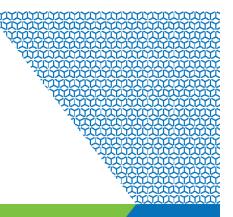
FILES GUIDE



February 2023

# DAX FILES GUIDE

## **Creating an Investment Intelligence Advantage**



# Qontigo.com



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## 1. Introduction

The DAX Files Guide aims at providing an overview of the files structure produced for DAX Indices. It may facilitate the development of automated solution to retrieve data by DAX Customers.

The DAX Files guides should be read in conjunction with the DAX Index Methodology and Guides available on <u>Resources - Qontigo (dax-indices.com)</u>.

For each file, the following information will be provided:

| Column ID                             | Column Number  |
|---------------------------------------|--|
| Attribute Column Name                 |  |
| Description Description of data field |  |
| Data Type                             | Date Type: Text / Number / Date  |
| Data Format                           | Data format of the field: Text (Length), Number (Decimals), Date (date format) |

For questions regarding the DAX Files Guide, please contact our STOXX Customer Support team:

- > Phone: +41 43 430 72 72
- > E-Mail: customersupport@stoxx.com

## 1.1. Naming Convention

The naming convention for the description of the file name in the DAX Files Guide, unless differently specified, is

xxxxx – Index Symbol

YYYYMMDD - date at which report is generated

**INDEXNAME** – Index Name

## 1.2. Naming convention associated to Third-Party Data Licenses





Files may be generated in multiple versions accordingly to the Third Party Data license the client is entitled to. The following table provides an overview of the different Components File name and the Third Party Data excluded.

The File name will contain 4 characters P### to allow the identification of third party data being displayed:

• FileName\_P###\_INDEXNAME with P### = Permissioned Third Party data,

Important Note: whenever a new 3rd-party license gets added into the system, the file names will change for clients who don't have the new 3rd-party license!

License Entitlements per Client: For demonstration, each entitlement below has got a different entitlement and hence access to a different version of the components file.

|               | 3rd-Party<br>(SEDOL) | 3rd-Party B<br>licence | 3rd-Party C<br>licence | 3rd-Party<br>D licence | SUM | Entitlement to File  | Active |
|---------------|----------------------|------------------------|------------------------|------------------------|-----|--|--------|
| Value         | 1                    | 2                      | 4                      | 8                      |     |  |        |
| Entitlement A | Υ                    | Υ                      | Y                      | Υ                      | 0   | FileName_P000_INDEXNAME.csv                                | Yes    |
| Entitlement B | Ν                    | Υ                      | Y                      | Y                      | 1   | FileName_P001_INDEXNAME.csv                                | Yes    |
| Entitlement C | Υ                    | N                      | Y                      | Υ                      | 2   | FileName_P002_INDEXNAME.csv                                | No     |
| Entitlement D | Ν                    | Ν                      | Y                      | Υ                      | 3   | FileName_P003_INDEXNAME.csv                                | No     |
| Entitlement E | Υ                    | Y                      | Ν                      | Υ                      | 4   | FileName_P004_INDEXNAME.csv                                | No     |
| Entitlement F | Ν                    | Υ                      | Ν                      | Υ                      | 5   | FileName_P005_INDEXNAME.csv<br>FileName_P006_INDEXNAME.csv | No     |
| Entitlement G | Y                    | Ν                      | Ν                      | Y                      | 6   |  | No     |
| Entitlement H | Ν                    | Ν                      | Ν                      | Υ                      | 7   | FileName_P007_INDEXNAME.csv                                | No     |
| Entitlement I | Υ                    | Υ                      | Υ                      | Ν                      | 8   | FileName_P008_INDEXNAME.csv                                | No     |
| Entitlement J | Ν                    | Υ                      | Y                      | Ν                      | 9   | FileName_P009_INDEXNAME.csv                                | No     |
| Entitlement K | Y                    | N                      | Y                      | Ν                      | 10  | FileName_P010_INDEXNAME.csv                                | No     |
| Entitlement L | Ν                    | Ν                      | Υ                      | Ν                      | 11  | FileName_P011_INDEXNAME.csv                                | No     |
| Entitlement M | Υ                    | Υ                      | Ν                      | Ν                      | 12  | FileName_P012_INDEXNAME.csv                                | No     |
| Entitlement N | Ν                    | Υ                      | Ν                      | Ν                      | 13  | FileName_P013_INDEXNAME.csv                                | No     |
| Entitlement O | Y                    | N                      | Ν                      | Ν                      | 14  | FileName_P014_INDEXNAME.csv                                | No     |
| Entitlement P | Ν                    | Ν                      | Ν                      | Ν                      | 15  | FileName_P015_INDEXNAME.csv                                | No     |

Files for which a Third-Party Data segregation is implemented have a reference to this section.



# 2. Equity Index Files

## 2.1. Index Composition Report

#### 2.1.1.Standard (xls) format

This report contains both index and constituent information based on market closing values and indicators as of the last rebalancing date. The file is publicly available on Qontigo Website with the following naming convention:

- > File name:
  - icr\_xxxxx.xls
    - icr\_xxxxx\_YYYYMMDD.xls (history available for 90 days)
- > With xxxxx being the Index Symbol
- > File type: .xls
- > File frequency: daily at COB

The file is available on MD+S Interactive platform for licensed users with the following naming convention:

> File name:

INDEXNAME\_ICR.YYYYMMDD.xls

- > File type: .xls
- > File frequency: daily at COB

The report consists of three tabs:

- 1. Cover displays file and index name, report date and Customer Support contact details
- 2. **Data** index and constituent closing data
- 3. Info Displays Customer Support contact details and a legend of measures used in calculation

The file specifications will cover tabs "Data".

| Column<br>ID | Attribute            | Description   | Data<br>Type | Data<br>Format |
|--------------|----------------------|---|--------------|----------------|
| 1            | Index Trading Symbol | Index Trading Symbol  | Text         | 4              |
| 2            | Index Name           | Index Name  | Text         | 255            |
| 3            | Index ISIN           | Index ISIN  | Text         | 12             |
| 4            | Trading Symbol       | Constituent Trading Symbol  | Text         | 4              |
| 5            | Instrument           | Constituent Name  | Text         | 255            |
| 6            | ISIN                 | Constituent ISIN  | Text         | 12             |
| 7            | Country              | Constituent Country (currently not maintained)  | Text         | n/a            |
| 8            | Transparency Level   | Market segment of the constituent (text "Prime Standard", "General<br>Standard" or "Scale" for constituents listed on Frankfurt Stock<br>Exchange; n/a otherwise) | Text         | 16             |





| 9  | Instrument Exchange  | Constituent Exchange  | Text   | 20 |
|----|--|---|--------|----|
| 10 | Index Value (close)  | Index Close Value on report date  | Number | 2  |
| 11 | Index Settlement Value<br>(Future)                             | Index Future Settlement Value on report date  | Number | 2  |
| 12 | Index Settlement Value<br>(Kassa)                              | Index Kassa Settlement Value on report date   | Number | 2  |
| 13 | Index Settlement Value<br>(Option)                             | Index Option Settlement Value on report Date  | Number | 2  |
| 14 | Constant A (last regular rebalancing) (Index)                  | Index Base value to be used in conjunction with Fi factor on the last rebalancing date  | Number | 7  |
| 15 | Kt (last regular<br>rebalancing) (Index)                       | Index Chaining Factor on the last rebalancing date  | Number | 7  |
| 16 | Market Cap. (in Mio.)<br>(last regular<br>rebalancing) (Index) | Index Market Capitalisation (in millions) on the last rebalancing<br>date   | Number | 2  |
| 17 | # Constituents   | Number of Index constituents  | Number | 0  |
| 18 | Performance (1d)<br>(Index)                                    | 1-day Index performance   | Number | 15 |
| 19 | Performance (1m)<br>(Index)                                    | 1-month Index performance   | Number | 15 |
| 20 | Performance (12m)<br>(Index)                                   | 12-month Index performance  | Number | 15 |
| 21 | Performance (ytd)<br>(Index)                                   | YTD Index performance   | Number | 15 |
| 22 | Volatility (1m) (Index)  | 1-month Index Volatility  | Number | 15 |
| 23 | Volatility (12m) (Index)                                       | 12-month Index Volatility   | Number | 15 |
| 24 | Sharpe Ratio (1m)<br>(Index)                                   | 1-month Index Sharpe Ratio  | Number | 15 |
| 25 | Sharpe Ratio (12m)<br>(Index)                                  | 12-month Index Sharpe Ratio   | Number | 15 |
| 26 | pit  | Closing price of constituent on report date   | Number | 3  |
| 27 | pi0 (last regular<br>rebalancing)                              | Opening price of constituent on the trading day before the first inclusion in the index   | Number | 3  |
| 28 | qi0 (last regular<br>rebalancing)                              | Number of shares of constituent on the first inclusion in the index   | Number | 0  |
| 29 | qit (last regular<br>rebalancing)                              | Number of shares of constituent on the last rebalancing date  | Number | 0  |
| 30 | ffit (last regular<br>rebalancing)                             | Free float factor of constituent on the last rebalancing date   | Number | 4  |
| 31 | ci (last regular<br>rebalancing)                               | Adjustment factor of the constituent on the last rebalancing date   | Number | 6  |
| 32 | Market Cap. (in Mio.)<br>(last regular<br>rebalancing)         | Constituent Market Capitalisation on the last rebalancing date (in millions)  | Number | 2  |
| 33 | Weight (last regular<br>rebalancing)                           | Weighting of the constituent in the index on the last rebalancing date  | Number | 4  |
| 34 | Fi (last regular<br>rebalancing)                               | Weighting factor F of the constituent (provides information on the<br>number of shares required from each constituent to track the<br>underlying portfolio) on the last rebalancing date  | Number | 15 |
| 35 | Fi (norm 1m EUR) (last<br>regular rebalancing)                 | Normalized Fi factor, calculated as Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> / SUM(Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> *P <sub>it</sub> ) *<br>1000000           | Number | 15 |
| 36 | Fi (norm Index) (last<br>regular rebalancing)                  | Normalized Fi factor, calculated as Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> / SUM(Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> *P <sub>it</sub> ) *<br>Index close value | Number | 15 |



| 37 | Quintil            | Quintile rank of the constituent by weight | Number | 0  |
|----|--------------------|--|--------|----|
| 38 | Performance (1d)   | 1-day Constituent Performance              | Number | 15 |
| 39 | Performance (1m)   | 1-month Constituent Performance            | Number | 15 |
| 40 | Performance (12m)  | 12-month Constituent Performance           | Number | 15 |
| 41 | Performance (ytd)  | YTD Constituent Performance                | Number | 15 |
| 42 | Volatility (1m)    | 1-month Constituent Volatility             | Number | 15 |
| 43 | Volatility (12m)   | 12-month Constituent Volatility            | Number | 15 |
| 44 | Sharpe Ratio (1m)  | 1-month Constituent Sharpe Ratio           | Number | 15 |
| 45 | Sharpe Ratio (12m) | 12-month Constituent Sharpe Ratio          | Number | 15 |
| 46 | Beta (1m)          | 1-month Constituent Beta                   | Number | 15 |
| 47 | Beta (12m)         | 12-months Constituent Beta                 | Number | 15 |
| 48 | Correlation (1m)   | 1-month Constituent Correlation            | Number | 15 |
| 49 | Correlation (12m)  | 12-months Constituent Correlation          | Number | 15 |

### 2.1.2. Sector (xls) Format

This report contains both index and constituent information based on market closing values and indicators as of the last rebalancing date. The file includes all indices per family. The file is publicly available on Qontigo Website with the following naming convention:

- > File name:
  - daxglobalasiabranchenindizes\_icr.xls daxsectorallindizes\_icr.xls daxsectorindizes\_icr.xls daxsubsectorallindizes\_icr.xls daxsubsectorindizes\_icr.xls daxsupersectorindizes\_icr\_YYYYMMDD.xls daxsectorallindizes\_icr\_YYYYMMDD.xls daxsubsectorallindizesZYYYYMMDD.xls daxsubsectorindizes\_icr\_YYYYMMDD.xls daxsubsectorindizes\_icr\_YYYYMMDD.xls daxsubsectorindizes\_icr\_YYYYMMDD.xls
- > File type: .xls
- > File specification: semicolon separated
- > File frequency: daily at COB

The file is available on MD+S Interactive platform for licensed users.

> File name:

DAXglobalAsiaBranchenindizes\_ICR DAXglobalAsiaBranchenindizes\_ICR.YYYYMMDD.xls DAXsectorAllIndizes\_ICR DAXsectorAllIndizes\_ICR.YYYYMMDD.xls DAXsectorIndizes\_ICR.YYYYMMDD.xls DAXsubsectorAllIndizes\_ICR.YYYYMMDD.xls DAXsubsectorAllIndizes\_ICR DAXsubsectorIndizes\_ICR



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DAXsubsectorIndizes\_ICR.YYYYMMDD.xls DAXsupersectorIndizes\_ICR DAXsupersectorIndizes\_ICR.YYYYMMDD.xls

- > File type: .xls
- > File specification: semicolon separated
- > File frequency: daily at COB

The file content is the same as the one described in section 2.1.1 of this guide.

#### 2.1.3.Composite (csv) format

This report contains both index and constituent information based on market closing values and indicators as of the last rebalancing date. The file includes all indices per family. The file is available on MD+S Interactive platform for licensed users.

> File name:

DBAGEquityIndices\_All\_ICR.YYYYMMDD.csv DBAGEquityIndices\_Germany\_ICR.YYYYMMDD.csv DBAGBlueChipEquity\_Germany\_ICR.YYYYMMDD.csv

- > File type: .csv
- > File specification: semicolon separated
- > File frequency: daily at COB

| Column<br>ID | Attribute  | Description   | Data Type | Data<br>Format |
|--------------|--|---|-----------|----------------|
| 1            | Day  | Report date   | Date      | mm/dd/yyyy     |
| 2            | Index Trading Symbol                             | Index Trading Symbol  | Text      | 4              |
| 3            | Index Name                                       | Index Name  | Text      | 255            |
| 4            | Index ISIN                                       | Index ISIN  | Text      | 12             |
| 5            | Trading Symbol                                   | Constituent Trading Symbol  | Text      | 4              |
| 6            | Instrument                                       | Constituent Name  | Text      | 255            |
| 7            | ISIN   | Constituent ISIN  | Text      | 12             |
| 8            | Country  | Constituent Country (currently not maintained)  | Text      | n/a            |
| 9            | Transparency Level                               | Market segment of the constituent (text "Prime Standard", "General<br>Standard" or "Scale" for constituents listed on Frankfurt Stock<br>Exchange; n/a otherwise) | Text      | 16             |
| 10           | Instrument Exchange                              | Constituent Exchange  | Text      | 20             |
| 11           | Index Value (close)                              | Index Close Value on report date  | Number    | 2              |
| 12           | Index Settlement Value<br>(Future)               | Index Future Settlement Value on report date  | Number    | 2              |
| 13           | Index Settlement Value<br>(Kassa)                | Index Kassa Settlement Value on report date   | Number    | 2              |
| 14           | Index Settlement Value<br>(Option)               | Index Option Settlement Value on report Date  | Number    | 2              |
| 15           | Constant A (last regular<br>rebalancing) (Index) | Index Base value to be used in conjunction with Fi factor on the last rebalancing date  | Number    | 7              |
| 16           | Kt (last regular<br>rebalancing) (Index)         | Index Chaining Factor on the last rebalancing date  | Number    | 7              |







|    | Market Can (in Min)                                    |  |        |    |
|----|--|--|--------|----|
| 17 | Market Cap. (in Mio.)<br>(last regular                 | Index Market Capitalisation (in millions) on the last rebalancing date   | Number | 2  |
| 17 | rebalancing) (Index)                                   | index Market Capitalisation (in minoris) on the last rebalancing date  | Number | 2  |
| 18 | # Constituents   | Number of Index constituents   | Number | 0  |
| 19 | Performance (1d)<br>(Index)                            | 1-day Index performance  | Number | 15 |
| 20 | Performance (1m)<br>(Index)                            | 1-month Index performance  | Number | 15 |
| 21 | Performance (12m)<br>(Index)                           | 12-month Index performance   | Number | 15 |
| 22 | Performance (ytd)<br>(Index)                           | YTD Index performance  | Number | 15 |
| 23 | Volatility (1m) (Index)                                | 1-month Index Volatility   | Number | 15 |
| 24 | Volatility (12m) (Index)                               | 12-month Index Volatility  | Number | 15 |
| 25 | Sharpe Ratio (1m)<br>(Index)                           | 1-month Index Sharpe Ratio   | Number | 15 |
| 26 | Sharpe Ratio (12m)<br>(Index)                          | 12-month Index Sharpe Ratio  | Number | 15 |
| 27 | pit  | Closing price of constituent on report date  | Number | 3  |
| 28 | pi0 (last regular<br>rebalancing)                      | Opening price of constituent on the trading day before the first inclusion in the index  | Number | 3  |
| 29 | qi0 (last regular<br>rebalancing)                      | Number of shares of constituent on the first inclusion in the index  | Number | 0  |
| 30 | qit (last regular<br>rebalancing)                      | Number of shares of constituent on the last rebalancing date   | Number | 0  |
| 31 | ffit (last regular<br>rebalancing)                     | Free float factor of constituent on the last rebalancing date  | Number | 4  |
| 32 | ci (last regular<br>rebalancing)                       | Adjustment factor of the constituent on the last rebalancing date  | Number | 6  |
| 33 | Market Cap. (in Mio.)<br>(last regular<br>rebalancing) | Constituent Market Capitalisation on the last rebalancing date (in millions)   | Number | 2  |
| 34 | Weight (last regular<br>rebalancing)                   | Weighting of the constituent in the index on the last rebalancing date   | Number | 4  |
| 35 | Fi (last regular<br>rebalancing)                       | Weighting factor F of the constituent (provides information on the<br>number of shares required from each constituent to track the<br>underlying portfolio) on the last rebalancing date | Number | 15 |
| 36 | Fi (norm 1m EUR) (last<br>regular rebalancing)         | Normalized Fi factor, calculated as Qit*FFit*Cit /<br>SUM(Qit*FFit*Cit*Pit) * 1000000  | Number | 15 |
| 37 | Fi (norm Index) (last<br>regular rebalancing)          | Normalized Fi factor, calculated as Qit*FFit*Cit /<br>SUM(Qit*FFit*Cit*Pit) * Index close value  | Number | 15 |
| 38 | Quintil  | Quintile rank of the constituent by weight   | Number | 0  |
| 39 | Performance (1d)                                       | 1-day Constituent Performance  | Number | 15 |
| 40 | Performance (1m)                                       | 1-month Constituent Performance  | Number | 15 |
| 41 | Performance (12m)                                      | 12-month Constituent Performance   | Number | 15 |
| 42 | Performance (ytd)                                      | YTD Constituent Performance  | Number | 15 |
| 43 | Volatility (1m)  | 1-month Constituent Volatility   | Number | 15 |
| 44 | Volatility (12m)                                       | 12-month Constituent Volatility  | Number | 15 |
| 45 | Sharpe Ratio (1m)                                      | 1-month Constituent Sharpe Ratio   | Number | 15 |
| 46 | Sharpe Ratio (12m)                                     | 12-month Constituent Sharpe Ratio  | Number | 15 |
| 47 | Beta (1m)  | 1-month Constituent Beta   | Number | 15 |
| 48 | Beta (12m)   | 12-months Constituent Beta   | Number | 15 |
| 49 | Correlation (1m)                                       | 1-month Constituent Correlation  | Number | 15 |







| 50 | Correlation (12m) | 12-months Constituent Correlation | Number | 15 |
|----|-------------------|-----------------------------------|--------|----|

## 2.2. Index Weightings File

This report contains both index and constituent information based on market closing values as well as index and constituent adjustments to be effective the next index dissemination day. The file is available on MD+S Interactive platform for licensed users.

- > File name:
  - INDEXNAME\_Weighting\_File.YYYYMMDD.xls
- > File type: .xls
- > File frequency: daily at COB

The report consists of four tabs:

- 1. Cover displays file and index name, report date and Customer Support contact details
- 2. Index navigation page to switch between tabs
- 3. Data for today index and constituent closing data
- 4. **Data for next day** index and constituent data adjusted for the next dissemination day

The file specifications will cover tabs "Data for today" and "Data for next day".

#### 2.2.1.DAX National Indices

Constituent related data starts at Row 8.

| Column<br>ID | Attribute             | Description   | Data<br>Type | Data<br>Format |
|--------------|-----------------------|---|--------------|----------------|
| 1            | Empty                 | Empty   | N/A          | N/A            |
| 2            | Trading Symbol        | Constituent Trading Symbol  | Text         | 4              |
| 3            | Reporting Instrument  | Constituent Name  | Text         | 255            |
| 4            | ISIN                  | Constituent ISIN  | Text         | 12             |
| 5            | Sector                | Constituent Sector (filled only for constituents listed on Frankfurt<br>Stock Exchange; n/a otherwise)  | Text         | 255            |
| 6            | pi0                   | Opening price of constituent on the trading day before the first inclusion in the index   | Number       | 3              |
| 7            | pit                   | Closing price of constituent on report date   | Number       | 3              |
| 8            | qi0                   | Number of shares of constituent on the first inclusion in the index   | Text         | 0              |
| 9            | qit                   | Number of shares of constituent on report date  | Number       | 0              |
| 10           | ffit                  | Free float factor of constituent on report date   | Number       | 4              |
| 11           | ci                    | Adjustment factor of the constituent – performance index  | Number       | 6              |
| 12           | Market Cap. (in Mio.) | Market Capitalisation on report date (in millions) – performance index  | Number       | 2              |
| 13           | Fi                    | Weighting factor F of the constituent (provides information on the<br>number of shares required from each constituent to<br>track the underlying portfolio) – performance index | Number       | 5              |
| 14           | Weight                | Weighting of the constituent in the index – performance index   | Number       | 4              |
| 15           | Empty                 | Empty   | N/A          | N/A            |
| 16           | ci                    | Adjustment factor of the constituent – price index  | Number       | 6              |





| 17 | Market Cap. (in Mio.) | Market Capitalisation on report date (in millions) – price index  | Number | 2 |
|----|-----------------------|---|--------|---|
| 18 | Fi                    | Weighting factor F of the constituent (provides information on the number of shares required from each constituent to track the underlying portfolio) – price index | Number | 5 |
| 19 | Weight                | Weighting of the constituent in the index – price index   | Number | 4 |

#### Index related data starts at **Row N<sup>1</sup> + 11.**

| Column | Attribute      | Description   | Data   | Data   |
|--------|----------------|---|--------|--------|
| ID     | Attribute      | Description   | Туре   | Format |
| 1      | Empty          | Empty   | N/A    | N/A    |
| 2      | Trading Symbol | Index Trading Symbol                                      | Text   | 4      |
| 3      | Index          | Index Name  | Text   | 255    |
| 4      | ISIN           | Index ISIN  | Text   | 12     |
| 5      | Market Cap.    | Market Capitalisation on report date (in millions)        | Number | 2      |
| 6      | Kt             | Index Chaining Factor                                     | Number | 7      |
| 7      | Constituents   | Number of Index constituents                              | Number | 0      |
| 8      | Constant A     | Index Base value to be used in conjunction with Fi factor | Number | 7      |
| 9      | Value          | Index closing value                                       | Number | 2      |

#### 2.2.2.DAX International Indices

Constituent related data starts at **Row 9.** 

| Column | Attribute            | Description   | Data   | Data   |
|--------|----------------------|---|--------|--------|
| ID     | Attribute            | Description   | Туре   | Format |
| 1      | Empty                | Empty   | N/A    | N/A    |
| 2      | Trading Symbol       | Constituent Trading Symbol  | Text   | 4      |
| 3      | Reporting Instrument | Constituent Name  | Text   | 255    |
| 4      | ISIN                 | Constituent ISIN  | Text   | 12     |
| 5      | pi0                  | Opening price of constituent on the trading day before the first inclusion in the index   | Number | 3      |
| 6      | pit                  | Closing price of constituent on report date   | Number | 3      |
| 7      | qi0                  | Number of shares of constituent on the first inclusion in the index   | Text   | 0      |
| 8      | qit                  | Number of shares of constituent on report date  | Number | 0      |
| 9      | ffit                 | Free float factor of constituent on report date   | Number | 4      |
| 10     | ci                   | Adjustment factor of the constituent – performance index  | Number | 6      |
| 11     | Fi                   | Weighting factor F of the constituent (provides information on the<br>number of shares required from each constituent to<br>track the underlying portfolio) – performance index | Number | 15     |
| 12     | Weight               | Weighting of the constituent in the index – performance index   | Number | 4      |
| 13     | Exchange             | Constituent exchange code   | Text   | 3      |
| 14     | Country/Sector       | Constituent country   | Text   | 255    |
| 15     | Empty                | Empty   | N/A    | N/A    |
| 16     | Trading Symbol       | Constituent Trading Symbol  | Text   | 4      |
| 17     | Reporting Instrument | Constituent Name  | Text   | 255    |
| 18     | ISIN                 | Constituent ISIN  | Text   | 12     |
| 19     | ci                   | Adjustment factor of the constituent – price index  | Number | 6      |

 $<sup>^{\</sup>rm 1}$  Where N is the number of components in the index



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| 20 | Fi             | Weighting factor F of the constituent (provides information on the number of shares required from each constituent to track the underlying portfolio) – price index |        |     |
|----|----------------|---|--------|-----|
| 21 | Weight         | Weighting of the constituent in the index – price index   | Number | 4   |
| 22 | Country/Sector | Constituent country   | Text   | 255 |

#### Index related data starts at **Row N<sup>2</sup> + 12.**

| Column | Attribute      | Description   | Data   | Data   |
|--------|----------------|---|--------|--------|
| ID     |                | <u> </u>  | Туре   | Format |
| 1      | Empty          | Empty   | N/A    | N/A    |
| 2      | Trading Symbol | Index Trading Symbol                                      | Text   | 4      |
| 3      | Index          | Index Name  | Text   | 255    |
| 4      | ISIN           | Index ISIN  | Text   | 12     |
| 5      | Market Cap.    | Market Capitalisation on report date (in millions)        | Number | 2      |
| 6      | Kt             | Index Chaining Factor                                     | Number | 7      |
| 7      | Constituents   | Number of Index constituents                              | Number | 0      |
| 8      | Constant A     | Index Base value to be used in conjunction with Fi factor | Number | 7      |
| 9      | Value          | Index closing value                                       | Number | 2      |

#### 2.2.3.DAX Dividend Point Indices

This report contains dividend points for each constituent in the index. The file is publicly available on Qontigo Website with the following naming convention:

- > File name:
- > dvp\_xxxx.xls
- > dvp\_xxxxx\_YYYYMMDD.xls
- > With xxxxx being the Index Symbol
- > File type: .xls
- > File frequency: daily at COB

The file is available on MD+S Interactive platform for licensed users with the following naming convention:

- > File name:
  - DAXDividendPoints\_Weighting\_File.YYYYMMDD.xls DivDAXDividendPoints\_Weighting\_File.YYYYMMDD.xls
- > File type: .xls
- > File frequency: daily at COB

The report consists of four tabs:

- 1. Cover displays file and index name, report date and Customer Support contact details
- 2. Index navigation page to switch between tabs

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<sup>&</sup>lt;sup>2</sup> Where N is the number of components in the index



3. **Data** – dividend point

The file specifications will cover tab "Data".

Constituent related data starts at **Row 8.** 

| Column<br>ID | Attribute            | Description                        | Data<br>Type | Data<br>Format |
|--------------|----------------------|------------------------------------|--------------|----------------|
| 1            | Trading Symbol       | Constituent Trading Symbol         | Text         | 4              |
| 2            | Reporting Instrument | Constituent Name                   | Text         | 255            |
| 3            | ISIN                 | Constituent ISIN                   | Text         | 12             |
| 4            | Dividend Points      | Dividend points of the constituent | Number       | 4              |

## 2.3. Index Weightings SEDOL

This report contains both index and constituent information based on market closing values as well as index and constituent adjustments to be effective the next index dissemination day. The file is produced only for selected DAXglobal and DAXplus indices. The file is available on MD+S Interactive platform for licensed users.

- > File name:
  - INDEXNAME\_ Weighting\_File\_ext.YYYYMMDD.xls
- > File type: .xls
- > File frequency: daily at COB

The report consists of four tabs:

- 1. **Cover** displays file and index name, report date and Customer Support contact details
- 2. **Index** navigation page to switch between tabs
- 3. Data for today index and constituent closing data
- 4. **Data for next day** index and constituent data adjusted for the next dissemination day

The file specifications will cover tabs "Data for today" and "Data for next day".

Constituent related data starts at **Row 9.** 

| Column<br>ID | Attribute            | Description  | Data<br>Type | Data<br>Format |
|--------------|----------------------|--|--------------|----------------|
| 1            | Empty                | Empty  | N/A          | N/A            |
| 2            | Trading Symbol       | Constituent Trading Symbol   | Text         | 4              |
| 3            | Reporting Instrument | Constituent Name   | Text         | 255            |
| 4            | ISIN                 | Constituent ISIN   | Text         | 12             |
| 5            | Sedol                | Constituent SEDOL code   | Text         | 7              |
| 6            | pi0 (EUR)            | Opening price (in EUR) of constituent on the trading day before the first inclusion in the index | Number       | 5              |
| 7            | pit (EUR)            | Closing price (in EUR) of constituent on report date   | Number       | 5              |
| 8            | Local Currency       | Constituent ISO currency code  | Text         | 3              |
| 9            | Currency Rate        | Constituent currency conversion rate (from local currency to EUR)                                | Number       | 10             |
| 10           | pit (local)          | Closing price (in local currency) of constituent on report date                                  | Number       | 3              |
| 11           | pit (US\$)           | Closing price (in USD) of constituent on report date   | Number       | 10             |



| 12 | qi0                  | Number of shares of constituent on the first inclusion in the index   | Text   | 0   |
|----|----------------------|---|--------|-----|
| 13 | qit                  | Number of shares of constituent on report date  | Number | 0   |
| 14 | ffit                 | Free float factor of constituent on report date   | Number | 4   |
| 15 | ci                   | Adjustment factor of the constituent – performance index  | Number | 6   |
| 16 | Fi                   | Weighting factor F of the constituent (provides information on the number of shares required from each constituent to track the underlying portfolio) – performance index | Number | 5   |
| 17 | Weight               | Weighting of the constituent in the index – performance index   | Number | 4   |
| 18 | Exchange             | Constituent exchange code   | Text   | 3   |
| 19 | Country/Sector       | Constituent country   | Text   | 255 |
| 20 | Empty                | Empty   | N/A    | N/A |
| 21 | Trading Symbol       | Constituent Trading Symbol  | Text   | 4   |
| 22 | Reporting Instrument | Constituent Name  | Text   | 255 |
| 23 | ISIN                 | Constituent ISIN  | Text   | 12  |
| 24 | ci                   | Adjustment factor of the constituent – price index  | Number | 6   |
| 25 | Fi                   | Weighting factor F of the constituent (provides information on the<br>number of shares required from each constituent to<br>track the underlying portfolio) – price index |        |     |
| 26 | Weight               | Weighting of the constituent in the index – price index   | Number | 4   |
| 27 | Country/Sector       | Constituent country   | Text   | 255 |

Index related data starts in **Row N<sup>3</sup> + 12.** 

| Column<br>ID | Attribute      | Description   | Data<br>Type | Data<br>Format |
|--------------|----------------|---|--------------|----------------|
| 1            | Empty          | Empty   | N/A          | N/A            |
| 2            | Trading Symbol | Index Trading Symbol                                      | Text         | 4              |
| 3            | Index          | Index Name  | Text         | 255            |
| 4            | ISIN           | Index ISIN  | Text         | 12             |
| 5            | Market Cap.    | Market Capitalisation on report date (in millions)        | Number       | 2              |
| 6            | Kt             | Index Chaining Factor                                     | Number       | 7              |
| 7            | Constituents   | Number of Index constituents                              | Number       | 0              |
| 8            | Constant A     | Index Base value to be used in conjunction with Fi factor | Number       | 7              |
| 9            | Value          | Index closing value                                       | Number       | 2              |

## 2.4. Index Weightings Basic

This report contains both index and constituent information based on market closing values as well as index and constituent adjustments to be effective the next index dissemination day. The file is available on MD+S Interactive platform for licensed users.

### 2.4.1.Standard (xls) format

The standard format includes both current day and next dissemination day data in the same file.

> File name:

INDEXNAME\_IWB.YYYYMMDD.xls

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<sup>&</sup>lt;sup>3</sup> Where N is the number of components in the index



- > File type: .xls
- > File frequency: daily at COB

The report consists of four tabs:

- 1. Cover displays file and index name, report date and Customer Support contact details
- 2. Data for today index and constituent closing data
- 3. Data for next day index and constituent data adjusted for the next dissemination day
- 4. Info Displays Customer Support contact details and a legend of measures used in calculation

The file specifications will cover tabs "Data for today" and "Data for next day".

| Column<br>ID | Attribute                          | Description   | Data<br>Type | Data<br>Format |
|--------------|------------------------------------|---|--------------|----------------|
| 1            | Index Trading Symbol               | Index Trading Symbol  | Text         | 4              |
| 2            | Index Name                         | Index Name  | Text         | 255            |
| 3            | Index ISIN                         | Index ISIN  | Text         | 12             |
| 4            | Trading Symbol                     | Constituent Trading Symbol  | Text         | 4              |
| 5            | Instrument                         | Constituent Name  | Text         | 255            |
| 6            | ISIN                               | Constituent ISIN  | Text         | 12             |
| 7            | Sector                             | Constituent Sector (filled only for constituents listed on Frankfurt<br>Stock Exchange; n/a otherwise)  | Text         | 255            |
| 8            | Subsector                          | Constituent Subsector (filled only for constituents listed on<br>Frankfurt Stock Exchange; n/a otherwise)   | Text         | 255            |
| 9            | Country                            | Constituent Country (currently not maintained)  | Text         | n/a            |
| 10           | Transparency Level                 | Market segment of the constituent (text "Prime Standard", "General<br>Standard" or "Scale" for constituents listed on Frankfurt Stock<br>Exchange; n/a otherwise) | Text         | 16             |
| 11           | Instrument Exchange                | Constituent Exchange  | Text         | 20             |
| 12           | Index Value (close)                | Index Close Value on report date  | Number       | 2              |
| 13           | Index Settlement Value<br>(Future) | Index Future Settlement Value on report date  | Number       | 2              |
| 14           | Index Settlement Value<br>(Kassa)  | Index Kassa Settlement Value on report date   | Number       | 2              |
| 15           | Index Settlement Value<br>(Option) | Index Option Settlement Value on report Date  | Number       | 2              |
| 16           | Constant A                         | Index Base value to be used in conjunction with Fi factor   | Number       | 7              |
| 17           | Kt                                 | Index Chaining Factor   | Number       | 7              |
| 18           | Market Cap (in Mio.)<br>(Index)    | Index Market Capitalisation (in millions)   | Number       | 2              |
| 19           | # Constituents                     | Number of Index constituents  | Number       | 0              |
| 20           | pit (close)                        | Closing price of constituent on report date   | Number       | 3              |
| 21           | pi0                                | Opening price of constituent on the trading day before the first inclusion in the index   | Number       | 3              |
| 22           | qi0                                | Number of shares of constituent on the first inclusion in the index   | Number       | 0              |
| 23           | qit                                | Number of shares of constituent on report date  | Number       | 0              |
| 24           | ffit                               | Free float factor of constituent on report date   | Number       | 4              |
| 25           | ci                                 | Adjustment factor of the constituent  | Number       | 6              |
| 26           | Market Cap. (in Mio.)              | Market Capitalisation on report date (in millions)  | Number       | 2              |
| 27           | Weight                             | Weighting of the constituent in the index   | Number       | 4              |





| 28 | Fi                            | Weighting factor F of the constituent (provides information on the<br>number of shares required from each constituent to track the<br>underlying portfolio)                               | Number | 15 |
|----|-------------------------------|---|--------|----|
| 29 | Fi (norm 1m EUR)              | Normalized Fi factor, calculated as Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> / SUM(Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> *P <sub>it</sub> ) * 1000000              | Number | 15 |
| 30 | Fi (norm Index)               | Normalized Fi factor, calculated as Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> / SUM(Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> *P <sub>it</sub> ) *<br>Index close value | Number | 15 |
| 31 | Quintil                       | Quintile rank of the constituent by weight  | Number | 0  |
| 32 | Performance (1d)<br>(Index)   | 1-day Index performance   | Number | 15 |
| 33 | Performance (1m)<br>(Index)   | 1-month Index performance   | Number | 15 |
| 34 | Performance (12m)<br>(Index)  | 12-months Index performance   | Number | 15 |
| 35 | Performance (ytd)<br>(Index)  | YTD Index performance   | Number | 15 |
| 36 | Volatility (1m) (Index)       | 1-month Index Volatility  | Number | 15 |
| 37 | Volatility (12m) (Index)      | 12-months Index Volatility  | Number | 15 |
| 38 | Sharpe Ratio (1m)<br>(Index)  | 1-month Index Sharpe Ratio  | Number | 15 |
| 39 | Sharpe Ratio (12m)<br>(Index) | 12-months Index Sharpe Ratio  | Number | 15 |
| 40 | Performance (1d)              | 1-day Constituent Performance   | Number | 15 |
| 41 | Performance (1m)              | 1-month Constituent Performance   | Number | 15 |
| 42 | Performance (12m)             | 12-month Constituent Performance  | Number | 15 |
| 43 | Performance (ytd)             | YTD Constituent Performance   | Number | 15 |
| 44 | Volatility (1m)               | 1-month Constituent Volatility  | Number | 15 |
| 45 | Volatility (12m)              | 12-month Constituent Volatility   | Number | 15 |
| 46 | Beta (1m)                     | 1-month Constituent Beta  | Number | 15 |
| 47 | Beta (12m)                    | 12-months Constituent Beta  | Number | 15 |
| 48 | Correlation (1m)              | 1-month Constituent Correlation   | Number | 15 |
| 49 | Correlation (12m)             | 12-months Constituent Correlation   | Number | 15 |
| 50 | Sharpe Ratio (1m)             | 1-month Constituent Sharpe Ratio  | Number | 15 |
| 51 | Sharpe Ratio (12m)            | 12-month Constituent Sharpe Ratio   | Number | 15 |

#### 2.4.2.CSV format

In this format, data for current day and next dissemination is displayed in two files. This file is produced only for selected indices.

> File name:

INDEXNAME\_IWB\_TD.YYYYMMDD.csv – current day INDEXNAME\_IWB\_ND.YYYYMMDD.csv – next dissemination day

- > File type: .csv
- > File specification: semicolon separated
- > File frequency: daily at COB

| Column<br>ID | Attribute     | Description                | Data Type | Data<br>Format |
|--------------|---------------|----------------------------|-----------|----------------|
| 1            | Day           | Report date                | Date      | dd/mm/yyyy     |
| 2            | Day Indicator | Text "Today" or "Next day" | Text      | 8              |



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| 4<br>5<br>6<br>7<br>8<br>9 | Index Trading Symbol<br>Index Name<br>Index ISIN<br>Trading Symbol<br>Instrument<br>ISIN | Index Trading Symbol<br>Index Name<br>Index ISIN<br>Constituent Trading Symbol  | Text<br>Text | 255<br>12 |
|----------------------------|--|---|--------------|-----------|
| 6<br>7<br>8                | Trading Symbol<br>Instrument   |   |              | 12        |
| 7<br>8                     | Instrument   |   |              |           |
| 8                          | Instrument   |   | Text         | 4         |
| 8                          |  | Constituent Name  | Text         | 255       |
| _                          |  | Constituent ISIN  | Text         | 12        |
|                            | Sector   | Constituent Sector (filled only for constituents listed on Frankfurt<br>Stock Exchange; n/a otherwise)  | Text         | 255       |
| 10                         | Subsector  | Constituent Subsector (filled only for constituents listed on<br>Frankfurt Stock Exchange; n/a otherwise)   | Text         | 255       |
| 11                         | Country  | Constituent Country (currently not maintained)  | Text         | n/a       |
| 12                         | Transparency Level   | Market segment of the constituent (text "Prime Standard", "General<br>Standard" or "Scale" for constituents listed on Frankfurt Stock<br>Exchange; n/a otherwise) | Text         | 16        |
| 13                         | Instrument Exchange  | Constituent Exchange  | Text         | 20        |
| 14                         | Index Value (close)  | Index Close Value on report date  | Number       | 2         |
| 15                         | Index Settlement Value<br>(Future)   | Index Future Settlement Value on report date  | Number       | 2         |
| 16                         | Index Settlement Value<br>(Kassa)  | Index Kassa Settlement Value on report date   | Number       | 2         |
| 17                         | Index Settlement Value<br>(Option)   | Index Option Settlement Value on report Date  | Number       | 2         |
| 18                         | Constant A   | Index Base value to be used in conjunction with Fi factor   | Number       | 7         |
| 19                         | Kt   | Index Chaining Factor   | Number       | 7         |
| 20                         | Market Cap (in Mio.)<br>(Index)  | Index Market Capitalisation (in millions)   | Number       | 2         |
| 21                         | # Constituents   | Number of Index constituents  | Number       | 0         |
| 22                         | pit (close)  | Closing price of constituent on report date   | Number       | 3         |
| 23                         | pi0  | Opening price of constituent on the trading day before the first inclusion in the index   | Number       | 3         |
| 24                         | qi0  | Number of shares of constituent on the first inclusion in the index   | Number       | 0         |
| 25                         | qit  | Number of shares of constituent on report date  | Number       | 0         |
| 26                         | ffit   | Free float factor of constituent on report date   | Number       | 4         |
| 27                         | ci   | Adjustment factor of the constituent  | Number       | 6         |
| 28                         | Market Cap. (in Mio.)  | Market Capitalisation on report date (in millions)  | Number       | 2         |
| 29                         | Weight   | Weighting of the constituent in the index   | Number       | 4         |
| 30                         | Fi   | Weighting factor F of the constituent (provides information on the number of shares required from each constituent to track the underlying portfolio)             | Number       | 6         |
| 31                         | Fi (norm 1m EUR)   | Normalized Fi factor, calculated as Qit*FFit*Cit /<br>SUM(Qit*FFit*Cit*Pit) * 1000000   | Number       | 6         |
| 32                         | Fi (norm Index)  | Normalized Fi factor, calculated as Qit*FFit*Cit /<br>SUM(Qit*FFit*Cit*Pit) * Index close value   | Number       | 6         |
| 33                         | Quintil  | Quintile rank of the constituent by weight  | Number       | 0         |
| 34                         | Performance (1d)<br>(Index)  | 1-day Index performance   | Number       | 4         |
| 35                         | Performance (1m)<br>(Index)  | 1-month Index performance   | Number       | 4         |
| 36                         | Performance (12m)<br>(Index)   | 12-months Index performance   | Number       | 4         |
| 37                         | Performance (ytd)<br>(Index)   | YTD Index performance   | Number       | 4         |
| 38                         | Volatility (1m) (Index)  | 1-month Index Volatility  | Number       | 4         |
| 37                         | Performance (ytd)<br>(Index)   | YTD Index performance   | Number       | 4         |





| 39 | Volatility (12m) (Index)      | 12-months Index Volatility        | Number | 4 |
|----|-------------------------------|-----------------------------------|--------|---|
| 40 | Sharpe Ratio (1m)<br>(Index)  | 1-month Index Sharpe Ratio        | Number | 4 |
| 41 | Sharpe Ratio (12m)<br>(Index) | 12-months Index Sharpe Ratio      | Number | 4 |
| 42 | Performance (1d)              | 1-day Constituent Performance     | Number | 4 |
| 43 | Performance (1m)              | 1-month Constituent Performance   | Number | 4 |
| 44 | Performance (12m)             | 12-month Constituent Performance  | Number | 4 |
| 45 | Performance (ytd)             | YTD Constituent Performance       | Number | 4 |
| 46 | Volatility (1m)               | 1-month Constituent Volatility    | Number | 4 |
| 47 | Volatility (12m)              | 12-month Constituent Volatility   | Number | 4 |
| 48 | Beta (1m)                     | 1-month Constituent Beta          | Number | 4 |
| 49 | Beta (12m)                    | 12-months Constituent Beta        | Number | 4 |
| 50 | Correlation (1m)              | 1-month Constituent Correlation   | Number | 4 |
| 51 | Correlation (12m)             | 12-months Constituent Correlation | Number | 4 |

## 2.5. Index Weightings Premium

#### 2.5.1.Standard (xls) format

This report contains both index and constituent information based on market closing values as well as index and constituent adjustments to be effective the next index dissemination day. It also includes various statistical measures. The file is available on MD+S Interactive platform for licensed users and generated in multiple versions according to the Third-Party Data license the client is entitled to.

- > File name:
  - INDEXNAME\_IWP.YYYMMDD.xls
  - INDEXNAME\_IWP\_P001.YYYYMMDD.xls with P001 Permissioned Third-Party data as described in section 1.2 of the DAX File Guide
- > File type: .xls
- > File frequency: daily at COB

The report consists of four tabs:

- 1. **Cover** displays file and index name, report date and Customer Support contact details
- 2. Data for today index and constituent closing data
- 3. Data for next day index and constituent data adjusted for the next dissemination day
- 4. Info Displays Customer Support contact details and a legend of measures used in calculation

The file specifications will cover tabs "Data for today" and "Data for next day".

| Column<br>ID | Attribute            | Description                | Data<br>Type | Data<br>Format |
|--------------|----------------------|----------------------------|--------------|----------------|
| 1            | Index Trading Symbol | Index Trading Symbol       | Text         | 4              |
| 2            | Index Name           | Index Name                 | Text         | 255            |
| 3            | Index ISIN           | Index ISIN                 | Text         | 12             |
| 4            | Trading Symbol       | Constituent Trading Symbol | Text         | 4              |





| 5  | Instrument                         | Constituent Name  | Text   | 255 |
|----|------------------------------------|---|--------|-----|
| 6  | ISIN                               | Constituent ISIN  | Text   | 12  |
| 7  | Sector                             | Constituent Sector (filled only for constituents listed on Frankfurt  | Text   | 255 |
| 8  | Subsector                          | Stock Exchange; n/a otherwise)<br>Constituent Subsector (filled only for constituents listed on   | Text   | 255 |
| Ŭ  | 50,55000                           | Frankfurt Stock Exchange; n/a otherwise)  |        |     |
| 9  | Country                            | Constituent Country (currently not maintained)  | Text   | n/a |
| 10 | Transparency Level                 | Market segment of the constituent (text "Prime Standard", "General<br>Standard" or "Scale" for constituents listed on Frankfurt Stock<br>Exchange; n/a otherwise)                         | Text   | 16  |
| 11 | Sedol                              | Constituent SEDOL code (only displayed if licensed)   | Text   | 7   |
| 12 | BB Ticker                          | Constituent Bloomberg Ticker  | Text   | 6   |
| 13 | Reuters RIC                        | Constituent Refinitiv Instrument Code   | Text   | 21  |
| 14 | Local Currency                     | Constituent ISO currency code   | Text   | 3   |
| 15 | -                                  |   | Text   | 20  |
|    | Instrument Exchange                | Constituent Exchange  |        |     |
| 16 | Index Value (close)                | Index Close Value on report date  | Number | 2   |
| 17 | Index Settlement Value<br>(Future) | Index Future Settlement Value on report date  | Number | 2   |
| 18 | Index Settlement Value<br>(Kassa)  | Index Kassa Settlement Value on report date   | Number | 2   |
| 19 | Index Settlement Value<br>(Option) | Index Option Settlement Value on report Date  | Number | 2   |
| 20 | Constant A                         | Index Base value to be used in conjunction with Fi factor   | Number | 7   |
| 21 | Kt                                 | Index Chaining Factor   | Number | 7   |
| 22 | Market Cap (in Mio.)<br>(Index)    | Index Market Capitalisation (in millions)   | Number | 2   |
| 23 | # Constituents                     | Number of Index constituents  | Number | 0   |
| 24 | pit (close)                        | Closing price of constituent on report date   | Number | 3   |
| 25 | pit (open)                         | Opening price of constituent on report date   | Number | 3   |
| 26 | pit (high)                         | Highest price of constituent on report date   | Number | 3   |
| 27 | pit (low)                          | Lowest price of constituent on report date  | Number | 3   |
| 28 | pi0                                | Opening price of constituent on the trading day before the first inclusion in the index   | Number | 3   |
| 29 | qi0                                | Number of shares of constituent on the first inclusion in the index   | Number | 0   |
| 30 | qit                                | Number of shares of constituent on report date  | Number | 0   |
| 31 | ffit                               | Free float factor of constituent on report date   | Number | 4   |
| 32 | ci                                 | Adjustment factor of the constituent  | Number | 6   |
| 33 | Market Cap. (in Mio.)              | Market Capitalisation on report date (in millions)  | Number | 2   |
| 34 | Weight                             | Weighting of the constituent in the index   | Number | 4   |
| 35 | Fi                                 | Weighting factor F of the constituent (provides information on the<br>number of shares required from each constituent to track the<br>underlying portfolio) – performance index           | Number | 15  |
| 36 | Fi (norm 1m EUR)                   | Normalized Fi factor, calculated as Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> / SUM(Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> *P <sub>it</sub> ) * 1000000              | Number | 15  |
| 37 | Fi (norm Index)                    | Normalized Fi factor, calculated as Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> / SUM(Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> *P <sub>it</sub> ) *<br>Index close value | Number | 15  |
| 38 | Quintil                            | Quintile rank of the constituent by weight  | Number | 0   |
| 39 | Performance (1d)<br>(Index)        | 1-day Index performance   | Number | 15  |
| 40 | Performance (1m)<br>(Index)        | 1-month Index performance   | Number | 15  |
| 41 | Performance (12m)<br>(Index)       | 12-monthis Index performance  | Number | 15  |





| 42 | Performance (ytd)                    | YTD Index performance                                      | Number | 15 |
|----|--------------------------------------|--|--------|----|
|    | (Index)                              |  |        | 15 |
| 43 | Volatility (1m) (Index)              | 1-month Index Volatility                                   | Number | 15 |
| 44 | Volatility (12m) (Index)             | 12-months Index Volatility                                 | Number | 15 |
| 45 | Sharpe Ratio (1m)<br>(Index)         | 1-month Index Sharpe Ratio                                 | Number | 15 |
| 46 | Sharpe Ratio (12m)<br>(Index)        | 12-months Index Sharpe Ratio                               | Number | 15 |
| 47 | Performance (1d)                     | 1-day Constituent Performance                              | Number | 15 |
| 48 | Performance (1m)                     | 1-month Constituent Performance                            | Number | 15 |
| 49 | Performance (3m)                     | 3-month Constituent Performance                            | Number | 15 |
| 50 | Performance (6m)                     | 6-month Constituent Performance                            | Number | 15 |
| 51 | Performance (12m)                    | 12-month Constituent Performance                           | Number | 15 |
| 52 | Performance (ytd)                    | YTD Constituent Performance                                | Number | 15 |
| 53 | Volatility (1m)                      | 1-mnth Constituent Volatility                              | Number | 15 |
| 54 | Volatility (3m)                      | 3-month Constituent Volatility                             | Number | 15 |
| 55 | Volatility (6m)                      | 6-month Constituent Volatility                             | Number | 15 |
| 56 | Volatility (12m)                     | 12-month Constituent Volatility                            | Number | 15 |
| 57 | Volatility (ytd)                     | YTD Constituent Volatility                                 | Number | 15 |
| 58 | Beta (1m)                            | 1-month Constituent Beta                                   | Number | 15 |
| 59 | Beta (1m) to Prime All<br>Share      | 1-month Constituent Beta to the Prime All Share Index      | Number | 15 |
| 60 | Beta (1m) to General<br>All Share    | 1-month Constituent Beta to the General All Share Index    | Number | 15 |
| 61 | Beta (1m) to Entry All<br>Share      | 1-month Constituent Beta to the Entry All Share Index      | Number | 15 |
| 62 | Beta (1m) to Classic All<br>Share    | 1-month Constituent Beta to the Classic All Share Index    | Number | 15 |
| 63 | Beta (1m) to<br>Technology All Share | 1-month Constituent Beta to the Technology All Share Index | Number | 15 |
| 64 | Beta (1m) to DAX                     | 1-month Constituent Beta to the DAX Index                  | Number | 15 |
| 65 | Beta (1m) to MDAX                    | 1-month Constituent Beta to the MDAX Index                 | Number | 15 |
| 66 | Beta (1m) to SDAX                    | 1-month Constituent Beta to the MDAX Index                 | Number | 15 |
| 67 | Beta (1m) to TecDAX                  | 1-month Constituent Beta to the TecDAX Index               | Number | 15 |
| 68 | Beta (3m)                            | 3-month Constituent Beta                                   | Number | 15 |
| 69 | Beta (3m) to Prime All<br>Share      | 3-month Constituent Beta to the Prime All Share Index      | Number | 15 |
| 70 | Beta (3m) to General<br>All Share    | 3-month Constituent Beta to the General All Share Index    | Number | 15 |
| 71 | Beta (3m) to Entry All<br>Share      | 3-month Constituent Beta to the Entry All Share Index      | Number | 15 |
| 72 | Beta (3m) to Classic All<br>Share    | 3-month Constituent Beta to the Classic All Share Index    | Number | 15 |
| 73 | Beta (3m) to<br>Technology All Share | 3-month Constituent Beta to the Technology All Share Index | Number | 15 |
| 74 | Beta (3m) to DAX                     | 3-month Constituent Beta to the DAX Index                  | Number | 15 |
| 75 | Beta (3m) to MDAX                    | 3-month Constituent Beta to the MDAX Index                 | Number | 15 |
| 76 | Beta (3m) to SDAX                    | 3-month Constituent Beta to the MDAX Index                 | Number | 15 |
| 77 | Beta (3m) to TecDAX                  | 3-month Constituent Beta to the TecDAX Index               | Number | 15 |
| 78 | Beta (6m)                            | 6-month Constituent Beta                                   | Number | 15 |
| 79 | Beta (6m) to Prime All<br>Share      | 6-month Constituent Beta to the Prime All Share Index      | Number | 15 |





| Beta (6m) to General<br>All Share        | 6-month Constituent Beta to the General All Share Index  | Number  | 15  |
|--|--|---|---|
| Beta (6m) to Entry All<br>Share          | 6-month Constituent Beta to the Entry All Share Index  | Number  | 15  |
| Beta (6m) to Classic All<br>Share        | 6-month Constituent Beta to the Classic All Share Index  | Number  | 15  |
| Beta (6m) to<br>Technology All Share     | 6-month Constituent Beta to the Technology All Share Index   | Number  | 15  |
| Beta (6m) to DAX                         | 6-month Constituent Beta to the DAX Index  | Number  | 15  |
| Beta (6m) to MDAX                        | 6-month Constituent Beta to the MDAX Index   | Number  | 15  |
| Beta (6m) to SDAX                        | 6-month Constituent Beta to the MDAX Index   | Number  | 15  |
| Beta (6m) to TecDAX                      | 6-month Constituent Beta to the TecDAX Index   | Number  | 15  |
| Beta (12m)                               | 12-month Constituent Beta  | Number  | 15  |
| Beta (12m) to Prime All<br>Share         | 12-month Constituent Beta to the Prime All Share Index   | Number  | 15  |
| Beta (12m) to General<br>All Share       | 12-month Constituent Beta to the General All Share Index   | Number  | 15  |
| Beta (12m) to Entry All<br>Share         | 12-month Constituent Beta to the Entry All Share Index   | Number  | 15  |
| Beta (12m) to Classic<br>All Share       | 12-month Constituent Beta to the Classic All Share Index   | Number  | 15  |
| Beta (12m) to<br>Technology All Share    | 12-month Constituent Beta to the Technology All Share Index  | Number  | 15  |
| Beta (12m) to DAX                        | 12-month Constituent Beta to the DAX Index   | Number  | 15  |
| Beta (12m) to MDAX                       | 12-month Constituent Beta to the MDAX Index  | Number  | 15  |
| Beta (12m) to SDAX                       | 12-month Constituent Beta to the MDAX Index  | Number  | 15  |
| Beta (12m) to TecDAX                     | 12-month Constituent Beta to the TecDAX Index  | Number  | 15  |
| Beta (ytd)                               | YTD Constituent Beta   | Number  | 15  |
| Beta (ytd) to Prime All<br>Share         | YTD Constituent Beta to the Prime All Share Index  | Number  | 15  |
| Beta (ytd) to General<br>All Share       | YTD Constituent Beta to the General All Share Index  | Number  | 15  |
| Beta (ytd) to Entry All<br>Share         | YTD Constituent Beta to the Entry All Share Index  | Number  | 15  |
| Beta (ytd) to Classic All<br>Share       | YTD Constituent Beta to the Classic All Share Index  | Number  | 15  |
| Beta (ytd) to                            | YTD Constituent Beta to the Technology All Share Index   | Number  | 15  |
| Beta (ytd) to DAX                        | YTD Constituent Beta to the DAX Index  | Number  | 15  |
|  | YTD Constituent Beta to the MDAX Index   | Number  | 15  |
| Beta (ytd) to SDAX                       | YTD Constituent Beta to the MDAX Index   | Number  | 15  |
| Beta (ytd) to TecDAX                     | YTD Constituent Beta to the TecDAX Index   | Number  | 15  |
| Correlation (1m)                         | 1-month constituent correlation  | Number  | 15  |
| Correlation (1m) to<br>Prime All Share   |  | Number  | 15  |
| Correlation (1m) to<br>General All Share | 1-month correlation between constituent and General All Share<br>Index   | Number  | 15  |
| Correlation (1m) to<br>Entry All Share   | 1-month correlation between constituent and Entry All Share Index  | Number  | 15  |
| Correlation (1m) to                      | 1-month correlation between constituent and Classic All Share<br>Index   | Number  | 15  |
| Classic All Share                        | Index  |   |   |
|  | All Share<br>Beta (6m) to Entry All<br>Share<br>Beta (6m) to Classic All<br>Share<br>Beta (6m) to Techology All Share<br>Beta (6m) to DAX<br>Beta (6m) to MDAX<br>Beta (6m) to MDAX<br>Beta (6m) to TecDAX<br>Beta (12m) to Prime All<br>Share<br>Beta (12m) to Prime All<br>Share<br>Beta (12m) to Classic<br>All Share<br>Beta (12m) to Classic<br>All Share<br>Beta (12m) to Classic<br>All Share<br>Beta (12m) to Classic<br>All Share<br>Beta (12m) to TecDAX<br>Beta (12m) to DAX<br>Beta (12m) to DAX<br>Beta (12m) to MDAX<br>Beta (12m) to TecDAX<br>Beta (ytd) to Prime All<br>Share<br>Beta (ytd) to Prime All<br>Share<br>Beta (ytd) to Classic All<br>Share<br>Beta (ytd) to TecDAX<br>Beta (ytd) to MDAX<br>Beta (ytd) to MDAX<br>Beta (ytd) to TecDAX<br>Beta (ytd) to TecDAX<br>Correlation (1m) to<br>Prime All Share<br>Correlation (1m) to<br>Entry All Share<br>Correlation (1m) to<br>Entry All Share | All Share       o-month Constituent beta to the General All Share Index         Beta (6m) to Entry All       6-month Constituent Beta to the Entry All Share Index         Beta (6m) to Classic All       6-month Constituent Beta to the Classic All Share Index         Beta (6m) to Classic All       6-month Constituent Beta to the Classic All Share Index         Beta (6m) to DAX       6-month Constituent Beta to the DAX Index         Beta (6m) to SDAX       6-month Constituent Beta to the MDAX Index         Beta (6m) to SDAX       6-month Constituent Beta to the MDAX Index         Beta (6m) to FecDAX       6-month Constituent Beta to the MDAX Index         Beta (12m) to Prime All       12-month Constituent Beta to the Prime All Share Index         Beta (12m) to Prime All       12-month Constituent Beta to the General All Share Index         Beta (12m) to Entry All       12-month Constituent Beta to the Classic All Share Index         Beta (12m) to Classic       12-month Constituent Beta to the Classic All Share Index         Beta (12m) to Classic       12-month Constituent Beta to the Classic All Share Index         Beta (12m) to Classic       12-month Constituent Beta to the DAX Index         Beta (12m) to DAX       12-month Constituent Beta to the Classic All Share Index         Beta (12m) to SDAX       12-month Constituent Beta to the DAX Index         Beta (12m) to SDAX       12-month Constituent Beta To the DAX Index | All Share         O-Month Constituent Beta to the General All Share Index         Number           Beta (6m) to Entry All         6-month Constituent Beta to the Entry All Share Index         Number           Beta (6m) to Classic All         6-month Constituent Beta to the Classic All Share Index         Number           Beta (6m) to Classic All         6-month Constituent Beta to the Classic All Share Index         Number           Beta (6m) to DAX         6-month Constituent Beta to the DAX Index         Number           Beta (6m) to DAX         6-month Constituent Beta to the MDAX Index         Number           Beta (6m) to DAX         6-month Constituent Beta to the MDAX Index         Number           Beta (12m)         12-month Constituent Beta to the MDAX Index         Number           Beta (12m) to Prime All         12-month Constituent Beta to the General All Share Index         Number           Beta (12m) to General         12-month Constituent Beta to the Classic All Share Index         Number           Beta (12m) to Classic         12-month Constituent Beta to the Classic All Share Index         Number           Beta (12m) to Classic         12-month Constituent Beta to the Classic All Share Index         Number           Beta (12m) to DAX         12-month Constituent Beta to the Classic All Share Index         Number           Beta (12m) to DAX         12-month Constituent Beta to the DAX Index |



| 114 | Correlation (1m) to<br>DAX                  | 1-month correlation between constituent and DAX Index                     | Number | 15 |
|-----|---|---|--------|----|
| 115 | Correlation (1m) to<br>MDAX                 | 1-month correlation between constituent and MDAX Index                    | Number | 15 |
| 116 | Correlation (1m) to<br>SDAX                 | 1-month correlation between constituent and SDAX Index                    | Number | 15 |
| 117 | Correlation (1m) to<br>TecDAX               | 1-month correlation between constituent and TecDAX Index                  | Number | 15 |
| 118 | Correlation (3m)                            | 3-month constituent correlation   | Number | 15 |
| 119 | Correlation (3m) to<br>Prime All Share      | 3-month correlation between constituent and Prime All Share Index         | Number | 15 |
| 120 | Correlation (3m) to<br>General All Share    | 3-month correlation between constituent and General All Share<br>Index    | Number | 15 |
| 121 | Correlation (3m) to<br>Entry All Share      | 3-month correlation between constituent and Entry All Share Index         | Number | 15 |
| 122 | Correlation (3m) to<br>Classic All Share    | 3-month correlation between constituent and Classic All Share<br>Index    | Number | 15 |
| 123 | Correlation (3m) to<br>Technology All Share | 3-month correlation between constituent and Technology All Share<br>Index | Number | 15 |
| 124 | Correlation (3m) to<br>DAX                  | 3-month correlation between constituent and DAX Index                     | Number | 15 |
| 125 | Correlation (3m) to<br>MDAX                 | 3-month correlation between constituent and MDAX Index                    | Number | 15 |
| 126 | Correlation (3m) to<br>SDAX                 | 3-month correlation between constituent and SDAX Index                    | Number | 15 |
| 127 | Correlation (3m) to<br>TecDAX               | 3-month correlation between constituent and TecDAX Index                  | Number | 15 |
| 128 | Correlation (6m)                            | 6-month constituent correlation   | Number | 15 |
| 129 | Correlation (6m) to<br>Prime All Share      | 6-month correlation between constituent and Prime All Share Index         | Number | 15 |
| 130 | Correlation (6m) to<br>General All Share    | 6-month correlation between constituent and General All Share<br>Index    | Number | 15 |
| 131 | Correlation (6m) to<br>Entry All Share      | 6-month correlation between constituent and Entry All Share Index         | Number | 15 |
| 132 | Correlation (6m) to<br>Classic All Share    | 6-month correlation between constituent and Classic All Share<br>Index    | Number | 15 |
| 133 | Correlation (6m) to<br>Technology All Share | 6-month correlation between constituent and Technology All Share<br>Index | Number | 15 |
| 134 | Correlation (6m) to<br>DAX                  | 6-month correlation between constituent and DAX Index                     | Number | 15 |
| 135 | Correlation (6m) to<br>MDAX                 | 6-month correlation between constituent and MDAX Index                    | Number | 15 |
| 136 | Correlation (6m) to<br>SDAX                 | 6-month correlation between constituent and SDAX Index                    | Number | 15 |
| 137 | Correlation (6m) to<br>TecDAX               | 6-month correlation between constituent and TecDAX Index                  | Number | 15 |
| 138 | Correlation (12m)                           | 12-month constituent correlation  | Number | 15 |
| 139 | Correlation (12m) to<br>Prime All Share     | 12-month correlation between constituent and Prime All Share<br>Index     | Number | 15 |
| 140 | Correlation (12m) to<br>General All Share   | 12-month correlation between constituent and General All Share<br>Index   | Number | 15 |
| 141 | Correlation (12m) to<br>Entry All Share     | 12-month correlation between constituent and Entry All Share<br>Index     | Number | 15 |
|     |   |   |        |    |



|     | 1  |  | 1      |    |
|-----|--|--|--------|----|
| 142 | Correlation (12m) to<br>Classic All Share    | 12-month correlation between constituent and Classic All Share<br>Index    | Number | 15 |
| 143 | Correlation (12m) to<br>Technology All Share | 12-month correlation between constituent and Technology All<br>Share Index | Number | 15 |
| 144 | Correlation (12m) to<br>DAX                  | 12-month correlation between constituent and DAX Index                     | Number | 15 |
| 145 | Correlation (12m) to<br>MDAX                 | 12-month correlation between constituent and MDAX Index                    | Number | 15 |
| 146 | Correlation (12m) to SDAX                    | 12-month correlation between constituent and SDAX Index                    | Number | 15 |
| 147 | Correlation (12m) to<br>TecDAX               | 12-month correlation between constituent and TecDAX Index                  | Number | 15 |
| 148 | Correlation (ytd)                            | YTD constituent correlation  | Number | 15 |
| 149 | Correlation (ytd) to<br>Prime All Share      | YTD correlation between constituent and Prime All Share Index              | Number | 15 |
| 150 | Correlation (ytd) to<br>General All Share    | YTD correlation between constituent and General All Share Index            | Number | 15 |
| 151 | Correlation (ytd) to<br>Entry All Share      | YTD correlation between constituent and Entry All Share Index              | Number | 15 |
| 152 | Correlation (ytd) to<br>Classic All Share    | YTD correlation between constituent and Classic All Share Index            | Number | 15 |
| 153 | Correlation (ytd) to<br>Technology All Share | YTD correlation between constituent and Technology All Share<br>Index      | Number | 15 |
| 154 |  | YTD correlation between constituent and DAX Index                          | Number | 15 |
| 155 | Correlation (ytd) to<br>MDAX                 | YTD correlation between constituent and MDAX Index                         | Number | 15 |
| 156 | Correlation (ytd) to<br>SDAX                 | YTD correlation between constituent and SDAX Index                         | Number | 15 |
| 157 | Correlation (ytd) to<br>TecDAX               | YTD correlation between constituent and TecDAX Index                       | Number | 15 |
| 158 | Sharpe Ratio (1m)                            | 1-month constituent Sharpe Ratio   | Number | 15 |
| 159 | Sharpe Ratio (3m)                            | 3-month constituent Sharpe Ratio   | Number | 15 |
| 160 | Sharpe Ratio (6m)                            | 6-month constituent Sharpe Ratio   | Number | 15 |
| 161 | Sharpe Ratio (12m)                           | 12-month constituent Sharpe Ratio  | Number | 15 |
| 162 | Sharpe Ratio (ytd)                           | YTD constituent Sharpe Ratio   | Number | 15 |
| 163 | Dividend Points (1d)                         | 1-day constituent Dividend Points  | Number | 15 |
| 164 | Dividend Points (1m)                         | 1-month constituent Dividend Points  | Number | 15 |
| 165 | Dividend Points (3m)                         | 3-month constituent Dividend Points  | Number | 15 |
| 166 | Dividend Points (6m)                         | 6-month constituent Dividend Points  | Number | 15 |
| 167 |  | 12-month constituent Dividend Points                                       | Number | 15 |
| 168 | Dividend Points (ytd)                        | YTD constituent Dividend Points  | Number | 15 |
| 169 | Performance<br>Contribution (1d)             | 1-day constituent Performance Contribution                                 | Number | 15 |
| 170 | Performance<br>Contribution (1m)             | 1-month constituent Performance Contribution                               | Number | 15 |
| 171 | Performance<br>Contribution (3m)             | 3-month constituent Performance Contribution                               | Number | 15 |
| 172 | Performance<br>Contribution (6m)             | 6-month constituent Performance Contribution                               | Number | 15 |
| 173 | Performance<br>Contribution (12m)            | 12-month constituent Performance Contribution                              | Number | 15 |
| 174 | Performance<br>Contribution (ytd)            | YTD constituent Performance Contribution                                   | Number | 15 |
|     |  | I  |        | 1  |





#### 2.5.2.CSV format

In this format, data for current day and next dissemination is displayed in two files. This file is produced only for selected indices. The file is available on MD+S Interactive platform for licensed users and generated in multiple versions according to the Third-Party Data license the client is entitled to.

- > File name:
  - INDEXNAME\_IWP\_TD.YYYYMMDD.csv current day
  - INDEXNAME\_IWP\_ND.YYYYMMDD.csv next dissemination day
  - INDEXNAME\_IWP\_P001\_TD.YYYYMMDD.csv current day, with P001 Permissioned Third Party data as described in section 1.2 of the DAX File Guide
  - INDEXNAME\_IWP\_P001\_ND.YYYYMMDD.csv next dissemination day, with P001 Permissioned Third Party data as described in section 1.2 of the DAX File Guide
- > File type: .csv
- > File specification: semicolon separated
- > File frequency: daily at COB

| Column<br>ID | Attribute                          | Description   | Data Type | Data<br>Format |
|--------------|------------------------------------|---|-----------|----------------|
| 1            | Day                                | Report date   | Date      | dd/mm/yyyy     |
| 2            | Day Indicator                      | Text "Today" or "Next day"  | Text      | 8              |
| 3            | Index Trading Symbol               | Index Trading Symbol  | Text      | 4              |
| 4            | Index Name                         | Index Name  | Text      | 255            |
| 5            | Index ISIN                         | Index ISIN  | Text      | 12             |
| 6            | Trading Symbol                     | Constituent Trading Symbol  | Text      | 4              |
| 7            | Instrument                         | Constituent Name  | Text      | 255            |
| 8            | ISIN                               | Constituent ISIN  | Text      | 12             |
| 9            | Sector                             | Constituent Sector (filled only for constituents listed on Frankfurt<br>Stock Exchange; n/a otherwise)  | Text      | 255            |
| 10           | Subsector                          | Constituent Subsector (filled only for constituents listed on<br>Frankfurt Stock Exchange; n/a otherwise)   | Text      | 255            |
| 11           | Country                            | Constituent Country (currently not maintained)  | Text      | n/a            |
| 12           | Transparency Level                 | Market segment of the constituent (text "Prime Standard", "General<br>Standard" or "Scale" for constituents listed on Frankfurt Stock<br>Exchange; n/a otherwise) | Text      | 16             |
| 13           | Sedol                              | Constituent SEDOL code (only displayed if licensed)   | Text      | 7              |
| 14           | BB Ticker                          | Constituent Bloomberg Ticker  | Text      | 6              |
| 15           | Reuters RIC                        | Constituent Refinitiv Instrument Code   | Text      | 21             |
| 16           | Local Currency                     | Constituent ISO currency code   | Text      | 3              |
| 17           | Instrument Exchange                | Constituent Exchange  | Text      | 20             |
| 18           | Index Value (close)                | Index Close Value on report date  | Number    | 2              |
| 19           | Index Settlement Value<br>(Future) | Index Future Settlement Value on report date  | Number    | 2              |
| 20           | Index Settlement Value<br>(Kassa)  | Index Kassa Settlement Value on report date   | Number    | 2              |
| 21           | Index Settlement Value<br>(Option) | Index Option Settlement Value on report Date  | Number    | 2              |
| 22           | Constant A                         | Index Base value to be used in conjunction with Fi factor   | Number    | 7              |
| 23           | Kt                                 | Index Chaining Factor   | Number    | 7              |
| 24           | Market Cap (in Mio.)<br>(Index)    | Index Market Capitalisation (in millions)   | Number    | 2              |





| underlying portfolio) - performance index         underlying portfolio) - performance index           38         Fi (norm 1m EUR)         Normalized Fi factor, calculated as Q <sub>n</sub> *FF <sub>n</sub> *C <sub>n</sub> /SUM(Q <sub>n</sub> *FF <sub>n</sub> *C <sub>n</sub> *P <sub>n</sub> )*         Number         11           39         Fi (norm Index)         Normalized Fi factor, calculated as Q <sub>n</sub> *FF <sub>n</sub> *C <sub>n</sub> /SUM(Q <sub>n</sub> *FF <sub>n</sub> *C <sub>n</sub> *P <sub>n</sub> )*         Number         11           40         Quintil         Quintile rank of the constituent by weight         Number         11           41         Performance (1d)<br>(Index)         1-day Index performance         Number         12           42         Performance (1m)<br>(Index)         1-month Index performance         Number         13           43         Performance (12m)<br>(Index)         12-monthis Index performance         Number         14           44         Performance (ytd)<br>(Index)         YTD Index performance         Number         14           45         Volatility (1m) (Index)         12-months Index Volatility         Number         14           46         Volatility (12m) (Index)         12-months Index Volatility         Number         15           47         Sharpe Ratio (12m)<br>(Index)         12-months Index Sharpe Ratio         Number         14           48         Sharpe Ratio (12m)         1-month Constituent Performance         Number<  |    |                         |  |        |    |
|---|----|-------------------------|--|--------|----|
| 27       pit (pipen)       Opening price of constituent on report date       Number       3         28       pit (high)       Highest price of constituent on report date       Number       3         30       pi0       Opening price of constituent on the trading day before the first inclusion in the index       Number       3         31       qi0       Number of shares of constituent on report date       Number       3         32       qitt       Number of shares of constituent on report date       Number       4         33       fift       Free float factor of constituent on report date       Number       6         33       fift       Free float factor of constituent on report date       Number       6         34       ci       Adjustment factor of for constituent in the index       Number       1         35       Market Cap. (in Mlo.)       Market Capitalisation on report date (in millions)       Number       1         36       Weight       Weighting factor F of the constituent (provides information on the underlying portfolio) - performance index       Number       1         37       Fi       number of factor, calculated as Qa*FF#*Ca' SUM(Qa*FF#*Ca*Pe)*       Number       1         38       Fi (norm Index)       Normalized Fi factor, calculated as Qa*FF#*Ca' SUM(Qa*FF#*Ca*Pe)*   | 25 | # Constituents          | Number of Index constituents   | Number | 0  |
| 27     pit (pipen)     Opening price of constituent on report date     Number     3       28     pit (high)     Highest price of constituent on report date     Number     3       30     pi0     Opening price of constituent on report date     Number     3       31     qi0     Number of shares of constituent on the first inclusion in the index     Number     3       31     qi0     Number of shares of constituent on report date     Number     4       32     qit     Number of shares of constituent on report date     Number     4       33     fit     Free float factor of constituent on report date     Number     6       34     di     Adjustment factor of the constituent in the index     Number     6       35     Market Cap. (in Mio.)     Market Capitalisation on report date     Number     1       36     Weighting factor F of the constituent (provides information on the underlying portfolio) - performance index     Number     11       37     Fi     number of shares equire from each constituent Number     11       38     Fi (norm 1m EUR)     Normalized Fi factor, calculated as Qa*FFa*Ca,*SUM(Qa*FFa*Ca*Pe)*     Number     11       39     Fi (norm Index)     1-day Index performance     Number     12       40     Quintil     Quintil rank of the constituent performa   | 26 | pit (close)             | Closing price of constituent on report date  | Number | 3  |
| 29         pit (low)         Lowest price of constituent on report date         Number         3           30         pi0         Opening price of constituent on the trading day before the first<br>inclusion in the index         Number         3           31         qi0         Number of shares of constituent on the first inclusion in the index         Number         3           32         qit         Number of shares of constituent on report date         Number         4           33         fit         Free float factor of constituent on report date         Number         4           34         ci         Adjustment factor of fue constituent (provides information on the number of shares required from each constituent to track the under/ying portfolio) – performance index         Number         1           35         Market Cap. (in Min.)         Normalized Fi factor, calculated as Q <sub>n</sub> *FF <sub>n</sub> *C <sub>n</sub> / SUM(Q <sub>n</sub> *FF <sub>n</sub> *C <sub>n</sub> *P <sub>n</sub> )*         Number         1           36         Fi (norm 1m EUR)         Normalized Fi factor, calculated as Q <sub>n</sub> *FF <sub>n</sub> *C <sub>n</sub> / SUM(Q <sub>n</sub> *FF <sub>n</sub> *C <sub>n</sub> *P <sub>n</sub> )*         Number         1           37         Fi (norm Index)         Normalized Fi factor, calculated as Q <sub>n</sub> *FF <sub>n</sub> *C <sub>n</sub> / SUM(Q <sub>n</sub> *FF <sub>n</sub> *C <sub>n</sub> *P <sub>n</sub> )*         Number         1           38         Fi (norm Index)         Normalized Fi factor, calculated as Q <sub>n</sub> *FF <sub>n</sub> *C <sub>n</sub> / SUM(Q <sub>n</sub> *FF <sub>n</sub> *C <sub>n</sub> *P <sub>n</sub> )*         Number         1 <td>27</td> <td>pit (open)</td> <td></td> <td>Number</td> <td>3</td>  | 27 | pit (open)              |  | Number | 3  |
| 30         pi0         Opening price of constituent on the trading day before the first<br>inclusion in the index         Number         3           31         qi0         Number of shares of constituent on the first inclusion in the index         Number         0           32         qit         Number of shares of constituent on report date         Number         0           33         ffit         Free float factor of constituent on report date         Number         6           34         cl         Adjustment factor of the constituent         Number         8           35         Market Cap. (in Mio.)         Market Capitalisation on report date (in millions)         Number         1           36         Weight         Weighting factor F of the constituent (provides information on the number of shares required from each constituent to track the under/ng portfolio.) – performance index         Number         11           37         Fi (norm Index)         Normalized Fi factor, calculated as Qa*FFa*Ca' SUM(Qa*FFa*Ca*Pa)*         Number         12           38         Fi (norm Index)         Normalized Fi factor, calculated as Qa*FFa*Ca' SUM(Qa*FFa*Ca*Pa)*         Number         13           40         Quintil         Quintile rank of the constituent by weight         Number         14           41         Performance (10)         1-day Index performance  | 28 | pit (high)              | Highest price of constituent on report date  | Number | 3  |
| 30         prov         Inclusion in the index         Number         31           31         qi0         Number of shares of constituent on report date         Number         0           32         qit         Number of shares of constituent on report date         Number         0           33         fiti         Free float factor of constituent on report date         Number         4           34         ci         Adjustment factor of the constituent on report date         Number         2           35         Market Cap. (in Mio.)         Market Capitalisation on report date (in millions)         Number         2           36         Weight         Weighting factor F of the constituent (novides information on the number of shares required from each constituent to track the underlying portfolio) – performance index         Number         11           37         Fi         Normalized Fi factor, calculated as Q <sub>*</sub> *FF <sub>*</sub> *C <sub>#</sub> /SUM(Q <sub>#</sub> *FF <sub>*</sub> *C <sub>#</sub> *P <sub>#</sub> )*         Number         11           39         Fi (norm Index)         Normalized Fi factor, calculated as Q <sub>*</sub> *FF <sub>*</sub> *C <sub>#</sub> /SUM(Q <sub>#</sub> *FF <sub>*</sub> *C <sub>#</sub> *P <sub>#</sub> )*         Number         11           40         Quintil         Quintile rank of the constituent by weight         Number         11           41         Performance (10)         1-day Index performance         Number         12 <t< td=""><td>29</td><td>pit (low)</td><td>Lowest price of constituent on report date</td><td>Number</td><td>3</td></t<>  | 29 | pit (low)               | Lowest price of constituent on report date   | Number | 3  |
| 31       qi0       Number of shares of constituent on report date       Number       0         32       qit       Number of shares of constituent on report date       Number       0         33       fit       Free float factor of constituent on report date       Number       0         34       (i       Adjustment factor of the constituent       Number       0         35       Market Cap. (in Mio.)       Market Capitalisation on report date (in millions)       Number       1         36       Weight       Weighting of the constituent in the index       Number       1         37       Fi       Weighting of the constituent in the index       Number       1         38       Fi (norm 1m EUR)       Normalized Fi factor, calculated as Qn*FFi*Cn/SUM(Qn*FFin*Cn*Pa)*       Number       11         39       Fi (norm Index)       Normalized Fi factor, calculated as Qn*FFin*Cn/SUM(Qn*FFin*Cn*Pa)*       Number       12         40       Quintil       Quintile rank of the constituent to yweight       Number       12         41       Performance (1m)       1-month Index performance       Number       12         42       Volatility (1m) (Index)       1-month Index volatility       Number       14         44       Performance (ytd)       12-months Index  | 30 | pi0                     |  | Number | 3  |
| 32       qit       Number of shares of constituent on report date       Number       0         33       fitt       Free float factor of constituent on report date       Number       4         34       ci       Adjustment factor of the constituent       Number       6         35       Market Cap. (in Mio.)       Market Capitalisation on report date (in millions)       Number       2         36       Weight       Weighting factor F of the constituent (provides information on the number of shares required from each constituent to track the underlying portfolio) - performance index       Number       15         37       Fi       Normalized Fi factor, calculated as Q <sub>a</sub> *FF <sub>a</sub> *C <sub>a</sub> / SUM(Q <sub>a</sub> *FF <sub>a</sub> *C <sub>a</sub> *P <sub>b</sub> )*       Number       11         38       Fi (norm 1mEUR)       Normalized Fi factor, calculated as Q <sub>a</sub> *FF <sub>a</sub> *C <sub>a</sub> / SUM(Q <sub>a</sub> *FF <sub>a</sub> *C <sub>a</sub> *P <sub>b</sub> )*       Number       11         40       Quintil       Quintile rank of the constituent by weight       Number       12         41       Performance (10)       1-day Index performance       Number       12         43       Performance (12m)       12-monthis Index performance       Number       12         44       Performance (12m)       12-months Index Volatility       Number       12         45       Volatility (12m) (Index)       12-months Index Sharpe Ra   | 31 | qi0                     |  | Number | 0  |
| 33       ffit       Free float factor of constituent on report date       Number       4         34       ci       Adjustment factor of the constituent       Number 6         35       Market Cap. (in Mio.)       Market Captialisation on report date (in millions)       Number 4         36       Weight       Weighting factor F of the constituent (provides information on the number of shares required from each constituent to track the underlying portfolio) – performance index       Number 11         37       Fi       Normalized Fi factor, calculated as Qn*FFn*Cr./SUM(Qn*FFn*Cr.*Pn)*       Number 11         39       Fi (norm 1m EUR)       Normalized Fi factor, calculated as Qn*FFn*Cr./SUM(Qn*FFn*Cr.*Pn)*       Number 11         40       Quintil       Quintile rank of the constituent by weight       Number 11         41       Performance (1d) (index)       1-day Index performance       Number 11         42       Performance (12m) (index)       1-month Index performance       Number 11         43       Performance (12m) (index)       12-months index performance       Number 11         44       Performance (Vd) (Index)       12-months Index Volatility       Number 11         45       Volatility (1m) (Index)       1-month Index Volatility       Number 11         47       Sharpe Ratio (12m) (index)       12-months Index Sharpe Ratio   | 32 | git                     |  | Number | 0  |
| 34         cl         Adjustment factor of the constituent         Number         6           35         Market Cap. (in Mio.)         Market Capitalisation on report date (in millions)         Number         2           36         Weight         Weighting of the constituent in the index         Number         4           37         Fi         underlying portfolio) - performance index         Number         1           38         Fi (norm Im EUR)         Normalized Fi factor, calculated as Q <sub>k</sub> *FF <sub>k</sub> *C <sub>k</sub> /SUM(Q <sub>k</sub> *FF <sub>k</sub> *C <sub>k</sub> *P <sub>k</sub> )*         Number         1           39         Fi (norm Index)         Normalized Fi factor, calculated as Q <sub>k</sub> *FF <sub>k</sub> *C <sub>k</sub> /SUM(Q <sub>k</sub> *FF <sub>k</sub> *C <sub>k</sub> *P <sub>k</sub> )*         Number         1           40         Quintil         Quintil erank of the constituent by weight         Number         1           41         Performance (1m)         1-day Index performance         Number         1           42         Performance (12m)         1-month Index performance         Number         1           43         Performance (12m)         12-monthis Index performance         Number         1           44         Volatility (12m) (Index)         1-month Index Volatility         Number         1           47         Sharpe Ratio (1m)         1-month Index Sharpe Ratio         Number   | 33 |                         |  | Number | 4  |
| 35       Market Cap. (in Mio.)       Market Capitalisation on report date (in millions)       Number       2         36       Weight       Weighting of the constituent in the index       Number       4         37       Fi       Weighting factor F of the constituent (provides information on the underlying portfolio) - performance index       Number       11         38       Fi (norm 1m EUR)       Normalized Fi factor, calculated as Q <sub>k</sub> *FF <sub>k</sub> *C <sub>n</sub> /SUM(Q <sub>k</sub> *FF <sub>k</sub> *C <sub>n</sub> *P <sub>F</sub> )*       Number       11         40       Quintil       Quintil erak of the constituent by weight       Number       12         41       Performance (10)<br>(index)       1-day index performance       Number       13         42       Performance (12m)<br>(index)       1-month Index performance       Number       14         44       Performance (12m)<br>(index)       1-month Index performance       Number       14         45       Volatility (11m) (index)       1-month Index Volatility       Number       15         45       Volatility (12m) (index)       1-month Index Volatility       Number       15         46       Volatility (12m) (index)       1-month Index Sharpe Ratio       Number       15         47       Sharpe Ratio (12m)<br>(index)       1-month Index Sharpe Ratio       Number       15   |    |                         |  | Number | 6  |
| 36         Weight         Weighting of the constituent in the index         Number         4           37         Fi         Weighting factor F of the constituent (provides information on the<br>number of shares required from each constituent to track the<br>underlying portfolio) – performance index         Number         11           38         Fi (norm 1m EUR)         Normalized Fi factor, calculated as Qn*FFn*Cn / SUM(Qn*FFn*Cn*Pn)*         Number         11           40         Quintil         Quintile rank of the constituent by weight         Number         11           41         Performance (10)<br>(index)         1-day index performance         Number         11           42         Performance (11)<br>(index)         1-month Index performance         Number         11           43         Performance (12m)<br>(index)         1-month Index performance         Number         11           44         Performance (12m)<br>(index)         1-month Index Volatility         Number         11           45         Volatility (11m) (index)         1-month Index Volatility         Number         12           47         Sharpe Ratio (12m)<br>(index)         1-month Index Sharpe Ratio         Number         13           48         Sharpe Ratio (12m)<br>(index)         1-month Index Sharpe Ratio         Number         13           49 <td< td=""><td></td><td>Market Cap. (in Mio.)</td><td></td><td></td><td>2</td></td<>   |    | Market Cap. (in Mio.)   |  |        | 2  |
| 37         Fi         Weighting factor F of the constituent (provides information on the number of shares required from each constituent to track the underlying portfolio) – performance index         Number         11           38         Fi (norm 1m EUR)         Normalized Fi factor, calculated as $Q_n * FF_n * C_n / SUM(Q_n * FF_n * C_n * P_n) *$ (normalized Fi factor, calculated as $Q_n * FF_n * C_n / SUM(Q_n * FF_n * C_n * P_n) *$ (normance (1d)         Number         11           40         Quintil         Quintile rank of the constituent by weight         Number         11           41         Performance (1d)         1-day Index performance         Number         11           42         Performance (1m)         1-month Index performance         Number         11           43         Performance (12m)         12-monthis Index performance         Number         12           44         Performance (ytd)         YTD Index performance         Number         12           45         Volatility (1m) (Index)         1-month Index Volatility         Number         12           47         Sharpe Ratio (12m)         12-months Index Volatility         Number         12           48         Sharpe Ratio (12m)         12-months Index Sharpe Ratio         Number         13           49         Performance (12m)         12-months Index Sharpe Ratio         Number<  |    |                         |  |        | 4  |
| 38         Fi (norm 1m EUR)         Normalized Fi factor, calculated as Q <sub>R</sub> *FF <sub>R</sub> *C <sub>R</sub> /SUM(Q <sub>R</sub> *FF <sub>R</sub> *C <sub>R</sub> *P <sub>R</sub> )*<br>1000000         Number         15           39         Fi (norm Index)         Normalized Fi factor, calculated as Q <sub>R</sub> *FF <sub>R</sub> *C <sub>R</sub> /SUM(Q <sub>R</sub> *FF <sub>R</sub> *C <sub>R</sub> *P <sub>R</sub> )*         Number         15           40         Quintil         Quintile rank of the constituent by weight         Number         16           41         Performance (1d)<br>(Index)         1-day Index performance         Number         17           42         Performance (1m)<br>(Index)         1-month Index performance         Number         18           43         Performance (1zm)<br>(Index)         12-monthis Index performance         Number         19           44         Performance (ytd)<br>(Index)         YTD Index performance         Number         19           45         Volatility (1m) (Index)         1-month Index Volatility         Number         19           46         Volatility (12m) (Index)         1-month Index Volatility         Number         19           47         Sharpe Ratio (1m)<br>(Index)         1-month Index Sharpe Ratio         Number         19           48         Sharpe Ratio (12m)<br>(Index)         12-months Index Sharpe Ratio         Number         19           50         Performance (12m)         1-day Constituent Pe  |    |                         | Weighting factor F of the constituent (provides information on the number of shares required from each constituent to track the                                      |        | 15 |
| 39       Fi (form index)       Index close value       Number       1         40       Quintil       Quintile rank of the constituent by weight       Number       0         41       Performance (1d)       1-day Index performance       Number       19         42       Performance (1m)       1-month Index performance       Number       19         43       Performance (12m)       1-month Index performance       Number       19         44       Performance (12m)       12-monthis Index performance       Number       19         45       Volatility (1m) (Index)       1-month Index Volatility       Number       19         46       Volatility (12m) (Index)       12-months Index Volatility       Number       19         47       Sharpe Ratio (1m)       1-month Index Sharpe Ratio       Number       19         48       Sharpe Ratio (12m)       12-months Index Sharpe Ratio       Number       19         49       Performance (1d)       1-day Constituent Performance       Number       19         50       Performance (1m)       1-month Constituent Performance       Number       19         51       Performance (1m)       1-month Constituent Performance       Number       19         52       Performan  | 38 | Fi (norm 1m EUR)        | Normalized Fi factor, calculated as Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> / SUM(Q <sub>it</sub> *FF <sub>it</sub> *C <sub>it</sub> *P <sub>it</sub> ) * | Number | 15 |
| 41       Performance (1d)<br>(Index)       1-day Index performance       Number       14         42       Performance (1m)<br>(Index)       1-month Index performance       Number       19         43       Performance (12m)<br>(Index)       12-monthis Index performance       Number       19         44       Performance (ytd)<br>(Index)       YTD Index performance       Number       19         44       Performance (ytd)<br>(Index)       YTD Index performance       Number       19         45       Volatility (1m) (Index)       1-month Index Volatility       Number       19         46       Volatility (12m) (Index)       12-months Index Volatility       Number       19         47       Sharpe Ratio (1m)<br>(Index)       1-month Index Sharpe Ratio       Number       19         48       Sharpe Ratio (12m)<br>(Index)       12-months Index Sharpe Ratio       Number       19         49       Performance (1d)       1-day Constituent Performance       Number       19         50       Performance (1m)       1-month Constituent Performance       Number       19         51       Performance (1m)       12-month Constituent Performance       Number       19         52       Performance (12m)       12-month Constituent Volatility       Number       19 </td <td>39</td> <td>Fi (norm Index)</td> <td></td> <td>Number</td> <td>15</td>  | 39 | Fi (norm Index)         |  | Number | 15 |
| 41       (Index)       1-day index performance       Number       1         42       Performance (1m)<br>(Index)       1-month Index performance       Number       1         43       Performance (12m)<br>(Index)       12-monthis Index performance       Number       1         44       Performance (12m)<br>(Index)       12-monthis Index performance       Number       1         44       Performance (ytd)<br>(Index)       YTD Index performance       Number       1         45       Volatility (1m) (Index)       1-month Index Volatility       Number       1         46       Volatility (12m) (Index)       12-months Index Volatility       Number       1         47       Sharpe Ratio (1m)<br>(Index)       1-month Index Sharpe Ratio       Number       1         48       Sharpe Ratio (12m)<br>(Index)       12-months Index Sharpe Ratio       Number       1         50       Performance (1d)       1-day Constituent Performance       Number       1         51       Performance (3m)       3-month Constituent Performance       Number       1         52       Performance (12m)       12-month Constituent Performance       Number       1         53       Performance (12m)       12-month Constituent Volatility       Number       1   | 40 | Quintil                 | Quintile rank of the constituent by weight   | Number | 0  |
| 42       Index performance       Number       1         43       Performance (12m)<br>(Index)       12-month index performance       Number       1         44       Performance (vtd)<br>(Index)       YTD Index performance       Number       1         45       Volatility (1m) (Index)       1-month Index Volatility       Number       1         46       Volatility (1m) (Index)       1-month Index Volatility       Number       1         47       Sharpe Ratio (12m)<br>(Index)       1-month Index Sharpe Ratio       Number       1         48       Sharpe Ratio (12m)<br>(Index)       1-month Index Sharpe Ratio       Number       1         49       Performance (1d)       1-day Constituent Performance       Number       1         50       Performance (1m)       1-month Constituent Performance       Number       1         51       Performance (1m)       1-month Constituent Performance       Number       1         52       Performance (1m)       1-month Constituent Performance       Number       1         53       Performance (1m)       1-month Constituent Performance       Number       1         54       Performance (1m)       1-month Constituent Volatility       Number       1         54       Performance (12m)<   | 41 |                         | 1-day Index performance  | Number | 15 |
| 43       (Index)       12-month's index performance       Number       15         44       Performance (ytd)<br>(Index)       YTD Index performance       Number       15         45       Volatility (1m) (Index)       1-month Index Volatility       Number       15         46       Volatility (12m) (Index)       12-months Index Volatility       Number       15         47       Sharpe Ratio (1m)<br>(Index)       1-month Index Sharpe Ratio       Number       15         48       Sharpe Ratio (12m)<br>(Index)       12-months Index Sharpe Ratio       Number       15         49       Performance (1d)       1-day Constituent Performance       Number       15         50       Performance (1m)       1-month Constituent Performance       Number       15         51       Performance (1m)       1-month Constituent Performance       Number       15         52       Performance (12m)       12-month Constituent Performance       Number       15         53       Performance (12m)       12-month Constituent Performance       Number       15         54       Performance (ytd)       YTD Constituent Volatility       Number       15         55       Volatility (1m)       1-month Constituent Volatility       Number       15   | 42 |                         | 1-month Index performance  | Number | 15 |
| 444(Index)FD index performanceNumber1145Volatility (1m) (Index)1-month Index VolatilityNumber1946Volatility (12m) (Index)12-months Index VolatilityNumber1947Sharpe Ratio (1m)<br>(Index)1-month Index Sharpe RatioNumber1948Sharpe Ratio (12m)<br>(Index)1-month Index Sharpe RatioNumber1949Performance (1d)1-day Constituent PerformanceNumber1950Performance (1m)1-month Constituent PerformanceNumber1951Performance (3m)3-month Constituent PerformanceNumber1952Performance (3m)3-month Constituent PerformanceNumber1953Performance (12m)12-month Constituent PerformanceNumber1954Performance (12m)12-month Constituent PerformanceNumber1955Volatility (1m)1-month Constituent VolatilityNumber1956Volatility (1m)1-month Constituent VolatilityNumber1957Volatility (6m)6-month Constituent VolatilityNumber1958Volatility (12m)12-month Constituent VolatilityNumber1959Volatility (yd)YTD Constituent VolatilityNumber1959Volatility (yd)1-month Constituent VolatilityNumber1959Volatility (yd)1-month Constituent BetaNumber1960Beta (1m) to Prime All<br>Share <td< td=""><td>43</td><td></td><td>12-monthis Index performance</td><td>Number</td><td>15</td></td<>   | 43 |                         | 12-monthis Index performance   | Number | 15 |
| 46Volatility (12m) (Index)12-months Index VolatilityNumber1947Sharpe Ratio (1m)<br>(Index)1-month Index Sharpe RatioNumber1948Sharpe Ratio (12m)<br>(Index)12-months Index Sharpe RatioNumber1949Performance (1d)1-day Constituent PerformanceNumber1950Performance (1m)1-month Constituent PerformanceNumber1951Performance (3m)3-month Constituent PerformanceNumber1952Performance (6m)6-month Constituent PerformanceNumber1953Performance (12m)12-month Constituent PerformanceNumber1954Performance (ytd)YTD Constituent PerformanceNumber1955Volatility (1m)1-month Constituent VolatilityNumber1956Volatility (1m)1-month Constituent VolatilityNumber1957Volatility (6m)6-month Constituent VolatilityNumber1958Volatility (12m)12-month Constituent VolatilityNumber1959Volatility (ytd)YTD Constituent VolatilityNumber1960Beta (1m) to Prime All<br>Share1-month Constituent Beta to the Prime All Share IndexNumber1961Beta (1m) to General All<br>Share1-month Constituent Beta to the General All Share IndexNumber1962Beta (1m) to General All<br>Share1-month Constituent Beta to the General All Share IndexNumber19  | 44 |                         | YTD Index performance  | Number | 15 |
| 47Sharpe Ratio (1m)<br>(Index)1-month Index Sharpe RatioNumber1948Sharpe Ratio (12m)<br>(Index)12-months Index Sharpe RatioNumber1949Performance (1d)1-day Constituent PerformanceNumber1950Performance (1m)1-month Constituent PerformanceNumber1951Performance (3m)3-month Constituent PerformanceNumber1952Performance (6m)6-month Constituent PerformanceNumber1953Performance (12m)12-month Constituent PerformanceNumber1954Performance (ytd)YTD Constituent PerformanceNumber1955Volatility (1m)1-month Constituent VolatilityNumber1956Volatility (3m)3-month Constituent VolatilityNumber1957Volatility (6m)6-month Constituent VolatilityNumber1958Volatility (12m)12-month Constituent VolatilityNumber1959Volatility (ytd)YTD Constituent VolatilityNumber1960Beta (1m)1-month Constituent Beta to the Prime All Share IndexNumber1961Beta (1m) to General All<br>Share1-month Constituent Beta to the General All Share IndexNumber1962Beta (1m) to General All1-month Constituent Beta to the General All Share IndexNumber19   | 45 | Volatility (1m) (Index) | 1-month Index Volatility   | Number | 15 |
| 47Sharpe Ratio (1m)<br>(Index)1-month Index Sharpe RatioNumber1948Sharpe Ratio (12m)<br>(Index)12-months Index Sharpe RatioNumber1949Performance (1d)1-day Constituent PerformanceNumber1950Performance (1m)1-month Constituent PerformanceNumber1951Performance (3m)3-month Constituent PerformanceNumber1952Performance (6m)6-month Constituent PerformanceNumber1953Performance (12m)12-month Constituent PerformanceNumber1954Performance (ytd)YTD Constituent PerformanceNumber1955Volatility (1m)1-month Constituent VolatilityNumber1956Volatility (3m)3-month Constituent VolatilityNumber1957Volatility (6m)6-month Constituent VolatilityNumber1958Volatility (12m)12-month Constituent VolatilityNumber1959Volatility (ytd)YTD Constituent VolatilityNumber1960Beta (1m)1-month Constituent Beta to the Prime All Share IndexNumber1961Beta (1m) to General All1-month Constituent Beta to the General All Share IndexNumber1962Beta (1m) to General All1-month Constituent Beta to the General All Share IndexNumber19  | 46 |                         | 12-months Index Volatility   | Number | 15 |
| 4812-month's index sharpe RatioNumber1549Performance (1d)1-day Constituent PerformanceNumber1950Performance (1m)1-month Constituent PerformanceNumber1951Performance (3m)3-month Constituent PerformanceNumber1952Performance (6m)6-month Constituent PerformanceNumber1953Performance (12m)12-month Constituent PerformanceNumber1954Performance (ytd)YTD Constituent PerformanceNumber1955Volatility (1m)1-month Constituent VolatilityNumber1956Volatility (3m)3-month Constituent VolatilityNumber1957Volatility (6m)6-month Constituent VolatilityNumber1958Volatility (12m)12-month Constituent VolatilityNumber1959Volatility (ytd)YTD Constituent VolatilityNumber1960Beta (1m)1-month Constituent Beta to the Prime All Share IndexNumber1961Beta (1m) to General All1-month Constituent Beta to the General All Share IndexNumber1962Beta (1m) to General All1-month Constituent Beta to the General All Share IndexNumber1963Beta (1m) to General All1-month Constituent Beta to the General All Share IndexNumber1964Beta (1m) to General All1-month Constituent Beta to the General All Share IndexNumber19  | 47 | Sharpe Ratio (1m)       | 1-month Index Sharpe Ratio   | Number | 15 |
| 50Performance (1m)1-month Constituent PerformanceNumber1151Performance (3m)3-month Constituent PerformanceNumber1152Performance (6m)6-month Constituent PerformanceNumber1153Performance (12m)12-month Constituent PerformanceNumber1154Performance (ytd)YTD Constituent PerformanceNumber1155Volatility (1m)1-month Constituent VolatilityNumber1156Volatility (3m)3-month Constituent VolatilityNumber1157Volatility (6m)6-month Constituent VolatilityNumber1158Volatility (12m)12-month Constituent VolatilityNumber1159Volatility (ytd)YTD Constituent VolatilityNumber1160Beta (1m)1-month Constituent BetaNumber1161Beta (1m) to Prime All<br>Share1-month Constituent Beta to the General All Share IndexNumber1162Beta (1m) to General All<br>Share1-month Constituent Beta to the General All Share IndexNumber11   | 48 |                         | 12-months Index Sharpe Ratio   | Number | 15 |
| 50Performance (1m)1-month Constituent PerformanceNumber1951Performance (3m)3-month Constituent PerformanceNumber1952Performance (6m)6-month Constituent PerformanceNumber1953Performance (12m)12-month Constituent PerformanceNumber1954Performance (ytd)YTD Constituent PerformanceNumber1955Volatility (1m)1-month Constituent VolatilityNumber1956Volatility (3m)3-month Constituent VolatilityNumber1957Volatility (6m)6-month Constituent VolatilityNumber1958Volatility (12m)12-month Constituent VolatilityNumber1959Volatility (ytd)YTD Constituent VolatilityNumber1960Beta (1m)1-month Constituent BetaNumber1961Beta (1m) to Prime All<br>Share1-month Constituent Beta to the Prime All Share IndexNumber1962Beta (1m) to General All1-month Constituent Beta to the General All Share IndexNumber19  | 49 | Performance (1d)        | 1-day Constituent Performance  | Number | 15 |
| 52Performance (6m)6-month Constituent PerformanceNumber1953Performance (12m)12-month Constituent PerformanceNumber1954Performance (ytd)YTD Constituent PerformanceNumber1955Volatility (1m)1-mnth Constituent VolatilityNumber1956Volatility (3m)3-month Constituent VolatilityNumber1957Volatility (6m)6-month Constituent VolatilityNumber1958Volatility (12m)12-month Constituent VolatilityNumber1959Volatility (ytd)YTD Constituent VolatilityNumber1960Beta (1m)1-month Constituent BetaNumber1961Beta (1m) to Prime All<br>Share1-month Constituent Beta to the Prime All Share IndexNumber1962Beta (1m) to General All1-month Constituent Beta to the General All Share IndexNumber19   | 50 | Performance (1m)        |  | Number | 15 |
| 53Performance (12m)12-month Constituent PerformanceNumber1954Performance (ytd)YTD Constituent PerformanceNumber1955Volatility (1m)1-mnth Constituent VolatilityNumber1956Volatility (3m)3-month Constituent VolatilityNumber1957Volatility (6m)6-month Constituent VolatilityNumber1958Volatility (12m)12-month Constituent VolatilityNumber1959Volatility (ytd)YTD Constituent VolatilityNumber1960Beta (1m)1-month Constituent BetaNumber1961Beta (1m) to Prime All<br>Share1-month Constituent Beta to the General All Share IndexNumber1962Beta (1m) to General All1-month Constituent Beta to the General All Share IndexNumber19  | 51 | Performance (3m)        | 3-month Constituent Performance  | Number | 15 |
| 53Performance (12m)12-month Constituent PerformanceNumber1954Performance (ytd)YTD Constituent PerformanceNumber1955Volatility (1m)1-mnth Constituent VolatilityNumber1956Volatility (3m)3-month Constituent VolatilityNumber1957Volatility (6m)6-month Constituent VolatilityNumber1958Volatility (12m)12-month Constituent VolatilityNumber1959Volatility (ytd)YTD Constituent VolatilityNumber1960Beta (1m)1-month Constituent BetaNumber1961Beta (1m) to Prime All<br>Share1-month Constituent Beta to the General All Share IndexNumber1962Beta (1m) to General All<br>Share1-month Constituent Beta to the General All Share IndexNumber19   | 52 | Performance (6m)        | 6-month Constituent Performance  | Number | 15 |
| 54Performance (ytd)YTD Constituent PerformanceNumber1955Volatility (1m)1-mnth Constituent VolatilityNumber1956Volatility (3m)3-month Constituent VolatilityNumber1957Volatility (6m)6-month Constituent VolatilityNumber1958Volatility (12m)12-month Constituent VolatilityNumber1959Volatility (ytd)YTD Constituent VolatilityNumber1960Beta (1m)1-month Constituent BetaNumber1961Beta (1m) to Prime All<br>Share1-month Constituent Beta to the Prime All Share IndexNumber1962Beta (1m) to General All<br>Share1-month Constituent Beta to the General All Share IndexNumber19  | 53 |                         | 12-month Constituent Performance   | Number | 15 |
| 56Volatility (3m)3-month Constituent VolatilityNumber1957Volatility (6m)6-month Constituent VolatilityNumber1958Volatility (12m)12-month Constituent VolatilityNumber1959Volatility (ytd)YTD Constituent VolatilityNumber1960Beta (1m)1-month Constituent BetaNumber1961Beta (1m) to Prime All<br>Share1-month Constituent Beta to the Prime All Share IndexNumber1962Beta (1m) to General All<br>Share1-month Constituent Beta to the General All Share IndexNumber19  | 54 |                         |  | Number | 15 |
| 56Volatility (3m)3-month Constituent VolatilityNumber1957Volatility (6m)6-month Constituent VolatilityNumber1958Volatility (12m)12-month Constituent VolatilityNumber1959Volatility (ytd)YTD Constituent VolatilityNumber1960Beta (1m)1-month Constituent BetaNumber1961Beta (1m) to Prime All<br>Share1-month Constituent Beta to the Prime All Share IndexNumber1962Beta (1m) to General All<br>Share1-month Constituent Beta to the General All Share IndexNumber19  | 55 |                         | 1-mnth Constituent Volatility  | Number | 15 |
| 57Volatility (6m)6-month Constituent VolatilityNumber1958Volatility (12m)12-month Constituent VolatilityNumber1959Volatility (ytd)YTD Constituent VolatilityNumber1960Beta (1m)1-month Constituent BetaNumber1961Beta (1m) to Prime All<br>Share1-month Constituent Beta to the Prime All Share IndexNumber1962Beta (1m) to General All<br>Share1-month Constituent Beta to the General All Share IndexNumber19   |    | -                       |  | Number | 15 |
| 58       Volatility (12m)       12-month Constituent Volatility       Number       15         59       Volatility (ytd)       YTD Constituent Volatility       Number       15         60       Beta (1m)       1-month Constituent Beta       Number       15         61       Beta (1m) to Prime All<br>Share       1-month Constituent Beta to the Prime All Share Index       Number       15         62       Beta (1m) to General All       1-month Constituent Beta to the General All Share Index       Number       15   |    | -                       | -  |        | 15 |
| 59       Volatility (ytd)       YTD Constituent Volatility       Number       15         60       Beta (1m)       1-month Constituent Beta       Number       15         61       Beta (1m) to Prime All<br>Share       1-month Constituent Beta to the Prime All Share Index       Number       15         62       Beta (1m) to General All       1-month Constituent Beta to the General All Share Index       Number       15   |    | -                       |  |        | 15 |
| 60       Beta (1m)       1-month Constituent Beta       Number       15         61       Beta (1m) to Prime All<br>Share       1-month Constituent Beta to the Prime All Share Index       Number       15         62       Beta (1m) to General All       1-month Constituent Beta to the General All Share Index       Number       15  |    | -                       |  |        | 15 |
| 61       Beta (1m) to Prime All<br>Share       1-month Constituent Beta to the Prime All Share Index       Number       15         62       Beta (1m) to General All<br>Beta (1 |    |                         |  |        | 15 |
| 62 Beta (1m) to General All   |    | Beta (1m) to Prime All  |  |        | 15 |
| Jildi C   | 62 |                         | 1-month Constituent Beta to the General All Share Index  | Number | 15 |
| Beta (1m) to Entry All  | 63 | Beta (1m) to Entry All  | 1-month Constituent Beta to the Entry All Share Index  | Number | 15 |





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| 64 | Beta (1m) to Classic All<br>Share     | 1-month Constituent Beta to the Classic All Share Index     | Number | 15 |
|----|---------------------------------------|---|--------|----|
| 65 | Beta (1m) to<br>Technology All Share  | 1-month Constituent Beta to the Technology All Share Index  | Number | 15 |
| 66 | Beta (1m) to DAX                      | 1-month Constituent Beta to the DAX Index                   | Number | 15 |
| 67 | Beta (1m) to MDAX                     | 1-month Constituent Beta to the MDAX Index                  | Number | 15 |
| 68 | Beta (1m) to SDAX                     | 1-month Constituent Beta to the MDAX Index                  | Number | 15 |
| 69 | Beta (1m) to TecDAX                   | 1-month Constituent Beta to the TecDAX Index                | Number | 15 |
| 70 | Beta (3m)                             | 3-month Constituent Beta                                    | Number | 15 |
| 71 | Beta (3m) to Prime All<br>Share       | 3-month Constituent Beta to the Prime All Share Index       | Number | 15 |
| 72 | Beta (3m) to General All<br>Share     | 3-month Constituent Beta to the General All Share Index     | Number | 15 |
| 73 | Beta (3m) to Entry All<br>Share       | 3-month Constituent Beta to the Entry All Share Index       | Number | 15 |
| 74 | Beta (3m) to Classic All<br>Share     | 3-month Constituent Beta to the Classic All Share Index     | Number | 15 |
| 75 | Beta (3m) to<br>Technology All Share  | 3-month Constituent Beta to the Technology All Share Index  | Number | 15 |
| 76 | Beta (3m) to DAX                      | 3-month Constituent Beta to the DAX Index                   | Number | 15 |
| 77 | Beta (3m) to MDAX                     | 3-month Constituent Beta to the MDAX Index                  | Number | 15 |
| 78 | Beta (3m) to SDAX                     | 3-month Constituent Beta to the MDAX Index                  | Number | 15 |
| 79 | Beta (3m) to TecDAX                   | 3-month Constituent Beta to the TecDAX Index                | Number | 15 |
| 80 | Beta (6m)                             | 6-month Constituent Beta                                    | Number | 15 |
| 81 | Beta (6m) to Prime All<br>Share       | 6-month Constituent Beta to the Prime All Share Index       | Number | 15 |
| 82 | Beta (6m) to General All<br>Share     | 6-month Constituent Beta to the General All Share Index     | Number | 15 |
| 83 | Beta (6m) to Entry All<br>Share       | 6-month Constituent Beta to the Entry All Share Index       | Number | 15 |
| 84 | Beta (6m) to Classic All<br>Share     | 6-month Constituent Beta to the Classic All Share Index     | Number | 15 |
| 85 | Beta (6m) to<br>Technology All Share  | 6-month Constituent Beta to the Technology All Share Index  | Number | 15 |
| 86 | Beta (6m) to DAX                      | 6-month Constituent Beta to the DAX Index                   | Number | 15 |
| 87 | Beta (6m) to MDAX                     | 6-month Constituent Beta to the MDAX Index                  | Number | 15 |
| 88 | Beta (6m) to SDAX                     | 6-month Constituent Beta to the MDAX Index                  | Number | 15 |
| 89 | Beta (6m) to TecDAX                   | 6-month Constituent Beta to the TecDAX Index                | Number | 15 |
| 90 | Beta (12m)                            | 12-month Constituent Beta                                   | Number | 15 |
| 91 | Beta (12m) to Prime All<br>Share      |   | Number | 15 |
| 92 | Beta (12m) to General<br>All Share    | 12-month Constituent Beta to the General All Share Index    | Number | 15 |
| 93 | Beta (12m) to Entry All<br>Share      | 12-month Constituent Beta to the Entry All Share Index      | Number | 15 |
| 94 | Beta (12m) to Classic All<br>Share    | 12-month Constituent Beta to the Classic All Share Index    | Number | 15 |
| 95 | Beta (12m) to<br>Technology All Share | 12-month Constituent Beta to the Technology All Share Index | Number | 15 |
| 96 | Beta (12m) to DAX                     | 12-month Constituent Beta to the DAX Index                  | Number | 15 |
| 97 | Beta (12m) to MDAX                    | 12-month Constituent Beta to the MDAX Index                 | Number | 15 |
| 98 | Beta (12m) to SDAX                    | 12-month Constituent Beta to the MDAX Index                 | Number | 15 |
| 99 | Beta (12m) to TecDAX                  | 12-month Constituent Beta to the TecDAX Index               | Number | 15 |







| 100 | Beta (ytd)                                  | YTD Constituent Beta  | Number | 15 |
|-----|---|---|--------|----|
| 101 | Beta (ytd) to Prime All<br>Share            | YTD Constituent Beta to the Prime All Share Index                         | Number | 15 |
| 102 | Beta (ytd) to General All<br>Share          | YTD Constituent Beta to the General All Share Index                       | Number | 15 |
| 103 | Beta (ytd) to Entry All<br>Share            | YTD Constituent Beta to the Entry All Share Index                         | Number | 15 |
| 104 | Beta (ytd) to Classic All<br>Share          | YTD Constituent Beta to the Classic All Share Index                       | Number | 15 |
| 105 | Beta (ytd) to<br>Technology All Share       | YTD Constituent Beta to the Technology All Share Index                    | Number | 15 |
| 106 | Beta (ytd) to DAX                           | YTD Constituent Beta to the DAX Index                                     | Number | 15 |
| 107 | Beta (ytd) to MDAX                          | YTD Constituent Beta to the MDAX Index                                    | Number | 15 |
| 108 | Beta (ytd) to SDAX                          | YTD Constituent Beta to the MDAX Index                                    | Number | 15 |
| 109 | Beta (ytd) to TecDAX                        | YTD Constituent Beta to the TecDAX Index                                  | Number | 15 |
| 110 | Correlation (1m)                            | 1-month constituent correlation   | Number | 15 |
| 111 | Correlation (1m) to<br>Prime All Share      | 1-month correlation between constituent and Prime All Share Index         | Number | 15 |
| 112 | Correlation (1m) to<br>General All Share    | 1-month correlation between constituent and General All Share<br>Index    | Number | 15 |
| 113 | Correlation (1m) to<br>Entry All Share      | 1-month correlation between constituent and Entry All Share Index         | Number | 15 |
| 114 | Correlation (1m) to<br>Classic All Share    | 1-month correlation between constituent and Classic All Share<br>Index    | Number | 15 |
| 115 | Correlation (1m) to<br>Technology All Share | 1-month correlation between constituent and Technology All Share<br>Index | Number | 15 |
| 116 |   | 1-month correlation between constituent and DAX Index                     | Number | 15 |
| 117 | Correlation (1m) to<br>MDAX                 | 1-month correlation between constituent and MDAX Index                    | Number | 15 |
| 118 | Correlation (1m) to<br>SDAX                 | 1-month correlation between constituent and SDAX Index                    | Number | 15 |
| 119 | Correlation (1m) to<br>TecDAX               | 1-month correlation between constituent and TecDAX Index                  | Number | 15 |
| 120 | Correlation (3m)                            | 3-month constituent correlation   | Number | 15 |
| 121 | Correlation (3m) to<br>Prime All Share      | 3-month correlation between constituent and Prime All Share Index         | Number | 15 |
| 122 | Correlation (3m) to<br>General All Share    | 3-month correlation between constituent and General All Share<br>Index    | Number | 15 |
| 123 | Correlation (3m) to<br>Entry All Share      | 3-month correlation between constituent and Entry All Share Index         | Number | 15 |
| 124 | Correlation (3m) to<br>Classic All Share    | 3-month correlation between constituent and Classic All Share<br>Index    | Number | 15 |
| 125 | Correlation (3m) to<br>Technology All Share | 3-month correlation between constituent and Technology All Share<br>Index | Number | 15 |
| 126 |   | 3-month correlation between constituent and DAX Index                     | Number | 15 |
| 127 | Correlation (3m) to<br>MDAX                 | 3-month correlation between constituent and MDAX Index                    | Number | 15 |
| 128 | Correlation (3m) to<br>SDAX                 | 3-month correlation between constituent and SDAX Index                    | Number | 15 |
| 129 | Correlation (3m) to<br>TecDAX               | 3-month correlation between constituent and TecDAX Index                  | Number | 15 |
| 130 | Correlation (6m)                            | 6-month constituent correlation   | Number | 15 |
| -   |   |   |        |    |



| 131 | Correlation (6m) to<br>Prime All Share       | 6-month correlation between constituent and Prime All Share Index          | Number | 15 |
|-----|--|--|--------|----|
| 132 | Correlation (6m) to<br>General All Share     | 6-month correlation between constituent and General All Share<br>Index     | Number | 15 |
| 133 | Correlation (6m) to<br>Entry All Share       | 6-month correlation between constituent and Entry All Share Index          | Number | 15 |
| 134 | Correlation (6m) to<br>Classic All Share     | 6-month correlation between constituent and Classic All Share<br>Index     | Number | 15 |
| 135 | Correlation (6m) to<br>Technology All Share  | 6-month correlation between constituent and Technology All Share<br>Index  | Number | 15 |
| 136 | Correlation (6m) to DAX                      | 6-month correlation between constituent and DAX Index                      | Number | 15 |
| 137 | Correlation (6m) to<br>MDAX                  | 6-month correlation between constituent and MDAX Index                     | Number | 15 |
| 138 | Correlation (6m) to<br>SDAX                  | 6-month correlation between constituent and SDAX Index                     | Number | 15 |
| 139 | Correlation (6m) to<br>TecDAX                | 6-month correlation between constituent and TecDAX Index                   | Number | 15 |
| 140 | Correlation (12m)                            | 12-month constituent correlation   | Number | 15 |
| 141 | Correlation (12m) to<br>Prime All Share      | 12-month correlation between constituent and Prime All Share<br>Index      | Number | 15 |
| 142 | Correlation (12m) to<br>General All Share    | 12-month correlation between constituent and General All Share<br>Index    | Number | 15 |
| 143 | Correlation (12m) to<br>Entry All Share      | 12-month correlation between constituent and Entry All Share Index         | Number | 15 |
| 144 | Correlation (12m) to<br>Classic All Share    | 12-month correlation between constituent and Classic All Share<br>Index    | Number | 15 |
| 145 | Correlation (12m) to<br>Technology All Share | 12-month correlation between constituent and Technology All<br>Share Index | Number | 15 |
| 146 | Correlation (12m) to<br>DAX                  | 12-month correlation between constituent and DAX Index                     | Number | 15 |
| 147 | Correlation (12m) to<br>MDAX                 | 12-month correlation between constituent and MDAX Index                    | Number | 15 |
| 148 | Correlation (12m) to<br>SDAX                 | 12-month correlation between constituent and SDAX Index                    | Number | 15 |
| 149 | Correlation (12m) to<br>TecDAX               | 12-month correlation between constituent and TecDAX Index                  | Number | 15 |
| 150 | Correlation (ytd)                            | YTD constituent correlation  | Number | 15 |
| 151 | Correlation (ytd) to<br>Prime All Share      | YTD correlation between constituent and Prime All Share Index              | Number | 15 |
| 152 | Correlation (ytd) to<br>General All Share    | YTD correlation between constituent and General All Share Index            | Number | 15 |
| 153 | Correlation (ytd) to<br>Entry All Share      | YTD correlation between constituent and Entry All Share Index              | Number | 15 |
| 154 | Correlation (ytd) to<br>Classic All Share    | YTD correlation between constituent and Classic All Share Index            | Number | 15 |
| 155 | Correlation (ytd) to<br>Technology All Share | YTD correlation between constituent and Technology All Share<br>Index      | Number | 15 |
| 156 | Correlation (ytd) to DAX                     | YTD correlation between constituent and DAX Index                          | Number | 15 |
| 157 | Correlation (ytd) to<br>MDAX                 | YTD correlation between constituent and MDAX Index                         | Number | 15 |
| 158 | Correlation (ytd) to<br>SDAX                 | YTD correlation between constituent and SDAX Index                         | Number | 15 |
|     |  |  |        |    |







| 159 | Correlation (ytd) to<br>TecDAX    | YTD correlation between constituent and TecDAX Index | Number | 15 |
|-----|-----------------------------------|--|--------|----|
| 160 | Sharpe Ratio (1m)                 | 1-month constituent Sharpe Ratio                     | Number | 15 |
| 161 | Sharpe Ratio (3m)                 | 3-month constituent Sharpe Ratio                     | Number | 15 |
| 162 | Sharpe Ratio (6m)                 | 6-month constituent Sharpe Ratio                     | Number | 15 |
| 163 | Sharpe Ratio (12m)                | 12-month constituent Sharpe Ratio                    | Number | 15 |
| 164 | Sharpe Ratio (ytd)                | YTD constituent Sharpe Ratio                         | Number | 15 |
| 165 | Dividend Points (1d)              | 1-day constituent Dividend Points                    | Number | 15 |
| 166 | Dividend Points (1m)              | 1-month constituent Dividend Points                  | Number | 15 |
| 167 | Dividend Points (3m)              | 3-month constituent Dividend Points                  | Number | 15 |
| 168 | Dividend Points (6m)              | 6-month constituent Dividend Points                  | Number | 15 |
| 169 | Dividend Points (12m)             | 12-month constituent Dividend Points                 | Number | 15 |
| 170 | Dividend Points (ytd)             | YTD constituent Dividend Points                      | Number | 15 |
| 171 | Performance<br>Contribution (1d)  | 1-day constituent Performance Contribution           | Number | 15 |
| 172 | Performance<br>Contribution (1m)  | 1-month constituent Performance Contribution         | Number | 15 |
| 173 | Performance<br>Contribution (3m)  | 3-month constituent Performance Contribution         | Number | 15 |
| 174 | Performance<br>Contribution (6m)  | 6-month constituent Performance Contribution         | Number | 15 |
| 175 | Performance<br>Contribution (12m) | 12-month constituent Performance Contribution        | Number | 15 |
| 176 | Performance<br>Contribution (ytd) | YTD constituent Performance Contribution             | Number | 15 |

## 2.6. Index Weightings Currency

This report contains both index and constituent information based on market closing values as well as index and constituent adjustments to be effective the next index dissemination day for the currency versions of selected index. The file is available on MD+S Interactive platform for licensed users and generated in multiple versions according to the Third-Party Data license the client is entitled to.

- > File name:
  - INDEXNAME\_IWC.YYYYMMDD.xls
  - INDEXNAME\_IWC\_P001.YYYYMMDD.xls with P001 Permissioned Third Party data as described in section 1.2 of the DAX File Guide
- > File type: .xls
- > File frequency: daily at COB

The report consists of four tabs:

- 1. Cover displays file and index name, report date and Customer Support contact details
- 2. Data for today index and constituent closing data
- 3. **Data for next day** index and constituent data adjusted for the next dissemination day
- 4. Info Displays Customer Support contact details and a legend of measures used in calculation

The file specifications will cover tabs "Data for today" and "Data for next day".

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| Column<br>ID | Attribute                                       | Description   | Data Type | Data<br>Format |
|--------------|---|---|-----------|----------------|
| 1            | Index Trading Symbol                            | Index Trading Symbol  | Text      | 4              |
| 2            | Index Name                                      | Index Name  | Text      | 255            |
| 3            | Index ISIN                                      | Index ISIN  | Text      | 12             |
| 4            | Index Currency                                  | Index Currency  | Text      | 3              |
| 5            | Trading Symbol                                  | Constituent Trading Symbol  | Text      | 4              |
| 6            | Instrument                                      | Constituent Name  | Text      | 255            |
| 7            | ISIN  | Constituent ISIN  | Text      | 12             |
| 8            | Sector  | Constituent Sector (filled only for constituents listed on Frankfurt Stock Exchange; n/a otherwise)   | Text      | 255            |
| 9            | Subsector                                       | Constituent Subsector (filled only for constituents listed on Frankfurt Stock Exchange; n/a otherwise)  | Text      | 255            |
| 10           | Country   | Constituent Country (currently not maintained)  | Text      | n/a            |
| 11           | Transparency Level                              | Market segment of the constituent (text "Prime Standard", "General<br>Standard" or "Scale" for constituents listed on Frankfurt Stock<br>Exchange; n/a otherwise)               | Text      | 16             |
| 12           | Sedol   | Constituent SEDOL code (only displayed if licensed)   | Text      | 7              |
| 13           | BB Ticker                                       | Constituent Bloomberg Ticker  | Text      | 6              |
| 14           | Reuters RIC                                     | Constituent Refinitiv Instrument Code   | Text      | 21             |
| 15           | Local Currency                                  | Constituent ISO currency code   | Text      | 3              |
| 16           | Instrument Exchange                             | Constituent Exchange  | Text      | 20             |
| 17           | Index Value (close)                             | Index Close Value on report date  | Number    | 2              |
| 18           | Index Value (open)                              | Index Open value on report date   | Number    | 2              |
| 19           | Index Value (high)                              | Index High value on report date   | Number    | 2              |
| 20           | Index Value (low)                               | Index Low value on report date  | Number    | 2              |
| 21           | Constant A                                      | Index Base value to be used in conjunction with Fi factor   | Number    | 7              |
| 22           | Currency base value<br>(Euro to index currency) | Currency base value EUR to index currency   | Number    | 8              |
| 23           | Currency rate (Euro to index currency)          | Currency exchange rate EUR to index currency  | Number    | 5              |
| 24           | Kt  | Index Chaining Factor   | Number    | 7              |
| 25           | Market Cap (in Mio.<br>index currency) (Index)  | Index Market Capitalisation (in millions)   | Number    | 2              |
| 26           | # Constituents                                  | Number of Index Constituents  | Number    | 0              |
| 27           | pit (close) in index<br>currency                | Closing price of constituent on report date (in index currency)   | Number    | 3              |
| 28           | pit (local)                                     | Closing price of constituent on report date (in local currency)   | Number    | 3              |
| 29           | Currency Rate (Local to<br>Index Currency)      | Currency exchange rate: Constituent currency to index currency  | Number    | 3              |
| 30           | pi0 (Euro)                                      | Opening price of constituent on the trading day before the first inclusion in the index (in EUR)  | Number    | 3              |
| 31           | qi0   | Number of shares of constituent on the first inclusion in the index   | Number    | 0              |
| 32           | qit   | Number of shares of constituent on report date  | Number    | 0              |
| 33           | ffit  | Free float factor of constituent on report date   | Number    | 4              |
| 34           | ci  | Adjustment factor of the constituent  | Number    | 6              |
| 35           | Market Cap. (in Mio.<br>index currency)         | Market Capitalisation on report date (in millions)  | Number    | 2              |
| 36           | Weight  | Weighting of the constituent in the index   | Number    | 4              |
|              | Fi  | Weighting factor F of the constituent (provides information on the<br>number of shares required from each constituent to track the<br>underlying portfolio) – performance index | Number    | 5              |



### 2.7. Business Forecast

#### 2.7.1.Standard format

This report displays future index composition and underlying data that will be implemented at the next chaining date for DAX and DAXglobal Indices. The file is available on MD+S Interactive platform for licensed users.

> File name:

INDEXNAME\_BF.YYYYMMDD.xls, where YYYYMMDD is quarterly review effective date

- > File type: .xls
- > File frequency: quarterly, one trading day (before 9 a.m. CET) before chaining date in March, June, September, December

The report consists of three tabs:

- 1. Cover displays file and index name, report date and Customer Support contact details
- 2. Data displays index and constituent future data
- 3. Info displays Customer Support contact details and a legend of measures used in calculation

The file specifications will cover tab "Data".

| Column<br>ID | Attribute                       | Description   | Data<br>Type | Data<br>Format |
|--------------|---------------------------------|---|--------------|----------------|
| 1            | Index Trading Symbol            | Index Trading Symbol  | Text         | 4              |
| 2            | Index Name                      | Index Name  | Text         | 255            |
| 3            | Index ISIN                      | Index ISIN  | Text         | 12             |
| 4            | Trading Symbol                  | Constituent Trading Symbol  | Text         | 4              |
| 5            | Instrument                      | Constituent Name  | Text         | 255            |
| 6            | ISIN                            | Constituent ISIN  | Text         | 12             |
| 7            | Sector                          | Constituent Sector (filled only for constituents listed on Frankfurt<br>Stock Exchange; n/a otherwise)  | Text         | 255            |
| 8            | Subsector                       | Constituent Subsector (filled only for constituents listed on<br>Frankfurt Stock Exchange; n/a otherwise)   | Text         | 255            |
| 9            | Country                         | Constituent Country (currently not maintained)  | Text         | n/a            |
| 10           | Transparency Level              | Market segment of the constituent (text "Prime Standard", "General<br>Standard" or "Scale" for constituents listed on Frankfurt Stock<br>Exchange; n/a otherwise) | Text         | 16             |
| 11           | Instrument Exchange             | Constituent Exchange  | Text         | 20             |
| 12           | Index Value (close)             | Index Close Value on report date (two days before review implementation)  | Number       | 2              |
| 13           | Constant A                      | Index Base value to be used in conjunction with Fi factor (two days before review implementation)   | Number       | 7              |
| 14           | Market Cap (in Mio.)<br>(Index) | Index Market capitalisation in index currency on report date (in millions) (two days before review implementation)  | Number       | 2              |
| 15           | # Constituents                  | Number of Index constituents  | Number       | 0              |
| 16           | pi0                             | Closing price of constituent on the trading day before the first inclusion in the index   | Number       | 3              |





| 17 | pit                  | Closing price of constituent on report date (two days before review implementation) | Number | 3 |
|----|----------------------|---|--------|---|
| 18 | qi0                  | Number of shares of constituent on the first inclusion in the index                 | Number | 0 |
| 19 | qit                  | Number of shares of constituent to be effective after review implementation         | Number | 0 |
| 20 | ffit                 | Free float factor of constituent to be effective after review implementation        | Number | 4 |
| 21 | ci                   | Adjustment factor of the constituent  | Number | 6 |
| 22 | Market Cap. (in Mio) | Market Capitalisation on report date (in millions)                                  | Number | 4 |
| 23 | Weight               | Weighting of the constituent in the index   | Number | 4 |
| 24 | Capped Ind           | Indicator whether constituent is capped ("Y" or "N")                                | Text   | 1 |

### 2.7.2.DAXplus Maximum Dividend

This report displays future index composition and underlying data that will be implemented at the next chaining date for DAXplus Maximum Dividend Index. The file is available on MD+S Interactive platform for licensed users.

> File name:

DAXplusMaximumDividendIndices\_BF.YYYYMMDD.csv, where YYYYMMDD is review effective date

- > File type: .csv
- > File specification: semicolon separated
- > File frequency: semi-annual, one trading day (before 9 a.m. CET) before chaining date in May and November

| Column<br>ID | Attribute            | Description   | Data<br>Type | Data<br>Format |
|--------------|----------------------|---|--------------|----------------|
| 1            | FACT_DATE            | Review cut-off date   | Date         | dd.mm.yyyy     |
| 2            | ISIN                 | Constituent ISIN  | Text         | 12             |
| 3            | INSTRUMENT_NAME      | Constituent name  | Text         | 255            |
| 4            | DIVIDEND_<br>IN_EURO | Projected dividend amount to be paid in the next 6 months, in EUR | Number       | 7              |
| 5            | PIT_CLOSE            | Constituent closing price on cut-off date                         | Number       | 3              |
| 6            | DIVIDEND_YIELD       | Constituent projected dividend yield                              | Number       | 9              |
| 7            | WEIGHT_UNCAPPED      | Indicative weight in the future index composition (uncapped)      | Number       | 9              |
| 8            | WEIGHT_FINAL         | Indicative weight in the future index composition (final)         | Number       | 9              |

## 2.8. Corporate Actions Forecast

This report displays upcoming dividends and corporate actions for the index constituents. The file is available on MD+S Interactive platform for licensed users.

- > File name:
  - INDEXNAME\_CA\_Forecast.YYYYMMDD.xls
- > File type: .xls
- > File frequency: twice daily (~09:30 CET and ~17:30 CET)

The report consists of two tabs:



- 1. Cover displays file and index name, report date and Customer Support contact details
- 2. **Corporate Action Forecast** displays constituent future corporate actions

The file specifications will cover tab "Corporate Action Forecast". The forecast is split into two section – corporate actions effective on from T (date of report production) to T+3, and corporate actions effective from T+4 to T+10. The first section starts at **Row 14**, the second section moves depending on how many corporate actions are in the first section.

| Column | Attribute                | Description   | Data   | Data       |
|--------|--------------------------|---|--------|------------|
| ID     |                          |   | Туре   | Format     |
| 1      | EX DATE                  | Ex-date of the corporate action   | Date   | dd.mm.yyyy |
| 2      | ISIN                     | Constituent ISIN  | Text   | 12         |
| 3      | REPORTING<br>INSTRUMENT  | Constituent Name  | Text   | 255        |
| 4      | INDEX ISIN               | Index ISIN  | Text   | 12         |
| 5      | INDEX NAME               | Index Name  | Text   | 255        |
| 6      | CORPORATE ACTION<br>TYPE | Description of Corporate action ("regular dividend", "special<br>payment", "rights issue", "spinoff insertion", "spinoff ci-adjustment",<br>"spinoff deletion", "bonus share", "ISIN change", "deletion",<br>"insertion", "parameter change") | Text   | 255        |
| 7      | DIVIDEND AMOUNT          | Amount of issued Dividend   | Number | 2          |
| 8      | DIVIDEND CURRENCY        | Currency of issued Dividend   | Text   | 3          |
| 9      | STRIKE PRICE             | Subscription price (only rights issues)   | Number | 3          |
| 10     | STRIKE PRICE<br>CURRENCY | Rights issue: subscription price currency   | Text   | 3          |
| 11     | NUMERATOR                | Ratio old shares (rights issue, stock dividend, spin-off)   | Number | 3          |
| 12     | DENUMERATOR              | Ratio new shares (rights issue, stock dividend, spin-off)   | Number | 3          |
| 13     | NEW ISIN                 | New ISIN of the constituent (if applicable, empty otherwise)  | Text   | 12         |
| 14     | EXCHANGE                 | Constituent exchange code   | Text   | 3          |
| 15     | COUNTRY/SECTOR           | Currently not maintained  | N/A    | N/A        |
| 16     | CI EFFECT                | Adjustment factor effect for dividend payment of constituent ("increase in ci" or "no change")  | Text   | 14         |
| 17     | DIVISOR EFFECT           | Chaining factor effect ("Change in Divisor" or "none")  | Text   | 17         |
| 18     | INDEX EFFECT             | Currently not maintained (text "none")  | Text   | 4          |
| 19     | CONSOLIDATION<br>STATUS  | Source of corporate action (text "FINAL CONSOLIDATION" or "MD<br>OPERATIONS"  | Text   | 19         |
| 20     | CHANGE                   | Corporate Action change since the last report ("NEW",<br>"NO_CHANGE")   | Text   | 9          |
| 21     | COMMENTS                 | Additional Comments or Empty  | Text   | 255        |

## 2.9. Index Ranking – Core

Core ranking lists are produced for selection indices (DAX, MDAX, SDAX, TecDAX, DAX ex Financials 30 and DAX 50 ESG) in order to determine replacements for any stock deleted from the indices due to a corporate action and are publicly available. The template differs for main selection indices and Scale 30. The file is publicly available on DAX Website and MD+S Interactive platform for licensed users.



#### 2.9.1.Selection indices – CSV format

The file is publicly available on Qontigo Website with the following naming convention:

- > File name: sl\_xxxxx\_YYYYMM.csv, where YYYYMM is the ranking creation date
- > With xxxxx being the Main Index Symbol
- > File type: .csv
- > File specification: semicolon separated
- > File frequency: monthly (exact time depends on index methodology)

The file is available on MD+S Interactive platform for licensed users with the following naming convention:

- > File name: INDEXNAME\_SL.YYYYMMDD.csv, where YYYYMMDD is the ranking creation date
- > File type: .csv
- > File specification: semicolon separated
- > File frequency: monthly (exact time depends on index methodology)

| Column<br>ID | Attribute                    | Description  | Data Type | Data Format |
|--------------|------------------------------|--|-----------|-------------|
| 1            | Date                         | Date at which the file is generated  | Date      | DD.MM.YYYY  |
| 2            | Cut-off Date                 | Ranking list cut-off date  | Date      | DD.MM.YYYY  |
| 3            | Index Trading Symbol         | Index Trading Symbol or Alpha code if Index Trading Symbol is unavailable  | Text      | 4           |
| 4            | Index Name                   | Index Name   | Text      | 255         |
| 5            | Index ISIN                   | Index ISIN   | Text      | 12          |
| 6            | Trading Symbol               | Constituent Trading Symbol   | Text      | 4           |
| 7            | Instrument                   | Constituent Name   | Text      | 255         |
| 8            | ISIN                         | Constituent ISIN   | Text      | 12          |
| 9            | Current Index<br>Membership  | Constituent Index Membership   | Text      | 6           |
| 10           | Rank MarketCap               | Current month constituent ranking by Market Capitalization   | Number    | 0           |
| 11           | ESG Rank                     | Current month constituent ranking by ESG score – only display for ESG indices  | Number    | 0           |
| 12           | Index Membership<br>Possible | Indicator whether constituent is eligible to enter the index ("No" or blank)   | Text      | 2           |
| 13           | Comment                      | Additional Comments or Empty ("Other share type in selection<br>index", "Other share type is ranked", "Exclusion List", "30 days rule,<br>"No VWAP", "ESG criteria not fulfilled", "No ESG score available" or<br>blank) | Text      | 255         |

The comments are displayed in the following order taking into account if a security is a component or not of a selection index

Comment

Order





| Other share type in selection index | 1 |
|-------------------------------------|---|
| Other share type is ranked          | 2 |
| Exclusion List                      | 3 |
| 30 days rule                        | 4 |
| No VWAP                             | 5 |
| blank                               | 6 |

In case the ranking is prepared for the DAX 50 ESG, only the following two comments are displayed:

| Comment                    | Order |
|----------------------------|-------|
| No ESG score available     | 1     |
| ESG criteria not fulfilled | 2     |

## 2.9.2.Scale 30 - CSV format

- > File name: Scale30EUR\_SL.YYYYMMDD.csv, where YYYYMMDD is the ranking list creation date
- > File type: .csv
- > File specification: semicolon separated
- > File frequency: monthly (exact time depends on index methodology)

| Column<br>ID | Attribute                   | Description  | Data<br>Type | Data<br>Format |
|--------------|-----------------------------|--|--------------|----------------|
| 1            | Date                        | Date at which the file is generated  | Date         | DD.MM.YYYY     |
| 2            | Cut-off Date                | Ranking list cut-off date  | Date         | DD.MM.YYYY     |
| 3            | Index Trading Symbol        | Index Trading Symbol or Alpha code if Index Trading Symbol is unavailable        | Text         | 4              |
| 4            | Index Name                  | Index Name   | Text         | 255            |
| 5            | Index ISIN                  | Index ISIN   | Text         | 12             |
| 6            | Trading Symbol              | Constituent Trading Symbol   | Text         | 4              |
| 7            | Instrument                  | Constituent Name   | Text         | 255            |
| 8            | ISIN                        | Constituent ISIN   | Text         | 12             |
| 9            | Current Index<br>Membership | Constituent Index Membership   | Text         | 7              |
| 10           | Rank Turnover 12<br>Month   | Current month constituent ranking by 12-month turnover                           | Number       | 0              |
| 11           | Comment                     | Additional Comments or Empty ("Not traded on Xetra",<br>"30 Days Rule" or blank) | Text         | 255            |



## 2.10. Index Ranking

### 2.10.1. Selection indices - CSV format

The file may be generated in multiple versions accordingly to the Third Party Data license the clients is entitled to. The following table provides an overview of the different Components File name and the Third Party Data excluded.

- > File name:
  - INDEXNAME\_rkP###.YYYYMMDD.csv, where YYYYMMDD is the ranking creation date
  - INDEXNAME\_rkP###.YYYYMMDD with P### = with P### = Permissioned Third Party data as described in section 1.2 of the DAX File Guide
- > File type: .csv
- > File specification: semicolon separated
- > File frequency: monthly (exact time depends on index methodology)

| Column<br>ID | Attribute                                      | Description   | Data Type | Data<br>Format |
|--------------|--|---|-----------|----------------|
| 1            | Date   | Date at which the file is generated   | Date      | DD.MM.YYYY     |
| 2            | Cut-off Date                                   | Ranking list cut-off date   | Date      | DD.MM.YYYY     |
| 3            | Index Trading<br>Symbol                        | Index Trading Symbol or Alpha code if Index Trading Symbol is unavailable                         | Text      | 4              |
| 4            | Index Name                                     | Index Name  | Text      | 255            |
| 5            | Index ISIN                                     | Index ISIN  | Text      | 12             |
| 6            | Trading Symbol                                 | Constituent Trading Symbol  | Text      | 4              |
| 7            | Instrument                                     | Constituent Name  | Text      | 255            |
| 8            | ISIN   | Constituent ISIN  | Text      | 12             |
| 9            | SEDOL  | Constituent SEDOL identifier (only displayed if licensed)   | Text      | 7              |
| 10           | Current Index<br>Membership                    | Constituent Index Membership  | Text      | 6              |
| 11           | Freefloat Factor                               | Constituent Freefloat Factor (ff)   | Number    | 4              |
| 12           | Number of<br>Shares                            | Constituent number of shares  | Number    | 0              |
| 13           | Rank MarketCap                                 | Current constituent ranking by Market Capitalization  | Number    | 0              |
| 14           | Rank MarketCap<br>Previous Month               | Previous month constituent ranking by Market Capitalization                                       | Number    | 0              |
| 15           | MarketCap in<br>Mio Euro                       | Constituent Market Capitalization   | Number    | 8              |
| 16           | Turnover Rate<br>(12 Month)                    | Annual turnover rate  | Number    | 2              |
| 17           | Absolute<br>Turnover in Mio<br>Euro (12 Month) | Absolute 12-month turnover in million EUR   | Number    | 8              |
| 18           | ESG Rank                                       | Current constituent ranking by ESG score. Only displayed for DAX50<br>ESG, otherwise blank.       | Number    | 0              |
| 19           | ESG Rank<br>Previous Month                     | Previous months constituent ranking by ESG score. Only displayed for DAX 50 ESG, otherwise blank. | Number    | 0              |



| 20 | Legal Domicile in<br>Germany            | Consistent Legal Domicile in Germany ("YES" or "NO")  | Text | 3     |
|----|---|---|------|-------|
| 21 | Operative<br>Headquarters in<br>Germany | Operational Headquarters domiciled in Germany ("YES", "NO" or<br>blank)   | Text | 3     |
| 22 | Legal Domicile in<br>EU or EFTA         | Consistent Legal Domicile in EU or EFTA ("NO" or blank)   | Text | 2     |
| 23 | lndex<br>Membership<br>Possible         | Indicator whether constituent is eligible to enter the index ("NO" or blank)  | Text | 2     |
| 24 | Audit Committee                         | Indicator whether the requirement of the Audit Committee existence is met ("NO", "Grandfathering Rule" or blank)  | Text | 19    |
| 25 | Reporting Period<br>End                 | Date of the end of the reporting period   | Date | DD.MM |
| 26 | Annual Financial<br>Report              | Indicator about the publication of the annual audited financial report ("Over 90 days", "Over 4 months" or blank)   | Text | 13    |
| 27 | Half -yearly<br>Financial Report        | Indicator about the publication of the half-yearly financial report<br>("Over 45 days", "Over 3 months" or blank)   | Text | 13    |
| 28 | Quarterly<br>Financial Report           | Indicator about the publication of the quarterly financial report<br>("Over 45 days", "Over 75 days" or blank)  | Text | 12    |
| 29 | EBITDA Criteria                         | Indicator if EBITDA was positive in the two most recent fiscal years<br>("NO" or blank)   | Text | 2     |
| 30 | Comment                                 | Additional Comments or Empty ("Other share type in selection<br>index", "Other share type is ranked", "Exclusion List", "30 days rule,<br>"No VWAP", "ESG criteria not fulfilled", "No ESG score available" or<br>blank | Text | 255   |

The comments are displayed in the following order taking into account if a security is a component or not of a selection index

| Comment                             | Priority |
|-------------------------------------|----------|
| Other share type in selection index | 1        |
| Other share type is ranked          | 2        |
| Exclusion List                      | 3        |
| 30 days rule                        | 4        |
| No VWAP                             | 5        |
| blank                               | 6        |

In case the ranking is prepared for the DAX 50 ESG, only the following two comments are displayed:

| Comment                    | Order |
|----------------------------|-------|
| No ESG score available     | 1     |
| ESG criteria not fulfilled | 2     |



### 2.10.2. Scale 30 - CSV format

The file may be generated in multiple versions accordingly to the Third Party Data license the clients is entitled to. The following table provides an overview of the different Components File name and the Third Party Data excluded.

- > File name:
  - INDEXNAME\_rkP###.YYYYMMDD.csv, where YYYYMMDD is the ranking creation date
  - INDEXNAME\_rkP###.YYYYMMDD with P### = with P### = Permissioned Third Party data as described in section 1.2 of the DAX File Guide
- > File type: .csv
- > File specification: semicolon separated
- > File frequency: monthly (exact time depends on index methodology)

| Column<br>ID | Attribute                                | Description  | Data Type | Data<br>Format |
|--------------|--|--|-----------|----------------|
| 1            | Date                                     | Date at which the file is generated  | Date      | DD.MM.YYYY     |
| 2            | Cut-off Date                             | Ranking list cut-off date  | Date      | DD.MM.YYYY     |
| 3            | Index Trading Symbol                     | Index Trading Symbol or Alpha code if Index Trading Symbol is unavailable        | Text      | 4              |
| 4            | Index Name                               | Index Name   | Text      | 255            |
| 5            | Index ISIN                               | Index ISIN   | Text      | 12             |
| 6            | Trading Symbol                           | Constituent Trading Symbol   | Text      | 4              |
| 7            | Instrument                               | Constituent Name   | Text      | 255            |
| 8            | ISIN                                     | Constituent ISIN   | Text      | 12             |
| 9            | SEDOL                                    | Constituent SEDOL identifier (only displayed if licensed)                        | Text      | 7              |
| 10           | Current Index<br>Membership              | Constituent Index Membership   | Text      | 7              |
| 11           | Freefloat Factor                         | Constituent Freefloat Factor (ff)  | Number    | 4              |
| 12           | Number of Shares                         | Constituent number of shares   | Number    | 0              |
| 13           | MarketCap in Mio Euro                    | Constituent Market Capitalization  | Number    | 2              |
| 14           | Rank Turnover 12<br>Month                | Current constituent ranking by 12-month turnover                                 | Number    | 0              |
| 15           | Rank Turnover 12<br>Month Previous Month | Previous month constituent ranking by 12-month turnover                          | Number    | 0              |
| 16           | Turnover in Mio Euro<br>(12 Month)       | 12-month turnover in million EUR   | Number    | 2              |
| 17           | Comment                                  | Additional Comments or Empty ("Not traded on Xetra",<br>"30 Days Rule" or blank) | Text      | 255            |

### 2.10.3. DAXplus Maximum Dividend

> File name:

DAXplusMaximumDividendIndices\_RK.YYYYMMDD.csv, where YYYYMMDD is the ranking list cut-off date





- > File type: .csv
- > File specification: semicolon separated
- > File frequency: semi-annual

| Column<br>ID | Attribute                  | Description  | Data Type | Data<br>Format |
|--------------|----------------------------|--|-----------|----------------|
| 1            | ISIN                       | Constituent ISIN   | Text      | 12             |
| 2            | INSTRUMENT_NAME            | Constituent name   | Text      | 255            |
| 3            | MASTER_INDEX               | Constituent index membership   | Text      | 4              |
| 4            | THREE_MONTH_ TURNOVER      | 3-month turnover   | Number    | 0              |
| 5            | FREEFLOAT_FACTOR           | Constituent Freefloat Factor (ff)  | Number    | 4              |
| 6            | NUMBER_OF_SHARES           | Constituent number of shares   | Number    | 0              |
| 7            | MARKETCAP                  | Constituent Market Capitalization  | Number    | 0              |
| 8            | PRICE_MOMENTUM             | Cumulative return over the last 12 months excluding the most recent month  | Number    | 9              |
| 9            | DIVIDEND_IN_EURO           | Projected dividend amount to be paid in the next 6 months, in EUR  | Number    | 7              |
| 10           | PIT_CLOSE                  | Constituent closing price on cut-off date  | Number    | 3              |
| 11           | DIVIDEND_YIELD             | Constituent projected dividend yield   | Number    | 9              |
| 12           | RANK                       | Current constituent ranking by dividend yield  | Number    | 0              |
| 13           | DIVIDEND_YIELD_PREV_PERIOD | Previous ranking list constituent dividend yield   | Number    | 9              |
| 14           | RANK_DESCRIPTION           | Text "No dividend within next chaining period / dividend yield last period / rank value = minimum dividend yield next period" or blank | Text      | 118            |
| 15           | EXCLUSION_REASON           | Text "ADTV and/or Free-Float Market Cap and/or Price Momentum below limit" or blank  | Text      | 67             |
| 16           | WEIGHT_UNCAPPED            | Indicative weight in the future index composition (uncapped)   | Number    | 9              |
| 17           | WEIGHT_FINAL               | Indicative weight in the future index composition (final)  | Number    | 9              |

# 2.11. Statistical reporting

### 2.11.1. Analytical data report

This report contains both index and constituent statistical measures and performance indicators. The file is available on MD+S Interactive platform for licensed users.

> File name:

#### INDEXNAME\_BMA.YYYYMMDD.xls

- > File type: .xls
- > File frequency: daily at COB

The report consists of four tabs:

- 1. Cover displays file and index name, report date and Customer Support contact details
- 2. Data for today index and constituent closing data
- 3. Data for next day index and constituent data adjusted for the next dissemination day
- 4. Info Displays Customer Support contact details and a legend of measures used in calculation

The file specifications will cover tabs "Data for today" and "Data for next day".

Data starts at **Row 6.** 







| Column<br>ID | Attribute                       | Description                                  | Data Type | Data<br>Format |
|--------------|---------------------------------|--|-----------|----------------|
| 1            | Index Trading Symbol            | Index Trading Symbol T                       | ext       | 4              |
| 3            | Index ISIN                      | Index ISIN T                                 | ext       | 12             |
| 5            | Instrument                      | Constituent Name T                           | ext       | 255            |
| 6            | ISIN                            |  | ext       | 12             |
| 7            | Quintil                         | Quintile rank of the constituent by weight N | lumber    | 0              |
| 8            | Performance (1d)<br>(Index)     | 1-day Index performance                      | lumber    | 15             |
| 9            | Performance (1m)<br>(Index)     | 1-month Index performance                    | Number    | 15             |
| 10           | Performance (3m)<br>(Index)     | 3-month Index performance                    | Number    | 15             |
| 11           | Performance (6m)<br>(Index)     | 6-month Index performance                    | Number    | 15             |
| 12           | Performance (12m)<br>(Index)    | 12-month Index performance                   | lumber    | 15             |
| 13           | Performance (ytd)<br>(Index)    | YTD Index performance                        | lumber    | 15             |
| 14           | Volatility (1m) (Index)         | 1-month Index Volatility N                   | lumber    | 15             |
| 15           | Volatility (3m) (Index)         |  | lumber    | 15             |
| 16           | Volatility (6m) (Index)         | 6-month Index Volatility                     | lumber    | 15             |
| 17           | Volatility (12m) (Index)        | 12-months Index Volatility N                 | lumber    | 15             |
| 18           | Volatility (ytd) (Index)        | YTD Index Volatility                         | lumber    | 15             |
| 19           | Sharpe Ratio (1m)<br>(Index)    | 1-month Index Sharpe Ratio                   | lumber    | 15             |
| 20           | Sharpe Ratio (3m)<br>(Index)    | 3-month Index Sharpe Ratio                   | lumber    | 15             |
| 21           | Sharpe Ratio (6m)<br>(Index)    | 6-month Index Sharpe Ratio                   | Number    | 15             |
| 22           | Sharpe Ratio (12m)<br>(Index)   | 12-month Index Sharpe Ratio                  | Number    | 15             |
| 23           | Sharpe Ratio (ytd)<br>(Index)   | YTD Index Sharpe Ratio                       | Number    | 15             |
| 24           | Dividend Yield (1d)<br>(Index)  | 1-day Index Dividend Yield                   | Number    | 15             |
| 25           | Dividend Yield (1m)<br>(Index)  | 1-month Index Dividend Yield                 | lumber    | 15             |
| 26           | Dividend Yield (3m)<br>(Index)  | 3-month Index Dividend Yield                 | lumber    | 15             |
| 27           | Dividend Yield (6m)<br>(Index)  | 6-month Index Dividend Yield                 | lumber    | 15             |
| 28           | Dividend Yield (12m)<br>(Index) | 12-month Index Dividend Yield                | lumber    | 15             |
| 29           | Dividend Yield (ytd)<br>(Index) | YTD Index Dividend Yield                     | lumber    | 15             |
| 30           | Dividend Points (1d)<br>(Index) | 1-day Index Dividend Points                  | lumber    | 15             |
| 31           | Dividend Points (1m)<br>(Index) | 1-month Index Dividend Points                | lumber    | 15             |
| 32           | Dividend Points (3m)<br>(Index) | 3-month Index Dividend Points                | lumber    | 15             |





| 33 | Dividend Points (6m)<br>(Index)      | 6-month Index Dividend Points                              | Number | 15 |
|----|--------------------------------------|--|--------|----|
| 34 | Dividend Points (12m)<br>(Index)     | 12-month Index Dividend Points                             | Number | 15 |
| 35 | Dividend Points (ytd)<br>(Index)     | YTD month Index Dividend Points                            | Number | 15 |
| 36 | Performance (1d)                     | 1-day Constituent Performance                              | Number | 15 |
| 37 | Performance (1m)                     | 1-month Constituent Performance                            | Number | 15 |
| 38 | Performance (3m)                     | 3-month Constituent Performance                            | Number | 15 |
| 39 | Performance (6m)                     | 6-month Constituent Performance                            | Number | 15 |
| 40 | Performance (12m)                    | 12-month Constituent Performance                           | Number | 15 |
| 41 | Performance (ytd)                    | YTD Constituent Performance                                | Number | 15 |
| 42 | Volatility (1m)                      | 1-mnth Constituent Volatility                              | Number | 15 |
| 43 | Volatility (3m)                      | 3-month Constituent Volatility                             | Number | 15 |
| 44 | Volatility (6m)                      | 6-month Constituent Volatility                             | Number | 15 |
| 45 | Volatility (12m)                     | 12-month Constituent Volatility                            | Number | 15 |
| 46 | Volatility (ytd)                     | YTD Constituent Volatility                                 | Number | 15 |
| 47 | Beta (1m)                            | 1-month Constituent Beta                                   | Number | 15 |
| 48 | Beta (1m) to Prime All<br>Share      | 1-month Constituent Beta to the Prime All Share Index      | Number | 15 |
| 49 | Beta (1m) to General All<br>Share    | 1-month Constituent Beta to the General All Share Index    | Number | 15 |
| 50 | Beta (1m) to Entry All<br>Share      | 1-month Constituent Beta to the Entry All Share Index      | Number | 15 |
| 51 | Beta (1m) to Classic All<br>Share    | 1-month Constituent Beta to the Classic All Share Index    | Number | 15 |
| 52 | Beta (1m) to<br>Technology All Share | 1-month Constituent Beta to the Technology All Share Index | Number | 15 |
| 53 | Beta (1m) to DAX                     | 1-month Constituent Beta to the DAX Index                  | Number | 15 |
| 54 | Beta (1m) to MDAX                    | 1-month Constituent Beta to the MDAX Index                 | Number | 15 |
| 55 | Beta (1m) to SDAX                    | 1-month Constituent Beta to the MDAX Index                 | Number | 15 |
| 56 | Beta (1m) to TecDAX                  | 1-month Constituent Beta to the TecDAX Index               | Number | 15 |
| 57 | Beta (3m)                            | 3-month Constituent Beta                                   | Number | 15 |
| 58 | Beta (3m) to Prime All<br>Share      | 3-month Constituent Beta to the Prime All Share Index      | Number | 15 |
| 59 | Beta (3m) to General All<br>Share    | 3-month Constituent Beta to the General All Share Index    | Number | 15 |
| 60 | Beta (3m) to Entry All<br>Share      | 3-month Constituent Beta to the Entry All Share Index      | Number | 15 |
| 61 | Beta (3m) to Classic All<br>Share    | 3-month Constituent Beta to the Classic All Share Index    | Number | 15 |
| 62 | Beta (3m) to<br>Technology All Share | 3-month Constituent Beta to the Technology All Share Index | Number | 15 |
| 63 | Beta (3m) to DAX                     | 3-month Constituent Beta to the DAX Index                  | Number | 15 |
| 64 | Beta (3m) to MDAX                    | 3-month Constituent Beta to the MDAX Index                 | Number | 15 |
| 65 | Beta (3m) to SDAX                    | 3-month Constituent Beta to the MDAX Index                 | Number | 15 |
| 66 | Beta (3m) to TecDAX                  | 3-month Constituent Beta to the TecDAX Index               | Number | 15 |
| 67 | Beta (6m)                            | 6-month Constituent Beta                                   | Number | 15 |
| 68 | Beta (6m) to Prime All<br>Share      | 6-month Constituent Beta to the Prime All Share Index      | Number | 15 |
| 69 | Beta (6m) to General All<br>Share    | 6-month Constituent Beta to the General All Share Index    | Number | 15 |



| 70  | Beta (6m) to Entry All<br>Share             | 6-month Constituent Beta to the Entry All Share Index                     | Number | 15 |
|-----|---|---|--------|----|
| 71  | Beta (6m) to Classic All<br>Share           | 6-month Constituent Beta to the Classic All Share Index                   | Number | 15 |
| 72  | Beta (6m) to<br>Technology All Share        | 6-month Constituent Beta to the Technology All Share Index                | Number | 15 |
| 73  | Beta (6m) to DAX                            | 6-month Constituent Beta to the DAX Index                                 | Number | 15 |
| 74  | Beta (6m) to MDAX                           | 6-month Constituent Beta to the MDAX Index                                | Number | 15 |
| 75  | Beta (6m) to SDAX                           | 6-month Constituent Beta to the MDAX Index                                | Number | 15 |
| 76  | Beta (6m) to TecDAX                         | 6-month Constituent Beta to the TecDAX Index                              | Number | 15 |
| 77  | Beta (12m)                                  | 12-month Constituent Beta   | Number | 15 |
| 78  | Beta (12m) to Prime All<br>Share            | 12-month Constituent Beta to the Prime All Share Index                    | Number | 15 |
| 79  | Beta (12m) to General<br>All Share          | 12-month Constituent Beta to the General All Share Index                  | Number | 15 |
| 80  | Beta (12m) to Entry All<br>Share            | 12-month Constituent Beta to the Entry All Share Index                    | Number | 15 |
| 81  | Beta (12m) to Classic All<br>Share          | 12-month Constituent Beta to the Classic All Share Index                  | Number | 15 |
| 82  | Beta (12m) to<br>Technology All Share       | 12-month Constituent Beta to the Technology All Share Index               | Number | 15 |
| 83  | Beta (12m) to DAX                           | 12-month Constituent Beta to the DAX Index                                | Number | 15 |
| 84  | Beta (12m) to MDAX                          | 12-month Constituent Beta to the MDAX Index                               | Number | 15 |
| 85  | Beta (12m) to SDAX                          | 12-month Constituent Beta to the MDAX Index                               | Number | 15 |
| 86  | Beta (12m) to TecDAX                        | 12-month Constituent Beta to the TecDAX Index                             | Number | 15 |
| 87  | Beta (ytd)                                  | YTD Constituent Beta  | Number | 15 |
| 88  | Beta (ytd) to Prime All<br>Share            | YTD Constituent Beta to the Prime All Share Index                         | Number | 15 |
| 89  | Beta (ytd) to General All<br>Share          | YTD Constituent Beta to the General All Share Index                       | Number | 15 |
| 90  | Beta (ytd) to Entry All<br>Share            | YTD Constituent Beta to the Entry All Share Index                         | Number | 15 |
| 91  | Beta (ytd) to Classic All<br>Share          | YTD Constituent Beta to the Classic All Share Index                       | Number | 15 |
| 92  | Beta (ytd) to<br>Technology All Share       | YTD Constituent Beta to the Technology All Share Index                    | Number | 15 |
| 93  | Beta (ytd) to DAX                           | YTD Constituent Beta to the DAX Index                                     | Number | 15 |
| 94  | Beta (ytd) to MDAX                          | YTD Constituent Beta to the MDAX Index                                    | Number | 15 |
| 95  | Beta (ytd) to SDAX                          | YTD Constituent Beta to the MDAX Index                                    | Number | 15 |
| 96  | Beta (ytd) to TecDAX                        | YTD Constituent Beta to the TecDAX Index                                  | Number | 15 |
| 97  | Correlation (1m)                            | 1-month constituent correlation   | Number | 15 |
| 98  | Correlation (1m) to<br>Prime All Share      | 1-month correlation between constituent and Prime All Share Index         | Number | 15 |
| 99  | Correlation (1m) to<br>General All Share    | 1-month correlation between constituent and General All Share<br>Index    | Number | 15 |
| 100 | Correlation (1m) to<br>Entry All Share      | 1-month correlation between constituent and Entry All Share Index         | Number | 15 |
| 101 | Correlation (1m) to<br>Classic All Share    | 1-month correlation between constituent and Classic All Share<br>Index    | Number | 15 |
| 102 | Correlation (1m) to<br>Technology All Share | 1-month correlation between constituent and Technology All Share<br>Index | Number | 15 |
| 103 | Correlation (1m) to DAX                     | 1-month correlation between constituent and DAX Index                     | Number | 15 |
|     |   |   |        |    |





| 104 | Correlation (1m) to<br>MDAX                  | 1-month correlation between constituent and MDAX Index                     | Number | 15 |
|-----|--|--|--------|----|
| 105 | Correlation (1m) to<br>SDAX                  | 1-month correlation between constituent and SDAX Index                     | Number | 15 |
| 106 | Correlation (1m) to<br>TecDAX                | 1-month correlation between constituent and TecDAX Index                   | Number | 15 |
| 107 | Correlation (3m)                             | 3-month constituent correlation  | Number | 15 |
| 108 | Correlation (3m) to<br>Prime All Share       | 3-month correlation between constituent and Prime All Share Index          | Number | 15 |
| 109 | Correlation (3m) to<br>General All Share     | 3-month correlation between constituent and General All Share<br>Index     | Number | 15 |
| 110 | Correlation (3m) to<br>Entry All Share       | 3-month correlation between constituent and Entry All Share Index          | Number | 15 |
| 111 | Correlation (3m) to<br>Classic All Share     | 3-month correlation between constituent and Classic All Share<br>Index     | Number | 15 |
| 112 | Correlation (3m) to<br>Technology All Share  | 3-month correlation between constituent and Technology All Share<br>Index  | Number | 15 |
| 113 |  | 3-month correlation between constituent and DAX Index                      | Number | 15 |
| 114 | Correlation (3m) to<br>MDAX                  | 3-month correlation between constituent and MDAX Index                     | Number | 15 |
| 115 | Correlation (3m) to<br>SDAX                  | 3-month correlation between constituent and SDAX Index                     | Number | 15 |
| 116 | Correlation (3m) to<br>TecDAX                | 3-month correlation between constituent and TecDAX Index                   | Number | 15 |
| 117 | Correlation (6m)                             | 6-month constituent correlation  | Number | 15 |
| 118 | Correlation (6m) to<br>Prime All Share       | 6-month correlation between constituent and Prime All Share Index          | Number | 15 |
| 119 | Correlation (6m) to<br>General All Share     | 6-month correlation between constituent and General All Share<br>Index     | Number | 15 |
| 120 | Correlation (6m) to<br>Entry All Share       | 6-month correlation between constituent and Entry All Share Index          | Number | 15 |
| 121 | Correlation (6m) to<br>Classic All Share     | 6-month correlation between constituent and Classic All Share<br>Index     | Number | 15 |
| 122 | Correlation (6m) to<br>Technology All Share  | 6-month correlation between constituent and Technology All Share<br>Index  | Number | 15 |
| 123 |  | 6-month correlation between constituent and DAX Index                      | Number | 15 |
| 124 | Correlation (6m) to<br>MDAX                  | 6-month correlation between constituent and MDAX Index                     | Number | 15 |
| 125 | Correlation (6m) to<br>SDAX                  | 6-month correlation between constituent and SDAX Index                     | Number | 15 |
| 126 | Correlation (6m) to<br>TecDAX                | 6-month correlation between constituent and TecDAX Index                   | Number | 15 |
| 127 | Correlation (12m)                            | 12-month constituent correlation   | Number | 15 |
| 128 | Correlation (12m) to<br>Prime All Share      | 12-month correlation between constituent and Prime All Share<br>Index      | Number | 15 |
| 129 | Correlation (12m) to<br>General All Share    | 12-month correlation between constituent and General All Share<br>Index    | Number | 15 |
| 130 | Correlation (12m) to<br>Entry All Share      | 12-month correlation between constituent and Entry All Share Index         | Number | 15 |
| 131 | Correlation (12m) to<br>Classic All Share    | 12-month correlation between constituent and Classic All Share<br>Index    | Number | 15 |
| 132 | Correlation (12m) to<br>Technology All Share | 12-month correlation between constituent and Technology All<br>Share Index | Number | 15 |
|     | *  |  |        |    |

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| 133 | Correlation (12m) to<br>DAX                  | 12-month correlation between constituent and DAX Index                | Number | 15 |
|-----|--|---|--------|----|
| 134 | Correlation (12m) to<br>MDAX                 | 12-month correlation between constituent and MDAX Index               | Number | 15 |
| 135 | Correlation (12m) to SDAX                    | 12-month correlation between constituent and SDAX Index               | Number | 15 |
| 136 | Correlation (12m) to<br>TecDAX               | 12-month correlation between constituent and TecDAX Index             | Number | 15 |
| 137 | Correlation (ytd)                            | YTD constituent correlation   | Number | 15 |
| 138 | Correlation (ytd) to<br>Prime All Share      | YTD correlation between constituent and Prime All Share Index         | Number | 15 |
| 139 | Correlation (ytd) to<br>General All Share    | YTD correlation between constituent and General All Share Index       | Number | 15 |
| 140 | Correlation (ytd) to<br>Entry All Share      | YTD correlation between constituent and Entry All Share Index         | Number | 15 |
| 141 | Correlation (ytd) to<br>Classic All Share    | YTD correlation between constituent and Classic All Share Index       | Number | 15 |
| 142 | Correlation (ytd) to<br>Technology All Share | YTD correlation between constituent and Technology All Share<br>Index | Number | 15 |
| 143 | Correlation (ytd) to DAX                     | YTD correlation between constituent and DAX Index                     | Number | 15 |
| 144 | Correlation (ytd) to<br>MDAX                 | YTD correlation between constituent and MDAX Index                    | Number | 15 |
| 145 | Correlation (ytd) to<br>SDAX                 | YTD correlation between constituent and SDAX Index                    | Number | 15 |
| 146 | Correlation (ytd) to<br>TecDAX               | YTD correlation between constituent and TecDAX Index                  | Number | 15 |
| 147 | Sharpe Ratio (1m)                            | 1-month constituent Sharpe Ratio                                      | Number | 15 |
| 148 | Sharpe Ratio (3m)                            | 3-month constituent Sharpe Ratio                                      | Number | 15 |
| 149 | Sharpe Ratio (6m)                            | 6-month constituent Sharpe Ratio                                      | Number | 15 |
| 150 | Sharpe Ratio (12m)                           | 12-month constituent Sharpe Ratio                                     | Number | 15 |
| 151 | Sharpe Ratio (ytd)                           | YTD constituent Sharpe Ratio  | Number | 15 |
| 152 | Dividend Points (1d)                         | 1-day constituent Dividend Points                                     | Number | 15 |
| 153 | Dividend Points (1m)                         | 1-month constituent Dividend Points                                   | Number | 15 |
| 154 | Dividend Points (3m)                         | 3-month constituent Dividend Points                                   | Number | 15 |
| 155 | Dividend Points (6m)                         | 6-month constituent Dividend Points                                   | Number | 15 |
| 156 | Dividend Points (12m)                        | 12-month constituent Dividend Points                                  | Number | 15 |
| 157 | Dividend Points (ytd)                        | YTD constituent Dividend Points                                       | Number | 15 |
| 158 | Performance<br>Contribution (1d)             | 1-day constituent Performance Contribution                            | Number | 15 |
| 159 | Performance<br>Contribution (1m)             | 1-month constituent Performance Contribution                          | Number | 15 |
| 160 | Performance<br>Contribution (3m)             | 3-month constituent Performance Contribution                          | Number | 15 |
| 161 | Performance<br>Contribution (6m)             | 6-month constituent Performance Contribution                          | Number | 15 |
| 162 | Performance<br>Contribution (12m)            | 12-month constituent Performance Contribution                         | Number | 15 |
| 163 | Performance<br>Contribution (ytd)            | YTD constituent Performance Contribution                              | Number | 15 |
|     |  | ·   |        | •  |





## 2.11.2. Roundtrip CSV

This report contains the Xetra Liquidity Measure (XLM) for 10,000 EUR and 25,000 EUR roundtrips (simultaneous purchase and sale of a position) for a given order volume for companies in the Prime, General Standard and Scale. The file is available on MD+S Interactive platform for licensed users.

This file publication will take place per index on a monthly basis (close of 3rd trading day) for the following indices: DAX, SDAX, MDAX, TECDAX, DAX EX-FIN 30, DAX 50 ESG and Scale 30

> File name:

#### INDEXNAME\_roundtrip.YYYYMMDD.csv

- > File type: .csv
- > File specification: semicolon separated
- > File frequency: monthly

| Column<br>ID | Attribute                   | Description                                      | Data<br>Type | Data Format |
|--------------|-----------------------------|--|--------------|-------------|
| 1            | Date                        | Date at which the file is generated              | Date         | DD.MM.YYYY  |
| 2            | Cut-off Date                | Ranking list cut-off date                        | Date         | DD.MM.YYYY  |
| 4            | Index Name                  | Index Name                                       | Text         | 255         |
| 5            | Index ISIN                  | Index ISIN                                       | Text         | 12          |
| 6            | Trading Symbol              | Constituent Trading Symbol                       | Text         | 4           |
| 7            | Instrument                  | Constituent Name                                 | Text         | 255         |
| 8            | ISIN                        | Constituent ISIN                                 | Text         | 12          |
| 9            | Current Index<br>Membership | Constituent Index Membership                     | Text         | 7           |
| 10           | XLM Round Trip Costs<br>10k | Xetra liquidity measure for 10,000 EUR roundtrip | Number       | 2           |
| 11           | XLM Round Trip Costs<br>25k | Xetra liquidity measure for 25,000 EUR roundtrip | Number       | 2           |

### 2.11.3. ESG Reporting

The aim of the file is to provide the consolidated ESG data for DAX ESG/Climate indices in order to meet regulatory requirements. All calculated measures are based on closing data of quarterly review effective date. The file is publicly available on DAX Website.

- > File Name: ESG\_Report\_IndexISIN
- > File Type: .csv
- > File specification: semicolon separated
- > File Frequency: Quarterly (after review implementation)

| Row<br>ID | Attribute              | Description                                   | Data<br>Type | Data<br>Format |
|-----------|------------------------|---|--------------|----------------|
| 1         | Item1_BM_Administrator | Index administrator (text "STOXX Ltd.")       | Text         | 10             |
| 2         | Item2_Asset_Class      | Asset class of the index (currently "Equity") | Text         | 6              |
| 3         | Item3_Benchmark_Name   | Index Name                                    | Text         | 255            |







| 4   | Item3 Benchmark ISIN                                      | Index ISIN  | Text   | 12  |
|-----|---|---|--------|-----|
|     | Item3_Benchmark_Symbol                                    | Index Symbol  | Text   | 8   |
|     | Item3_Benchmark_Family_Name                               | Benchmark family of the index   | Text   | 255 |
|     |   | "Yes" if here are any indices administered by STOXX                                       |        | 255 |
| 7   | Item4 ESG in Portfolio                                    | which follow ESG objectives   | Text   | 3   |
| ,   |   | "Yes" for indices that have ESG objectives; "No"  | Text   | 5   |
| 8   | Item5_ESG_objectives                                      | otherwise   | Text   | 3   |
|     |   | This value is reported only if the benchmark is a   |        | -   |
|     |   | part of the ESG families (DAX Environmental Social  |        |     |
|     |   | & Governance Index Family). This field is the simple                                      |        |     |
|     |   | average of the values of all the benchmarks in the  |        |     |
|     |   | family. If None of the benchmarks in the family has                                       |        |     |
|     |   | any value, then the field value is NA. Only   |        |     |
|     | Item6a_Consolidated_                                      | benchmarks with a value is included in the  |        |     |
| 9   | ESG_Rating_Family_Level                                   | calculation of the simple average.  | Number | 2   |
|     |   | This value is reported only if the benchmark is a   |        |     |
|     |   | part of the ESG families (DAX Environmental Social  |        |     |
|     |   | & Governance Index Family). This field is the simple                                      |        |     |
|     |   | average of the values of all the benchmarks in the  |        |     |
|     |   | family. If None of the benchmarks in the family has                                       |        |     |
|     |   | any value, then the field value is NA. Only   |        |     |
|     | Item6a_ESG_ratings_                                       | benchmarks with a value is included in the  |        | -   |
| 10  | top_ten_Family_Level                                      | calculation of the simple average.  | Number | 2   |
|     |   | This value is reported only if the benchmark is a   |        |     |
|     |   | part of the ESG families (DAX Environmental Social  |        |     |
|     |   | & Governance Index Family). This field is the simple                                      |        |     |
|     |   | average of the values of all the benchmarks in the  |        |     |
|     |   | family. If None of the benchmarks in the family has                                       |        |     |
|     | Itoméh Consolidatod                                       | any value, then the field value is NA. Only<br>benchmarks with a value is included in the |        |     |
|     | Item6b_Consolidated_<br>Environmental_Rating_Family_Level | calculation of the simple average.  | Number | 2   |
| 11  |   | This value is reported only if the benchmark is a   | Number | 2   |
|     |   | part of the ESG families (DAX Environmental Social  |        |     |
|     |   | & Governance Index Family). This field is the simple                                      |        |     |
|     |   | average of the values of all the benchmarks in the  |        |     |
|     |   | family. If None of the benchmarks in the family has                                       |        |     |
|     |   | any value, then the field value is NA. Only   |        |     |
|     | Item6b Green Revenues                                     | benchmarks with a value is included in the  |        |     |
|     | or_Green_Capex_Family_Level                               | calculation of the simple average.  | Number | 2   |
|     | Item6b_Climate_Related_                                   |   |        |     |
|     | Physical_Risks_Family_Level                               | Data is not available to report this value  | Number | 2   |
|     |   | This value is reported only if the benchmark is a   |        |     |
|     |   | part of the ESG families (DAX Environmental Social  |        |     |
|     |   | & Governance Index Family). This field is the simple                                      |        |     |
|     |   | average of the values of all the benchmarks in the  |        |     |
|     |   | family. If None of the benchmarks in the family has                                       |        |     |
|     |   | any value, then the field value is NA. Only   |        |     |
|     | Item6b_Exposure_NACE_                                     | benchmarks with a value is included in the  |        |     |
| 14  | Sections_Family_Level                                     | calculation of the simple average.  | Number | 2   |
|     |   | This value is reported only if the benchmark is a   |        |     |
|     |   | part of the ESG families (DAX Environmental Social  |        |     |
| 4.5 | there (h. CHC, internative, Freedback, and I              | & Governance Index Family). This field is the simple                                      |        | 2   |
| 15  | Item6b_GHG_intensity_Family_Level                         | average of the values of all the benchmarks in the  | Number | 2   |



|    |                              | family if Nana of the banchmarks in the family has   |        |     |
|----|------------------------------|--|--------|-----|
|    |                              | family. If None of the benchmarks in the family has  |        |     |
|    |                              | any value, then the field value is NA. Only          |        |     |
|    |                              | benchmarks with a value is included in the           |        |     |
|    |                              | calculation of the simple average.                   |        |     |
|    |                              | This value is reported only if the benchmark is a    |        |     |
|    |                              | part of the ESG families (DAX Environmental Social   |        |     |
|    |                              | & Governance Index Family). This field is the simple |        |     |
|    |                              | average of the values of all the benchmarks in the   |        |     |
|    |                              | family. If None of the benchmarks in the family has  |        |     |
|    |                              | any value, then the field value is NA. Only          |        |     |
|    | Item6b_GHG_reported_         | benchmarks with a value is included in the           |        | _   |
| 16 | vs_estimated_Family_Level    | calculation of the simple average.                   | Number | 2   |
|    |                              | This value is reported only if the benchmark is a    |        |     |
|    |                              | part of the ESG families (DAX Environmental Social   |        |     |
|    |                              | & Governance Index Family). This field is the simple |        |     |
|    |                              | average of the values of all the benchmarks in the   |        |     |
|    |                              | family. If None of the benchmarks in the family has  |        |     |
|    |                              | any value, then the field value is NA. Only          |        |     |
|    | Item6b_Exposure_NACE_        | benchmarks with a value is included in the           |        |     |
| 17 | Divisions_Family_Level       | calculation of the simple average.                   | Number | 2   |
|    |                              | This value is reported only if the benchmark is a    |        |     |
|    |                              | part of the ESG families (DAX Environmental Social   |        |     |
|    |                              | & Governance Index Family). This field is the simple |        |     |
|    |                              | average of the values of all the benchmarks in the   |        |     |
|    |                              | family. If None of the benchmarks in the family has  |        |     |
|    | Item6b_Exposure_to_          | any value, then the field value is NA. Only          |        |     |
|    | Environmental_Goods_and_     | benchmarks with a value is included in the           |        |     |
| 18 | Services_Family_Level        | calculation of the simple average.                   | Number | 2   |
|    |                              | This value is reported only if the benchmark is a    |        |     |
|    |                              | part of the ESG families (DAX Environmental Social   |        |     |
|    |                              | & Governance Index Family). This field is the simple |        |     |
|    |                              | average of the values of all the benchmarks in the   |        |     |
|    |                              | family. If None of the benchmarks in the family has  |        |     |
|    |                              | any value, then the field value is NA. Only          |        |     |
|    | Item6c_Consolidated_         | benchmarks with a value is included in the           |        |     |
| 19 | Social_Rating_Family_Level   | calculation of the simple average.                   | Number | 2   |
|    | Item6c_Sources_for_          |  |        |     |
|    | Controversial_Weapon_        |  |        | _   |
| 20 | Definition_Family_Level      | Text "Refer to Data and Standards" and the link      | Text   | 255 |
|    |                              | This value is reported only if the benchmark is a    |        |     |
|    |                              | part of the ESG families (DAX Environmental Social   |        |     |
|    |                              | & Governance Index Family). This field is the simple |        |     |
|    |                              | average of the values of all the benchmarks in the   |        |     |
|    |                              | family. If None of the benchmarks in the family has  |        |     |
|    |                              | any value, then the field value is NA. Only          |        |     |
| •  | Item6c_Controversial_        | benchmarks with a value is included in the           |        |     |
| 21 | Weapons_Family_Level         | calculation of the simple average.                   | Number | 2   |
|    |                              | This value is reported only if the benchmark is a    |        |     |
|    |                              | part of the ESG families (DAX Environmental Social   |        |     |
|    |                              | & Governance Index Family). This field is the simple |        |     |
|    |                              | average of the values of all the benchmarks in the   |        |     |
|    |                              | family. If None of the benchmarks in the family has  |        |     |
| 22 | Item6c_Tobacco_ Family_Level | any value, then the field value is NA. Only          | Number | 2   |

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|    | 1                                      |  |        |   |
|----|--|--|--------|---|
|    |  | benchmarks with a value is included in the           |        |   |
|    |  | calculation of the simple average.                   |        |   |
|    |  | This value is reported only if the benchmark is a    |        |   |
|    |  | part of the ESG families (DAX Environmental Social   |        |   |
|    |  | & Governance Index Family). This field is the simple |        |   |
|    |  | average of the values of all the benchmarks in the   |        |   |
|    |  | family. If None of the benchmarks in the family has  |        |   |
|    |  | any value, then the field value is NA. Only          |        |   |
|    |  | benchmarks with a value is included in the           |        |   |
| 23 | Item6c_Social_Violations_ Family_Level | calculation of the simple average.                   | Number | 2 |
|    |  | This value is reported only if the benchmark is a    |        |   |
|    |  | part of the ESG families (DAX Environmental Social   |        |   |
|    |  | & Governance Index Family). This field is the simple |        |   |
|    |  | average of the values of all the benchmarks in the   |        |   |
|    |  | family. If None of the benchmarks in the family has  |        |   |
|    | Item6c_Exposure_to_Companies_          | any value, then the field value is NA. Only          |        |   |
|    | with_no_Due_Diligence_Policies_        | benchmarks with a value is included in the           |        |   |
| 24 | on_ILO_conventions_Family_Level        | calculation of the simple average.                   | Number | 2 |
|    |  | This value is reported only if the benchmark is a    |        |   |
|    |  | part of the ESG families (DAX Environmental Social   |        |   |
|    |  | & Governance Index Family). This field is the simple |        |   |
|    |  | average of the values of all the benchmarks in the   |        |   |
|    |  | family. If None of the benchmarks in the family has  |        |   |
|    |  | any value, then the field value is NA. Only          |        |   |
|    |  | benchmarks with a value is included in the           |        |   |
| 25 | Item6c_Gender_Pay_Gap_Family_Level     | calculation of the simple average.                   | Number | 2 |
|    |  | This value is reported only if the benchmark is a    |        |   |
|    |  | part of the ESG families (DAX Environmental Social   |        |   |
|    |  | & Governance Index Family). This field is the simple |        |   |
|    |  | average of the values of all the benchmarks in the   |        |   |
|    |  | family. If None of the benchmarks in the family has  |        |   |
|    |  | any value, then the field value is NA. Only          |        |   |
|    | Item6c_Female_Male_                    | benchmarks with a value is included in the           |        |   |
| 26 | Board_Member_Ratio_Family_Level        | calculation of the simple average.                   | Number | 2 |
| -  |  | This value is reported only if the benchmark is a    |        |   |
|    |  | part of the ESG families (DAX Environmental Social   |        |   |
|    |  | & Governance Index Family). This field is the simple |        |   |
|    |  | average of the values of all the benchmarks in the   |        |   |
|    |  | family. If None of the benchmarks in the family has  |        |   |
|    |  | any value, then the field value is NA. Only          |        |   |
|    | Item6c_Ratio_of_Accidents_             | benchmarks with a value is included in the           |        |   |
| 27 | Injuries Fatalities Family Level       | calculation of the simple average.                   | Number | 2 |
| _/ |  | This value is reported only if the benchmark is a    |        | - |
|    |  | part of the ESG families (DAX Environmental Social   |        |   |
|    |  | & Governance Index Family). This field is the simple |        |   |
|    |  | average of the values of all the benchmarks in the   |        |   |
|    |  | family. If None of the benchmarks in the family has  |        |   |
|    | Itomac Convictions for Violations      | any value, then the field value is NA. Only          |        |   |
|    | Item6c_Convictions_for_Violations_     |  |        |   |
| 20 | of_AntiBribery_and_AntiCorruption_     | benchmarks with a value is included in the           | Number | 2 |
| 28 | Laws_Family_Level                      | calculation of the simple average.                   | Number | 2 |
|    |  | This value is reported only if the benchmark is a    |        |   |
|    |  | part of the ESG families (DAX Environmental Social   |        |   |
|    | Item6d_Consolidated_                   | & Governance Index Family). This field is the simple |        | 2 |
| 29 | Governance_Rating_Family_Level         | average of the values of all the benchmarks in the   | Number | 2 |



| -++ |  | Sum of constituent weights that are involved in   | Mumber | <u>_</u> |
|-----|--|---|--------|----------|
| 44  | Item7c Controversial Weapons                           | Controversial Weapons   | Number | 2        |
| 40  |  | Sum of constituent weights that are involved in   | ICAL   | 200      |
| 43  | Item7c_Sources_for_<br>Controversial_Weapon_Definition | Text "Refer to Data and Standards" and the link   | Text   | 255      |
| 42  | Item7c_Consolidated_ Social_Rating                     | score   | Number | 2        |
| 42  | Item7c Consolidated Social Pating                      |   | Number | 2        |
| 41  | Environmental_Goods_and_Services                       | Services-Revenue Percentage)<br>Sum of constituent weights multiplied by Social                         | Number | 2        |
| 41  | Item7b_Exposure_to_                                    | Prevention & Reduction Treatment & Remediation  | Number | 2        |
|     | ltere7h Europung to                                    | Services-Revenue Percentage + Pollution   |        |          |
|     |  | Prevention & Reduction Materials, Technologies &  |        |          |
|     |  | Sum of constituent weights multiplied by (Pollution   |        |          |
| 40  | Item7b_Exposure_NACE_Divisions                         | 05-09, 19, 20   | Number | 2        |
|     |  | Sum of constituent weights listed in NACE divisions   |        |          |
| 39  | Item7b_GHG_ reported_vs_estimated                      | data  | Number | 2        |
|     |  | Sum of constituent weights that have CDP reported   |        |          |
| 38  | Item7b_GHG_intensity                                   | intensity   | Number | 2        |
|     |  | Sum of constituent weights multiplied by emmision   |        |          |
| 37  | Item7b_Exposure_NACE_Sections                          | A-H, L  | Number | 2        |
|     |  | Sum of constituent weights listed in NACE sections  |        |          |
| 36  | Item7b_Climate_Related_ Physical_Risks                 | Data is not available to report this value  | Number | 2        |
| 35  | or_Green_Capex   | Overall-Revenue Percentage) divided by 100  | Number | 2        |
|     | Item7b_Green_Revenues_                                 | (Renewable Energy   |        |          |
|     |  | Sum of constituent weights multiplied by  |        |          |
| 34  | Environmental_Rating                                   | Environmental score   | Number | 2        |
|     | Item7b_Consolidated_                                   | Sum of constituent weights multiplied by  |        |          |
| 33  | Item7a_ESG_ratings_ top_ten                            | total ESG score   | Number | 2        |
|     |  | Sum of top 10 constituent weights multiplied by   |        |          |
| 32  | Item7a_Consolidated_ESG_Rating                         | constituent total ESG score   | Number | 2        |
|     |  | Sum of constituent weights multiplied by  |        |          |
| 31  | Members_Family_Level                                   | calculation of the simple average.  | Number | 2        |
|     | Item6d_Percentage_of_Female_Board_                     | benchmarks with a value is included in the  |        |          |
|     |  | any value, then the field value is NA. Only   |        |          |
|     |  | family. If None of the benchmarks in the family has   |        |          |
|     |  | average of the values of all the benchmarks in the  |        |          |
|     |  | & Governance Index Family). This field is the simple  |        |          |
|     |  | part of the ESG families (DAX Environmental Social  |        |          |
|     |  | This value is reported only if the benchmark is a   |        | 1        |
| 30  | Members_Family_Level                                   | calculation of the simple average.  | Number | 2        |
|     | Independent_Board_                                     | benchmarks with a value is included in the  |        |          |
|     | Item6d Percentage of                                   | any value, then the field value is NA. Only   |        |          |
|     |  | family. If None of the benchmarks in the family has   |        |          |
|     |  | average of the values of all the benchmarks in the  |        |          |
|     |  | part of the ESG families (DAX Environmental Social & Governance Index Family). This field is the simple |        |          |
|     |  | This value is reported only if the benchmark is a   |        |          |
|     |  | calculation of the simple average.  |        |          |
|     |  | benchmarks with a value is included in the  |        |          |
|     |  | any value, then the field value is NA. Only   |        |          |
|     |  | family. If None of the benchmarks in the family has   |        |          |





|     |   | Constituents with category 5 in any of the Social       |          |     |
|-----|---|---|----------|-----|
|     |   | KPIs (number of constituents in the index : share of    |          |     |
| 46  | Item7c_Social_Violations                          | ,   | Number   | 2   |
|     |   | Sum of weights of constituents having value 0 in at     |          |     |
|     |   | least one of the fields Freedom of Association          |          |     |
|     |   | Policy-Raw Score-RR, Discrimination Policy-Raw          |          |     |
|     | Item7c_Exposure_to_                               | Score-RR, Scope of Social Supplier Standards-Raw        |          |     |
|     | Companies_with_no_Due_Diligence_                  | Score-RR, Supply Chain Management-Raw Score-            |          |     |
| 47  | Policies_on_ILO_conventions                       | RR)   | Number   | 2   |
|     |   | Sum of constituent weights multiplied by (100-          |          |     |
|     |   | TR.GenderPayGapPctage). The latest available            |          |     |
|     |   | year's value is used in calculation if there is no data |          |     |
|     |   | available for the current year. (Value 0 means equal    |          |     |
|     |   | gender pay. A positive value means men are paid         |          |     |
|     |   | more than women. A negative value means men             |          |     |
| 48  | Item7c Gender Pay Gap                             | are paid less than women.)                              | Number   | 2   |
|     |   | Sum of constituent weights multiplied by                |          |     |
|     |   | TR.AnalyticBoardFemale/(1-                              |          |     |
|     |   | TR.AnalyticBoardFemale). The latest available           |          |     |
|     |   | year's value is used in calculation if there is no data |          |     |
|     |   | available for the current year. (Value 1 means          |          |     |
|     |   | women are equal representation in the board. A          |          |     |
|     |   | value greater than 1 means women have more              |          |     |
|     | Item7c_Female_Male_                               | representation than men. A value less than 1            |          |     |
| 49  | Board_Member_Ratio                                | means women have less representation than men.)         | Number   | 2   |
| 49  |   | Sum of constituent weights multiplied by                | Number   | 2   |
|     |   | TR.TIRTotal. The latest available year's value is used  |          |     |
|     | ItomZc Batia of                                   | in calculation if there is no data available for the    |          |     |
|     | Item7c_Ratio_of_<br>Accidents_Injuries_Fatalities |   | Number   | 2   |
| 50  | Item7c_Convictions_for_                           | current year.   | Number   | 2   |
|     |   | Number of constituents beying a value of <b>F</b> in    |          |     |
| F 1 | Violations_of_AntiBribery_                        | Number of constituents having a value of 5 in           | Number   | n   |
| 51  | and_AntiCorruption_Laws                           | Bribery and Corruption-Answer category.                 | Number   | 2   |
|     |   | Sum of constituent weights multiplied by                |          | 2   |
| 52  | Item7d_Consolidated_Governance_Rating             | Governance score  | Number   | 2   |
|     |   | Sum of constituent weights multiplied by                |          |     |
|     |   | TR.AnalyticIndepBoard. The latest available year's      |          |     |
|     |   | value is used in calculation if there is no data        |          |     |
|     |   | available for the current year. (Value 0 means no       |          |     |
|     | Item7d_Percentage_of_                             | independent board members. Value 100 means all          |          |     |
| 53  | Independent_Board_Members                         | , ,   | Number   | 2   |
|     |   | Sum of constituent weights multiplied by                |          |     |
|     |   | TR.AnalyticBoardFemale. The latest available year's     |          |     |
|     |   | value is used in calculation if there is no data        |          |     |
|     |   | available for the current year. (Value 50% means        |          |     |
|     |   | women are equal representation in the board. A          |          |     |
|     |   | value greater than 50% means women have more            |          |     |
|     | Item7d_Percentage_of_Female_Board_                | representation than men. A value less than 50%          |          |     |
| 54  | Members   | means women have less representation than men.)         | Number   | 2   |
| 55  | Item8a_Data_Sources                               | Text "Refer to Data and Standards" and the link         | Text     | 255 |
| 56  | Item8b_Reference_ Standards                       | Text "Refer to Data and Standards" and the link         | Text     | 255 |
|     |   | This value is reported only if the benchmark is a       |          |     |
|     | Item9a_Year_on_Year_                              | PAB or CTB index. The value is extracted from the       |          |     |
| 57  | Decarbonisation Trajectory                        |   | Number   | 2   |
| 57  | peccar somsation_rrajectory                       | maex methodology document.                              | . annoci | -   |



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| y<br>Number<br>Number | 2  |
|-----------------------|--|
| Number<br>Number      |  |
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# 3. Bond Index Files

## 3.1. eb.rexx Bond Indices

## 3.1.1.Future Constituent List

This report displays future index composition and underlying data that will be implemented at the next chaining date.

The file is available on MD+S Interactive platform for licensed users.

3.1.1.1. XLS format

- > File name: ebrexx \_BCR.YYYYMMDD.xls, where YYYYMMDD is review effective date
- > File type: .xls
- > File frequency: monthly

The report consists of five tabs:

- 1. Cover displays file and index name, report date and Customer Support contact details
- 2. Index navigation page to switch between tabs
- 3. Constituents index and constituent future composition data
- 4. **Insertions –** additions to the eb.rexx indices at the review effective date
- 5. **Deletions –** deletions from the eb.rexx indices at the review effective date

The file specifications will cover tabs "Data for today" and "Data for next day".

#### Sheet "Constituents"

Data starts at Row 6.

| Column<br>ID | Attribute        | Description                    | Data Type | Data<br>Format |
|--------------|------------------|--------------------------------|-----------|----------------|
| 1            | Date             | Report date                    | Date      | yyyy-mm-dd     |
| 2            | ISIN_CPi         | Price index ISIN               | Text      | 12             |
| 3            | ISIN_TRi         | Total return index ISIN        | Text      | 12             |
| 4            | Index            | Index name                     | Text      | 255            |
| 5            | ISIN             | Bond ISIN                      | Text      | 12             |
| 6            | Issuer Name      | Bond issuer name               | Text      | 255            |
| 7            | lssuer Country   | Bond issuer country            | Text      | 255            |
| 8            | Coupon           | Bond coupon value              | Number    | 3              |
| 9            | Maturity         | Bond maturity date             | Date      | yyyy-mm-dd     |
| 10           | Coupon Frequency | Bond coupon frequency          | Number    | 2              |
| 11           | Day Count Method | Day count convention           | Text      | 7              |
| 12           | Index Price      | Bond price used in calculation | Number    | 3              |





| 13 | Accrued Interest                                | Accrued bond interest   | Number | 15 |
|----|---|---|--------|----|
| 14 | Notional Amount                                 | Notional amount outstanding   | Number | 0  |
| 15 | Notional Amount<br>Previous Month               | Notional amount outstanding previous month  | Number | 0  |
| 16 | Years to Maturity                               | Time to maturity, in years  | Number | 10 |
| 17 | Liquidity Criteria<br>Matched Previous<br>Month | Indicator whether the liquidity criteria is matching the previous month (Text "Y" or "N") | Text   | 1  |

#### Sheet "Additions"

Data starts at **Row 6.** 

| Column<br>ID | Attribute         | Description                 | Data Type | Data<br>Format |
|--------------|-------------------|-----------------------------|-----------|----------------|
| 1            | Index             | Index name                  | Text      | 255            |
| 2            | ISIN              | Bond ISIN                   | Text      | 12             |
| 3            | Issuer Name       | Bond issuer name            | Text      | 255            |
| 4            | Issuer Country    | Bond issuer country         | Text      | 255            |
| 5            | Coupon            | Bond coupon value           | Number    | 3              |
| 6            | Maturity          | Bond maturity date          | Date      | yyyy-mm-dd     |
| 7            | Notional Amount   | Notional amount outstanding | Number    | 0              |
| 8            | Years to Maturity | Time to maturity, in years  | Number    | 10             |

#### Sheet "Deletions"

#### Data starts at **Row 6**.

| Column<br>ID | Attribute       | Description                 | Data<br>Type | Data<br>Format |
|--------------|-----------------|-----------------------------|--------------|----------------|
| 1            | Index           | Index name                  | Text         | 255            |
| 2            | ISIN            | Bond ISIN                   | Text         | 12             |
| 3            | Issuer Name     | Bond issuer name            | Text         | 255            |
| 4            | Issuer Country  | Bond issuer country         | Text         | 255            |
| 5            | Coupon          | Bond coupon value           | Number       | 3              |
| 6            | Maturity        | Bond maturity date          | Date         | yyyy-mm-<br>dd |
| 7            | Notional Amount | Notional amount outstanding | Number       | 0              |

#### 3.1.1.2. CSV format

The file is publicly available on Qontigo Website with the following naming convention:

- > File name: mn\_XXXXX\_YYYYMMDD.csv, where YYYYMMDD is the publication date
- > With xxxxx being the Main Index Symbol
- > File type: .csv
- > File frequency: monthly

The file is available on MD+S Interactive platform for licensed users with the following naming convention:





#### > File name:

ebrexx \_BCR.YYYYMMDD.csv, where YYYYMMDD is review effective date

- > File type: .csv
- > File specification: comma separated
- > File frequency: monthly

| Column | Attribute                                       | Description   | Data   | Data       |
|--------|---|---|--------|------------|
| ID     | , item bate                                     | Description   | Туре   | Format     |
| 1      | Date  | Report date   | Date   | yyyy-mm-dd |
| 2      | ISIN_CPi  | Price index ISIN  | Text   | 12         |
| 3      | ISIN_TRi  | Total return index ISIN   | Text   | 12         |
| 4      | Index   | Index name  | Text   | 255        |
| 5      | ISIN  | Bond ISIN   | Text   | 12         |
| 6      | Issuer Name                                     | Bond issuer name  | Text   | 255        |
| 7      | lssuer Country                                  | Bond issuer country   | Text   | 255        |
| 8      | Coupon  | Bond coupon value   | Number | 3          |
| 9      | Maturity  | Bond maturity date  | Date   | yyyy-mm-dd |
| 10     | Coupon Frequency                                | Bond coupon frequency   | Number | 2          |
| 11     | Day Count Method                                | Day count convention  | Text   | 7          |
| 12     | Index Price                                     | Bond price used in calculation  | Number | 3          |
| 13     | Accrued Interest                                | Accrued bond interest   | Number | 15         |
| 14     | Notional Amount                                 | Notional amount outstanding   | Number | 0          |
| 15     | Notional Amount<br>Previous Month               | Notional amount outstanding previous month  | Number | 0          |
| 16     | Years to Maturity                               | Time to maturity, in years  | Number | 10         |
|        | Liquidity Criteria<br>Matched Previous<br>Month | Indicator whether the liquidity criteria is matching the previous month (Text "Y" or "N") | Text   | 1          |

## 3.1.2.Bond Weightings Premium

This report contains both index and constituent information based on market closing values as well as index and constituent adjustments to be effective on the next index dissemination day. It also includes various statistical measures.

#### 3.1.2.1. XLS format

The file is publicly available on Qontigo Website with the following naming convention:

> File name:

bwp\_intraday\_xxxxx.xls intraday\_xxxxx\_YYYYMMDD.xls (history available for 90 days) bwp\_eod\_xxxxx.xls bwp\_eod\_xxxxx\_YYYYMMDD.xls (history available for 90 days)

- > With xxxxx E being the Main Index Symbol
- > File type: .xls
- > File frequency: daily at COB

The file is available on MD+S Interactive platform for licensed users with the following naming convention:





- > File name:
  - ebrexx\_1300\_BWP.YYYYMMDD.xls ebrexx\_eod\_BWP.YYYYMMDD.xls
- > File type: xls
- > File frequency: daily at COB

The report consists of four tabs:

- 1. Cover displays file and index name, report date and Customer Support contact details
- 2. Index navigation page to switch between tabs
- 3. **Index Values** index closing data
- 4. **Underlyings –** index constituent closing data

#### Sheet "Index Values"

Data starts at Row 13.

| Column<br>ID | Attribute                         | Description  | Data Type | Data<br>Format |
|--------------|-----------------------------------|--|-----------|----------------|
| 1            | Index                             | Index Name   | Text      | 255            |
| 2            | Price Index                       | Price index closing value on report date                     | Number    | 4              |
| 3            | Price Index – Yesterday           | Price index closing value on previous calculation day        | Number    | 4              |
| 4            | Price Index – Change              | Percentage change in price index closing value               | Number    | 2              |
| 5            | Total Return Index                | Total return index closing value on report date              | Number    | 4              |
| 6            | Total Return Index –<br>Yesterday | Total return index closing value on previous calculation day | Number    | 4              |
| 7            | Total Return Index -<br>Change    | Percentage change in Total return index closing value        | Number    | 2              |

#### Sheet "Underlyings"

Data starts at Row 11.

| Column<br>ID | Attribute         | Description   | Data Type | Data<br>Format |
|--------------|-------------------|---|-----------|----------------|
| 1            | Index             | Index name  | Text      | 255            |
| 2            | ISIN              | Bond ISIN   | Text      | 12             |
| 3            | Issuer Name       | Bond issuer name  | Text      | 255            |
| 4            | Coupon            | Bond coupon value   | Number    | 3              |
| 5            | Maturity          | Bond maturity date  | Date      | yyyy-mm-dd     |
| 6            | Notional Amount   | Notional amount outstanding   | Number    | 0              |
| 7            | Index Price       | Bond price  | Number    | 4              |
| 8            | Accrued Interest  | Accrued interest of the bond constituent                                      | Number    | 15             |
| 9            | Coupon Payment    | Coupon value in case a coupon was paid between rebalancing dates, 0 otherwise | Number    | 13             |
| 10           | Years to Maturity | Time to maturity, in years  | Number    | 13             |
| 11           | Yield             | Yield of the bond   | Number    | 10             |
| 12           | Duration          | Duration of the bond  | Number    | 10             |
| 13           | Modified Duration | Modified duration of the bond   | Number    | 10             |
| 14           | Convexity         | Convexity of the bond   | Number    | 10             |





| 15 | Base Market Value           | Market Value of the bond as at the base date   | Number | 4  |
|----|-----------------------------|--|--------|----|
| 16 | Market Value                | Market Value of the bond as at time t  | Number | 4  |
| 17 | Cash Payment                | Coupon rate multiplied by the notional amount in case a coupon was paid between rebalancing dates, 0 otherwise | Number | 8  |
| 18 | Daily Return                | Daily Return of the bond   | Number | 13 |
| 19 | Weight Price Index          | Weight of the bond in price index version  | Number | 16 |
| 20 | Weight Performance<br>Index | Weight of the bond in total return index version   | Number | 16 |

#### 3.1.2.2. CSV Format

#### 3.1.2.2.1. Indices

The file is available on MD+S Interactive platform for licensed users.

- > File name:
  - ebrexx\_1300\_indices\_BWP.YYYYMMDD.csv ebrexx\_eod\_indices\_BWP.YYYYMMDD.csv
- > File type: csv
- > File specification: comma separated
- > File frequency: daily at COB

| Column<br>ID | Attribute            | Description  | Data<br>Type | Data<br>Format |
|--------------|----------------------|--|--------------|----------------|
| 1            | Date                 | Report date  | Date         | yyyy-mm-dd     |
| 2            | ISIN_CPi             | Price index ISIN   | Text         | 12             |
| 3            | ISIN_TRi             | Total return index ISIN  | Text         | 12             |
| 4            | CODE_CPi             | Price index Alpha code   | Text         | 4              |
| 5            | CODE_TRi             | Total return index Alpha code  | Text         | 4              |
| 6            | Index                | Index name   | Text         | 255            |
| 7            | CPi                  | Price index closing value  | Number       | 12             |
| 8            | TRi                  | Total return index closing value   | Number       | 12             |
| 9            | Duration             | Duration of the index  | Number       | 10             |
| 10           | Yield                | Average annual yield of the index  | Number       | 15             |
| 11           | Modified Duration    | Modified duration of the index   | Number       | 10             |
| 12           | Convexity            | Convexity of the index   | Number       | 10             |
| 13           | Years to Maturity    | Index average time to maturity, in years   | Number       | 10             |
| 14           | Coupon Payment       | Average coupon payment   | Number       | 10             |
| 15           | Base Market Value    | Market Value of the index as at the base date  | Number       | 2              |
| 16           | Market Value         | Market Value of the index as at time t   | Number       | 2              |
| 17           | Cash Payment         | Coupon rate multiplied by the notional amount in case a coupon was paid between rebalancing dates, 0 otherwise | Number       | 6              |
| 18           | Daily Return         | Daily Return of the index  | Number       | 18             |
| 19           | Month-to-date Return | Month-to-date return of the index  | Number       | 8              |

#### 3.1.2.2.2. Underlyings

#### > File name:

ebrexx\_1300\_underlyings\_BWP.YYYYMMDD.csv





#### ebrexx\_eod\_underlyings\_BWP.YYYYMMDD.csv

- > File type: csv
- > File specification: comma separated
- > File frequency: daily at COB

| Column | Attribute            | Description  | Data   | Data       |
|--------|----------------------|--|--------|------------|
| ID     | Attribute            | Description  | Туре   | Format     |
| 1      | Date                 | Report date  | Date   | yyyy-mm-dd |
| 2      | ISIN_CPi             | Price index ISIN   | Text   | 12         |
| 3      | ISIN_TRi             | Total return index ISIN  | Text   | 12         |
| 4      | Index                | Index name   | Text   | 255        |
| 5      | ISIN                 | Bond ISIN  | Text   | 12         |
| 6      | Issuer Name          | Bond issuer name   | Text   | 255        |
| 7      | Coupon               | Bond coupon value  | Number | 3          |
| 8      | Maturity             | Bond maturity date   | Date   | yyyy-mm-dd |
| 9      | Coupon Frequency     | Bond coupon frequency  | Number | 2          |
| 10     | Notional Amount      | Notional amount outstanding                                    | Number | 0          |
| 11     | Years to Maturity    | Time to maturity, in years                                     | Number | 13         |
| 12     | Index Price          | Bond price   | Number | 4          |
| 13     | Accrued Interest     | Accrued interest of the bond constituent                       | Number | 15         |
| 14     | Courses Doursest     | Coupon value in case a coupon was paid between rebalancing     | Number | 13         |
| 14     | Coupon Payment       | dates, 0 otherwise   | Number | 15         |
| 15     | Yield                | Yield of the bond  | Number | 10         |
| 16     | Duration             | Duration of the bond   | Number | 10         |
| 17     | Modified Duration    | Modified duration of the bond                                  | Number | 10         |
| 18     | Convexity            | Convexity of the bond  | Number | 10         |
| 19     | Base Market Value    | Market Value of the bond as at the base date                   | Number | 4          |
| 20     | Market Value         | Market Value of the bond as at time t                          | Number | 4          |
| 21     | Cook Doursont        | Coupon rate multiplied by the notional amount in case a coupon | Numero | 0          |
| 21     | Cash Payment         | was paid between rebalancing dates, 0 otherwise                | Number | 8          |
| 22     | Daily Return         | Daily Return of the bond                                       | Number | 13         |
| 23     | Month-to-date Return | Month-to-date return of the bond                               | Number | 13         |
| 24     | Weight CPi           | Weight of the bond in price index version                      | Number | 16         |
| 25     | Weight TRi           | Weight of the bond in total return index version               | Number | 16         |

# 3.2. Eurogov Bond Indices

## 3.2.1. Future Constituent List

The file is publicly available on Qontigo Website with the following naming convention:

- > File name: mn\_xxxxx\_YYYYMMDD.csv, where YYYYMMDD is the publication date
- > With xxxxx being the Main Index Symbol
- > File type: .csv
- > File frequency: monthly

The file is available on MD+S Interactive platform for licensed users with the following naming convention:





> File name:

Eurogov Germany: eurogov\_BCR.YYYYMMDD.csv, where YYYYMMDD is review effective date Eurogov France: Eurogov\_intl\_BCR.YYYYMMDD.csv, where YYYYMMDD is review effective date

- > File type: .csv
- > File specification: comma separated
- > File frequency: monthly

| Column<br>ID | Attribute                         | Description                                | Data<br>Type | Data<br>Format |
|--------------|-----------------------------------|--|--------------|----------------|
| 1            | Date                              | Report date                                | Date         | yyyy-mm-dd     |
| 2            | ISIN_CPi                          | Price index ISIN                           | Text         | 12             |
| 3            | ISIN_TRi                          | Total return index ISIN                    | Text         | 12             |
| 4            | Index                             | Index name                                 | Text         | 255            |
| 5            | ISIN                              | Bond ISIN                                  | Text         | 12             |
| 6            | Issuer Name                       | Bond issuer name                           | Text         | 255            |
| 7            | lssuer Country                    | Bond issuer country                        | Text         | 255            |
| 8            | Coupon                            | Bond coupon value                          | Number       | 3              |
| 9            | Maturity                          | Bond maturity date                         | Date         | yyyy-mm-dd     |
| 10           | Coupon Frequency                  | Bond coupon frequency                      | Number       | 2              |
| 11           | Day Count Method                  | Day count convention                       | Text         | 7              |
| 12           | Index Price                       | Bond price used in calculation             | Number       | 3              |
| 13           | Accrued Interest                  | Accrued bond interest                      | Number       | 15             |
| 14           | Notional Amount                   | Notional amount outstanding                | Number       | 0              |
| 15           | Notional Amount<br>Previous Month | Notional amount outstanding previous month | Number       | 0              |
| 16           | Years to Maturity                 | Time to maturity, in years                 | Number       | 13             |

## 3.2.2.Bond Weightings Premium

#### 3.2.2.1. Indices

The file is publicly available on Qontigo Website with the following naming convention:

- > File name:
  - intraday\_indices\_xxxxx.csv intraday\_indices\_xxxxx\_YYYYMMDD.csv (history available for 90 days) bwp\_indices\_eod\_xxxxx.csv bwp\_indices\_eod\_xxxxx.csv
  - bwp\_indices\_eod\_xxxxx\_YYYYMMDD.csv (history available for 90 days)
- > With xxxxx being the Main Index Symbol
- > File type: csv
- > File specification: comma separated

File frequency: daily at COB

The file is available on MD+S Interactive platform for licensed users with the following naming convention:

- > File name:
  - eurogov\_1300\_indices\_BWP.YYYMMDD





eurogov\_eod\_indices\_BWP.YYYYMMDD eurogov\_intl\_1300\_indices\_BWP.YYYYMMDD eurogov\_intl\_eod\_indices\_BWP.YYYYMMDD

- > File type: csv
- > File specification: comma separated
- > File frequency: daily at COB

| Column | Attribute            | Description  | Data   | Data       |
|--------|----------------------|--|--------|------------|
| ID     | Attribute            | Description  | Туре   | Format     |
| 1      | Date                 | Report date  | Date   | yyyy-mm-dd |
| 2      | ISIN_CPi             | Price index ISIN   | Text   | 12         |
| 3      | ISIN_TRi             | Total return index ISIN  | Text   | 12         |
| 4      | CODE_CPi             | Price index Alpha code   | Text   | 4          |
| 5      | CODE_TRi             | Total return index Alpha code  | Text   | 4          |
| 6      | Index                | Index name   | Text   | 255        |
| 7      | CPi                  | Price index closing value  | Number | 12         |
| 8      | TRi                  | Total return index closing value   | Number | 12         |
| 9      | Duration             | Duration of the index  | Number | 10         |
| 10     | Yield                | Average annual yield of the index  | Number | 15         |
| 11     | Modified Duration    | Modified duration of the index   | Number | 10         |
| 12     | Convexity            | Convexity of the index   | Number | 10         |
| 13     | Years to Maturity    | Index average time to maturity, in years   | Number | 10         |
| 14     | Coupon Payment       | Average coupon payment   | Number | 10         |
| 15     | Base Market Value    | Market Value of the index as at the base date  | Number | 2          |
| 16     | Market Value         | Market Value of the index as at time t   | Number | 2          |
| 17     | Cash Payment         | Coupon rate multiplied by the notional amount in case a coupon was paid between rebalancing dates, 0 otherwise | Number | 6          |
| 18     | Daily Return         | Daily Return of the index  | Number | 18         |
| 19     | Month-to-date Return | Month-to-date return of the index  | Number | 8          |
| 20     | Cost_CPi             | Cost value of the price version  | Number | 15         |
| 21     | Cost_TRi             | Cost value of the total return version   | Number | 15         |
| 22     | Cash_CPi             | Cash value of the price version  | Number | 0          |
| 23     | Cash_TRi             | Cash value of the total return version   | Number | 0          |
| 24     | Cash_Accrued         | Accrual value of cash position   | Number | 14         |
| 25     | Interest_Rate        | Interest rate  | Number | 3          |

#### 3.2.2.2. Underlyings

The file is publicly available on Qontigo Website with the following naming convention:

> File name:

intraday\_underlyings\_xxxxx.csv intraday\_underlyings\_xxxxx\_YYYYMMDD.csv (history available for 90 days) bwp\_underlying\_eod\_xxxxx.csv bwp\_underlying\_eod\_xxxxx\_YYYYMMDD.csv (history available for 90 days)

- > With xxxxx being the Main Index Symbol
- > File type: csv
- > File specification: comma separated
- > File frequency: daily at COB





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The file is available on MD+S Interactive platform for licensed users with the following naming convention:

- > File name:
  - eurogov\_1300\_underlyings\_BWP.YYYYMMDD eurogov\_eod\_underlyings\_BWP.YYYYMMDD eurogov\_intl\_1300\_underlyings\_BWP.YYYYMMDD eurogov\_intl\_eod\_underlyings\_BWP.YYYYMMDD
- > File type: csv
- > File specification: comma separated
- > File frequency: daily at COB

| Column<br>ID | Attribute            | Description  | Data Type | Data<br>Format |
|--------------|----------------------|--|-----------|----------------|
| 1            | Date                 | Report date  | Date      | yyyy-mm-dd     |
| 2            | ISIN_CPi             | Price index ISIN   | Text      | 12             |
| 3            | ISIN_TRi             | Total return index ISIN  | Text      | 12             |
| 4            | Index                | Index name   | Text      | 255            |
| 5            | ISIN                 | Bond ISIN  | Text      | 12             |
| 6            | Issuer Name          | Bond issuer name   | Text      | 255            |
| 7            | Coupon               | Bond coupon value  | Number    | 3              |
| 8            | Maturity             | Bond maturity date   | Date      | yyyy-mm-dd     |
| 9            | Coupon Frequency     | Bond coupon frequency  | Number    | 2              |
| 10           | Notional Amount      | Notional amount outstanding  | Number    | 0              |
| 11           | Years to Maturity    | Time to maturity, in years   | Number    | 13             |
| 12           | Index Price          | Bond price   | Number    | 4              |
| 13           | Accrued Interest     | Accrued interest of the bond constituent   | Number    | 15             |
| 14           | Coupon Payment       | Coupon value in case a coupon was paid between rebalancing dates, 0 otherwise                                  | Number    | 13             |
| 15           | Yield                | Yield of the bond  | Number    | 10             |
| 16           | Duration             | Duration of the bond   | Number    | 10             |
| 17           | Modified Duration    | Modified duration of the bond  | Number    | 10             |
| 18           | Convexity            | Convexity of the bond  | Number    | 10             |
| 19           | Base Market Value    | Market Value of the bond as at the base date   | Number    | 4              |
| 20           | Market Value         | Market Value of the bond as at time t  | Number    | 4              |
| 21           | Cash Payment         | Coupon rate multiplied by the notional amount in case a coupon was paid between rebalancing dates, 0 otherwise | Number    | 8              |
| 22           | Daily Return         | Daily Return of the bond   | Number    | 13             |
| 23           | Month-to-date Return | Month-to-date return of the bond   | Number    | 13             |
| 24           | Weight CPi           | Weight of the bond in price index version  | Number    | 16             |
| 25           | Weight TRi           | Weight of the bond in total return index version   | Number    | 16             |

# 3.3. Xetra Corporate Bond

## 3.3.1.Indices

> File name:







#### Xetra\_Corp\_Bond\_Indices\_1300\_indices\_BWP.YYYMMDD Xetra\_Corp\_Bond\_Indices\_eod\_indices\_BWP.YYYYMMDD

- > File type: csv
- > File specification: comma separated
- > File frequency: daily at COB

| Column<br>ID | Attribute            | Description   | Data Type | Data<br>Forma1300t |
|--------------|----------------------|---|-----------|--------------------|
| 1            | Date                 | Report date   | Date      | yyyy-mm-dd         |
| 2            | ISIN_Cpi             | Price index ISIN  | Text      | 12                 |
| 3            | ISIN_Tri             | Total return index ISIN   | Text      | 12                 |
| 4            | CODE_Cpi             | Price index Alpha code  | Text      | 4                  |
| 5            | CODE_Tri             | Total return index Alpha code   | Text      | 4                  |
| 6            | Index                | Index name  | Text      | 255                |
| 7            | Срі                  | Price index closing value   | Number    | 12                 |
| 8            | Tri                  | Total return index closing value  | Number    | 12                 |
| 9            | Duration             | Duration of the index   | Number    | 10                 |
| 10           | Yield                | Average annual yield of the index   | Number    | 15                 |
| 11           | Modified Duration    | Modified duration of the index  | Number    | 10                 |
| 12           | Convexity            | Convexity of the index  | Number    | 10                 |
| 13           | Years to Maturity    | Index average time to maturity, in years  | Number    | 10                 |
| 14           | Coupon Payment       | Average coupon payment  | Number    | 10                 |
| 15           | Base Market Value    | Market Value of the index as at the base date   | Number    | 2                  |
| 16           | Market Value         | Market Value of the index as at time t  | Number    | 2                  |
| 17           | Cash Payment         | Coupon rate multiplied by the notional amount in case a coupon<br>was paid between rebalancing dates, 0 otherwise | Number    | 6                  |
| 18           | Daily Return         | Daily Return of the index   | Number    | 18                 |
| 19           | Month-to-date Return | Month-to-date return of the index   | Number    | 8                  |

## 3.3.2.Underlyings

> File name:

Xetra\_Corp\_Bond\_Indices\_1300\_underlyings\_BWP.YYYMMDD Xetra\_Corp\_Bond\_Indices\_eod\_underlyings\_BWP. YYYYMMDD

- > File type: csv
- > File specification: comma separated
- > File frequency: daily at COB

| Column<br>ID | Attribute         | Description                 | Data Type | Data Format |
|--------------|-------------------|-----------------------------|-----------|-------------|
| 1            | Date              | Report date                 | Date      | yyyy-mm-dd  |
| 2            | ISIN_Cpi          | Price index ISIN            | Text      | 12          |
| 3            | ISIN_Tri          | Total return index ISIN     | Text      | 12          |
| 4            | Index             | Index name                  | Text      | 255         |
| 5            | ISIN              | Bond ISIN                   | Text      | 12          |
| 6            | Issuer Name       | Bond issuer name            | Text      | 255         |
| 7            | Coupon            | Bond coupon value           | Number    | 3           |
| 8            | Maturity          | Bond maturity date          | Date      | yyyy-mm-dd  |
| 9            | Coupon Frequency  | Bond coupon frequency       | Number    | 2           |
| 10           | Notional Amount   | Notional amount outstanding | Number    | 0           |
| 11           | Years to Maturity | Time to maturity, in years  | Number    | 13          |
| 12           | Index Price       | Bond price                  | Number    | 4           |





| 13 | Accrued Interest     | Accrued interest of the bond constituent   | Number | 15 |
|----|----------------------|--|--------|----|
| 14 | Coupon Payment       | Coupon value in case a coupon was paid between rebalancing dates, 0 otherwise                                  | Number | 13 |
| 15 | Yield                | Yield of the bond  | Number | 10 |
| 16 | Duration             | Duration of the bond   | Number | 10 |
| 17 | Modified Duration    | Modified duration of the bond  | Number | 10 |
| 18 | Convexity            | Convexity of the bond  | Number | 10 |
| 19 | Base Market Value    | Market Value of the bond as at the base date   | Number | 4  |
| 20 | Market Value         | Market Value of the bond as at time t  | Number | 4  |
| 21 | Cash Payment         | Coupon rate multiplied by the notional amount in case a coupon was paid between rebalancing dates, 0 otherwise | Number | 8  |
| 22 | Daily Return         | Daily Return of the bond   | Number | 13 |
| 23 | Month-to-date Return | Month-to-date return of the bond   | Number | 13 |
| 24 | Weight Cpi           | Weight of the bond in price index version  | Number | 16 |
| 25 | Weight Tri           |  | Number | 16 |



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# 3.4. REX indices

The file is publicly available on Qontigo Website with the following naming convention:

- > File name: bkf\_xxxxx.xls
- > File name: bkf\_xxxxx\_YYYYMMDD.xls (history available for 90 days)
- > With xxxxx being the Main Index Symbol
- > File type: .xls
- > File frequency: daily

The file is available on MD+S Interactive platform for licensed users with the following naming convention:

- > File name: rex\_BKF.YYYYMMDD
- > File type: .xls
- > File frequency: daily

The report consists of five tabs:

- 1. Cover displays file and index name, report date and Customer Support contact details
- 2. Index navigation page to switch between tabs
- 3. REX Indices REX® index as well as its respective sub-indices
- 4. Regression Coefficients
- 5. Weighting Matrix

#### Sheet "REX Indices"

#### Table format:

| Column<br>ID | Attribute          | Description                                    | Data<br>Type | Data<br>Format |
|--------------|--------------------|--|--------------|----------------|
| 1            | Index              | REX® index and its respective sub-indices      | Text         | 255            |
| 2            | Total Return Index | Numeric value of index or respective sub-index | Number       | next table     |
| 3            | Price Index        | Numeric value of index or respective sub-index | Number       | next table     |
| 4            | Yield              | Numeric value of index or respective sub-index | Number       | next table     |
| 5            | Duration           | Numeric value of index or respective sub-index | Number       | next table     |
| 6            | Modified Duration  | Numeric value of index or respective sub-index | Number       | next table     |
| 7            | Convexity          | Numeric value of index or respective sub-index | Number       | next table     |

#### Data format:

| Row ID | Description    | Value<br>rounding |
|--------|----------------|-------------------|
| 11     | REX GESAMT     | 4                 |
| 12     | REX 1-JAEHRIGE | 4                 |
| 13     | REX 2-JAEHRIGE | 4                 |





| 14 | REX 3-JAEHRIGE  | 4 |
|----|-----------------|---|
| 15 | REX 4-JAEHRIGE  | 4 |
| 16 | REX 5-JAEHRIGE  | 4 |
| 17 | REX 6-JAEHRIGE  | 4 |
| 18 | REX 7-JAEHRIGE  | 4 |
| 19 | REX 8-JAEHRIGE  | 4 |
| 20 | REX 9-JAEHRIGE  | 4 |
| 21 | REX 10-JAEHRIGE | 4 |
| 22 | REX 6 PROZENT   | 4 |
| 23 | REX 7,5 PROZENT | 4 |
| 24 | REX 9 PROZENT   | 4 |

#### Sheet "Regression Coefficients"

#### Table format:

| Column<br>ID | Attribute              | Description                            | Data<br>Type | Data<br>Format |
|--------------|------------------------|--|--------------|----------------|
| 1            | Regression Coefficient | Regression coefficients on report date | Text         | 2              |
| 2            | Values                 | Values of regression coefficient       | Number       | next table     |

#### <u>Data format:</u>

| Row ID | Description | Value<br>rounding |
|--------|-------------|-------------------|
| 11     | B1          | 4                 |
| 12     | B2          | 4                 |
| 13     | B3          | 4                 |
| 14     | B4          | 4                 |
| 15     | B5          | 4                 |
| 16     | B6          | 4                 |
| 17     | В7          | 4                 |

#### Sheet "Weighting Matrix"

#### Table format:

| Column<br>ID | Attribute       | Description | Data<br>Type | Data<br>Format |
|--------------|-----------------|-------------|--------------|----------------|
| 1            | Maturity        | Years       | Text         | 255            |
| 2            | 6%              | Coupon      | Number       | next table     |
| 3            | 7.5%            | Coupon      | Number       | next table     |
| 4            | 9%              | Coupon      | Number       | next table     |
| 5            | Sum             | Coupon      | Number       | next table     |
| 6            | Weighted Coupon | Coupon      | Number       | next table     |

#### <u>Data format:</u>

| Row ID | Description | Value<br>rounding |
|--------|-------------|-------------------|
| 11     | 1 Year      | 2                 |





| 12 | 2 Year  | 2 |
|----|---------|---|
| 13 | 3 Year  | 2 |
| 14 | 4 Year  | 2 |
| 15 | 5 Year  | 2 |
| 16 | 6 Year  | 2 |
| 17 | 7 Year  | 2 |
| 18 | 8 Year  | 2 |
| 19 | 9 Year  | 2 |
| 20 | 10 Year | 2 |
| 21 | OVERALL | 2 |



# DAX

# 4. Strategy Index Files

# 4.1. Short / Leveraged Indices

The IWB report for short / leveraged indices displays index closing values and measures used in calculation. Each report has a slightly different format based on calculation formula. Each file will be described separately in the following section.

- > File type: xls
- > File frequency: daily at COB

The report consists of four tabs:

- 1. **Cover** displays file and index name, report date and Customer Support contact details
- 2. Index navigation page to switch between tabs
- 3. Data sheet index closing data
- 4. Legend legend of measures used in calculation

The file specifications will cover tab "Data sheet".

### 4.1.1.DAX daily leveraged

The file is publicly available on Qontigo Website with the following naming convention:

- > File name: iwb\_xxxxx.xls
- > File name: iwb\_xxxxx\_YYYYMMDD.xls (history available for 90 days)
- > With xxxxx being the Main Index Symbol
- > File type: .xls
- > File frequency: daily

The file is available on MD+S Interactive platform for licensed users with the following naming convention:

- > File name: LevDAX\_IWB.YYYYMMDD
- > File type: .xls
- > File frequency: daily

#### <u>Table format:</u>

| Column | Attribute | Description | Data | Data   |
|--------|-----------|-------------|------|--------|
| ID     | Allibule  | Description | Туре | Format |





|   | 1 | Day Calendar | Date                         | Date   | dd-mm-<br>yyyy |
|---|---|--------------|------------------------------|--------|----------------|
|   | 2 | Constituent  | Description of constituent   | Text   | 30             |
| Ī | 3 | Abbreviation | Abbreviation of constituent  | Text   | 12             |
|   | 4 | Value        | Numeric value of constituent | Number | next table     |

#### Data format:

| Row ID | Description  | Value<br>rounding |
|--------|--|-------------------|
| 11     | DAX Kurs Index value on previous date                                      | 2                 |
| 12     | DAX Performance Index value on previous date                               | 2                 |
| 13     | ESTER value on previous date   | 3                 |
| 14     | DAX Kurs Index value on report date  | 2                 |
| 15     | DAX Performance Index value on report date                                 | 2                 |
| 16     | ESTER value on report date   | 3                 |
| 17     | Liquidity spread on report date  | 5                 |
| 18     | Number of days between rebalancing and report date                         | 0                 |
| 19     | Liquidity spread for the next calculation date                             | 5                 |
| 20     | Empty  | N/A               |
| 21     | Empty  | N/A               |
| 22     | Closing values of indices in the family (on previous date and report date) | 2                 |

## 4.1.2.DAX Monthly Leveraged

#### > File name: LevDAXMonthly\_IWB.YYYYMMDD

#### Table format:

| Column<br>ID | Attribute    | Description                  | Data<br>Type | Data<br>Format |
|--------------|--------------|------------------------------|--------------|----------------|
| 1            | Day Calendar | Date                         | Date         | dd-mm-<br>yyyy |
| 2            | Constituent  | Description of constituent   | Text         | 30             |
| 3            | Abbreviation | Abbreviation of constituent  | Text         | 12             |
| 4            | Value        | Numeric value of constituent | Number       | next table     |

#### <u>Data format:</u>

| Row ID | Description   |     |
|--------|---|-----|
| 11     | DAX Performance Index value on rebalancing date                               | 2   |
| 12     | EURIBOR value on rebalancing date   | 3   |
| 13     | DAX Performance Index value on report date                                    | 2   |
| 14     | EURIBOR value on report date date   | 3   |
| 15     | Number of days between rebalancing and report date                            | 0   |
| 16     | Effective daily leverage for the next calculation date                        | 9   |
| 17     | Empty   | N/A |
| 18     | Empty   | N/A |
| 19     | Closing values of indices in the family (on rebalancing date and report date) | 2   |



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# DAX

## 4.1.3.DAX Short

The file is publicly available on Qontigo Website with the following naming convention:

- > File name: iwb\_xxxxx.xls
- > File name: iwb\_xxxxx\_YYYYMMDD.xls (history available for 90 days)
- > With xxxxx being the Main Index Symbol
- > File type: .xls
- > File frequency: daily

The file is available on MD+S Interactive platform for licensed users with the following naming convention:

- > File name: ShortDAX\_IWB.YYYYMMDD
- > File type: .xls
- > File frequency: daily

#### Table format:

| Column<br>ID | Attribute    | Description                  | Data Type | Data<br>Format |
|--------------|--------------|------------------------------|-----------|----------------|
| 1            | Day Calendar | Date                         | Date      | dd-mm-yyyy     |
| 2            | Constituent  | Description of constituent   | Text      | 32             |
| 3            | Abbreviation | Abbreviation of constituent  | Text      | 14             |
| 4            | Value        | Numeric value of constituent | Number    | next table     |

#### Data format:

| Row ID | Description  | Value<br>rounding |
|--------|--|-------------------|
| 11     | DAX Kurs Index value on previous date                                      | 2                 |
| 12     | DAX Performance Index value on previous date                               | 2                 |
| 13     | ESTER value on previous date   | 3                 |
| 14     | Cost to borrow (Kurs index) on report date                                 | 7                 |
| 15     | Cost to borrow (Performance index) on report date                          | 7                 |
| 16     | DAX Kurs Index value on report date  | 2                 |
| 17     | DAX Performance Index value on report date                                 | 2                 |
| 18     | ESTER value on report date   | 3                 |
| 19     | Number of days between rebalancing and report date                         | 0                 |
| 20     | Cost to borrow (Kurs index) for next calculation date                      | 7                 |
| 21     | Cost to borrow (Performance index) for next calculation date               | 7                 |
| 22     | Empty  | N/A               |
| 23     | Empty  | N/A               |
| 24     | Closing values of indices in the family (on previous date and report date) | 2                 |



## 4.1.4.DAX Monthly Short

#### > File name: ShortDAXMonthly\_IWB. YYYYMMDD

#### Table format:

| Column<br>ID | Attribute    | Description                  | Data<br>Type | Data<br>Format |
|--------------|--------------|------------------------------|--------------|----------------|
| 1            | Day Calendar | Date                         | Date         | dd-mm-<br>yyyy |
| 2            | Constituent  | Description of constituent   | Text         | 30             |
| 3            | Abbreviation | Abbreviation of constituent  | Text         | 12             |
| 4            | Value        | Numeric value of constituent | Number       | next table     |

#### Data format:

| Row ID | Description   | Value<br>rounding |
|--------|---|-------------------|
| 11     | DAX Performance Index value on rebalancing date                               | 2                 |
| 12     | EURIBOR value on rebalancing date   | 3                 |
| 13     | Cost to borrow on report date   |                   |
| 14     | DAX Performance Index value on report date                                    | 2                 |
| 15     | EURIBOR value on report date date   | 3                 |
| 16     | Number of days between rebalancing and report date                            | 0                 |
| 17     | Effective daily leverage for the next calculation date                        | 9                 |
| 18     | Empty   | N/A               |
| 19     | Empty   | N/A               |
| 20     | Closing values of indices in the family (on rebalancing date and report date) | 2                 |

### 4.1.5.TecDAX Short

> File name: ShortTecDAX\_IWB.YYYYMMDD

#### Table format:

| Column<br>ID | Attribute    | Description                  | Data Type | Data<br>Format |
|--------------|--------------|------------------------------|-----------|----------------|
| 1            | Day Calendar | Date                         | Date      | dd-mm-yyyy     |
| 2            | Constituent  | Description of constituent   | Text      | 31             |
| 3            | Abbreviation | Abbreviation of constituent  | Text      | 13             |
| 4            | Value        | Numeric value of constituent | Number    | next table     |

#### Data format:

| Row ID | Description                                     | Value<br>rounding |
|--------|---|-------------------|
| 11     | ESTER value on previous date                    | 3                 |
| 12     | TecDAX Kurs Index value on previous date        | 2                 |
| 13     | TecDAX Performance Index value on previous date | 2                 |
| 14     | Cost to borrow (Kurs index) on report date      | 7                 |







| 15 | Cost to borrow (Performance index) on report date                          | 7   |
|----|--|-----|
| 16 | ESTER value on report date   | 3   |
| 17 | Number of days between rebalancing and report date                         | 0   |
| 18 | TecDAX Kurs Index value on report date                                     | 2   |
| 19 | TecDAX Performance Index value on report date                              | 2   |
| 20 | Cost to borrow (Kurs index) for next calculation date                      | 7   |
| 21 | Cost to borrow (Performance index) for next calculation date               | 7   |
| 22 | Empty  | N/A |
| 23 | Empty  | N/A |
| 24 | Closing values of indices in the family (on previous date and report date) | 2   |

# 4.2. idDAX Leveraged/Short NC Indices

## 4.2.1.Leveraged NC

The closing data for idDAX Leveraged / Short NC indices is displayed in two files for current day and next dissemination day.

> File name:

idDAX#xLevNCTREUR\_IWB\_TD.YYYYMMDD.csv – current day idDAX#xLevNCTREUR\_IWB\_ND.YYYYMMDD.csv – next dissemination day

where **#** is the leverage factor (2 to 15)

- > File type: .csv
- > File specification: semicolon separated
- > File frequency: daily at COB

| Column | Attribute              | Description  | Data   | Data       |
|--------|------------------------|--|--------|------------|
| ID     | Attribute              | Description  | Туре   | Format     |
| 1      | Date                   | Report date  | Date   | dd.mm.yyyy |
| 2      | Index Close Value      | Index closing value  | Number | 2          |
| 3      | Underlying Index       | Underlying index closing value                                       | Number | 2          |
| 4      | DF                     | Dividend factor  | Number | 6          |
| 5      | VDAX-NEW               | VDAX closing value   | Number | 13         |
| 6      | VDAX-NEW_1m_avg        | VDAX 1-month average value   | Number | 13         |
| 7      | VDAX-NEW_6m_avg        | VDAX 6-month average value   | Number | 13         |
| 8      | GF                     | Gap Risk Factor  | Number | 10         |
| 9      | Interest Rate          | Interest rate  | Number | 3          |
| 10     | Liquidity Spread       | Liquidity spread   | Number | 5          |
| 11     | EURIBOR (12M)_T-1      | 12-month EURIBOR rate on the day before rebalancing                  | Number | 3          |
| 12     | 1Y ESTER Swap Rate_T-1 | 1-year EONIA swap rate on the day before rebalancing                 | Number | 4          |
| 13     | EURIBOR (12M)_T-2      | 12-month EURIBOR rate on the 2 <sup>nd</sup> day before rebalancing  | Number | 3          |
| 14     | 1Y ESTER Swap Rate_T-2 | 1-year EONIA swap rate on the 2 <sup>nd</sup> day before rebalancing | Number | 4          |
| 15     | EURIBOR (12M)_T-3      | 12-month EURIBOR rate on the 3 <sup>rd</sup> day before rebalancing  | Number | 3          |
| 16     | 1Y ESTER Swap Rate_T-3 | 1-year EONIA swap rate on the 3 <sup>rd</sup> day before rebalancing | Number | 4          |
| 17     | EURIBOR (12M)_T-4      | 12-month EURIBOR rate on the 4 <sup>th</sup> day before rebalancing  | Number | 3          |
| 18     | 1Y ESTER Swap Rate_T-4 | 1-year EONIA swap rate on the 4 <sup>th</sup> day before rebalancing | Number | 4          |
| 19     | EURIBOR (12M)_T-5      | 12-month EURIBOR rate on the 5 <sup>th</sup> day before rebalancing  | Number | 3          |
| 20     | 1Y ESTER Swap Rate_T-5 | 1-year EONIA swap rate on the 5 <sup>th</sup> day before rebalancing | Number | 4          |





## 4.2.2.Short NC

> File name:

idDAX#xShortNCTREUR\_IWB\_TD.YYYYMMDD.csv – current day idDAX#xShortNCTREUR\_IWB\_ND.YYYYMMDD.csv – next dissemination day

where **#** is the short factor (2 to 15)

- > File type: .csv
- > File specification: semicolon separated
- > File frequency: daily at COB

| Column<br>ID | Attribute         | Description                    | Data<br>Type | Data<br>Format |
|--------------|-------------------|--------------------------------|--------------|----------------|
|              | Date              | Report date                    | · ·          | dd.mm.yyyy     |
| 2            | Index Close Value | Index closing value            | Number       | 2              |
| 3            | Underlying Index  | Underlying index closing value | Number       | 2              |
| 4            | VDAX-NEW          | VDAX closing value             | Number       | 4              |
| 5            | VDAX-NEW_1m_avg   | VDAX 1-month average value     | Number       | 13             |
| 6            | VDAX-NEW_6m_avg   | VDAX 6-month average value     | Number       | 13             |
| 7            | GF                | Gap Risk Factor                | Number       | 10             |
| 8            | Interest Rate     | Interest rate                  | Number       | 3              |
| 9            | СТВ               | Cost to borrow                 | Number       | 7              |

# 4.3. Hedged

The report for hedged indices (daily and monthly) displays hedged and underlying index values.

> File name:

DAX\_PR\_CUR\_HEDGED\_IV.YYYYMMDD.csv DAX\_TR\_CUR\_HEDGED\_IV.YYYYMMDD.csv DAX\_NR\_CUR\_HEDGED\_IV.YYYYMMDD.csv

where CUR refers to the hedging currency, and PR, NR and TR stand for price, net and total return versions respectively

- > File type: .csv
- > File specification: semicolon separated
- > File frequency: daily at COB

| Column<br>ID | Attribute  | Description  | Data<br>Type | Data<br>Format |
|--------------|--|--|--------------|----------------|
| 1            | Date   | Report date  | Date         | yyyy-mm-dd     |
| 2            | DAX PR⁴_CUR  | DAX index closing value for the selected return version / currency | Number       | 2              |
| 3            | DAX <mark>DAILY</mark> ⁵ HEDGED<br><mark>PR CUR</mark> | DAX daily hedged index value                                       | Number       | 2              |
| 4            | Hedge Return   | Index Hedge Return   | Number       | 10             |

<sup>4</sup> «PR», «NR» or «TR» based on the selected index version

<sup>5</sup> "DAILY" or "MONTHLY"

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# DAX

# 4.4. Risk Control

There are two reports produced for the DAX Risk Control Indices – IV format, which contains index closing values, and IWB format, which includes underlying data such as interest date and underlying index values.

### 4.4.1.Index Values

#### 4.4.1.1. Total Return

> File name:

DAXRiskControlRVTR\_IV.YYYMMDD.csv

- > File type: .csv
- > File specification: semicolon separated
- > File frequency: daily at COB

| Column<br>ID | Attribute    | Description  | Data<br>Type | Data<br>Format |
|--------------|--------------|--|--------------|----------------|
| 1            | Date         | Report date  | Date         | dd.mm.yyyy     |
| 2            | DE000A0Z3LC2 | DAX Risk Control 5% RV (Gross Return) EUR closing value  | Number       | 5              |
| 3            | DE000A0Z3LG3 | DAX Risk Control 10% RV (Gross Return) EUR closing value | Number       | 5              |
| 4            | DE000A0Z3MC0 | DAX Risk Control 12% RV (Total Return) EUR closing value | Number       | 5              |
| 5            | DE000A0Z3LJ7 | DAX Risk Control 15% RV (Gross Return) EUR closing value | Number       | 5              |
| 6            | DE000A0Z3LL3 | DAX Risk Control 20% RV (Gross Return) EUR closing value | Number       | 5              |

#### 4.4.1.2. Excess Return

> File name:

DAXRiskControlRVER\_IV.YYYMMDD.csv

- > File type: .csv
- > File specification: semicolon separated
- > File frequency: daily at COB

| Column<br>ID | Attribute    | Description   | Data<br>Type | Data<br>Format |
|--------------|--------------|---|--------------|----------------|
| 1            | Date         | Report date   | Date         | dd.mm.yyyy     |
| 2            | DE000A0Z3LB4 | DAX Risk Control 5% RV (Excess Return) EUR closing value  | Number       | 5              |
| 3            | DE000A0Z3LF5 | DAX Risk Control 10% RV (Excess Return) EUR closing value | Number       | 5              |
| 4            | DE000A0Z3MB2 | DAX Risk Control 12% RV (Excess Return) EUR closing value | Number       | 5              |
| 5            | DE000A0Z3LH1 | DAX Risk Control 15% RV (Excess Return) EUR closing value | Number       | 5              |
| 6            | DE000A0Z3LK5 | DAX Risk Control 20% RV (Excess Return) EUR closing value | Number       | 5              |

## 4.4.2.Underlying values

#### 4.4.2.1. Total Return

> File name:

DAXRiskControlRVTR\_IWB.YYYYMMDD.csv





- File type: .csv >
- File specification: semicolon separated >
- File frequency: daily at COB >

| Column<br>ID | Attribute          | Description  | Data<br>Type | Data<br>Format |
|--------------|--------------------|--|--------------|----------------|
| 1            | Date               | Report date  | Date         | dd.mm.yyyy     |
| 2            | DE0008469008       | DAX Performance Index value                              | Number       | 2              |
| 3            | Interest Rate      | Interest Rate value                                      | Number       | 9              |
| 4            | Day Count Fraction | Number of days between t and t-1, divided by 360         | Number       | 17             |
| 5            | VOLA(20)           | Realized volatility over 20 days                         | Number       | 16             |
| 6            | VOLA(60)           | Realized volatility over 60 days                         | Number       | 16             |
| 7            | Tgtw(t)            | Target weight for index DE000A0Z3LC2                     | Number       | 13             |
| 8            | w(t)               | Equity index weight for index DE000A0Z3LC2               | Number       | 13             |
| 9            | DE000A0Z3LC2       | DAX Risk Control 5% RV (Gross Return) EUR closing value  | Number       | 5              |
| 10           | Tgtw(t)            | Target weight for index DE000A0Z3LG3                     | Number       | 13             |
| 11           | w(t)               | Equity index weight for index DE000A0Z3LG3               | Number       | 13             |
| 12           | DE000A0Z3LG3       | DAX Risk Control 10% RV (Gross Return) EUR closing value | Number       | 5              |
| 13           | Tgtw(t)            | Target weight for index DE000A0Z3MC0                     | Number       | 13             |
| 14           | w(t)               | Equity index weight for index DE000A0Z3MC0               | Number       | 13             |
| 15           | DE000A0Z3MC0       | DAX Risk Control 12% RV (Total Return) EUR closing value | Number       | 5              |
| 16           | Tgtw(t)            | Target weight for index DE000A0Z3LJ7                     | Number       | 13             |
| 17           | w(t)               | Equity index weight for index DE000A0Z3LJ7               | Number       | 13             |
| 18           | DE000A0Z3LJ7       | DAX Risk Control 15% RV (Gross Return) EUR closing value | Number       | 5              |
| 19           | Tgtw(t)            | Target weight for index DE000A0Z3LL3                     | Number       | 13             |
| 20           | w(t)               | Equity index weight for index DE000A0Z3LL3               | Number       | 13             |

#### 4.4.2.2. Excess Return

> File name:

DAXRiskControlRVER\_IWB.YYYYMMDD.csv

- > File type: .csv
- File specification: semicolon separated File frequency: daily at COB >
- >

| Column<br>ID | Attribute          | Description   | Data   | Data<br>Format |
|--------------|--------------------|---|--------|----------------|
| 10           |                    |   | Туре   |                |
| 1            | Date               | Report date   | Date   | dd.mm.yyyy     |
| 2            | DE0008469008       | DAX Performance Index value                               | Number | 2              |
| 3            | Interest Rate      | Interest Rate value                                       | Number | 9              |
| 4            | Day Count Fraction | Number of days between t and t-1, divided by 360          | Number | 17             |
| 5            | VOLA(20)           | Realized volatility over 20 days                          | Number | 16             |
| 6            | VOLA(60)           | Realized volatility over 60 days                          | Number | 16             |
| 7            | Tgtw(t)            | Target weight for index DE000A0Z3LB4                      | Number | 13             |
| 8            | w(t)               | Equity index weight for index DE000A0Z3LB4                | Number | 13             |
| 9            | DE000A0Z3LB4       | DAX Risk Control 5% RV (Excess Return) EUR closing value  | Number | 5              |
| 10           | Tgtw(t)            | Target weight for index DE000A0Z3LF5                      | Number | 13             |
| 11           | w(t)               | Equity index weight for index DE000A0Z3LF5                | Number | 13             |
| 12           | DE000A0Z3LF5       | DAX Risk Control 10% RV (Excess Return) EUR closing value | Number | 5              |
| 13           | Tgtw(t)            | Target weight for index DE000A0Z3MB2                      | Number | 13             |
| 14           | w(t)               | Equity index weight for index DE000A0Z3MB2                | Number | 13             |





| 15 | DE000A0Z3MB2 | DAX Risk Control 12% RV (Excess Return) EUR closing value | Number | 5  |
|----|--------------|---|--------|----|
| 16 | Tgtw(t)      | Target weight for index DE000A0Z3LH1                      | Number | 13 |
| 17 | w(t)         | Equity index weight for index DE000A0Z3LH1                | Number | 13 |
| 18 | DE000A0Z3LH1 | DAX Risk Control 15% RV (Excess Return) EUR closing value | Number | 5  |
| 19 | Tgtw(t)      | Target weight for index DE000A0Z3LK5                      | Number | 13 |
| 20 | w(t)         | Equity index weight for index DE000A0Z3LK5                | Number | 13 |





# 5. Changes to the Files Guide

**May 2020:** Publication of the DAX Files Guide – all existing files specifications regrouped in a single guide.

# 5.1. November 2020: Addition of chapters 2.2.3. DAX Dividend Point Indices, 3. Bond Index Files, 3.4.

The file is publicly available on Qontigo Website with the following naming convention:

- > File name: bkf\_xxxxx.xls
- > File name: bkf\_xxxxx\_YYYYMMDD.xls (history available for 90 days)
- > With xxxxx being the Main Index Symbol
- > File type: .xls
- > File frequency: daily

The file is available on MD+S Interactive platform for licensed users with the following naming convention:

- > File name: rex\_BKF.YYYYMMDD
- > File type: .xls
- > File frequency: daily

The report consists of five tabs:

- 5. Cover displays file and index name, report date and Customer Support contact details
- 6. Index navigation page to switch between tabs
- 7. REX Indices REX® index as well as its respective sub-indices
- 8. Regression Coefficients
- 9. Weighting Matrix

#### Sheet "REX Indices"

<u>Table format:</u>

| Column<br>ID | Attribute          | Description                                    | Data<br>Type | Data<br>Format |
|--------------|--------------------|--|--------------|----------------|
| 1            | Index              | REX® index and its respective sub-indices      | Text         | 255            |
| 2            | Total Return Index | Numeric value of index or respective sub-index | Number       | next table     |
| 3            | Price Index        | Numeric value of index or respective sub-index | Number       | next table     |
| 4            | Yield              | Numeric value of index or respective sub-index | Number       | next table     |
| 5            | Duration           | Numeric value of index or respective sub-index | Number       | next table     |
| 6            | Modified Duration  | Numeric value of index or respective sub-index | Number       | next table     |
| 7            | Convexity          | Numeric value of index or respective sub-index | Number       | next table     |





# DAX

#### Data format:

| Row ID | Description     | Value<br>rounding |
|--------|-----------------|-------------------|
| 11     | REX GESAMT      | 4                 |
| 12     | REX 1-JAEHRIGE  | 4                 |
| 13     | REX 2-JAEHRIGE  | 4                 |
| 14     | REX 3-JAEHRIGE  | 4                 |
| 15     | REX 4-JAEHRIGE  | 4                 |
| 16     | REX 5-JAEHRIGE  | 4                 |
| 17     | REX 6-JAEHRIGE  | 4                 |
| 18     | REX 7-JAEHRIGE  | 4                 |
| 19     | REX 8-JAEHRIGE  | 4                 |
| 20     | REX 9-JAEHRIGE  | 4                 |
| 21     | REX 10-JAEHRIGE | 4                 |
| 22     | REX 6 PROZENT   | 4                 |
| 23     | REX 7,5 PROZENT | 4                 |
| 24     | REX 9 PROZENT   | 4                 |

#### Sheet "Regression Coefficients"

Table format:

| Column<br>ID | Attribute              | Description                            | Data<br>Type | Data<br>Format |
|--------------|------------------------|--|--------------|----------------|
| 1            | Regression Coefficient | Regression coefficients on report date | Text         | 2              |
| 2            | Values                 | Values of regression coefficient       | Number       | next table     |

#### Data format:

| Row ID | Description | Value<br>rounding |
|--------|-------------|-------------------|
| 11     | B1          | 4                 |
| 12     | B2          | 4                 |
| 13     | B3          | 4                 |
| 14     | B4          | 4                 |
| 15     | B5          | 4                 |
| 16     | B6          | 4                 |
| 17     | В7          | 4                 |

#### Sheet "Weighting Matrix"

<u>Table format:</u>

| Column<br>ID | Attribute | Description | Data<br>Type | Data<br>Format |
|--------------|-----------|-------------|--------------|----------------|
| 1            | Maturity  | Years       | Text         | 255            |
| 2            | 6%        | Coupon      | Number       | next table     |
| 3            | 7.5%      | Coupon      | Number       | next table     |
| 4            | 9%        | Coupon      | Number       | next table     |
| 5            | Sum       | Coupon      | Number       | next table     |





| ſ | 6 | Weighted Coupon | Coupon | Number | next table |
|---|---|-----------------|--------|--------|------------|
| L | 0 | Weighted Coupon |        | Number | next tuble |

<u>Data format:</u>

| Row ID | Description | Value<br>rounding |
|--------|-------------|-------------------|
| 11     | 1 Year      | 2                 |
| 12     | 2 Year      | 2                 |
| 13     | 3 Year      | 2                 |
| 14     | 4 Year      | 2                 |
| 15     | 5 Year      | 2                 |
| 16     | 6 Year      | 2                 |
| 17     | 7 Year      | 2                 |
| 18     | 8 Year      | 2                 |
| 19     | 9 Year      | 2                 |
| 20     | 10 Year     | 2                 |
| 21     | OVERALL     | 2                 |

Strategy Index Files.

January 2021: Addition of chapters .....

March 2021: Changes of files name, sections 2.10.1 and 2.10.2.

July 2021: Update of attributes and descriptions for 2.11.3 ESG Reporting.

July 2021: Update of filename and descriptions for 2.11.3 ESG Reporting.

August 2021: Clarification description column 20 for 2.10.1 Selection indices - CSV format.

**September 2021:** All decommissioned file structures were moved to Dax Decommissioned Files Guide. Clarification of the 2.11.2 Roundtrip CSV.

October 2021: Addition attribute

Share\_of\_Benchmark\_in\_Investable\_Universe\_Free\_Float\_Market\_Capitalization 2.11.3 ESG Reporting.

**October 2021:** Naming updates due to EONIA transition and Risk-Free-Rate transition.

**January 2022:** Addition filenames for Permissioned Third Party data (P001) in 2.5 Index Weightings Premium and 2.6 Index Weightings Currency

April 2022: Addition of chapter 3.4 REX indices

**November 2022**: Update of 2.10.3 DAXplus Maximum Dividend. Adding column for PRICE\_MOMENTUM, renaming DIVIDEND\_YIELD\_PREV\_PERIOD and updating fields for MASTER\_INDEX, RANK\_DESCRIPTION and EXCLUSION\_REASON





**February 2023**: Update of sections: 2.1.1. Standard (xls) format, 2.1.2. Sector (xls) Format, 2.10.1. Selection indices – CSV format, 3.1. eb.rexx Bond Indices, 3.2. Eurogov Bond Indices, 4.1.1. DAX daily leveraged, 4.1.3. DAX Short. Removal of section: 2.2. Index Report

