



GUIDE TO PRODUCT AND MNEMONIC CODES

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DESCRIPTION

This guide describes the product and mnemonic codes in Euronext trading systems.

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GUIDE TO PRODUCT AND MNEMONIC CODES

1 PRODUCT CODES

1.1 ISIN: EURONEXT'S TARGET CODE SYSTEM

The International Securities Identification Number (ISIN) is the international standard for identifying securities. Euronext intends to implement ISIN for all securities listed on its markets.

Eventually, all products will be identified in the NSC trading system by their ISIN codes. The migration will occur once the consolidation of the Paris, Brussels and Amsterdam markets is complete and a single order book is in place.

Pending the final phase of harmonisation, ISIN codes are already used to identify securities dealt through NSC. Identifiers are added to these codes to indicate the security's primary listing exchange, in addition to the segment in which it is traded.

1.2 MULTIPLE LISTING

Some securities are currently listed and traded on two or three exchanges (Brussels, Paris, Amsterdam, Lisbon). Euronext intends to put in place a single, central order book for all its exchanges.

Until clearing and settlement have been unified, multiple order books will remain in service in several Euronext markets, and local clearing and settlement systems and services will continue to be used.

This is a temporary situation that will end once existing settlement systems are interconnected and corporate actions are harmonised. At this point, cross-border settlement will be possible.

NSC is Euronext's single trading system and must therefore be able to cope with multiple listings of the same security.

1.3 CASH PRODUCTS

1.3.1 DEFINITION OF EURONEXT CODES

Euronext codes, designed to the ISIN format, will allow securities to be "multi-listed", i.e. quoted on more than one Euronext exchange (Paris, Brussels, Amsterdam and, in future, Lisbon).

Market participants must adopt a conversion process to link front-office systems using Euronext codes with back-office systems using ISIN codes.

Securities are indexed in the NSC system by means of their Euronext codes. In most cases, the information contained in a security's Euronext code is its ISIN code.

The exceptions to this rule are Paris-listed foreign securities and multi-listed securities. Here, the Euronext code differs from the ISIN code.

1.3.1.1 CURRENT STRUCTURE

For multi-listed securities in Brussels or Amsterdam, the structure of the Euronext code is currently as follows:

NSC + BE or NL + AFC code + check character

or ISIN code

For foreign securities listed in Paris (single or multiple listing), the structure of the Euronext code is currently as follows:

FR + 000 + SICOVAM code + check character

Otherwise, the Euronext code contains the ISIN code.

- ➔ The process used to validate Euronext codes is identical to that for ISIN codes. The Association of National Numbering Agencies (ANNA) does not recognise "NSC" as a valid country code. Accordingly, "NSC" and "NS" are not used for country identification purposes.

1.3.1.2 TARGET STRUCTURE

Because ISIN codes are set to supersede AFC codes in Paris (SICO or RGA), Euronext codes cannot be used in their current format. The new coding system is based on the security's mnemonic code, because these codes will have to exist on all Euronext exchanges if a security is multi-listed.

Once Paris has switched over to ISIN, the new structure of the Euronext code for multi-listed securities will be as follows:

NSC + FR or BE or NL + mnemonic code (*) + check character

(*) i.e. the mnemonic code assigned to the security on the corresponding exchange:

NSCBE + mnemonic used in Brussels

NSCFR + mnemonic used in Paris

NSCNL + mnemonic used in Amsterdam

1.3.2 ALLOCATION OF EURONEXT CODES

1.3.2.1 CURRENT ALLOCATION

Security listed in			ISIN code	Euronext code used for the security if listed in		
Paris	Brussels	Amsterdam		Paris	Brussels	Amsterdam
(1)	Yes	Yes	FR	FR000 + SICO + c/c	NSCBE + SICO + c/c	NSCNL + SICO + c/c
			BE	FR000 + SICO + c/c	ISIN	NSCNL + SICO + c/c
			NL	FR000 + SICO + c/c	NSCBE + SICO + c/c	ISIN
			Other (eg DE, XS)	FR000 + SICO + c/c	NSCBE + SICO + c/c	NSCNL + SICO + c/c
Yes	Yes	No	FR	FR000 + SICO + c/c	NSCBE + SICO + c/c	
			BE	FR000 + SICO + c/c	ISIN	
			NL	FR000 + SICO + c/c	ISIN	
			Other	FR000 + SICO + c/c	ISIN	
Yes	No	Yes	FR	FR000 + SICO + c/c		NSCNL + SICO + c/c
			BE	FR000 + SICO + c/c		ISIN
			NL	FR000 + SICO + c/c		ISIN
			Other	FR000 + SICO + c/c		ISIN
(1)	Yes	Yes	FR		NSCBE + AFC + c/c	NSCNL + AFC + c/c
			BE		ISIN	NSCNL + AFC + c/c
			NL		NSCBE + AFC + c/c	ISIN
			Other		NSCBE + AFC + c/c	NSCNL + AFC + c/c

c/c: check character

→ the AFC code used to form the Euronext code is the code assigned to the security listed in Brussels or Amsterdam, depending on the initial listing date.

→ (1) The ISIN code is used for at least one of the listings of each multi-listed security, with these three exceptions.

1.3.2.2 TARGET ALLOCATION

1.3.2.2.1 SECURITIES LISTED PRIOR TO THE SWITCHOVER

Because the ISIN switchover is a Paris-based project, Euronext has decided to limit the impact of the change from Euronext codes to Paris listings only.

The Euronext codes for multi-listed securities traded on Brussels and Amsterdam prior to the switchover will not change at that time.

By contrast, the Euronext codes of multi-listed securities traded in Paris will be modified on the basis of the TARGET coding principle, while seeking to maximise the use of ISIN codes:

NSC + FR or BE or NL + mnemonic code (*) + check character

(*) i.e. the mnemonic code assigned to the security on the corresponding exchange:

NSCBE + mnemonic used in Brussels

NSCFR + mnemonic used in Paris

NSCNL + mnemonic used in Amsterdam

Security listed in			ISIN code	Euronext code used for the security if listed in		
Paris	Brussels	Amsterdam		Paris	Brussels (no change)	Amsterdam (no change)
Yes	Yes	Yes	FR	ISIN	NSCBE + SICO + c/c	NSCNL + SICO + c/c
			BE	NSCFR + P mnem. + c/c	ISIN	NSCNL + SICO + c/c
			NL	NSCFR + P mnem. + c/c	NSCBE + SICO + c/c	ISIN
			Other (eg DE,XS)	ISIN	NSCBE + SICO + c/c	NSCNL + SICO + c/c
Yes	Yes	No	FR	ISIN	NSCBE + SICO + c/c	
			BE	NSCFR + P mnem. + c/c	ISIN	
			NL	NSCFR + P mnem. + c/c	ISIN	
			Other	NSCFR + P mnem. + c/c	ISIN	
Yes	No	Yes	FR	ISIN		NSCNL + SICO + c/c
			BE	NSCFR + P mnem. + c/c		ISIN
			NL	NSCFR + P mnem. + c/c		ISIN
			Other	NSCFR + P mnem. + c/c		ISIN
No (1)	Yes	Yes	FR		NSCBE + AFC + c/c	NSCNL + AFC + c/c
			BE		ISIN	NSCNL + AFC + c/c
			NL		NSCBE + AFC + c/c	ISIN
			Other		NSCBE + AFC + c/c	NSCNL + AFC + c/c

c/c: check character

→ (1) The ISIN code is used for at least one of the listings of each multi-listed security, with these two exceptions.

→ This situation will last as long as the security is quoted on more than one exchange.

1.3.2.2.2 SECURITIES ADMITTED AFTER THE SWITCHOVER

Post-switchover, ISIN codes will be used automatically for the initial listing of any new security admitted to a Euronext exchange, .

If the security is subsequently quoted on another Euronext exchange, the Euronext code will be established on the basis of the TARGET coding principle:

NSC + FR or BE or NL + mnemonic code (*) + check character

(*) i.e. the mnemonic code assigned to the security on the corresponding exchange:

NSCBE + mnemonic used in Brussels

NSCFR + mnemonic used in Paris

NSCNL + mnemonic used in Amsterdam

Security listed in			ISIN code	Euronext code used for the security if listed in		
Paris	Brussels	Amsterdam		Paris	Brussels	Amsterdam
Yes	Yes	Yes	1st listing / Paris	ISIN	NSCBE + B mnem. + c/c	NSCNL + A mnem. + c/c
			1st listing / Brussels	NSCFR + P mnem. + c/c	ISIN	NSCNL + A mnem. + c/c
			1st listing / Amsterdam	NSCFR + P mnem. + c/c	NSCBE + B mnem. + c/c	ISIN
Yes	Yes	No	1st listing / Paris	ISIN	NSCBE + B mnem. + c/c	
			1st listing / Brussels	NSCFR + P mnem. + c/c	ISIN	
Yes	No	Yes	1st listing / Paris	ISIN		
			1st listing / Amsterdam	NSCFR + P mnem. + c/c		ISIN
No	Yes	Yes	1st listing / Brussels		ISIN	NSCNL + A mnem. + c/c
			1st listing / Amsterdam		NSCBE + B mnem. + c/c	ISIN

c/c: check character

→ There are no longer any exceptions. The ISIN code is still assigned to one of the listings of each multi-listed security.

→ The different principles for constructing Euronext codes will remain in place so long as the securities existing prior to the switchover are listed on more than one exchange.

1.4. LENDING AND BORROWING

1.4.1 CURRENT SITUATION

Until the switchover date, i.e. 27 June 2003, the code for lending and borrowing (L&B) maturities will be generated from the range of AFC codes reserved for Euronext:

SICO codes: from 086000 to 089999

The ISIN codes for these maturities are based on these AFC codes, in the same way as any ISIN code assigned to a French security:

FR + 000 + SICOVAM code + check character

→ ISIN codes: from FR000860009 to FR000899999

1.4.2 TARGET SITUATION

From the first business day after the switchover (30 June 2003), new maturities will be created with dummy ISIN codes, in compliance with the ISO 6170 standard. These dummy codes will be assigned by Euroclear France at the request of Euronext:

QS + Euroclear France sequence number + check character

"QS" codes are codes reserved for Euroclear France, ANNA's local representative in France.

1.5. DERIVATIVES (MATIF AND MONEP)

1.5.1 MATIF

1.5.1.1 CURRENT SITUATION

At present, MATIF products do not have AFC codes and are not therefore concerned by the switch to ISIN.

1.5.1.2 TARGET SITUATION

Since MATIF products are not concerned by ISIN codes, there will be no change.

1.5.2 MONEP

1.5.2.1 LIFFE CODING SYSTEM

LIFFE does not use ISIN codes in its information systems.

Euronext-Liffe will use a proprietary system of mnemonic codes for derivatives trading:

explicit data item + AMR code (*)

(*) cf. LIFFE documentation

1.5.2.2 SPECIAL SITUATION: DERIVATIVES CLEARING CODES

Clearnet is responsible for clearing and settling MONEP products. It currently uses an ISIN-compliant coding system, which will remain in place.

1.5.2.2.1 PRODUCTS CREATED BEFORE 30 JUNE 2003

At present, MONEP instruments processed by the clearing system are coded using the ISIN format:

FR + 000 + reserved SICO code + check character

This group of approximately 17,000 codes will not change during the migration to LIFFE and will not be re-used by Euroclear France post-switchover until the maturities created under this coding system have expired, i.e. September 2005.

→ In other words, all MONEP products created under ISIN before 30 June 2003 in the clearing system will keep their codes until they reach expiry.

1.5.2.2.2 PRODUCTS CREATED BETWEEN THE MIGRATION TO LIFFE AND THE SWITCHOVER

If MONEP products migrate to LIFFE before the ISIN switchover (30 June 2003)

New products created on LIFFE will no longer be cleared under ISIN codes. They will use a proprietary Euronext-Liffe coding system similar to the ISIN format:

EU + FR/BE/NL/PT + LIFFE sequence number + check character

These codes will be valid only for a Clearnet reference to the products in question.

1.5.2.2.3 PRODUCTS CREATED BETWEEN THE SWITCHOVER AND THE MIGRATION TO LIFFE

Hypothetical situation

If MONEP products migrate to LIFFE after the ISIN switchover (30 June 2003)

New MONEP products will be cleared under dummy ISIN codes, in compliance with ISO 6170. These codes will be allocated by Euroclear France:

QS + Euroclear France sequence number + check character

These codes will be used during the transition period from 30 June 2003 (the ISIN switchover date) and the scheduled date for MONEP-to-LIFFE migration.

These codes will be valid only for a Clearnet reference to the products in question.

After the LIFFE migration date, these products will continue to use the same codes in the clearing system.

1.5.2.2.4 PRODUCTS CREATED AFTER THE SWITCHOVER AND MIGRATION TO LIFFE

These products will be cleared from the outset under a proprietary Euronext-Liffe coding system similar to the ISIN format:

EU + FR/BE/NL/PT + LIFFE sequence number + check character

These codes will be valid only for a Clearnet reference to the products in question.

1.6. UNLISTED ASSETS DISSEMINATED ON EURONEXT (GOLD, CURRENCIES, INVESTMENT FUNDS)

1.6.1 CURRENT SITUATION

Gold commodity prices and interbank exchange rates are input daily by Euronext and disseminated in the satellite datafeed.

Units and shares in investment funds are not among the securities managed by Euronext.

However, all these assets are currently identified by a 6-character AFC code.

1.6.2 TARGET SITUATION

These assets will shortly be identified by their ISIN codes or, failing this, by a temporary code, e.g. the QS code used by Euroclear France since 20 February. (*)

- Receivers using AFC codes to identify these products will be required to adapt to ISIN.
- Receivers that use the 3-character identifier for the product (currency), which is included in price/exchange rate messages, are not affected.
- From 30 June 2003, AFC codes will no longer be used to identify these products.

(*)The QS-type temporary ISIN codes currently assigned to some securities are likely to change if Euroclear France assigns them a definitive code.

Note: Euronext does not assign mnemonic codes to assets that are not listed on Euronext (e.g. currencies).

2 MNEMONIC CODES

2.1 CASH PRODUCTS

Mnemonic codes consist of five alphanumeric characters.

Mnemonic codes are assigned to the following categories of securities (in order of priority):

- multi-listings on Euronext
- equities
- warrants
- convertible and index-linked bonds
- bonds likely to be highly liquid

Mnemonic codes generally end with an exchange identifier: "A" (Amsterdam), "B" (Brussels) or "P" (Paris). They are mandatory for all multi-listed securities, with the exception of option underliers, which have kept their original mnemonic codes for technical reasons.

Note:

Euronext has decided to review the mnemonic codes used for warrants. It will adopt the following structure:

4 figures + 1 letter (assigned to each issuer)

This revised coding system is not linked to the ISIN project and will be implemented according to a project-specific schedule.

2.2 LENDING AND BORROWING

Mnemonic codes consist of five alphanumeric characters.

To permit processing by the Lending & Borrowing application, mnemonic codes must include a suffix that identifies the expiry period.

→ The suffix comprises a letter to identify the month and the last digit of the year.

As regards multi-listed securities, the main body of the mnemonic code for the Lending & Borrowing application must consist of no more than three characters. In this case, "P" is not used as a suffix.

1st position = a "month" identifier:

EXPIRY	IDENTIFIER
January	F
February	G
March	H
April	J
May	K
June	M
July	N
August	Q
September	U
October	V
November	X
December	Z

2nd position = last digit of the year

YEAR	DIGIT
2002	2
2003	3
2004	4

2.3 DERIVATIVES (MATIF AND MONEP)

At present, MATIF and MONEP products all have a mnemonic code comprising five alphanumeric characters.

These codes are formed as follows:

MONEP: mnemonic code of the underlying security (3 characters maximum) + maturity month + expiry year

MATIF: mnemonic code of the product (3 characters maximum) + maturity month + expiry year

Note: the coding of maturity months and expiry years is based on the table in the Lending and Borrowing section above.

After MONEP and MATIF products have migrated to LIFFE, mnemonic codes will not change.

3 SAMPLE CODE ALLOCATIONS

3.1: TRIPLE-LISTED SECURITIES: ABN AMRO (DUTCH SECURITY)

ABN AMRO is listed in Paris, Brussels and Amsterdam

Current situation

Coding	Paris	Brussels	Amsterdam
Market	025	006	038
AFC (Sicovam/RGA)	012817	502851	948516
ISIN	NL0000301109		
Mnemonic	AABP	AABB	AABA
Euronext code	FR0000128175	NSCBE0128179	NL0000301109
L&B code (3 characters max)	AMP(F2-Z3)	AMB	AMA

Future situation

Coding	Paris	Brussels	Amsterdam
Market	025	006	038
AFC (Sicovam/RGA)	012817 (*)	Closed	Closed
ISIN	NL0000301109		
Mnemonic	AABP	AABB	AABA
Euronext code	NSCFR00AABP1	NSCBE0128179	NL0000301109
L&B code (3 characters max)	AMP(F2-Z3)	AMB	AMA

Comments

- Regarding Paris listings, Euronext must assign no more than three characters for the mnemonic codes of securities meeting the requirements of the centralised lending and borrowing (L&B) market. The same principle applies to Brussels and Amsterdam securities that are option underliers.
- The algorithm used to compute the check character for Euronext codes is the same as that used for real ISIN codes.
- (*) The AFC code for Paris will be disseminated by Euronext as 0.

3.2 TRIPLE-LISTED SECURITIES (FRENCH SECURITY)

Saint Gobain is listed in Paris, Brussels and Amsterdam.

Current situation

Coding	Paris	Brussels	Amsterdam
Market	025	006	038
AFC (Sicovam/RGA)	012500	405748	405755
ISIN	FR0000125007		
Mnemonic	SGO	SGOB	SGOA
Euronext code	FR0000125007	NSCBE0125001	NSCNL0125001

Future situation

Coding	Paris	Brussels	Amsterdam
Market	025	006	038
AFC (Sicovam/RGA)	012500 (*)	Closed	Closed
ISIN	FR0000125007		
Mnemonic	SGO	SGOB	SGOA
Euronext code	FR0000125007	NSCBE0125001	NSCNL0125001

→ No change in Euronext code for Paris

→ (*) The AFC for Paris will be disseminated by Euronext as 0

3.3 TRIPLE-LISTED SECURITIES (BELGIAN SECURITY)

Solvay is listed in Paris, Brussels and Amsterdam

Current situation

Coding	Paris	Brussels	Amsterdam
Market	025	006	038
AFC (Sicovam/RGA)	005809	984396	502832
ISIN	BE0003470755		
Mnemonic	SOLP	SOLB	SOLA
Euronext code	FR0000058091	BE0003470755	NSCNL058095

Future situation

Coding	Paris	Brussels	Amsterdam
Market	025	006	038
AFC (Sicovam/RGA)	005809 (*)	Closed	Closed
ISIN	BE0003470755		
Mnemonic	SOLP	SOLB	SOLA
Euronext code	NSCFR00SOLP3	BE0003470755	NSCNL058095

→ Euronext code changes for Paris

→ (*) The AFC for Paris will be disseminated by Euronext as 0

3.4 TRIPLE-LISTED SECURITIES (FOREIGN SECURITY)

Bayer is listed in Paris, Brussels and Amsterdam.

Current situation

Coding	Paris	Brussels	Amsterdam
AFC (Sicovam/RGA)	012806	502837	911912
Market	025	006	038
ISIN	DE0005752000		
Mnemonic	BR	BRB	BRA
Euronext code	FR0000128068	NSCBE0128062	NSCNL128062

Future situation

Coding	Paris	Brussels	Amsterdam
AFC (Sicovam/RGA)	012806 (*)	Closed	Closed
Market	025	006	038
ISIN	DE0005752000		
Mnemonic	BR	BRB	BRA
Euronext code	DE0005752000	NSCBE0128062	NSCNL0128062

→ Euronext code changes for Paris

→ (*) The AFC for Paris will be disseminated by Euronext as 0

3.5 DOUBLE-LISTED SECURITIES: PARIS / BRUSSELS (BELGIUM SECURITY)

Dexia

Current situation

Coding	Paris	Brussels
AFC (Sicovam/RGA)	012822	506622
Market	025	006
ISIN	BE0003796134	
Mnemonic	DX	DEXB
Euronext code	FR0000128225	BE0003796134

Future situation

Coding	Paris	Brussels
AFC (Sicovam/RGA)	012822 (*)	Closed
Market	025	006
ISIN	BE0003796134	
Mnemonic	DX	DEXB
Euronext code	NSCFR0000DX3	BE0003687010

→ Euronext code changes for Paris

→ (*) The AFC for Paris will be disseminated by Euronext as 0

3.6 DOUBLE-LISTED SECURITIES: PARIS / BRUSSELS (FRENCH SECURITY)

Danone

Current situation

Coding	Paris	Brussels
AFC (Sicovam/RGA)	012064	405760
Market	025	006
ISIN	FR0000120644	
Mnemonic	BN	DANB
Euronext code	FR0000120644	NSCBE0120648

Future situation

Coding	Paris	Brussels
AFC (Sicovam/RGA)	012064 (*)	Closed
Market	025	006
ISIN	FR0000120644	
Mnemonic	BN	DANB
Euronext code	FR0000120644	NSCBE0120648

→ No change in Euronext code for Paris

→ (*) The AFC for Paris will be disseminated by Euronext as 0

3.7 DOUBLE-LISTED SECURITIES: PARIS / BRUSSELS (FOREIGN SECURITY)

Arbed

Current situation

Coding	Paris	Brussels
AFC (Sicovam/RGA)	014908	905727
Market	025	006
ISIN	LU0006047129	
Mnemonic	ARBP	ARBB
Euronext code	FR0000149080	LU0006047129

Future situation

Coding	Paris	Brussels
AFC (Sicovam/RGA)	014908 (*)	Closed
Market	025	006
ISIN	LU0006047129	
Mnemonic	ARBP	ARBB
Euronext code	NSCFR00ARBP5	LU0006047129

→ Euronext code changes for Paris

→ (*) The AFC for Paris will be disseminated by Euronext as 0

3.8 DOUBLE-LISTED SECURITIES: PARIS / AMSTERDAM (FOREIGN SECURITY)

AT&T

Current situation

Coding	Paris	Amsterdam
AFC (Sicovam/RGA)	012940	903290
Market	025	038
ISIN	US0019571092	
Mnemonic	ATTP	ATTA
Euronext code	FR0000129405	US0019571092

Future situation

Coding	Paris	Amsterdam
AFC (Sicovam/RGA)	012940 (*)	Closed
Market	025	038
ISIN	US0019571092	
Mnemonic	ATTP	ATTA
Euronext code	NSCFR00ATTP3	US0019571092

→ Euronext code changes for Paris

→ (*) The AFC for Paris will be disseminated by Euronext as 0

3.9 DOUBLE-LISTED SECURITIES: PARIS / AMSTERDAM (FRENCH SECURITY)

Carrefour

Current situation

Coding	Paris	Amsterdam
AFC (Sicovam/RGA)	012017	405769
Market	025	038
ISIN	FR0000120172	
Mnemonic	CA	CAA
Euronext code	FR0000120172	NSCNL0120176

Future situation

Coding	Paris	Amsterdam
AFC (Sicovam/RGA)	012017 (*)	Closed
Market	025	038
ISIN	FR0000120172	
Mnemonic	CA	CAA
Euronext code	FR0000120172	NSCNL0120176

→ No change in Euronext code for Paris

→ (*) The AFC for Paris will be disseminated by Euronext as 0

3.10 DOUBLE-LISTED SECURITIES: AMSTERDAM / BRUSSELS (DUTCH SECURITY)

Heineken Demat.

Current situation

Coding	Amsterdam	Brussels
AFC (Sicovam/RGA)	505585	502857
Market	038	006
ISIN	NL0000009157	
Mnemonic	HEIA	HEIB
Euronext code	NL0000003157	NSCBE5055856

Future situation

Coding	Amsterdam	Brussels
AFC (Sicovam/RGA)	Closed	Closed
Market	038	006
ISIN	NL0000009157	
Mnemonic	HEIA	HEIB
Euronext code	NL0000003157	NSCBE5055856

→ No change in Euronext code