

EURONEXT DERIVATIVES NOTICE

Amsterdam Market

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26 October 2015

AtomX: FLEXIBLE CONTRACT SPECIFICATIONS, LIST OF FLEXIBLE CONTRACTS AND TRADING FEE

Executive Summary

This notice informs Members of the contract specifications of Flexible contracts, the list of Flexible contracts that will be available on AtomX, Euronext's new off-order book, on-exchange trade reporting service for clients in equity and index derivatives, and the trading fees that will be applied to trades executed via AtomX.

1. Introduction

- 1.1 Info-Flash [IF150907DE](#), published on 7 September 2015, announced that the launch date of AtomX is 26 October 2015. This notice informs Members of the Flexible contract specifications, the list of Flexible contracts that will be available on AtomX and the trading fees that will be applied to trades executed via AtomX.
- 1.2 The new service will provide flexibility for investors by allowing them to tailor derivatives instruments with strike prices, option types, settlement styles and expiry dates (restricted to 3rd Friday at launch) that are not available on the central order book, and to report trades through either a web interface or a dedicated electronic connection. Clients can also benefit from the capital and operational efficiencies of clearing flexible trades in the same clearing pool as their existing Euronext positions.

2. Contract specifications Flexible Options and Futures

- 2.1 The contract specifications for Flexible Options and Futures can be found in attachments 1 to 3.

3. List of Flexible contracts

- 3.1 The list of Flexible contracts that will be available on AtomX can be found in attachments 4 to 7.

4. Trading fees

- 4.1 The combined trading and clearing fees for Flexible Options and Futures are shown in attachment 8 and the Exercise & Assignment fees are shown in attachment 9.
- 4.2 The trading and clearing fees for Standard Options & Futures traded via AtomX is equal to the existing Block trade/Prof trade (to be renamed Large-in-Scale) fees.

The Euronext Markets comprise the markets operated by Euronext Amsterdam, Euronext Brussels, Euronext Lisbon, Euronext Paris and Euronext London, referred to respectively as the Amsterdam, Brussels, Lisbon, Paris and London markets, as relevant. Euronext refers to Euronext N.V. and its affiliates.

5. Onboarding

Members who wish to access the AtomX solution must:

- 5.1 fill out and return the '[Request for Extension of Trading Activity form](#)' to the Euronext Membership department
- 5.2 request an electronic certificate and credentials from Euronext's Customer Access Services (CAS) team
- 5.3 sign the updated Trading Platform Agreement (TPA).

6. documentation

Additional details are available on the Euronext website as follows:

- 6.1 AtomX webpage www.euronext.com/atomx:
 - Flex Instrument: Contract specifications
 - AtomX User Guide
 - Factsheet: Flex on Euronext AtomX
 - Factsheet: Euronext Single Stock Options
- 6.2 Onboarding webpage www.euronext.com/membership/admission-proces/membership-applications-extensions:
 - Request for extension of trading activity
 - Trading Platform Agreement (TPA)
 - AtomX Login creation order Form
- 6.3 IT documentation > Market Data www.euronext.com/it-documentation/market-data:
 - XDP-D Specification v2.2.6
 - XDP-D XML Standing Data Specification v1.8
 - XDP-D Configuration documents for EUA and Production v2.1.2
- 6.4 IT documentation > Order Entry > Technical Documentation www.euronext.com/connectivity/it-documentation/order-entry:
 - AtomX API Client Specifications describing the messages to access the services of the AtomX Trade Manager gateway (SOAP-based API)

For further information in relation to this Notice, contact your relationship manager at ccc@euronext.com or:

| | | |
|---|--|--|
| EMS Customer Technical Support Group | +33 1 85 148 588 | CTSG@euronext.com |
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| EMS Derivatives desk | www.euronext.com/services-support | EMSDerivatives@euronext.com |
| Telephone (calling from): | Belgium +32 2 620 0585 France +33 1 8514 8585 Portugal +351 2 1060 8585 | |
| If your enquiry relates to AtomX, press 7 | The Netherlands +31 20 721 9585 UK +44 20 7660 8585 | |

Attachment 1: Flexible Stock Options and ETF Options contract specifications

| | Flexible Individual Equity Options American Style - Physical Delivery | Flexible Individual Equity Options American Style - Cash Settlement | Flexible Individual Equity Options European Style - Physical Delivery | Flexible Individual Equity Options European Style - Cash Settlement |
|--|--|--|--|--|
| Contract size | One option normally equals rights over 100 underlying shares | One option normally equals rights over 100 underlying shares | One option normally equals rights over 100 underlying shares | One option normally equals rights over 100 underlying shares |
| Unit of trading | 100 | 100 | 100 | 100 |
| Pricing unit/quotation | Euros per share | Euros per share | Euros per share | Euros per share |
| Minimum price movement (tick size and value) | € 0.0001 (€ 0.01 per contract) | € 0.0001 (€ 0.01 per contract) | € 0.0001 (€ 0.01 per contract) | € 0.0001 (€ 0.01 per contract) |
| Option style | American style | American style | European style | European style |
| Expiry months | Any month with a maximum lifetime that is equal to the longest dated month of any standard contract that is available on the same underlying value Minimum lifetime: next business day | Any month with a maximum lifetime that is equal to the longest dated month of any standard contract that is available on the same underlying value Minimum lifetime: next business day | Any month with a maximum lifetime that is equal to the longest dated month of any standard contract that is available on the same underlying value Minimum lifetime: next business day | Any month with a maximum lifetime that is equal to the longest dated month of any standard contract that is available on the same underlying value Minimum lifetime: next business day |
| Introduction of new exercise prices and exercise price intervals | Exercise price interval: 0.01 Minimum exercise price: 0.01 The exercise price is allowed to be a maximum of 100% away from the underlying value at the moment of the first trade. Maximum allowed strike: 3599.99 | Exercise price interval: 0.01 Minimum exercise price: 0.01 The exercise price is allowed to be a maximum of 100% away from the underlying value at the moment of the first trade. Maximum allowed strike: 3599.99 | Exercise price interval: 0.01 Minimum exercise price: 0.01 The exercise price is allowed to be a maximum of 100% away from the underlying value at the moment of the first trade. Maximum allowed strike: 3599.99 | Exercise price interval: 0.01 Minimum exercise price: 0.01 The exercise price is allowed to be a maximum of 100% away from the underlying value at the moment of the first trade. Maximum allowed strike: 3599.99 |
| Wholesale minimum trade size | 1 | 1 | 1 | 1 |
| Euronext market | Amsterdam, Brussels, Lisbon, Paris | Amsterdam, Brussels, Lisbon, Paris | Amsterdam, Brussels, Lisbon, Paris | Amsterdam, Brussels, Lisbon, Paris |
| Daily settlement tick size | € 0.0001 | € 0.0001 | € 0.0001 | € 0.0001 |
| Daily settlement time | 17:30 CET | 17:30 CET | 17:30 CET | 17:30 CET |
| Daily settlement underlying price | Closing Price | Closing Price | Closing Price | Closing Price |
| Last trading day | Trading ceases at 17:30 CET on the expiry day* | Trading ceases at 17:30 CET on the expiry day* | Trading ceases at 17:30 CET on the expiry day* | Trading ceases at 17:30 CET on the expiry day* |
| Exercise | Exercise is possible until 19:15 CET on any business day, extended to 19:45 CET on the third Friday of a month. | Exercise is possible until 19:15 CET on any business day, extended to 19:45 CET on the third Friday of a month. | Exercise is possible on the Last Trading Day only: until 19:15 CET on any business day, extended to 19:45 CET on the third Friday of a month. | Exercise is possible on the Last Trading Day only: until 19:15 CET on any business day, extended to 19:45 CET on the third Friday of a month. |

Attachment 1: Flexible Stock Options contract specifications (continued)

| | Flexible Individual Equity Options American Style - Physical Delivery | Flexible Individual Equity Options American Style - Cash Settlement | Flexible Individual Equity Options European Style - Physical Delivery | Flexible Individual Equity Options European Style - Cash Settlement |
|---|---|--|---|--|
| Settlement | Physical delivery of 100 shares (or other such number of shares as determined by the terms of the contract) through the settlement system of LCH.Clearnet SA. | Cash settlement based on the EDSP | Physical delivery of 100 shares (or other such number of shares as determined by the terms of the contract) through the settlement system of LCH.Clearnet SA. | Cash settlement based on the EDSP |
| Settlement day | Two business days after the exercise day | First business day after the exercise day | Two business days after the exercise day | First business day after the exercise day |
| Exchange Delivery Settlement Price (EDSP) | | The domestic cash market closing price of the underlying shares on the day of exercise | | The domestic cash market closing price of the underlying shares on the day of exercise |
| EDSP tick size | | € 0.0001 | | € 0.0001 |
| EDSP time | | 17:30 CET | | 17:30 CET |
| EDSP method | | Official Closing Price | | Official Closing Price |
| Option premium | Payable in full by the buyer on the business day following a transaction | Payable in full by the buyer on the business day following a transaction | Payable in full by the buyer on the business day following a transaction | Payable in full by the buyer on the business day following a transaction |
| Clearing organization | LCH.Clearnet S.A. | LCH.Clearnet S.A. | LCH.Clearnet S.A. | LCH.Clearnet S.A. |
| Trading hours | 09:00 - 18:30 CET | 09:00 - 18:30 CET | 09:00 - 18:30 CET | 09:00 - 18:30 CET |

* Until further notice the expiry day will be the third Friday of the expiry month.

Attachment 2: Flexible Stock Futures contract specifications

| | Flexible Single Stock Futures Cash Settlement |
|--|---|
| Contract size | One future normally equals rights over 100 underlying shares* |
| Unit of trading | 100* |
| Pricing unit/quotation | EUR/CHF/GBX/NOK/SEK/DKK per share |
| Minimum price movement (tick size and value) | EUR/CHF/NOK/SEK/DKK 0.0001 (EUR/CHF/NOK/SEK/DKK 0.01 per contract, for Italian SSFs EUR 0.10 per contract) GBX 0.01 (GBX 10.00 per contract) |
| Expiry months | Any month with a maximum lifetime that is equal to the longest dated month of any standard contract that is available on the same underlying value Minimum lifetime: next business day |
| Wholesale minimum trade size | 1 |
| Euronext market | Amsterdam, Brussels, Lisbon, Paris |
| Daily settlement tick size | EUR/CHF/NOK/SEK/DKK 0.0001 GBX 0.01 |
| Daily settlement time | 17:40 CET |
| Daily settlement underlying price | Closing price |
| Last trading day | Trading ceases at 17:40 CET on the expiry day** |
| Settlement | Cash settlement based on the EDSP |
| Settlement day | First business day after the Last Trading Day |
| Exchange Delivery Settlement Price (EDSP) | The cash market closing price of the underlying stock on the Last Trading Day |
| EDSP tick size | EUR/CHF/NOK/SEK/DKK 0.0001 GBX 0.01 |
| EDSP time | 17:40 CET |
| EDSP method | Cash Market Closing Price |
| Clearing organization | LCH.Clearnet S.A. |
| Trading hours | 09:00 - 18:30 CET |

* Single Stock Futures on Italian and UK underlying stocks have a contract size of 1000.

** Until further notice the expiry day will be the third Friday of the expiry month.

Attachment 3: Flexible Index Options contract specifications

| | Flexible Index Options European style - Cash Settlement |
|--|--|
| Contract size | Same as standard contract |
| Unit of trading | Same as standard contract |
| Pricing unit/quotation | Same as standard contract |
| Minimum price movement (tick size and value) | € 0.0001 |
| Option style | European style |
| Expiry months | Any month with a maximum lifetime that is equal to the longest dated month of any standard contract that is available on the same underlying value Minimum lifetime: next business day |
| Introduction of new exercise prices and exercise price intervals | Exercise price interval: 0.1 Minimum exercise price: 0.1 The exercise price is allowed to be a maximum of 100% away from the underlying value at the moment of the first trade. Maximum allowed strike: 35999.9 |
| Wholesale minimum trade size | Same as standard contract |
| Euronext market | Same as standard contract |
| Daily settlement tick size | € 0.0001 |
| Daily settlement time | Same as standard contract |
| Last trading day | Trading ceases at standard contract expiry time on the expiry day* |
| Exercise | Exercise is possible on the Last Trading Day only: until 19:15 CET on any business day, extended to 19:45 CET on the third Friday of a month. |
| Settlement | Cash Settlement based on the EDSP |
| Settlement day | First business day after the Last Trading Day |
| Exchange Delivery Settlement Price (EDSP) | Same as standard contract for third Friday expiries. |
| EDSP tick size | Same as standard contract for third Friday expiries. |
| EDSP time | Same as standard contract for third Friday expiries. |
| EDSP method | Same as standard contract for third Friday expiries. |
| Option premium | Payable in full by the buyer on the business day following a transaction |
| Clearing organization | LCH.Clearnet S.A. |
| Trading hours | 09:00 - 18:30 CET |

* Until further notice the expiry day will be the third Friday of the expiry month.

Attachment 4: Flexible Stock Options*

| Underlying | ISIN-code | Relevant Stock Exchange | Trading currency | Contract Code | | | |
|-----------------------------|--------------|-------------------------|------------------|----------------------------|------------------------|----------------------------|------------------------|
| | | | | Flexible American Physical | Flexible American Cash | Flexible European Physical | Flexible European Cash |
| AALBERTS INDUSTRIES | NL0000852564 | Euronext Amsterdam | EUR | 6AA | 7AA | 8AA | 9AA |
| AEGON | NL0000303709 | Euronext Amsterdam | EUR | 6AE | 7AE | 8AE | 9AE |
| AGEAS | BE0974264930 | Euronext Brussels | EUR | 6AG | 7AG | 8AG | 9AG |
| AHOLD, KONINKLIJKE | NL0010672325 | Euronext Amsterdam | EUR | 6AH | 7AH | 8AH | 9AH |
| AIR FRANCE-KLM | FR0000031122 | Euronext Amsterdam | EUR | 6AF | 7AF | 8AF | 9AF |
| AKZO NOBEL | NL0000009132 | Euronext Amsterdam | EUR | 6AK | 7AK | 8AK | 9AK |
| ALTICE | NL0011333752 | Euronext Amsterdam | EUR | 6AO | 7AO | 8AO | 9AO |
| AMG | NL0000888691 | Euronext Amsterdam | EUR | 6AM | 7AM | 8AM | 9AM |
| APERAM | LU0569974404 | Euronext Amsterdam | EUR | 6AP | 7AP | 8AP | 9AP |
| ARCADIS | NL0006237562 | Euronext Amsterdam | EUR | 6AZ | 7AZ | 8AZ | 9AZ |
| ARCELORMITTAL | LU0323134006 | Euronext Amsterdam | EUR | 6MT | 7MT | 8MT | 9MT |
| ASM INTERNATIONAL | NL0000334118 | Euronext Amsterdam | EUR | 6AN | 7AN | 8AN | 9AN |
| ASML HOLDING | NL0010273215 | Euronext Amsterdam | EUR | 6AS | 7AS | 8AS | 9AS |
| BAM GROEP, KONINKLIJKE | NL0000337319 | Euronext Amsterdam | EUR | 6BA | 7BA | 8BA | 9BA |
| BE SEMICONDUCTOR INDUSTRIES | NL0000339760 | Euronext Amsterdam | EUR | 6BS | 7BS | 8BS | 9BS |
| BINCKBANK | NL0000335578 | Euronext Amsterdam | EUR | 6BC | 7BC | 8BC | 9BC |
| BOSKALIS WESTMINSTER, KON | NL0000852580 | Euronext Amsterdam | EUR | 6BO | 7BO | 8BO | 9BO |
| BRUNEL INTERNATIONAL | NL0010776944 | Euronext Amsterdam | EUR | 6BI | 7BI | 8BI | 9BI |
| CORBION | NL0010583399 | Euronext Amsterdam | EUR | 6CB | 7CB | 8CB | 9CB |
| DELTA LLOYD | NL0009294552 | Euronext Amsterdam | EUR | 6DL | 7DL | 8DL | 9DL |
| DSM, KONINKLIJKE | NL0000009827 | Euronext Amsterdam | EUR | 6DS | 7DS | 8DS | 9DS |
| FUGRO | NL0000352565 | Euronext Amsterdam | EUR | 6FU | 7FU | 8FU | 9FU |
| GEMALTO | NL0000400653 | Euronext Amsterdam | EUR | 6GM | 7GM | 8GM | 9GM |
| HEIJMANS | NL0009269109 | Euronext Amsterdam | EUR | 6HY | 7HY | 8HY | 9HY |
| HEINEKEN | NL0000009165 | Euronext Amsterdam | EUR | 6HE | 7HE | 8HE | 9HE |
| ING GROEP | NL0000303600 | Euronext Amsterdam | EUR | 6IN | 7IN | 8IN | 9IN |
| KLEPIERRE | FR0000121964 | Euronext Amsterdam | EUR | 6CI | 7CI | 8CI | 9CI |
| KPN, KONINKLIJKE | NL0000009082 | Euronext Amsterdam | EUR | 6KP | 7KP | 8KP | 9KP |
| NN GROUP | NL0010773842 | Euronext Amsterdam | EUR | 6NN | 7NN | 8NN | 9NN |
| NSI | NL0000292324 | Euronext Amsterdam | EUR | 6NS | 7NS | 8NS | 9NS |
| OCI | NL0010558797 | Euronext Amsterdam | EUR | 6OC | 7OC | 8OC | 9OC |
| ORDINA | NL0000440584 | Euronext Amsterdam | EUR | 6OD | 7OD | 8OD | 9OD |
| PHILIPS, KONINKLIJKE | NL0000009538 | Euronext Amsterdam | EUR | 6PH | 7PH | 8PH | 9PH |
| POSTNL | NL0009739416 | Euronext Amsterdam | EUR | 6PN | 7PN | 8PN | 9PN |
| RANDSTAD HOLDING | NL0000379121 | Euronext Amsterdam | EUR | 6RA | 7RA | 8RA | 9RA |
| RELX | NL0006144495 | Euronext Amsterdam | EUR | 6RE | 7RE | 8RE | 9RE |
| ROYAL DUTCH SHELL A | GB00B03MLX29 | Euronext Amsterdam | EUR | 6RD | 7RD | 8RD | 9RD |
| SBM OFFSHORE | NL0000360618 | Euronext Amsterdam | EUR | 6SB | 7SB | 8SB | 9SB |
| TKH GROUP | NL0000852523 | Euronext Amsterdam | EUR | 6TK | 7TK | 8TK | 9TK |
| TOMTOM | NL0000387058 | Euronext Amsterdam | EUR | 6TT | 7TT | 8TT | 9TT |

Attachment 4: Flexible Stock Options (continued)*

| Underlying | ISIN-code | Relevant Stock Exchange | Trading currency | Contract Code | | | |
|--------------------|--------------|-------------------------|------------------|----------------------------|------------------------|----------------------------|------------------------|
| | | | | Flexible American Physical | Flexible American Cash | Flexible European Physical | Flexible European Cash |
| UNIBAIL-RODAMCO | FR0000124711 | Euronext Amsterdam | EUR | 6UB | 7UB | 8UB | 9UB |
| UNILEVER | NL0000009355 | Euronext Amsterdam | EUR | 6UN | 7UN | 8UN | 9UN |
| USG PEOPLE | NL0000354488 | Euronext Amsterdam | EUR | 6US | 7US | 8US | 9US |
| VOPAK, KONINKLIJKE | NL0009432491 | Euronext Amsterdam | EUR | 6VP | 7VP | 8VP | 9VP |
| WERELDHAVE | NL0000289213 | Euronext Amsterdam | EUR | 6WH | 7WH | 8WH | 9WH |
| WESSANEN | NL0000395317 | Euronext Amsterdam | EUR | 6WE | 7WE | 8WE | 9WE |
| WOLTERS KLUWER | NL0000395903 | Euronext Amsterdam | EUR | 6WK | 7WK | 8WK | 9WK |

* All standard Stock Options will be available on AtomX, also contracts that have no flexible version available on AtomX

Attachment 5: Flexible ETF Options*

| Contract name | Underlying ¹ | ISIN-code | Relevant Stock Exchange Euronext | Trading currency | Contract Code | | | |
|-----------------|--|--------------|----------------------------------|------------------|----------------------------|------------------------|----------------------------|------------------------|
| | | | | | Flexible American Physical | Flexible American Cash | Flexible European Physical | Flexible European Cash |
| EUE Flex Option | ISHARES EURO STOXX 50 UCITS ETF (DIST) | IE0008471009 | Amsterdam | EUR | 6EU | 7EU | 8EU | 9EU |
| IEM Flex Option | ISHARES MSCI EMERGING MARKETS UCITS ETF (DIST) | IE00B0M63177 | Amsterdam | EUR | 6IG | 7IG | 8IG | 9IG |
| IME Flex Option | ISHARES MSCI EUROPE UCITS ETF (DIST) | IE00B1YZSC51 | Amsterdam | EUR | 6IC | 7IC | 8IC | 9IC |
| IJP Flex Option | ISHARES MSCI JAPAN EUR HEDGED UCITS ETF | IE00B42Z5J44 | Amsterdam | EUR | 6IJ | 7IJ | 8IJ | 9IJ |
| IWR Flex Option | ISHARES MSCI WORLD UCITS ETF (DIST) | IE00B0M62Q58 | Amsterdam | EUR | 6IW | 7IW | 8IW | 9IW |
| ISS Flex Option | ISHARES S&P 500 UCITS ETF (DIST) | IE0031442068 | Amsterdam | EUR | 6IS | 7IS | 8IS | 9IS |

* All standard Stock Options will be available on AtomX, also contracts that have no flexible version available on AtomX

¹The referential use of the name of the indices is necessary to indicate the underlying value and performance of the Financial Product. These indices may be registered as trademark by third parties. The Euronext Financial Products are not sponsored, endorsed, sold or promoted by those third parties.

Attachment 6: Flexible Stock Futures

Please see separate excel-file.

Attachment 7: Flexible Index Options*

| Underlying | Contract Code |
|-----------------------|------------------------|
| | Flexible European Cash |
| AEX-INDEX | ZAX |
| AEX-INDEX MINI OPTION | ZMA |

* All standard Index Options will be available on AtomX, also contracts that have no flexible version available on AtomX

Attachment 8: Euronext Flexible product trading and clearing fees

| PRODUCT | FLEX PRODUCT TRADING AND CLEARING FEE in € ¹ | | | | FLEX PRODUCT TOTAL FEE in € | |
|-------------------------|---|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|
| | Euronext | | LCH.Clearnet | | Broker (client account) | Member (own account) |
| | Broker (client account) | Member (own account) | Broker (client account) | Member (own account) | | |
| Stock and ETF options | 0.15 | 0.15 | 0.05 | 0.05 | 0.20 | 0.20 |
| Maximum fee per posting | 200 | 220 | 40 | 20 | 240 | 240 |
| Stock futures | 0.10 | 0.10 | 0.05 | 0.05 | 0.15 | 0.15 |
| Maximum fee per posting | 150 | 150 | 75 | 75 | 225 | 225 |
| AEX-index options | 0.36 | 0.20 | 0.05 | 0.05 | 0.41 | 0.25 |
| Maximum fee per posting | 1,110 | 555 | 40 | 20 | 1,150 | 575 |
| AEX-index mini options | 0.085 | 0.020 | 0.015 | 0.015 | 0.10 | 0.035 |
| Maximum fee per posting | 1,060 | 530 | 40 | 20 | 1,100 | 550 |

¹ The trading and clearing fees for standard contracts reported via AtomX are equal to the applicable Block/Prof (to be renamed Large-in-Scale) fees.

Attachment 9: Euronext Flexible product - Exercise / Tender / Assignment fees

| PRODUCT | Exercise/tender/ assignment in € | Maximum fee per individual Exercise/tender and assignment in € |
|-----------------------|-------------------------------------|---|
| Stock and ETF options | 0.20 | 200 |
| Stock futures | 0.30 | 365 |

The exercise/tender/assignment fees for the other Flexible products are equal to the exercise/tender/ assignment fees for standard products.

| PRODUCT | Exercise/assignment in € | |
|--|----------------------------|-------------------------|
| | Broker (client account) | Member (own account) |
| AEX-Index options | 0.90 | 0.40 |
| Maximum fee per individual Exercise and assignment | 1,000 | 600 |
| AEX-Index mini options | 0.30 | 0.10 |
| Maximum fee per individual Exercise and assignment | 1,000 | 600 |