selling expenses as a percentage of turnover - key ratios |
| forsavoms_NT_KONC | selling expenses as a percentage of turnover - consolidated financial statements - key ratios - history |
| havform_NT_KONC | leverage formula - consolidated financial statements - key ratios - history |
| havform_NT_AB | leverage formula - key ratios |
| kapomshast_NT_AB | rate of capital turnover - key ratios |
| kapomshast_NT_KONC | rate of capital turnover - consolidated financial statements - key ratios - history |
| kasslikvid_NT_KONC | quick ratio - consolidated financial statements - key ratios - history |
| kasslikvid_NT_AB | quick ratio - key ratios |
| kassoutcheck_NT_KONC | quick ratio including un-utilised overdraft facility - consolidated financial statements - key ratios - history |
| kassoutcheck_NT_AB | quick ratio including un-utilised overdraft facility - key ratios |
| kostperanst_NT_KONC | personnel costs per employee - consolidated financial statements - key ratios - history |
| kostperanst_NT_AB | personnel costs per employee - key ratios |
| kredtidkund_NT_KONC | credit period granted to customers - consolidated financial statements - key ratios - history |
| kredtidkund_NT_AB | credit period granted to customers - key ratios |
| lageravk_NT_KONC | return on stock - consolidated financial statements - key ratios - history |
| lageravk_NT_AB | return on stock - key ratios |
| lageromshats_NT_AB | rate of stock turnover - key ratios |

| | |
|----------------------|--|
| | rate of stock turnover - consolidated financial statements - key ratios - history |
| lageromshats_NT_KONC | borrowing rate - consolidated financial statements - key ratios - history |
| lanegrad_NT_KONC | borrowing rate - key ratios |
| lanranta_NT_AB | loan rate - key ratios |
| lanranta_NT_KONC | loan rate - consolidated financial statements - key ratios - history |
| nettmarg_NT_KONC | net margin - consolidated financial statements - key ratios - history |
| nettmarg_NT_AB | net margin - key ratios |
| omsandr_NT_AB | change in turnover - key ratios |
| omsandr_NT_KONC | change in turnover - consolidated financial statements - key ratios - history |
| omsanst_NT_AB | turnover per employee - key ratios |
| omsanst_NT_KONC | turnover per employee - consolidated financial statements - key ratios - history |
| ranttackgrad_NT_KONC | interest coverage ratio - consolidated financial statements - key ratios - history |
| ranttackgrad_NT_AB | interest coverage ratio - key ratios |
| riskbuff_NT_KONC | risk buffer - consolidated financial statements - key ratios - history |
| riskbuff_NT_AB | risk buffer - key ratios |
| risksyskap_NT_KONC | risk buffer for employed capital - consolidated financial statements - key ratios - history |
| risksyskap_NT_AB | risk buffer for employed capital - key ratios |
| rorkapavoms_NT_AB | working capital as a percentage of turnover - key ratios |
| rorkapavoms_NT_KONC | working capital as a percentage of turnover - consolidated financial statements - key ratios - history |
| rormarg_NT_AB | operating margin - key ratios |

| | |
|-----------------------|---|
| | operating margin - consolidated financial statements - key ratios - history |
| rormarg_NT_KONC | |
| skuldranta_NT_AB | interest on debt - key ratios |
| | interest on debt - consolidated financial statements - key ratios - history |
| skuldranta_NT_KONC | |
| skuldsattgrad_NT_AB | debt-to-assets ratio - key ratios |
| | debt-to-assets ratio - consolidated financial statements - key ratios - history |
| skuldsattgrad_NT_KONC | |
| | equity-to-assets ratio - consolidated financial statements - key ratios - history |
| solid_NT_KONC | |
| solid_NT_AB | equity-to-assets ratio - key ratios |
| tackgrad_NT_AB | coverage ratio - key ratios |
| | coverage ratio - consolidated financial statements - key ratios - history |
| tackgrad_NT_KONC | |
| vinstmarg_NT_AB | profit margin - key ratios |
| | profit margin - consolidated financial statements - key ratios - history |
| vinstmarg_NT_KONC | |

11.2 Fields in workplace information

| | | |
|---------------|--------------------------------|----------|
| orgnr | Corporate number | identity |
| cfar | CFAR ID | |
| wpid | ID for workplace | |
| name | Name of workplace | |
| ba_gatuadress | Visiting address, street | |
| ba_postnr | Visiting address, postcode | |
| ba_postort | Visiting address, town/city | |
| ba_kommun | Visiting address, municipality | |
| ba_lan | Visiting address, county | |
| ua_gatuadress | Delivery address, street | |
| ua_postnr | Visiting address, postcode | |
| ua_postort | Visiting address, town/city | |
| ua_kommun | Delivery address, municipality | |
| ua_lan | Delivery address, county | |
| riktnr | Area code | |

| | |
|-------------|---------------------------------|
| riktnrtefnr | Area code + Subscription number |
| antanst | Number of employees |
| sni | SNI code |

11.3 Codes

Certain fields are coded, that is, do not contain textual or numerical data but code which must be translated with a description. Translations for coded fields can be found below.

| FIELD | CODE | DESCRIPTION | TYPE |
|--------------------|-------------|--|-------------|
| ftgtyp | AB | Limited liability company | Text |
| | EB | Non-registered partnership | |
| | EF | Sole trader enterprise | |
| | EK | Economic association | |
| | FI | Overseas branch | |
| | HK | Trading and limited partnership | |
| | BF | Property association and housing cooperative | |
| | IF | Non-profit association | |
| | OV | Other | |
| | SA | Associations | |
| | SF | Foundations and funds | |
| | SK | State and municipal enterprises, and county councils | |
| | VP | Securities funds | |
| status code | 1 | Active | Integer |
| | 2 | Passive | |
| | 9 | Inactive | |

f_skatt 0 Has never been registered for F-tax Text

1 Registered for F-tax

9 De-registered for F-tax

m_grupp 0 Does not belong to a Swedish Tax Authority VAT group Text

1 Reports VAT, <= MSEK 40

Reports for full year, trading partnerships, max 200,000

5 Reports VAT (> MSEK 40)

6 Reports VAT in income tax return (< SEK 1 million)

m_status 0 Not registered for VAT Text

1 Registered for VAT

publ 1 Public limited liability company Text

priv 1 Privately owned company Text

bors_bolag 1 The company is listed on the stock exchange Text

lan_kod 1 Stockholm Integer

3 Uppsala

4 Södermanland

5 Östergötland

6 Jönköping

7 Kronoberg

8 Kalmar

| | |
|-----------|-----------------|
| 9 | Gotland |
| 10 | Blekinge |
| 12 | Skåne |
| 13 | Halland |
| 14 | Västra götaland |
| 17 | Värmland |
| 18 | Örebro |
| 19 | Västmanland |
| 20 | Dalarna |
| 21 | Gävleborg |
| 22 | Västernorrland |
| 23 | Jämtland |
| 24 | Västerbotten |
| 25 | Norrbotten |

function code

| | |
|------|--|
| ak | Actuary |
| bo | Partner |
| delg | Authorised individuals (person authorised to receive service of process) |
| eft | Special authorised signatory (non director) |
| evd | External chief executive officer (non director) |
| evvd | External vice chief executive officer (non director) |
| fö | Head of unit |
| in | Proprietor |

| | |
|-------|--------------------------------|
| kd | Limited partner |
| kp | General partner |
| le | Director |
| li | Receiver in liquidation |
| ls | Deputy receiver in liquidation |
| of | Chairperson |
| po | Managing clerk |
| rep | Representative |
| rev | Auditor |
| revh | Head auditor |
| revl | General examiner |
| revs | Deputy auditor |
| revsl | Deputy general examiner |
| revt | Auditor |
| revst | Deputy auditor |
| su | Deputy director |
| svd | Deputy Chief Executive Officer |
| vd | Chief Executive Officer |
| vle | Executive director |
| vof | Vice Chairperson |
| vvd | Vice Chief Executive Officer |

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