

# **Top 20 Technical Specification**

**Version 1.3 / 09.03.2012**

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### ***Document history***

<b>Ver.</b>	<b>Date</b>	<b>Description</b>
1.0	30.09.2005	<b>Top20</b> First official version of documentation.
1.1	23.12.2005	<b>Version 1.1</b> Changed elements in DTD and XML file descriptions (chapter 2.1.1 and 2.1.2). Specified time for FTP/ e-mail updates and DTD delivery method (chapter 3).
1.2	25.04.2006	Changed time of delivery (chapter 3)
1.3	09.03.2012	Changed content of Investor ID field (chapter 1.1)

# 1 Product Specification

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## 1.1 Scope

The Top 20 product provides information concerning the shareholder structure in the following companies:

- Norwegian companies whose shares are quoted on Oslo Børs
- Savings Banks whose equity certificates are quoted on Oslo Børs
- Norwegian companies whose shares are quoted on the A-list in the Norwegian OTC market.

Top 20 shows a snapshot of the shareholder structure, as registered in the central securities depository (VPS), for the 20 largest shareholders per the previous Friday.

Top 20 shows available shares in the company up to 20 shareholder positions (maximum position depth). A few companies have reserved against the Top 20 service and these are marked accordingly. In addition to the positions a notice may be sent out for a company. This note contains explanations or additional information on the position data for the company. Notices may be in different languages and are marked with a language code according to ISO-639-2.

For each position the number of shares, the ranking and the percentage of ownership is given, together with information on the investor. Investor data consists of an id-number which is the organization number of companies and a non-unique id for private investors, name and whether the investor is institutional or not. Information on one investor may occur several places, in positions under different companies.

Note that some companies may have only a few investors, hence the maximum position depth may not be reached for all companies.

Also note that that it is illegal according to Norwegian Law to store historic information regarding private investor's shareholding positions.

## 2 File format

### 2.1 Document Type Definition - DTD

These are the definitions of the data types used in the record layout:

```
<!ELEMENT topN (company+)>
<!ATTLIST topN
  date CDATA #REQUIRED
  maxlevel CDATA #REQUIRED>

<!ELEMENT company (ticker, name,
  sharesOut, position+)>
<!ATTLIST company
  isin CDATA #REQUIRED>

<!ELEMENT ticker (#PCDATA)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT sharesOut (#PCDATA)>

<!ELEMENT position (noOfStocks, percentage, investor)>
<!ATTLIST position
  ranking CDATA #REQUIRED>

<!ELEMENT noOfStocks (#PCDATA)>

<!ELEMENT percentage (#PCDATA)>

<!ELEMENT investor (name)>
<!ATTLIST investor
  investorId CDATA #REQUIRED
  private (yes|no) #REQUIRED>
```

## 2.2 XML Example Top20

The filename will be top20\_YYYYMMDD.xml.

Please find an example below:

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="no" ?>
  <!DOCTYPE topN (View Source for full doctype...)>
  - <topN date="2012-03-07" maxlevel="20">
  - <company isin="NO0003021909">
    <ticker>ASC</ticker>
    <name>ABG SUNDAL COLLIER</name>
    <sharesOut>417673295</sharesOut>
  - <position ranking="1">
    <noOfStocks>59500000</noOfStocks>
    <percentage>14.25</percentage>
  - <investor investorId="929477545" private="no">
    <name>RASMUSSENGRUPPEN AS</name>
    </investor>
    </position>
  - <position ranking="2">
    <noOfStocks>36500000</noOfStocks>
    <percentage>8.74</percentage>
  - <investor investorId="918837655" private="no">
    <name>SANDEN A/S</name>
    </investor>
    </position>
  - <position ranking="3">
    <noOfStocks>8448905</noOfStocks>
    <percentage>2.03</percentage>
  - <investor investorId="958995369" private="no">
    <name>STOREBRAND LIVSFORSIKRING AS</name>
    </investor>
    </position>
  ...
</topN>
```

### **3 Delivery**

Top 20 is delivered by means of e-mail or ftp (get). The DTD file will also be distributed by e-mail or onto the customers ftp area. This file is fixed, and will therefore not be updated.

The files will be distributed by e-mail or uploaded to the customers ftp area once a week, every Wednesday 06:00 (CET).

For providing the information through email Oslo Børs require only one email-address for the recipient of the information. Oslo Børs produces the information and sends it to the pre-defined address.

For use of FTP Oslo Børs produces the information and stores it in a file on a dedicated customer directory on our distribution server. The customer is responsible for retrieving the files(s). The directory on the distribution server is provided by Oslo Børs when registration for a product is done.

## 4 Contact Deails

### Oslo Børs ASA

Information Services

P.O. Box 460, Sentrum

NO-0105 Oslo, Norway

Switchboard: + 47 22 34 17 00

Contact in case of	Name/Position	Extension/Mail/
Operational Issues	Help Desk	+47 22 34 19 90 <a href="mailto:technicalsupport@oslobors.no">technicalsupport@oslobors.no</a>
Technical- and Product Issues	Products Department	+47 22 34 18 02 <a href="mailto:products@oslobors.no">products@oslobors.no</a>
Commercial- and contract issues	Sales Department	+47 22 34 18 02 <a href="mailto:sales@oslobors.no">sales@oslobors.no</a>

### VPS

P.O. Box 4,

NO-0051 Oslo, Norway

Switchboard: +47 22 63 53 00

Contact in case of	Name/Position	Extension/Mail/
Product Content	Customer Service	+47 22 63 51 00 <a href="mailto:vps@vps.no">vps@vps.no</a>