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# Background for Daily Options



## **Background**

- Short-dated options have become increasingly popular, offering investors additional opportunities to trade and hedge short-term market fluctuations.
- On the 28<sup>th</sup> August 2023, Eurex launched Daily Options on the Euro STOXX 50<sup>®</sup> Index (OEXP). The addition of Daily Options to Eurex' product offering should improve liquidity generally in the Euro STOXX 50<sup>®</sup> Index ecosystem, thereby also benefitting OESX, VSTOXX and Variance.
- On the 13<sup>th</sup> November 2023, Daily Options on the DAX® Index (ODAP) followed. DAX® is a leading index amongst German retail investors and is used by institutional investors as well.
- Eurex' Daily Options have End-of-Day expiry,
   capturing the full European trading day and overlapping with the US market.

## **Key Benefits of Daily Options**



#### Fast reaction to market movements

Daily options allow market participants to react to sudden market moves and finetune positioning around events such as elections and publication of economic key figures.



#### Lower time value

The lower time value makes Daily Options more affordable than the longer-dated alternatives.



#### **Accurate implementation of strategy**

With daily expiries and a wide range of available strikes, investors can accurately implement specific views and strategies.



#### **Utilize theta decay**

The extreme theta decay of short-dated options can be utilized via various shorting strategies.



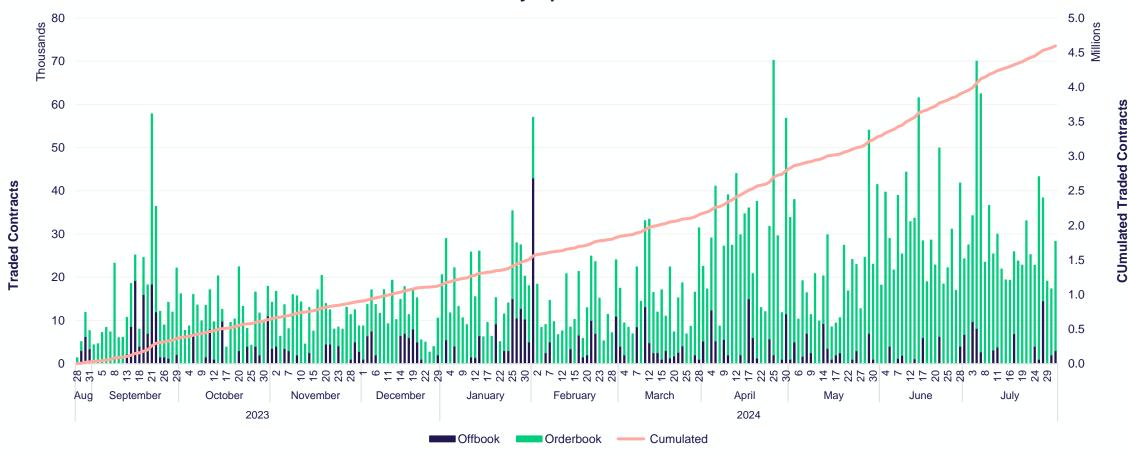


# Daily Options on the Euro STOXX 50® Index

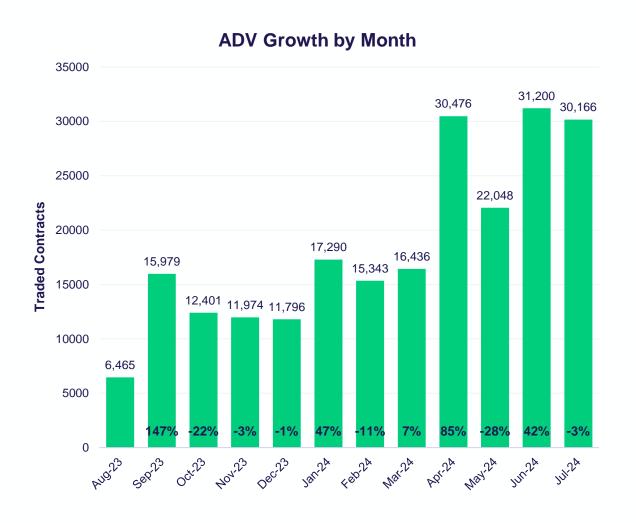


## **Trading in OEXP since launch**

#### **EURO STOXX 50 Daily Options Volume Since Launch**



#### **OEXP Statistics**







#### **Most Traded Expirations**

ODTE: 40% 1DTE: 17% 3DTE: 11% > 4.5M

Contracts Traded Since Launch

19.3k

Average Daily Volume

64

**Active Member Firms** 



## **Contract specifications**

#### **Key Specifications - OEXP**

|  | Description  |
|--|--|
| Eurex Product ID                       | OEXP   |
| Underlying/ISIN                        | Euro STOXX 50® Index / ISIN: EU0009658145  |
| Contract size/value                    | EUR 10   |
| Tick size                              | Premium-dependent tick size for simple instruments for order book (outright) only.  Bid up to: 0.10 - 10.00: 0.10 index points  10.25 - 25.00: 0.25 index points  25.50+: 0.50 index points                        |
| Strike price intervals                 | 5 index points   |
| Contract terms                         | <ul> <li>The first 5 trading days</li> <li>The three consecutive month-end trading days</li> <li>Available settlement days: Monday, Tuesday, Wednesday, Thursday, Friday, Last trading day of the month</li> </ul> |
| Last trading day/ Final settlement day | Last trading day of the relevant contract Close of trading on the last trading day: 17:30 CET  |
| Final settlement price                 | Index level of the Euro STOXX 50 index based on the closing price of the underlying stocks   |
| Min. block trade size                  | 1,000 contracts (no non-disclosure limits and no flex options available)   |
| Trading hours                          | 09.00 - 17.30 CET (TES: 09.00 - 19.00 CET)   |

## **Bloomberg tickers**

#### **Bloomberg SX5E Root Ticker:**

SX5 + EOD + A + Index = SX5EODA Index

The ticker setup follows the logic of previously existing SX5E Friday weekly expiries at Eurex and uses A-Y and Week numbering to differentiate the daily expiries.

Please note, the contract generation cycle is following this logic: For a given day at t, generate t+0, t+1, t+2, t+3, t+4 daily expiries and the closest 3 End of Month expiries. If End of Month expiry already generated (as it will be the case on the date of launch for August 31 End of Month expiry), the creation of daily expiry is suppressed.

#### Overview via OMON:

SX5E Index OMON - All daily, weekly and monthly options (OESX and OEXP)
SX5EM Index OMON - End of month (OESX) (existing contracts midday settlement time)
SX5EOM Index OMON - End of month (OEXP) (new contracts with settlement time end of day)

**Individual Tickers**: See table

| Index Ticker  | Week/Day         |
|---------------|------------------|
| SX5EODA Index | Week 1 Monday    |
| SX5EODB Index | Week 1 Tuesday   |
| SX5EODC Index | Week 1 Wednesday |
| SX5EODD Index | Week 1 Thursday  |
| SX5EODE Index | Week 1 Friday    |
| SX5EODF Index | Week 2 Monday    |
| SX5EODG Index | Week 2 Tuesday   |
| SX5EODH Index | Week 2 Wednesday |
| SX5EODI Index | Week 2 Thursday  |
| SX5EODJ Index | Week 2 Friday    |
| SX5EODK Index | Week 3 Monday    |
| SX5EODL Index | Week 3 Tuesday   |
| SX5EODM Index | Week 3 Wednesday |
| SX5EODN Index | Week 3 Thursday  |
| SX5EODO Index | Week 3 Friday    |
| SX5EODP Index | Week 4 Monday    |
| SX5EODQ Index | Week 4 Tuesday   |
| SX5EODR Index | Week 4 Wednesday |
| SX5EODS Index | Week 4 Thursday  |
| SX5EODT Index | Week 4 Friday    |
| SX5EODU Index | Week 5 Monday    |
| SX5EODV Index | Week 5 Tuesday   |
| SX5EODW Index | Week 5 Wednesday |
| SX5EODX Index | Week 5 Thursday  |
| SX5EODY Index | Week 5 Friday    |
| SX5EOM Index  | End of Month     |

## **RIC Codes**

| Expiry Point  | RIC PREFIX | SAMPLE RIC        | Real Time RIC Chain | DataScope RIC ROOT | Ticker / Eurex Product ID |
|---------------|------------|-------------------|---------------------|--------------------|---------------------------|
| 1st Monday    | FEXP1WM    | FEXP1WM39200T3.EX | 0#FEXP1WM*.EX       | FEXP               | OEXP                      |
| 1st Tuesday   | FEXP1WT    | FEXP1WT39200T3.EX | 0#FEXP1WT*.EX       | FEXP               | OEXP                      |
| 1st Wednesday | FEXP1WW    | FEXP1WW39200T3.EX | 0#FEXP1WW*.EX       | FEXP               | OEXP                      |
| 1st Thursday  | FEXP1WH    | FEXP1WH39200T3.EX | 0#FEXP1WH*.EX       | FEXP               | OEXP                      |
| 1st Friday    | FEXP1W     | FEXP1W39200T3.EX  | 0#FEXP1W*.EX        | FEXP               | OEXP                      |
| 2nd Monday    | FEXP2WM    | FEXP2WM39200T3.EX | 0#FEXP2WM*.EX       | FEXP               | OEXP                      |
| 2nd Tuesday   | FEXP2WT    | FEXP2WT39200T3.EX | 0#FEXP2WT*.EX       | FEXP               | OEXP                      |
| 2nd Wednesday | FEXP2WW    | FEXP2WW39200T3.EX | 0#FEXP2WW*.EX       | FEXP               | OEXP                      |
| 2nd Thursday  | FEXP2WH    | FEXP2WH39200T3.EX | 0#FEXP2WH*.EX       | FEXP               | OEXP                      |
| 2nd Friday    | FEXP2W     | FEXP2W39200T3.EX  | 0#FEXP2W*.EX        | FEXP               | OEXP                      |
| 3rd Monday    | FEXP3WM    | FEXP3WM39200T3.EX | 0#FEXP3WM*.EX       | FEXP               | OEXP                      |
| 3rd Tuesday   | FEXP3WT    | FEXP3WT39200T3.EX | 0#FEXP3WT*.EX       | FEXP               | OEXP                      |
| 3rd Wednesday | FEXP3WW    | FEXP3WW39200T3.EX | 0#FEXP3WW*.EX       | FEXP               | OEXP                      |
| 3rd Thursday  | FEXP3WH    | FEXP3WH39200T3.EX | 0#FEXP3WH*.EX       | FEXP               | OEXP                      |
| 3rd Friday    | FEXP3W     | FEXP3W39200T3.EX  | 0#FEXP3W*.EX        | FEXP               | OEXP                      |
| 4th Monday    | FEXP4WM    | FEXP4WM39200T3.EX | 0#FEXP4WM*.EX       | FEXP               | OEXP                      |
| 4th Tuesday   | FEXP4WT    | FEXP4WT39200T3.EX | 0#FEXP4WT*.EX       | FEXP               | OEXP                      |
| 4th Wednesday | FEXP4WW    | FEXP4WW39200T3.EX | 0#FEXP4WW*.EX       | FEXP               | OEXP                      |
| 4th Thursday  | FEXP4WH    | FEXP4WH45250T3.EX | 0#FEXP4WH*.EX       | FEXP               | OEXP                      |
| 4th Friday    | FEXP4W     | FEXP4W39200T3.EX  | 0#FEXP4W*.EX        | FEXP               | OEXP                      |
| 5th Monday    | FEXP5WM    | FEXP5WM39200T3.EX | 0#FEXP5WM*.EX       | FEXP               | OEXP                      |
| 5th Tuesday   | FEXP5WT    | FEXP5WT39350T3.EX | 0#FEXP5WT*.EX       | FEXP               | OEXP                      |
| 5th Wednesday | FEXP5WW    | FEXP5WW39350T3.EX | 0#FEXP5WW*.EX       | FEXP               | OEXP                      |
| 5th Thursday  | FEXP5WH    | FEXP5WH39200T3.EX | 0#FEXP5WH*.EX       | FEXP               | OEXP                      |
| 5th Friday    | FEXP5W     | FEXP5W39200T3.EX  | 0#FEXP5W*.EX        | FEXP               | OEXP                      |
| End of Month  | FEXPEOM    | FEXPEOM39200T3.EX | 0#FEXPEOM*.EX       | FEXP               | OEXP                      |

## **Contract specifications - comparison**

Main differences for End-of-Day Options on Euro STOXX 50® (OEXP) compared to existing Euro STOXX 50® options (OESX)

|                                 | Description  |   |  |  |  |  |  |
|---------------------------------|--|---|--|--|--|--|--|
| Contract specifications         | Euro STOXX 50® Index End-of-Day Options (OEXP)   | Euro STOXX 50® Index Options (OESX)   |  |  |  |  |  |
| Final settlement price          | Euro STOXX 50® Index level based on the closing auction price of the respective index constituent        | Average price of the Euro STOXX 50® Index between 11:50 and 12:00 CET   |  |  |  |  |  |
| Final settlement time           | 17:30 CET (expected delivery of FSP between 18.00-18.30 CET)   | 12:00 CET   |  |  |  |  |  |
| Available final settlement days | <ul><li>Mon – Friday</li><li>End-of-month</li></ul>  | <ul><li>Friday</li><li>End-of-month</li></ul>   |  |  |  |  |  |
| Available terms                 | Up to three months (up to eight expirations)  Weekly (five consecutive days)  Month-end                  | <ul> <li>Up to ten years</li> <li>Weekly</li> <li>Month-end</li> <li>Monthly, quarterly, semi-annually, annually</li> </ul> |  |  |  |  |  |
| Tick size                       | Premium-dependent tick size for outright order book contracts only (bid up to):  • 0.10 - 10.00          | All instruments: 0.10   |  |  |  |  |  |
| Miscellaneous                   | <ul> <li>Flex options not to be offered initially</li> <li>No non-disclosure limits available</li> </ul> |   |  |  |  |  |  |

## Different final settlement time leads to two expirations on certain days in Euro STOXX 50<sup>®</sup> option contracts

Both products will expire on certain expirations days (Fridays and month-end)

- at a different time and
- with a different final settlement price

Contracts will be differentiated by the

Product ID: OEXP vs OESX and

■ Final Settlement Time: 17.30 CET (OEXP) vs 12.00 CET (OESX)

|                   | Mon | Tue | Wed | Thu | Fri |  | Mon | Tue | Wed | Thu | iË |  | Mon | Tue | Wed | Thu | Fri |  | Mon | Tue | Wed | Thu | Fri |  | Mon |
|-------------------|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|----|--|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|--|-----|
| OEXP<br>17.30 CET | D   | D   | D   | D   | D   |  | D   | D   | D   | D   | D  |  | D   | D   | D   | D   | D   |  | D   | D   | D   | D   | D   |  | Е   |
| OESX<br>12.00 CET |     |     |     |     | W   |  |     |     |     |     | W  |  |     |     |     |     | M   |  |     |     |     |     | W   |  | Е   |

D = Daily Expiration

W = Weekly Expiration

M = Monthly Expiration

E = Month-End Expiration

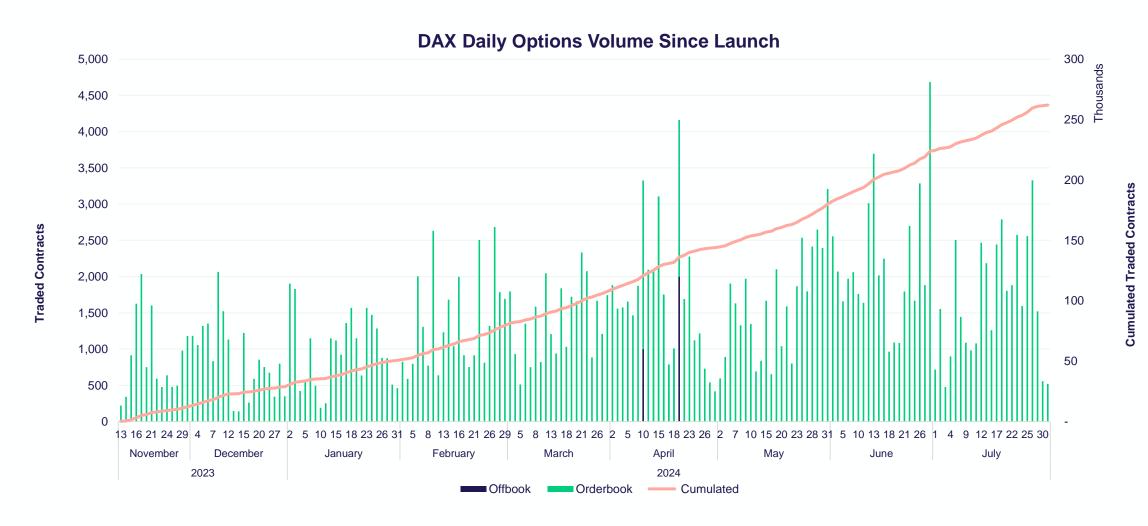




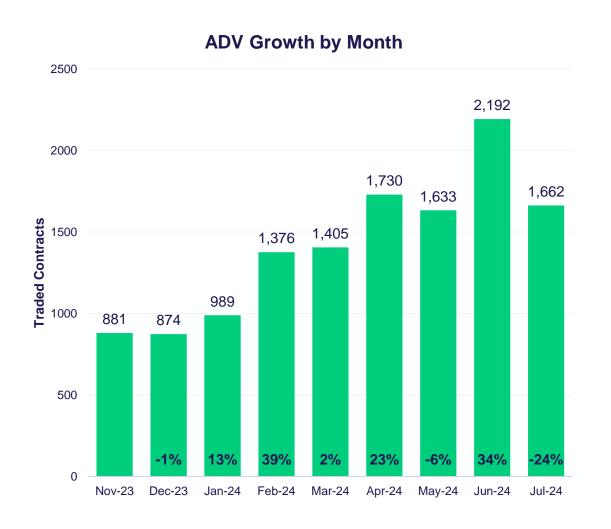
## Daily Options on the DAX® Index



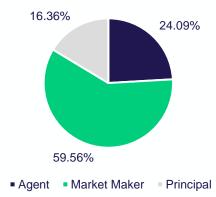
## **Trading in ODAP since launch**



#### **ODAP Statistics**







#### **Most Traded Expirations**

ODTE: 42% 1DTE: 18% 3DTE: 11% > 262k

Contracts Traded Since Launch

1.4k

Average Daily Volume

36

**Active Member Firms** 



## Introduction of the DAX® Index EoD options



The DAX® index is the **leading index** used by German **retail investors** based on CFD statistics and feedback by structured issuers.



DAX® weekly options are the **second most traded weekly options** at Eurex. Market share of DAX® weekly options compared to the monthly DAX® options is higher than in Euro STOXX 50® (approx. 12%).



The DAX® Index EoD Options (ODAP) are set up analogous to the Euro STOXX 50® Index EoD Options (OEXP), which were successfully launched on 28 August 2023.



DAX® Index EoD Options differ from the existing DAX® Index Options (ODAX) in terms of **final settlement price** determination, supported **expiration days** and maximum offered terms. On expiration day, the end of trading is at 17:30 CET compared to 13:00 CET in ODAX. The final settlement price for ODAP is determined by the index close value.



## **Contract specifications**

#### **Key Specifications - ODAP**

|  | Description  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|
| Eurex Product ID                       | ODAP   |  |  |  |  |  |  |  |  |  |
| Underlying/ISIN                        | X® Index / ISIN: DE0008469008  |  |  |  |  |  |  |  |  |  |
| Contract size/value                    | EUR 5  |  |  |  |  |  |  |  |  |  |
| Tick size                              | Premium-dependent tick size for simple instruments for order book (outright) only.  Bid up to: 0 - 25: 0.1 index points 25.5 - 250: 0.5 index points 250+: 1.0 index points  |  |  |  |  |  |  |  |  |  |
| Strike price intervals                 | 25 index points (Strike price intervals for the DAX® Options (ODAX) is 50 index points)  |  |  |  |  |  |  |  |  |  |
| Contract terms                         | <ul> <li>The first 5 trading days</li> <li>The three consecutive month-end trading days</li> <li>Available settlement days: Monday, Tuesday, Wednesday, Thursday, Friday, Last trading day of the month</li> </ul> |  |  |  |  |  |  |  |  |  |
| Last trading day/ Final settlement day | Last trading day of the relevant contract Close of trading on the last trading day: 17:30 CET  |  |  |  |  |  |  |  |  |  |
| Final settlement price                 | Index level of the DAX index based on the closing price of the underlying stocks   |  |  |  |  |  |  |  |  |  |
| Min. block trade size                  | 350 contracts  |  |  |  |  |  |  |  |  |  |
| Trading hours                          | 09.00 – 17.30 CET  |  |  |  |  |  |  |  |  |  |

## **Contract specifications - comparison**

Main differences for End-of-Day Options on the DAX® Index (ODAP) compared to existing DAX® Index options (ODAX)

|                                 | Description  |                           |  |  |  |  |  |  |  |
|---------------------------------|--|---------------------------|--|--|--|--|--|--|--|
| Contract specifications         | DAX® Index End-of-Day Options (ODAP)                         | DAX® Index Options (ODAX) |  |  |  |  |  |  |  |
| Strike price interval           | 25 index points  | 50 index points           |  |  |  |  |  |  |  |
| Final settlement time           | 17:30 CET (expected delivery of FSP between 18.00-18.30 CET) | 13:00 CET                 |  |  |  |  |  |  |  |
| Available final settlement days | <ul><li>Mon – Friday</li><li>End-of-month</li></ul>          | ■ Friday                  |  |  |  |  |  |  |  |

## Different final settlement time leads to two expirations on certain days in the DAX® index option contracts

Both products will expire on certain expirations days (Fridays)

- at a different time and
- with a different final settlement price

Contracts will be differentiated by the

Product ID: ODAP vs ODAX and

■ Final Settlement Time: 17.30 CET (ODAP) vs 13.00 CET (ODAX)

|                   | Mon | Tue | Wed | Thu | Fri |  | Mon | Tue | Wed | Thu | Fni |  | Mon | Tue | Wed | Thu | Fri |  | Mon | Tue | Wed | Thu | Fri |  | Mon |
|-------------------|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|--|-----|
| ODAP<br>17.30 CET | D   | D   | D   | D   | D   |  | D   | D   | D   | D   | D   |  | D   | D   | D   | D   | D   |  | D   | D   | D   | D   | D   |  | Е   |
| ODAX<br>13.00 CET |     |     |     |     | W   |  |     |     |     |     | W   |  |     |     |     |     | М   |  |     |     |     |     | VV  |  |     |

D = Daily Expiration

W = Weekly Expiration

M = Monthly Expiration

## **Bloomberg tickers**

Bloomberg tickers of the DAX® Index EoD Options (ODAP) follow similar logic as the Euro STOXX 50® Index EoD Options (OEXP):

DAX + EOD + A + Index = DAXEODA Index

**Individual Tickers**: See table

| Index Ticker  | Week/Day         |
|---------------|------------------|
| DAXEODA Index | Week 1 Monday    |
| DAXEODB Index | Week 1 Tuesday   |
| DAXEODC Index | Week 1 Wednesday |
| DAXEODD Index | Week 1 Thursday  |
| DAXEODE Index | Week 1 Friday    |
| DAXEODF Index | Week 2 Monday    |
| DAXEODG Index | Week 2 Tuesday   |
| DAXEODH Index | Week 2 Wednesday |
| DAXEODI Index | Week 2 Thursday  |
| DAXEODJ Index | Week 2 Friday    |
| DAXEODK Index | Week 3 Monday    |
| DAXEODL Index | Week 3 Tuesday   |
| DAXEODM Index | Week 3 Wednesday |
| DAXEODN Index | Week 3 Thursday  |
| DAXEODO Index | Week 3 Friday    |
| DAXEODP Index | Week 4 Monday    |
| DAXEODQ Index | Week 4 Tuesday   |
| DAXEODR Index | Week 4 Wednesday |
| DAXEODS Index | Week 4 Thursday  |
| DAXEODT Index | Week 4 Friday    |
| DAXEODU Index | Week 5 Monday    |
| DAXEODV Index | Week 5 Tuesday   |
| DAXEODW Index | Week 5 Wednesday |
| DAXEODX Index | Week 5 Thursday  |
| DAXEOM Index  | End of Month     |

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## **RIC Codes**

| Expiry Point  | RIC PREFIX | SAMPLE RIC        | Real Time RIC Chain | DataScope RIC ROOT | Ticker / Eurex Product ID |
|---------------|------------|-------------------|---------------------|--------------------|---------------------------|
| 1st Monday    | ODAP1WM    | ODAP1WM38500K3.EX | 0#ODAP1WM*.EX       | ODAP               | ODAP                      |
| 1st Tuesday   | ODAP1WT    | ODAP1WT38500K3.EX | 0#ODAP1WT*.EX       | ODAP               | ODAP                      |
| 1st Wednesday | ODAP1WW    | ODAP1WW38500K3.EX | 0#ODAP1WW*.EX       | ODAP               | ODAP                      |
| 1st Thursday  | ODAP1WH    | ODAP1WH38500K3.EX | 0#ODAP1WH*.EX       | ODAP               | ODAP                      |
| 1st Friday    | ODAP1W     | ODAP1W38500K3.EX  | 0#ODAP1W*.EX        | ODAP               | ODAP                      |
| 2nd Monday    | ODAP2WM    | ODAP2WM38500K3.EX | 0#ODAP2WM*.EX       | ODAP               | ODAP                      |
| 2nd Tuesday   | ODAP2WT    | ODAP2WT38500K3.EX | 0#ODAP2WT*.EX       | ODAP               | ODAP                      |
| 2nd Wednesday | ODAP2WW    | ODAP2WW38500K3.EX | 0#ODAP2WW*.EX       | ODAP               | ODAP                      |
| 2nd Thursday  | ODAP2WH    | ODAP2WH38500K3.EX | 0#ODAP2WH*.EX       | ODAP               | ODAP                      |
| 2nd Friday    | ODAP2W     | ODAP2W38500K3.EX  | 0#ODAP2W*.EX        | ODAP               | ODAP                      |
| 3rd Monday    | ODAP3WM    | ODAP3WM38500K3.EX | 0#ODAP3WM*.EX       | ODAP               | ODAP                      |
| 3rd Tuesday   | ODAP3WT    | ODAP3WT38500K3.EX | 0#ODAP3WT*.EX       | ODAP               | ODAP                      |
| 3rd Wednesday | ODAP3WW    | ODAP3WW38500K3.EX | 0#ODAP3WW*.EX       | ODAP               | ODAP                      |
| 3rd Thursday  | ODAP3WH    | ODAP3WH38500K3.EX | 0#ODAP3WH*.EX       | ODAP               | ODAP                      |
| 3rd Friday    | ODAP3W     | ODAP3W38500K3.EX  | 0#ODAP3W*.EX        | ODAP               | ODAP                      |
| 4th Monday    | ODAP4WM    | ODAP4WM38500K3.EX | 0#ODAP4WM*.EX       | ODAP               | ODAP                      |
| 4th Tuesday   | ODAP4WT    | ODAP4WT38500K3.EX | 0#ODAP4WT*.EX       | ODAP               | ODAP                      |
| 4th Wednesday | ODAP4WW    | ODAP4WW38500K3.EX | 0#ODAP4WW*.EX       | ODAP               | ODAP                      |
| 4th Thursday  | ODAP4WH    | ODAP4WH38500K3.EX | 0#ODAP4WH*.EX       | ODAP               | ODAP                      |
| 4th Friday    | ODAP4W     | ODAP4W38500K3.EX  | 0#ODAP4W*.EX        | ODAP               | ODAP                      |
| 5th Monday    | ODAP5WM    | ODAP5WM38500K3.EX | 0#ODAP5WM*.EX       | ODAP               | ODAP                      |
| 5th Tuesday   | ODAP5WT    | ODAP5WT38500K3.EX | 0#ODAP5WT*.EX       | ODAP               | ODAP                      |
| 5th Wednesday | ODAP5WW    | ODAP5WW38500K3.EX | 0#ODAP5WW*.EX       | ODAP               | ODAP                      |
| 5th Thursday  | ODAP5WH    | ODAP5WH38500K3.EX | 0#ODAP5WH*.EX       | ODAP               | ODAP                      |
| 5th Friday    | ODAP5W     | ODAP5W38500K3.EX  | 0#ODAP5W*.EX        | ODAP               | ODAP                      |
| End of Month  | ODAPEOM    | ODAPEOM3225K3.EX  | 0#ODAPEOM*.EX       | ODAP               | ODAP                      |

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A complete, up-to-date list of Eurex options that are eligible under the SEC Class No-Action Relief is available at: https://www.eurex.com/ex-en/rules-regs/eurex-derivatives-us/eurex-options-in-the-us-for-eligible-customers. Lastly, U.S. QIBs and broker-dealers trading on behalf of QIBs may trade certain single-security futures and narrow-based security index futures subject to terms and conditions of the SEC's Exchange Act Release No. 60,194 (June 30, 2009), 74 Fed. Reg. 32,200 (July 7, 2009) and the CFTC's Division of Clearing and Intermediary Oversight Advisory Concerning the Offer and Sale of Foreign Security Futures Products to Customers Located in the United States (June 8, 2010).

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