



OBI Price Information Feed Product Specification

Equities

Version 1.0 / 05.07.1999



OSLO BØRS INFORMASJON AS

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1 Product Specification

1.1 Scope

The OBI Price Information Feed product for equities provides information concerning the following instrument types:

- Shares
- Primary Capital Certificates (PCC)
- Warrants.

1.2 Record Definition

1.2.1 Data types

These are the definitions of the datatypes used in the record layout:

| Data type | Description |
|------------|--|
| Date | Encoded as YYYYMMDD |
| Integer | Integer with maximum value 2^{31} |
| Char(n) | Trimmed string of printable characters (ISO8859-1) with maximum length n |
| Decimal(n) | Decimal number with precision n |

1.2.2 Record layout

| Field Name | Data Type | Description |
|---------------------|------------|--|
| Trade Date | Date | Trade Date |
| Security Id | Integer | Unique number identifying the security |
| Symbol | char(16) | Local code, sometimes referred to as ticker symbol |
| ISIN | char(12) | ISIN number |
| Security Name | char(34) | Full name of security |
| Bid | Decimal(2) | Best bid price |
| Offer | Decimal(2) | Best offered price |
| Open | Decimal(2) | First official trade |
| High | Decimal(2) | Highest official trade price |
| Low | Decimal(2) | Lowest official trade price |
| Last | Decimal(2) | Last official trade |
| Off. Share Turnover | Decimal(0) | Official number of shares traded |
| Off Turnover | Decimal(2) | Official turnover by value (NOK) |

| | | |
|-------------------------|------------|---|
| Non-off. Share Turnover | Decimal(0) | Non-official number of shares traded Includes all non-official trades |
| Non-off. Turnover | Decimal(2) | Non-official turnover by value (NOK). Includes all non-official trades |
| List name (Norwegian) | Char(60) | The list at OSE that the security belongs to, given in Norwegian, e.g. Hovedliste, SMB-liste, Grunnfondsbevis |
| Sector (Norwegian) | Char(60) | Sector name in accordance with the industry classification used by Oslo Stock Exchange, given in Norwegian |
| List name (English) | Char(16) | The list at OSE that the security belongs to, given in English, e.g. Main list, SMB list or PCC list |
| Sector (English) | Char(16) | Sector name in accordance with the industry classification used by Oslo Stock Exchange, given in English |

1.2.3 Sort criteria

The list is sorted alphabetically within each group of List name and Sector.

1.3 Distribution methods

The price information in each of these modules can be provided through the following channels:

- e-mail
- file transfer protocol (ftp get).

For providing the information through email we require only one email-address for the receiver of the information. OBI produces the information and sends it to the pre-defined receiver.

For use of FTP we require a permanent ip-address. OBI produces the information and stores it in a file in dedicated customer accounts on our distribution server. The customer is then responsible for retrieving the files(s). The account on the distribution server is provided by OBI when registration for a product is done.

1.4 File format

The files produced for both email and ftp are pure text files. The fields in the file are separated by [TAB]. Null observations are indicated by empty fields, i.e. [TAB][TAB].

2 Example

| | | | | | | | | | | | | | | | | | |
|----------|---------------------------|---------------------------|--------------|-------------------------|------|-------|-------|-------|-------|--------|----------|---------|--------|------------------------------|------------------------------|---------------------|-----------|
| 19990526 | 15420 | AVA | NO0003049702 | Avantor 58 | 58,5 | 55,5 | 58 | 55,5 | 58 | 3800 | 211400 | 33 | 1914 | Aksjer hovedlisten Oslo Børs | Eiendom | Main-list | Property |
| 19990526 | 6043 | BBA | NO0003002503 | Bergensbanken | 113 | 114 | 116,5 | 116,5 | 112,5 | 113,5 | 76200 | 8669800 | 45468 | 5115694 | Aksjer hovedlisten Oslo Børs | Finans | Main-list |
| | Finance | | | | | | | | | | | | | | | | |
| 19990526 | 6035 | BNB | NO0005139402 | Bolig- og Næringsbanken | 197 | 198 | 198 | 199 | 197 | 198 | 16800 | 3328400 | | | Aksjer hovedlisten Oslo Børs | Finans | |
| | Main-list Finance | | | | | | | | | | | | | | | | |
| 19990526 | 6076 | EKJ | NO0003042202 | Elkjøp 103 | 105 | 105 | 105 | 103 | 103 | 1300 | 134300 | 276 | 28813 | Aksjer hovedlisten Oslo Børs | Handel | Main-list | Commerce |
| 19990526 | 15119 | GRE | NO0003046401 | Gresvig 60 | 64 | 64 | 64 | 64 | 64 | 2000 | 128000 | | | Aksjer hovedlisten Oslo Børs | Handel | Main-list | Commerce |
| 19990526 | 16944 | AMA | NO0003062507 | Aker Maritime | 82,5 | 83 | 83 | 87,5 | 82 | 83 | 101100 | 8426900 | | | Aksjer hovedlisten Oslo Børs | Industri | Main-list |
| | Manufacturing | | | | | | | | | | | | | | | | |
| 19990526 | 6007 | AKE | NO0003514002 | Aker RGI A | 105 | 107,5 | 102 | 105 | 102 | 105 | 3700 | 387300 | 110 | 11495 | Aksjer hovedlisten Oslo Børs | Industri | Main-list |
| | Manufacturing | | | | | | | | | | | | | | | | |
| 19990526 | 6006 | AFK | NO0003572802 | Arendals Fossekomp ani | | | 400 | 365 | 375 | 365 | 375 | 2080 | 779200 | | Aksjer hovedlisten Oslo Børs | Industri | |
| | Main-list Manufacturing | | | | | | | | | | | | | | | | |
| 19990526 | 6032 | BJF | NO0003666604 | Bjølvefossen | 69 | 79 | | | | | | | | | Aksjer hovedlisten Oslo Børs | Industri | Main-list |
| | Manufacturing | | | | | | | | | | | | | | | | |
| 19990526 | 6065 | DNO | NO0003921009 | DNO 14,3 | 14,5 | 12,7 | 14,5 | 12,7 | 14,5 | 748000 | 10197000 | | 230500 | 2951250 | Aksjer hovedlisten Oslo Børs | Industri | Main-list |
| | Manufacturing | | | | | | | | | | | | | | | | |
| 19990526 | 16194 | AGR | NO0003052508 | Agresso Group | 22,2 | 22,5 | 22 | 22,5 | 22 | 22,5 | 144200 | 3217780 | | | Aksjer hovedlisten Oslo Børs | IT og kommunikasjon | |
| | Main-list IT, communicat. | | | | | | | | | | | | | | | | |
| 19990526 | 6001 | AAV | NO0003502809 | Adresseavisen | 370 | 390 | | | | | | | | | Aksjer hovedlisten Oslo Børs | Media og | |
| | forlagsvirksomhet | Main-list Media, publish. | | | | | | | | | | | | | | | |
| 19990526 | 15856 | APR | NO0005014001 | A-pressen | | 120 | | | | | | | | | Aksjer hovedlisten Oslo Børs | Media og | |
| | forlagsvirksomhet | Main-list Media, publish. | | | | | | | | | | | | | | | |
| 19990526 | 6108 | GYL | NO0004288200 | Gyldendal | 303 | 325 | 303 | 303 | 303 | 303 | 100 | 30300 | | | Aksjer hovedlisten Oslo Børs | Media og | |
| | forlagsvirksomhet | Main-list Media, publish. | | | | | | | | | | | | | | | |
| 19990526 | 6019 | AWS | NO0003083107 | Awilco A | 14,6 | 15,5 | 15,75 | 15,75 | 15,3 | 15,3 | 30000 | 466900 | | | Aksjer hovedlisten Oslo Børs | Offshore | Main-list |
| | Offshore | | | | | | | | | | | | | | | | |
| 19990526 | 6020 | AWSB | NO0003083115 | Awilco B | 15 | 15,5 | 15,8 | 15,8 | 15,5 | 15,5 | 15000 | 235500 | 72 | 1138 | Aksjer hovedlisten Oslo Børs | Offshore | Main-list |
| | Offshore | | | | | | | | | | | | | | | | |
| 19990526 | 15391 | ACL | SE0000245409 | Atlantic Container Line | 80 | 81 | 82 | 82 | 80 | 81 | 16300 | 1316500 | | | Aksjer hovedlisten Oslo Børs | Shipping | |
| | Main-list Shipping | | | | | | | | | | | | | | | | |
| 19990526 | 6026 | BEL | NO0003094104 | Belships Co. | 5 | 6 | 5 | 6 | 5 | 6 | 10000 | 52000 | 2000 | 10000 | Aksjer hovedlisten Oslo Børs | Shipping | Main-list |
| | Shipping | | | | | | | | | | | | | | | | |
| 19990526 | 6041 | BRA | NO0003044703 | Braathens | 30 | 31 | 30,5 | 31 | 30 | 30 | 4800 | 145700 | | | Aksjer hovedlisten Oslo Børs | Transport | |
| | Main-list Transport | | | | | | | | | | | | | | | | |
| 19990526 | 6116 | HES | NO0004378902 | Helicopter Services Gr. | 44,6 | 45,5 | 45,5 | 45,5 | 45,5 | 45,5 | 4000 | 182000 | 208000 | 9360000 | Aksjer hovedlisten Oslo Børs | Transport | |
| | Main-list Transport | | | | | | | | | | | | | | | | |



OBI Price Information Feed - Product Specification

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|----------|---------------------------------------|------|--------------|-----------------------|------|------|------|------|------|-------|--------|---------|---------|------|------|--|------------------------------|---------------------|-----------------|---------------|
| 19990526 | 6085 | ASI | NO0003021909 | Askia Invest | 1,6 | 1,9 | | | | | | | | | | | Aksjer hovedlisten Oslo Børs | Annen virksomhet | | |
| | Main-list Other | | | | | | | | | | | | | | | | | | | |
| 19990526 | 6034 | BLO | NO0003679102 | Blom 17 | 17,4 | 16,3 | 17,5 | 16,3 | 17 | 15000 | 259300 | | | | | | Aksjer hovedlisten Oslo Børs | Annen virksomhet | Main-list Other | |
| 19990526 | 23730 | KBK | NO0003028300 | KredittBanken | | 31 | 30 | 30 | 30 | 30 | 4200 | 126000 | | | | | Aksjer SMB Oslo Børs | Finans | SMB | Finance |
| 19990526 | 15905 | ORC | NO0003051906 | Oslo Reinsurance Co | | 309 | 313 | 309 | 309 | 309 | 309 | 7000 | 2163000 | | | | Aksjer SMB Oslo Børs | Finans | SMB | |
| | Finance | | | | | | | | | | | | | | | | | | | |
| 19990526 | 6306 | VVL | NO0003025009 | Voss Veksel | 1025 | 1250 | | | | | | | | | | | Aksjer SMB Oslo Børs | Finans | SMB | Finance |
| 19990526 | 6004 | ADE | NO0003031809 | Adelsten Holding A | | 84 | | | | | | | | | | | Aksjer SMB Oslo Børs | Handel | SMB | |
| | Commerce | | | | | | | | | | | | | | | | | | | |
| 19990526 | 27028 | AFG | NO0003078107 | AF Gruppen A | | 180 | 170 | 180 | 170 | 180 | 6000 | 1070000 | | | | | Aksjer SMB Oslo Børs | Industri | SMB | Manufacturing |
| 19990526 | 27029 | AFGB | NO0003078115 | AF Gruppen B | | 110 | 110 | 110 | 110 | 110 | 100 | 11000 | | | | | Aksjer SMB Oslo Børs | Industri | SMB | Manufacturing |
| 19990526 | 16260 | ALP | NO0003054744 | Alphatron Industrier | | 0,56 | 0,57 | 0,57 | 0,57 | 0,56 | 0,56 | 1910000 | 1076200 | 9000 | 5090 | | Aksjer SMB Oslo Børs | Industri | SMB | |
| | Manufacturing | | | | | | | | | | | | | | | | | | | |
| 19990526 | 6274 | AVE | NO0005598706 | Avenir 32,5 | 33 | 32,5 | 33 | 32,5 | 33 | 7500 | 245650 | 1146 | 37245 | | | | Aksjer SMB Oslo Børs | IT og kommunikasjon | SMB | IT, |
| | communicat. | | | | | | | | | | | | | | | | | | | |
| 19990526 | 16323 | CAG | NO0005015602 | Computer Advances | | 11 | 12,5 | | | | | | | | | | Aksjer SMB Oslo Børs | IT og kommunikasjon | | |
| | SMB IT, communicat. | | | | | | | | | | | | | | | | | | | |
| 19990526 | 6265 | STA | NO0005493601 | Stavanger Aftenblad | | 70 | 75 | | | | | | | | | | Aksjer SMB Oslo Børs | Media og | | |
| | forlagsvirksomhet SMB Media, publish. | | | | | | | | | | | | | | | | | | | |
| 19990526 | 15933 | BRO | NO0003015901 | Brøvig Offshore | 30 | 32 | | | | | | | | | | | Aksjer SMB Oslo Børs | Offshore | SMB | Offshore |
| 19990526 | 28920 | DOF | NO0003082901 | District Offshore | 5,7 | 5,9 | 5,7 | 5,85 | 5,7 | 5,7 | 70000 | 401700 | 1240 | 7068 | | | Aksjer SMB Oslo Børs | Offshore | SMB | Offshore |
| 19990526 | 6161 | MIF | BMG582061062 | MIF | 136 | | | | | | | | | | | | Aksjer SMB Oslo Børs | Shipping | SMB | Shipping |
| 19990526 | 28036 | SWR | NO0003089609 | Swan Reefer | | 20 | | | | | | | | | | | Aksjer SMB Oslo Børs | Shipping | SMB | Shipping |
| 19990526 | 6036 | BNR | NO0003099608 | Bergen Nordh. Rutelag | | 130 | 135 | | | | | | | | | | Aksjer SMB Oslo Børs | Transport | | SMB |
| | Transport | | | | | | | | | | | | | | | | | | | |
| 19990526 | 6090 | FOS | NO0003168908 | Fosen Trafikklag | 230 | 270 | | | | | | | | | | | Aksjer SMB Oslo Børs | Transport | | SMB |
| | Transport | | | | | | | | | | | | | | | | | | | |
| 19990526 | 28578 | AIK | NO0003075004 | Aktiv Kapital | 20 | 23,5 | | | | | | | | | | | Aksjer SMB Oslo Børs | Annen virksomhet | SMB | Other |
| 19990526 | 16215 | ALV | NO0003050304 | Alvern 2,75 | 3,05 | 3,1 | 3,15 | 3,1 | 3,15 | 10000 | 31300 | | | | | | Aksjer SMB Oslo Børs | Annen virksomhet | SMB | Other |
| 19990526 | 34079 | AURG | NO0006001601 | Aurskog Sparebank | | 125 | | | | | | | | | | | Grunnfondsbevis Oslo Børs | Grunnfondsbevis | PCC | |
| | PCC | | | | | | | | | | | | | | | | | | | |
| 19990526 | 34080 | HOLG | NO0006001700 | Hol Sparebank | 99 | 100 | | | | | | | | | | | Grunnfondsbevis Oslo Børs | Grunnfondsbevis | PCC | PCC |