External Specifications

BORSA ITALIANA MARKET REFERENCE DATA SPECIFICATION ADVANCED PACKAGE

Relevant for: Cash markets

27 March 2025

Issue 1.10

BORSA ITALIANA

EURONEXT

CONTENTS

Introduction

1.1 Document History

This document has been through the follow iterations:

Issue	Date	Description
1.0	June 2022	New product for Equities and ETF Discard Basket file for MTA and TAH
1.1	Feb 2023	Fields update and ATFund introduction
1.2	April 2023	Addition of files for Securitized Derivatives and Fixed Income
1.3	July 2023	Additional information on fields length and description
1.4	August 2023	Previous SectorID field (obsolete) used to carry on Instrument trading grop information – change of label
1.5	October 2023	Previous obsolete fields used to carry on Extended trading hours , RFE period for Warrant and coupon type for fixed income
1.6	November 2023	New product for Derivatives
1.7	September 2024	Amendment of uncorrect details on fields
1.8	October 2024	Additional field for SeDeX and CertX
1.9	January 2025	Additional fields for Sedex and CertX

1.10	27 March 2025	**Effective 23 June 2025** Changes to Cash Instruments Record Layout (see table A) Changes to Bonds Instruments Record Layout (see table B) Changes to SeDeX /CERTX Instruments Record Layout (see table C)

Market Reference Data

2.1 Service Overview

This service provides a number of separate full market reference data files, needed to provide all the necessary data for identifying instruments traded on Italian markets. Moreover, it contains a wide amount of relevant additional information about the instruments, that can enhance client's databases and can be used for deeper analysis.

Every day files contain market reference data related to all active instruments traded on Borsa Italiana.

Below are reported the files that are made available each day for each market.

MARKET	FILE NAME	LAYOUT TABLE
EURONEXT MILAN (MTAA) EGM (EXGM) BEM (BGEM) EURONEXT MIV MILAN (MIVX) EUROTLX Equity	BRED_REFDATA_PLUS_INSTR_MTA_yyyymmdd.csv BRED_REFDATA_PLUS_INSTR_ETLX_yyyymmdd.csv BRED_REFDATA_PLUS_DIV_MTA_yyyymmdd.csv BRED_REFDATA_PLUS_EVE_MTA_yyyymmdd.csv BRED_REFDATA_ISINNDG_MTA_yyyymmdd.csv	**Table A** **Table A** **Table E** **Table L** **Table O**
ETFplus (ETFP)	BRED_REFDATA_PLUS_INSTR_ETF_yyyymmdd.csv BRED_REFDATA_PLUS_DIV_ETF_yyyymmdd.csv BRED_REFDATA_PLUS_EVE_ETF_yyyymmdd.csv BRED_REFDATA_PLUS_BASK_ETF_yyyymmdd.csv BRED_REFDATA_ISINNDG_ETF_yyyymmdd.csv	**Table A** **Table E** **Table L** **Table N** **Table O**
Trading After Hours (MTAH)	BRED_REFDATA_PLUS_INSTR_TAH_yyyymmdd.csv BRED_REFDATA_PLUS_DIV_TAH_yyyymmdd.csv BRED_REFDATA_PLUS_EVE_TAH_yyyymmdd.csv	**Table A** **Table E** **Table L**
ATFUND	BRED_REFDATA_PLUS_INSTR_ATF_yyyymmdd.csv BRED_NAV_ATF	**Table A** **Table Z**

MOT (MOTX) ExtraMOT (XMOT)	BRED_REFDATA_PLUS_INSTR_MOT_yyyymmdd.csv BRED_REFDATA_PLUS_COUP_MOT_yyyymmdd.csv BRED_REFDATA_PLUS_AMT_MOT_yyyymmdd.csv BRED_REFDATA_PLUS_EVE_MOT_yyyymmdd.csv BRED_REFDATA_PLUS_BASK_MOT_yyyymmdd.csv BRED_REFDATA_ISINNDG_MOT_yyyymmdd.csv	**Table B** **Table F** **Table G** **Table L** **Table N** **Table O**
ETLX BOND-X	BRED_REFDATA_PLUS_INSTR_BONDX_yyyymmdd.csv BRED_REFDATA_PLUS_COUP_BONDX_yyyymmdd.csv BRED_REFDATA_PLUS_AMT_BONDX_yyyymmdd.csv BRED_REFDATA_PLUS_EVE_BONDX_yyyymmdd.csv BRED_REFDATA_PLUS_BASK_BONDX_yyyymmdd.csv BRED_REFDATA_ISINNDG_BONDX_yyyymmdd.csv	**Table B** **Table F** **Table G** **Table L** **Table N** **Table O**
SeDeX (SEDEX)	BRED_REFDATA_PLUS_INSTR_SDX_yyyymmdd.csv BRED_REFDATA_PLUS_EVE_SDX_yyyymmdd.csv BRED_REFDATA_PLUS_BASK_SDX_yyyymmdd.csv BRED_REFDATA_ISINNDG_SDX_yyyymmdd.csv BRED_REFDATA_PLUS_COUP_SDX_yyyymmdd.csv	**Table C** **Table L** **Table N** **Table O** **Table H**
ETLX CERTX	BRED_REFDATA_PLUS_INSTR_CERTX_yyyymmdd.csv BRED_REFDATA_PLUS_EVE_CERTX_yyyymmdd.csv BRED_REFDATA_PLUS_BASK_CERTX_yyyymmdd.csv BRED_REFDATA_ISINNDG_CERTX_yyyymmdd.csv BRED_REFDATA_PLUS_COUP_CERTX_yyyymmdd.csv	**Table C** **Table L** **Table N** **Table O** **Table H**
Corporate Events	BRED_REFDATA_NDG_MEETING_yyyymmdd.csv BRED_REFDATA_NDG_EVENT_yyyymmdd.csv	**Table P** **Table Q**
IDEM	BRED_REFDATA_PLUS_INSTR_DER_yyyymmdd.csv DerivativesTickSizeFile_yyymmdd.xml RectifiedSeries_IDEM_YYYYMMDD.dat	**Table D** **Table R** **Table V**

2.2 Access to the service

Market Data Reference files are available at Euronext's Datashop service. Each Client will receive a username and password (or certificate) to access the service.

Files will be available in folder CSH_EU_BIT_REF_MASTER, except for the ETLX related files that require the specific licence and will be available in a separate folder CSH_EU_ETLX_REF_MASTER

Folder is organized by year and month. Files remain available in these folder starting from the service activation :

CSH_EU_BIT_REF_MASTER/ CSH_EU_BIT_REF_MASTERYYYY/
CSH_EU_BIT_REF_MASTERYYYYMM

2.3 Calendar and Service hours

Market Reference Data files are available on published trading days. All the files, will be available indicatively within 08:00 a.m. local market time.

2.4 Data layout

The files are created in accordance with the following specifications:

File format	Csv
Fields delimiter	; (semicolon)
Decimal symbol	. (point)
Digit grouping symbol (thousands separator)	none
Date fields format	yyyymmdd

The fields length is variable, moreover the maximum length for the field is defined in the datatype column of the tables below.

The first record of each file contains a header, which contains the name of each field.

The csv files are made available in zip format, aggregated by market.

I.e. for market MTA the file to download is BRED_REFDATA_PLUS_MTA_YYYYMMDD.ZIP containing files:

- BRED_REFDATA_PLUS_INSTR_MTA_yyyymmdd.csv
- BRED_REFDATA_PLUS_DIV_MTA_yyyymmdd.csv
- BRED_REFDATA_PLUS_EVE_MTA_yyyymmdd.csv
- BRED_REFDATA_ISINNDG_MTA_yyyymmdd.csv

2.5 Table A: Cash Instruments Record Layout

Complete reference data of all instruments listed on EURONEXT MILAN , ,EGM,BEM,EURONEXT MIV MILAN, TAH, ETFplus and ATFund markets, available for trading on the trading date indicated in the file name. These files include shares, warrants, rights and convertible bonds.

Field	DataType	Trading day in YYYYMMDD format
TradingDate	number int8	Next trading day in YYYYMMDD format
InstrumentID	Number(10)	Instrument ID. unique instrument identifier across the MIT system
ISINCode	char(12)	Instrument ISIN code
CountryOfRegister	char(2)	Country of Register
CurrencySign	char(3)	Trading currency applied
Market	char(5)	Effective 23 June 2025 Name of the listing market
SecurityDescription	char(200)	Security description
SecurityCode	char(6)	Alphanumeric security code
SecuritySubType	char(50)	Security subtype
MinimumLot	number 16int 4d	Indicates the minimum quantity/nominal value tradable on the market for a security
MinimumSize	number 16int 4d	Gives the minimum size of an order that may be submitted. If the Minimum Size is set to zero the minimum order size is determined by the Lot Size
ListingStartDate	number 8int	Listing start date in the YYYYMMDD format
ListingEndDate	number 8int	Listing end date in the YYYYMMDD format.

		Set only after instrument revocation has been communicated
ExpirationDate	number 8int	Expiration date in the YYYYMMDD format
NumberOfSharesInCirculation	number 16int	Indicates the number of shares which constitute the share capital.
AfterHoursTradingFlag	char(1)	Obsolete field maintained for compatibility
StrikePrice	number 9int 6d	Strike price (exercise price)for equities warrant
UnderlyingISINCode	char(12)	Underlying ISIN code
UnderlyingSecurityCode	char(9)	Alphanumeric Underlying security code. In file BRED_REFDATA_INSTR_ETF this field containts the Instrument Id .
UnderlyingType	char(40)	Type of the underlying
UnderlyingDescription	char(70)	Underlying description
IssuerDescription	char(70)	Issuer description
NominalValue	number 16int 4d	Instrument Nominal Value only for share
SecurityType	char(50)	Type of asset class
SettlementSystem	char(50)	Type of Settlement system
SettlementDate	number 8int	Settlement date in the YYYYMMDD format
LastValidityDate	number 8int	Last validity date in the YYYYMMDD format

ExMarkerCode1	char(100)	Type Of Corporate Event: 05 – Bonus (i.e. attribution) 04 – Split 09 – Reverse split/Spin off – 07 – Share allocation Merger 10 – Merger 06 – Subscription 01 – Dividend payment in cash or in stocks 11 – Final Fix Income redemption 02 – Interest payment
TradingAllowed	char(10)	Indicates if the instrument is tradable : 1 Instrument Not tradable 2 Instrument tradable in Continuous mode 3 Instrument tradable in Auction mode
SettlementCycle	number 4int	The number of business days for settlement
ClearingType	char(11)	Indicates whether the instrument is cleared or not 0 = No 1= Yes 2= Not Clearable
CalendarCode	char(6)	Obsolete field maintained for compatibility
OfficialSegment	char(70)	Segment identifier value
ExerciseStartDate	number int8	Date of start of Exercise
ExerciseEndDate	number int8	Date of end of Exercise
NumberOfUnExercisedRights	number 9int	Number of rights that remain unexercised

SettlementCurrency	char(3)	Currency of settlement
ClassType	char(100)	Set only when valid
BenchmarkArea	char(50)	Area of the Benchmark
BenchmarkStyle	char(50)	Benchmark Style
LastPublishedValueDate	number int8	Date of publication of the Last Published Value
LastPublishedValue	number 9int 4d	Last Published Value
ReutersCode	char(12)	Obsolete field maintained for compatibility
BloombergCode	char(12)	Obsolete field maintained for compatibility
NumberOfOutstandingQuotas	number 16int	Number of outstanding quotes
OutstandingCapital	number 16int 4d	Obsolete field maintained for compatibility
NotionalCurrency	char(5)	Notional Currency
IssuePrice	number 5int 5d	Issue Price
CurrentCoupon	char(10)	Number of the current coupon
DetachedCoupon	char(10)	Number of the detached coupon
AccrualDate	number int8	Date of Accrual
Entitlement	char(30)	Accrual Type
Status	char(30)	Status of Trading: traded,temporary suspended or permanent suspended
LastRelevantNoticeDate	Char(22)	Date of the last relevant Notice
LastRelevantNoticeNumber	Char(22)	Number of the last relevant Notice
StartOfTradingNoticeDate	number int8	Date of the Start of Trading Notice
StartOfTradingNoticeNumber	Char(22)	Number of the Start of Trading Notice
TradingGroup	char(4)	Previous sectorID. Instrument trading group in Optiq
Settlement	char(10)	Type of Settlement

ExerciseRatio	char(70)	Exercise Ratio
Multiplier	number 3int 6d	Obsolete field maintained for compatibility
MaxSpread	number 11int 4d	Obsolete field maintained for compatibility
DividendFrequency	char(50)	Frequency of the dividend
AnnualManagementFees	number 16int 6d	Annual Management Fees
EntryFees	number 16int 6d	Obsolete field maintained for compatibility
PerformanceFees	number 16int 6d	Obsolete field maintained for compatibility
ExitFees	number 16int 6d	Obsolete field maintained for compatibility
MinimumBid_AskQuantities	number 12int	Minimum Bid/Ask Quantities
AdjustmentFactor	number 28int 8d	Adjustment Factor
NDG	number int10	Identifying code for the Issuer
LEICode (Issuer or operator of the trading venue identifier)	char(20)	Legal entity identifier for the issuer of the instrument
MICCode	char(4)	Identifies the MIC code
RequestForAdmissionByIssuer	char(1)	Whether the issuer of the financial instrument has requested or approved the trading or admission to trading of their financial instruments on a trading venue
ApprovalDateOfAdmission	number int8	Date the issuer has approved admission to trading or trading in its financial instruments on a trading venue
RequestDateForAdmission	number int8	Date of the request for admission to trading on the trading venue.
MiFIRIdentifier	char(10)	Obsolete field maintained for compatibility
AlternateSecurityType	char(1)	Obsolete field maintained for compatibility
Liquidity	number 3int	Indicates whether the instrument is liquid or not:

		- 0 Illiquid - 1 Liquid - 2 Not Applicable
PreTradeLIS	number 15int	Used to specify the LIS thresholds for an instrument.
ProfessionalStatus	char(3)	Professional flag
ESGProductClassification	Char(50)	possible values : Blank ESG Green/Environmental ESG Social ESG Governance ESG Sustainability ESG Sustainability linked ESG Blue ESG Transition ESG General ESG Clean Tech ESG ETF art. 8 ESG ETF art. 9 ESG art. 8 ESG art. 9
KIDlink	char(256)	Unique key investment document link per ISIN and MIC associated to a given ETP
ExerciseRatioNB	number 25int 8d	Underlying weight
Fields to be added on 23 June 2025		
EuronextCode	char(12)	Unique instrument trading code
EuronextDesignation	char(22)	Instrument’s name
IssuerCode	char(12)	Issuer code
Compartment	char(50)	Name of the compartment where the instrument is listed
IssuePriceCurrency	char(3)	Currency Code for Issue Price

LegalForm	char(40)	Authorized Values: ▪ 0 - Bearer or Registered ▪ 2 - Purely registered ▪ 3 - Purely bearer ▪ 8 - Not applicable
MarketingProductName	char(40)	Represents a group of instruments sharing the same Instrument Type and Instrument Subtype values
IPOdate	Date(8)	IPO date (YYYYMMDD)
CFIcode	char(6)	Classification of Financial Instruments(ISO-10962:2015)
TradingType	char(1)	Indicates if the related pattern is a Fixing or Continuous or Not Tradable pattern or Continuous Late
InstrumentUnitExpression	Number	Unit in which the instrument is quoted
StrikePriceCurrency	char(3)	Code of the strike currency (ISO 4217-3A)
Outstanding	Number	Number of issued securities by nominal type
QuantityNotation	char(3)	Description Indication of the type of measurement (e.g. number of units, nominal, monetary value, etc.) in which the transaction is expressed. Possible values: ▪ "UNT" - Units ▪ "FMT" - Facial Amount ▪ "-" - Not Applicable
PEAeligibility	Number	PEA indicator
SymbolIndex	Number	Exchange identification code of the instrument
TickTableID	Number	ID of the tick size table available in the Tick Table file
ExpositionType	char(10)	Indicates the ETF replication method
FundManager	char(50)	Fund Manager Name Definition
TickSize	Number	Rate of Fixed Tick. The degree of precision with which the price of an instrument or

		the limit of an order can be expressed, when this degree of precision is fixed
AnnualFee	Number	Annual Fees (in the year of the admission)
BuyBackIndicator	Number	Flag indicating whether the buy back functionality is activated or not (0: deactivated; 1: activated).
ClosingPriceType	char(1)	Indicates the type of closing Price configured for the instrument
DarkEligibility	Number	Identifies whether an instrument is eligible for the Dark market functionality
DarkMinQuantity	Number	Defines the minimum quantity required for an order to be filled in the Dark liquidity
DepositaryList	char(5)	Identifies the default (or main) depository organization of the instrument (between the possible 4 depositaries registered) used by priority for the settlement
InstrumentEventDate	char(8)	Effective date of an update following a corporate action (YYYYMMDD)
MaxOrderAmountCall	Number	Maximum order amount during a call phase
MaxOrderAmountContinuous	Number	Maximum order amount during a continuous phase
MaxOrderQuantityCall	Number	Maximum order quantity during a call phase
MaxOrderQuantityContinuous	Number	Maximum order quantity during a continuous phase
RepoIndicator	Number	Indicates whether the instrument has been admitted to the DSO (Deferred System Order).
TypeOfMarketAdmission	char(1)	Indicates the type of market admission
OptiqSegment	Number	Indicates the Optiq segment of the instrument.

2.6 Table B: Bonds Instruments Record Layout

Complete reference data of all instruments listed on MOT and ExtraMOT and BOND-X available for trading on the trading date indicated in the file name.

Field Name	Datatype	Values Description
TradingDate	number int8	Trading day in YYYYMMDD format
InstrumentID	char(9)	Instrument ID. unique instrument identifier across the MIT system
ISINCode	char(12)	Instrument ISIN code
CountryofRegister	char(2)	Country of Register
CurrencySign	char(3)	Trading currency applied
Market	char(5)	Effective 23 June 2025 Name of the listing market
SecurityDescription	char(200)	Security description
SecuritySubType	char(50)	Security subtype
LotSize	number int8	Indicates the minimum quantity/nominal value tradable on the market for a security
MinimumSettlementAmount	number 16int 4d	Gives the minimum size of an order that may be submitted. If the Minimum Size is set to zero the minimum order size is determined by the Lot Size
ListingStartDate	number int8	Listing start date in the YYYYMMDD format
ListingEndDate	number int8	Listing start date in the YYYYMMDD format Set only after instrument revocation has been communicated
ExpirationDate	number int8	Expiration date in the YYYYMMDD format
DirtyCleanPrice	char(8)	Dirty/Clean price (TIPO CORSO): - SECCO (Ex-Coupon) - TEL QUEL (Cum-Coupon) - MIXED (both)

GrossSettlementIndicator	char(1)	This group defines literals defining whether a MOT instrument is settled in gross or not: Y, N or Blank
TimeToMaturity	number 6int	Time to maturity in number of days
PoolFactor	number 5int 15d	Current pool factor
IssuerDescription	char(70)	Issuer description
ReferenceIndex	char(100)	Index where Bond is linked
SecurityType	char(50)	Security Type
SettlementSystem	char(50)	Type of Settlement System
SettlementDate	number int8	Settlement date in the YYYYMMDD format
LastValidityDate	number int8	Last validity date in the YYYYMMDD format
ExMarkerCode1	char(100)	The value of an Ex-Marker
TradingAllowed	char(10)	Indicates whether the market which the instrument belongs to is open or not on current tradingDate: 0=NotTraded (as the market is closed or the instrument is non negotiable in the current trading day) 1=Traded (as the market is open)
SettlementCycle	number 4int	The number of business days for settlement
ClearingType	char(11)	Indicates whether the instrument is cleared or not: 0 = No 1= Yes 2= Not Clearable
CalendarCode	char(6)	Obsolete
OfficialSegment	char(70)	Segment identifier value
SettlementCurrency	char(3)	All
RePayment	char(30)	Repayment mode-Redemption frequency

OutStanding	number 14int 4d	Current outstanding
NotionalCurrency	char(5)	Notional Currency
AccrualDate	number int8	First Accrual Date
Subordination	char(1)	Y or N
CouponFrequency	number 3int	Frequency of the Coupon – how many times in the year the coupon is received , possible values(i.e. 1 = annually,12 = monthly) 1=annually 2=semi annually 3 =every 4 months 4 =every 3 months 6 =every 6 months 12= monthly 24=every 15 days 365=daily
StructureType	char(20)	StructureType
ClassType	char(100)	ClassType
IssueDate	number int8	Date of issue
OutstandingDate	number int8	Obsolete
RedemptionPrice	number 3int 5d	Price of Redemption
NominalValue	number 15int 4d	Nominal Value
IssuePrice	number 3int 5d	Issue Price
CouponSpread	number 2int 5d	Coupon Spread
TypeOfInterestCalculation	char(40)	Type of interest Calculation
IssuerCategory	Char(50)	Category of the Issuer
LastRelevantNoticeDate	number int8	Date of the last relevant Notice related to the instrument
LastRelevantNoticeNumber	char(22)	Number of the last relevant Notice

MinimumDenomination	number 9int 10d	obsolete
Status	char(30)	Status of trading
IndexationSign	char(1)	Obsolete
IndexationDescription	char(4000)	Obsolete
PeriodCouponIndicator	char(1)	Indicator of Period Coupon (Y or N)
ParameterFixingMethod	char(50)	Fixing Method. Possible values : Before Interest Accrual Start Date, After Interest Accrual Start Date, [Blank]
Adjusted	char(1)	Indication of Adjusted (Y or N)
FirstCouponType	char(100)	Obsolete
CouponType	char(100)	(ex Lastcoupontype) Type of coupon. Possible values are : Fixed Zero coupon Multi coupon Variable Step coupon One coupon Reverse
TradingGroup	char(4)	Previous sectorID. Instrument trading group in Optiq
NDG	number int10	Identifying code for the Issuer
LEICode (Issuer or operator of the trading venue identifier)	char(20)	Legal entity identifier for the issuer of the instrument,
MICCode	char(4)	Identifies the MIC code
RequestForAdmissionByIssuer	char(1)	Whether the issuer of the financial instrument has requested or approved the trading or admission

		to trading of their financial instruments on a trading venue
ApprovalDateOfAdmission	number int8	Date the issuer has approved admission to trading or trading in its financial instruments on a trading venue
RequestDateForAdmission	number int8	Date of the request for admission to trading on the trading venue.
MiFIRidentifier	char(10)	Obsolete
BondType	char(10)	Bond type for Bonds: 'EUSB' - Sovereign Bond 'OEPB' - Other Public Bond 'CVTB' - Convertible Bond 'CVDB' - Covered Bond 'CRPB' - Corporate Bond 'OTHR' - Other
AlternateSecurityType	char(1)	Obsolete
Liquidity	number 3int	Indicates whether the instrument is liquid or not: - 0 Illiquid - 1 Liquid - 2 Not Applicable
PreTradeLIS	number 20int	Used to specify the LIS thresholds for an instrument.
ProfessionalStatus	char(3)	Indicates if only professional subjects can trade on this instrument (Y/N)
ESGProductClassification	char(50)	possible values : Blank ESG Green/Environmental ESG Social ESG Governance ESG Sustainability

		ESG Sustainability linked ESG Blue ESG Transition ESG General ESG Clean Tech ESG ETF art. 8 ESG ETF art. 9 ESG art. 8 ESG art. 9
TargetMarketKID	char(50)	Possible values: Target Market: Professional only and No KID Target Market: Professional Only NO KID [Empty]
CFICode	Char(2)	Classification of Financial Instruments
Fields to be added on 23 June 2025		
EuronextCode	Char(12)	Unique instrument trading code
EuronextDesignation	Char(22)	Instrument’s name
IssuerCode	Char(12)	Issuer code
NumberOfSharesInCirculation	Number	Number of listed securities
IssuePriceCurrency	Char(3)	Currency Code for Issue Price
LegalForm	Char(40)	Authorized Values: ▪ 0 - Bearer or Registered ▪ 2 - Purely registered ▪ 3 - Purely bearer ▪ 8 - Not applicable

MarketingProductName	Char(40)	Represents a group of instruments sharing the same Instrument Type and Instrument Subtype values
TradingType	Char(1)	Indicates if the related pattern is a Fixing or Continuous or Not Tradable pattern or Continuous Late
InstrumentUnitExpression	Number	Unit in which the instrument is quoted
SettlementPlatform	Char(50)	Settlement Platform (Example: Eroclear Bank, Euroclear Belgium,...)
InterestRate	Char(14)	Interest rate of the instrument
EarlyRedemptionIndicator	Char(40)	Indicator of Early Redemption Type
DayCount	Char(40)	Day count convention used to calculate accrued interest (e.g. ACT/ACT, ACT/360, 30/360, et cetera)
QuantityNotation	Char(3)	Indication of the type of measurement (e.g. number of units, nominal, monetary value, etc.) in which the transaction is expressed. Possible values: ▪ "UNT" - Units ▪ "FMT" - Facial Amount ▪ "-" - Not Applicable
BondSeniority	Char(50)	Bond seniority (For example: Senior, subordinated,...)
SymbolIndex	Number	Exchange identification code of the instrument/contract
ESGbonds	-	Blank
FirstCouponPaymentDate	Char(10)	Represents the date of the first coupon payment of a bond
Benchmark	Number	Benchmark
PlaceOfSafekeeping	Char(50)	Place of safekeeping of the instrument

BusinessDayConvention	Char(70)	Business day convention (e.g. Following)
ClosingPriceType	Char(1)	Indicates the type of closing Price configured for the instrument
DepositaryList	Char(5)	Identifies the default (or main) depository organization of the instrument used by priority for the settlement
InstrumentEventDate	Char(8)	Effective date of an update following a corporate action (YYYYMMDD)
MaxOrderAmountCall	Number	Maximum order amount during a call phase, adjusted by the Pool Factor
MaxOrderAmountContinuous	Number	Maximum order amount during a continuous phase, adjusted by the Pool Factor
MaxOrderQuantityCall	Number	Maximum order quantity during a call phase, adjusted by the Pool Factor
MaxOrderQuantityContinuous	Number	Maximum order quantity during a continuous phase, adjusted by the Pool Factor
RepoIndicator	Number	Indicates whether the instrument has been admitted to the DSO (Deferred System Order)
TypeOfMarketAdmission	Char(1)	Indicates the type of market admission
OptiqSegment	Number	Indicates the Optiq segment of the instrument

2.7 Table C: SeDeX /CERTX Instruments Record Layout

Complete reference data of all instruments listed on SeDeX and available for trading on the trading date indicated in the file name.

Field Name	Datatype	Values Description

TradingDate	number int8	Trading day in YYYYMMDD format
InstrumentID	char(11)	Instrument ID. unique instrument identifier across the MIT system
ISINCode	char(12)	Instrument ISIN code
CountryOfRegister	char(2)	Country of Register
CurrencySign	char(3)	Trading currency applied
Market	char(5)	Effective 23 June 2025 Name of listing market
SecurityDescription	char(200)	Security description
SecurityCode	char(6)	Alphanumeric security code
SecuritySubType	char(50)	Security subtype
LotSize	number 16int 4d	Indicates the minimum quantity/nominal value tradable on the market for a security
MinimumSettlementamount	number 16int 4d	Correspond to minimum lot
ListingStartDate	number int8	Listing start date in the YYYYMMDD format
ListingEndDate	number int8	Listing start date in the YYYYMMDD format
ExpirationDate	number int8	Expiration date in the YYYYMMDD format
NumberOfSharesincirculation	number 16int	Indicates the number of shares which constitute the share capital.
ExtHoursTime	char(4)	(ex field AfterHoursTradingFlag) Indicate the trading start and end hours. Possible values are : 0817 = 08.00 - 17.30 8230 = 08.00 - 20.30 0822 = 08.00 - 22.00 9230 = 09.05 - 20.30 0922 = 09.05 - 22.00 Null = 09.05 - 17.30

StrikePrice	number 9int 6d	Strike price (exercise price for warrants)
LeverageCertificatesBarrier	number 9int 6d	Obsolete – see field
OptionStyle	char(10)	This instrument's option style. Possible values are : A=American E=European B=Bermudan P=Periodic O and M=Other S= Asian
Parity	number	The parity of the instrument
UnderlyingISINCode	char(12)	Underlying ISIN code
UnderlyingSecurityCode	char(6)	Alphanumeric Underlying security code
UnderlyingType	char(40)	Type of the underlying
UnderlyingDescription	char(50)	Underlying description
IssuerDescription	char(70)	Issuer description
IssuerClass	char(100)	Possible value Issuer/Inverstor
SecurityType	char(50)	Security Type
SettlementSystem	char(50)	Type of Settlement system
SettlementDate	number int8	Settlement date in the YYYYMMDD format
LastValidityDate	number int8	Last validity date in the YYYYMMDD format
ExMarkerCode1	char(100)	The value of an Ex-Marker
TradingAllowed	char(10)	- 0=NotTraded (as the market is closed or the instrument is non negotiable in the current trading day) - 1=Traded (as the market is open)

SettlementCycle	number 4int	The number of business days for settlement
ClearingType	char(11)	Indicates whether the instrument is cleared or not 0 = No 1= Yes 2= Not Clearable
CalendarCode	char(6)	Obsolete
OfficialSegment	char(70)	Segment identifier value
SettlementCurrency	char(3)	All
Settlement	char(30)	Type of Settlement
UnderlyingCurrency	char(5)	Currency of the underlying instrument
AutoCallable	char(1)	Obsolete – see field
BuyBackIndicator	char(1)	For quote driven only .It indicates if instrument is in Buy Back state (previous bid ony quote driven)
StopLossPerc	number 9int 6d	obsolete
StopLoss2Perc	number 9int 6d	obsolete
SecondBarrierEvent	char(1)	obsolete
Rebate	number 9int 6d	Obsolete – see field coupon value on coupon plan
InitialLevel	number 9int 6d	Initial Level
NotionalCurrency	char(5)	Notional Currency
TypeOfOption	char(10)	Faculty : 0 = N/A 1= Put 2= Call
Multiplier	number 5int 6d	Obsolete
MarketingName	char(200)	Marketing Name
SecondStrikePrice	Number	Effective 23 June 2025 The field will be populated with the second strike price
NominalValue	number 12int 6d	Nominal Value

Participation	number 5int 4d	Participation
Bonus	number 5int 4d	Bonus in absolute value
LastRelevantNoticeDate	number int8	Date of the last relevant Notice
LastRelevantNoticeNumber	char(22)	Number of the last relevant Notice
Status	char(30)	Status of trading
ClassType	char(20)	Class type
TradingGroup	char(4)	Previous sectorID. Instrument trading group in Optiq
BullBear	char(6)	Long/Short Indicator : Bull Bear
AcepiClass	char(100)	ACEPI Class
AcepiType	char(100)	ACEPI Type
NDG	number int10	Identifying code for the Issuer
LEICode (Issuer or operator of the trading venue identifier)	char(20)	Legal entity identifier for the issuer of the instrument
MICCode	char(4)	Identifies the MIC code
RequestForAdmissionByIssuer	char(1)	Whether the issuer of the financial instrument has requested or approved the trading or admission to trading of their financial instruments on a trading venue
ApprovalDateOfAdmission	number int8	Date the issuer has approved admission to trading or trading in its financial instruments on a trading venue
RequestDateForAdmission	number int8	Date of the request for admission to trading on the trading venue.
MiFIRIdentifier	char(10)	Obsolete
RFEParameter	Number 4int	(ex AlternateSecurityType field) RFE Refresh period , possible values are: 0 = 0 seconds

		600 = 0,6 seconds 3000 = 3 seconds
Liquidity	number 3int	Indicates whether the instrument is liquid or not: - 0 Illiquid - 1 Liquid - 2 Not Applicable
PreTradeLIS	number 15int	Used to specify the LIS thresholds for an instrument.
MicroCategory	Char(70)	Security micro category
SecondStopLoss	number 15int 6d	Obsolete
IssueDate	Number 8int	Date of issue
AdjustmentFactor	number 28int 8d	Adjustment Factor
LowerThreshold	Number 13int 7d	Lower threshold of the leverage barrier
UpperThreshold	Number 13int 7d	Upper threshold of the leverage barrier
BarrierCapitalObservation	Char(20)	Barrier observation .Possible value : Closing Intraday Opening
BarrierCapitalPercentage	Number	Level of Barrier for capital protection
BarrierCouponPercentage	Number	Level of barrier for coupon payment
AutocallObservation	Char(20)	autocall observation .Possible value : Closing Intraday Opening
BarrierAutocallPercentage	Number	Barrier autocall
PayoffAlteringBarrierPercentage	Number	Barrier that, if reached by underlying asset, brings to the instrument recall by the issuer

BonusPercentage	Number	Bonus in percentage of nominal amount
ESGProductClassification	Char(50)	possible values : Blank ESG Green/Environmental ESG Social ESG Governance ESG Sustainability ESG Sustainability linked ESG Blue ESG Transition ESG General ESG Clean Tech ESG ETF art. 8 ESG ETF art. 9 ESG art. 8 ESG art. 9
TargetMarketKID	char(50)	Possible values: Target Market: Professional only and No KID Target Market: Professional Only NO KID [Empty]
KIDLink	char(256)	Unique key investment document link per ISIN and MIC associated to a given Warrant
Leverage	Number	Amount of the leverage
BarrierBreachedIndicator	Char(1)	Indicator for the barrier breach. Equal to Y when the barrier is reached , otherwise equal to N
BarrierLevel	Number	Level at which the Barrier is reached

ProtectionLevelPercentage	Number	Percentage of protection in case of protected intruments
Fields to be added on 23 June 2025		
EuronextCode	Char(12)	Unique instrument trading code.
EuronextDesignation	Char(22)	Instrument's name
IssuePrice	Number	Issue price
IssuePriceCurrency	Char(3)	Currency Code for Issue Price
StructuredProductsType	Char(1)	Structured Products Type. Possible values are: ▪ 1 - Pure indexation ▪ 2 - Capital protection ▪ 3 - Yield enhancement ▪ 4 - Bear indexation ▪ 5 - Spread ▪ 6 - Digital with barrier ▪ 7 - Leverage product with knock out barrier ▪ 8 - Plain vanilla warrants
MarketingProductName	Char(40)	Represents a group of instruments sharing the same Instrument Type and Instrument Subtype values.
CFIcode	Char(6)	Classification of Financial Instruments(ISO-10962:2015)
EUSIPAcode	Char(4)	Indicates the classification code given to the instrument by the European Structured Investment Products Association
EUSIPAname	Char(50)	Indicates the classification name given to the instrument by the European Structured Investment Products Association
RiskLevel	Char(50)	Risk Level of the instrument.
Strategy	Char(50)	Investment type strategy
UnderlyingCountry	Char(3)	Code of country of origin of the underlying

ExerciseType	Number	Exercise type
StrikePriceCurrency	Char(3)	Code of the strike currency (ISO 4217-3A).
ThirdStrikePrice	Number	Third strike price
FourthStrikePrice	Number	Further strike price
ExerciseStartDate	Char(8)	Date of start of Exercise (YYYYMMDD)
SuspensionDate	Char(8)	Date of Trading Suspension. This date is provided when an instrument is suspended during the trading session on a given trading day (YYYYMMDD)
OpeningTime	Char(5)	Opening time of the instrument
ClosingTime	Char(5)	Closing time of the instrument
NumberDaysBeforeExpiration	Number	Numbers of days between expiry and delisting date
TAKOperiod	Number	Indicates the number of days on which trading after Knock-Out is allowed
KIBIstatus	Char(22)	Indicates whether a structured product has been listed as KIBI or not
CashSettlementIndicator	Char(2)	Settlement type
SettlementPlatform	Char(50)	Settlement Platform (Example: Eroclear Bank, Euroclear Belgium,...)
US871m	Char(1)	Indicates whether a product is in scope of the US871m rule
ProfessionalInvestorsFlag	Number	Flag indicating whether the instrument is to be traded by Professional participants only or retail as well: ▪ 0 = No (Professional and Retail) ▪ 1 = Yes (Professional only)
IssuerCode	Char(12)	Issuer code

TradingType	Char(1)	Indicates if the related pattern is a Fixing or Continuous or Not Tradable pattern or Continuous Late
InstrumentUnitExpression	Number	Unit in which the instrument is quoted
BuyBackIndicator	Number	Flag indicating whether the buy back functionality is activated or not (0: deactivated; 1: activated).
ClosingPriceType	Char(1)	Indicates the type of closing Price configured for the instrument.
DepositaryList	Char(5)	Identifies the default (or main) depository organization of the instrument used by priority for the settlement
InstrumentEventDate	Char(8)	Effective date of an update following a corporate action (YYYYMMDD)
MaxOrderAmountCall	Number	Maximum order amount during a call phase
MaxOrderAmountContinuous	Number	Maximum order amount during a continuous phase
MaxOrderQuantityCall	Number	Maximum order quantity during a call phase
MaxOrderQuantityContinuous	Number	Maximum order quantity during a continuous phase
TypeOfMarketAdmission	Char(1)	Indicates the type of market admission
OptiqSegment	Number	Indicates the Optiq segment of the instrument

2.8 Table E: Cash Dividends and Coupons Record Layout

Shares, ETFs, ETCs, ETNs and funds Dividends and Coupons detached starting from 27.03.2023

Field Name	Datatype	Values Description
TradingDate	number int8	Trading day in YYYYMMDD format

InstrumentID	char(11)	Instrument ID. unique instrument identifier across the MIT system
ISINCode	char(12)	Instrument ISIN code
AnnouncementDate	number 8int	Date of announcement of the dividend
PaymentDate	number 8int	Date of payment of the dividend
CouponDate	number 8int	Date of coupon detachment
CouponValue	number 23int 7d	Value of the coupon
NoticeDate	number 8int	Date of official notice
NoticeNumber	Char(22	Number of the official notice
CouponCurrency	char(5)	Currency of coupon
DividendType	char(20)	Type of dividend
DividendOwnerType	char(50)	Obsolete field maintained for compatibility
DividendDefinitionType	char(50)	Obsolete field maintained for compatibility

2.9 Table F: Bond Coupons Record Layout

Coupon plan starting from related to bonds available for trading.

Field Name	Datatype	Values Description
TradingDate	number int8	Trading day in YYYYMMDD format
InstrumentID	char(11)	Instrument ID. unique instrument identifier across the MIT system
ISINCode	char(12)	Instrument ISIN code
StartAccrualDate	number 8int	Date when the accrual start
PaymentDate	number 8int	Payment date
CouponDetachmentDate	number 8int	Date of coupon detachment

Rate	number 19int 8d	Interest Rate
Cap	number 10int 4d	Cap
Floor	number 10int 4d	Floor
AnnualRate	number 19int 8d	Annual coupon rate
ZeroCouponIndicator	char(1)	Oblsole (see Bred_refdata_plus_Instr_* for this info)
RecordDate	number 8int	Cut-off date
CouponDate	number 8int	Coupon Date

2.10 Table G: Bond Amortization Plan Record Layout

Amortization plan starting from related to bonds available for trading.

Field Name	Datatype	Values Description
TradingDate	number int8	Trading day in YYYYMMDD format
InstrumentID	char(11)	Instrument ID. unique instrument identifier across the MIT system
ISINCode	char(12)	Instrument ISIN code
RedemptionDate	number 8int	Date of amortization/redemption
Amortizingquote	number 18int 3d	Tranche-Amount of redemption
Current_quote	number 9int 3d	Redemption price-
Redemption_Base	number 11int	Base of amortization
Spread	number 5int 2d	Spread
AmortisationPercentage	number 12int 5d	Amortization percentage

Poolfactor	number 35int 15d	Pool factor

2.11 Table H: Securitized Derivatives Coupon Record Layout

Call price and date starting from 01.01.2012 for bonds available for trading.

Field Name	Datatype	Values Description
TradingDate	number int8	Trading day in YYYYMMDD format
InstrumentID	char(11)	Instrument ID. unique instrument identifier across the MIT system
ISINCode	char(12)	Instrument ISIN code
CallPrice	number 13int 5d	Call Price
CallDate	number 8int	Call Date
ObservationDate	number 8int	Date of the coupon record
Ex-CouponDate	number 8int	Date of the ex coupon
RecordDate	number 8int	Date of recording
PaymentDate	number 8int	Date of the coupon payment
Autocallable	Char(1)	Indicates whether the instrument's coupon is autocallable or not
Unconditional Coupon	Char(1)	Indicates whether the instrument's coupon is Unconditional or not
Coupon Value	Number 13int 7d	Coupon amount in absolute value
Coupon Status	Char(30)	Confirmation status of the coupon .Possible values : Imported Confirmed

2.12 Table L: Cash Events Record Layout

Cash instruments next events occurring starting from the trading date. Every day the files contains all the events in the futures and substitute the file of the previous day. Can happens that an event is cancelled after been announced.

Field Name	Datatype	Values Description
TradingDate	number int8	Trading day in YYYYMMDD format
InstrumentID	char(11)	Instrument ID. unique instrument identifier across the MIT system
ISINCode	char(12)	Instrument ISIN code
NDG	number 10int	Identifying code for the Issuer
EventDescription	char(75)	Description of the Event
NoticeNumber	Char(22)	Number of the notice
NoticeDate	number int8	Date of the notice
EventDate	number int8	Date of the Event

2.13 Table N: Cash Baskets Record Layout

Cash and bonds baskets of instruments related to tradable ISINs each trading day.File is filled in case of multiple underlying (basket) for an instrument.

Field Name	Datatype	Values Description
TradingDate	number int8	Trading day in YYYYMMDD format
InstrumentID	char(11)	Instrument ID. unique instrument identifier across the MIT system
ISINCode	char(12)	Instrument ISIN code
UnderlyingISINCode	char(12)	Underlying ISIN code
UnderlyingWeight	number 25int 8d	Obsolete field maintained for compatibility

UnderlyingDescription	char(50)	Description of the Underlying

2.14 Table O: Cash Codes Record Layout

Association between tradable ISINs and NDG codes

Field Name	Datatype	Values Description
TradingDate	number int8	Trading day in YYYYMMDD format
InstrumentID	char(11)	Instrument ID. unique instrument identifier across the MIT system
ISINCode	char(12)	Instrument ISIN code
NDG	number 10int	Identifying code for the Issuer
IssuerName	char(70)	Name of the Issuer
InstrumentDescription	char(50)	Instrument Description

2.15 Table P: Issuers Meetings Record Layout

Shareholders meetings communicated to the market.

Field Name	Datatype	Values Description
NDG	number 10int	Identifying code for the Issuer
Date	number 8int	Date of publishing
FirstConvening	number 8int	Date of first convening
SecondConvening	number 8int	Date of second convening
ThirdConvening	number 8int	Date of third convening
MeetingType	char(34)	Meeting Type

NoticeNumber	number 10int	Number of the notice

2.16 Table Q: Corporate Events Record Layout

Corporate Events communicated to the market.

Field Name	Datatype	Values Description
NDG	number 10int	Identifying code for the Issuer
ISINCode	char(12)	Instrument ISIN code
ModificationDate	number 8int	Modification Date
EventDescription	char(75)	Description of the event
EventDate	number 8int	Date of the event
NoticeNumber	number 10int	Number of notice
NoticeDate	number 8int	Date of the notice

2.17 Table Z: ATFund Nav

Field Name	Datatype	Values Description
TradingDate	number int8	Trading day in YYYYMMDD format
InstrumentID	char(11)	Instrument ID. unique instrument identifier across the MIT system
NAV	number 19int 4d	Net Asset Value in currency
Currency	char(3)	Currency of NAV
NAVinEur	number 19int 4d	Net Asset Value in Eur
OutstandingShares	Number int15	Number of outstanding shares

2.18 Table D: Derivatives Instruments Record Layout

Complete reference data of all instruments listed on IDEM and available for trading on the trading date indicated in the file name.

Field Name	Datatype	Values Description
NextTradingDate	number int8	Trading day in YYYYMMDD format
ISINCode	char(12)	Instrument ISIN code
DerivativesInstrumentTradingCode	char(30)	External Symbol (equivalent of series name in previous Borsa systems)
UnderlyingISINCode	char(12)	Underlying ISIN code
ProductCode	char(30)	Alphanumeric underlying security code
ExpirationDate	number int8	Expiration dati in YYYYMMDD format
StrikePrice	number int11 dec4	Strike price
LotMultiplier	number int11 dec4	Contract_size
UnderlyingType	char(1)	Type of underlying, possible vales
DerivativesInstrumentType	char(4)	Derivative type. Possible values are 0: Call 1: Put 3: Future
ExerciseStyle	char(1)	European or American : 0 : European 1 American
ContractType	char(6)	Indicates weather the instrument is an option or a future: O: Option F: Future

CorporateActionCounter	number int5	Indicates how often the series has been subjected to a corporate event (such as 0, 1, 2, 3, etc.) during its lifetime.
SymbolIndex	number int12	Instrument Symbol Index (ex SICO)
StrikePriceCurrency	char(3)	Currency of the nominal value for strike price
SettlementMethod	char(1)	Indication as to whether the financial instrument is settled physically or in cash: C: Cash P: Physical
UnderlyingSubtypeName	char(50)	Detailed type of underlaying
FirstTradingDate	Char(8)	Indicates the listing date on the Exchange of Reference
LastTradingDate	Char(8)	Last trading date
TickTableID_COB	number	Tick Table for Central Order Book
TickTableID_WSL	Number int3	Tick Table for Wholesales
TickTableID_RFC	Number int3	Tick Table for Request for Cross
MaxOrderQtyCall_COB	Number int3	Quantity limit for an incoming order in Call phase.
MaxOrderQtyContinuous_COB	Number int8	Quantity limit for an incoming order in Continuous phase
MaxOrderQtyCall_WSL	Number int8	Quantity limit for an incoming order in Call phase
MaxOrderQtyContinuous_WSL	Number int8	Quantity limit for an incoming order in Continuous phase
MaxOrderQtyCall_RFC	Number int8	Quantity limit for an incoming order in Call phase

MaxOrderQtyContinuous_RFC	Number int8	Quantity limit for an incoming order in Continuous phase
ExpiryCycle	Char (30)	Not yet present - Field will be added in Jan. Possible values: Individual months Group of months Weekly flexible Daily flexible

2.19 Table R: Derivatives Tick Tables Record Layout

Tick table file is mutuated by Optiq tick size and it is in xml format.

It contains file contains different tables defining the variable ticksizes used for trading activity. A table is composed of an index (identifying a table instance) with a list of price ranges that have corresponding ticksizes. A contract is associated to a table for each EMM it is tradable through. The link the file with file BRED_REFDATA_PLUS_INSTR_DER is TickTableID=TickSizeIndexID

Field	Short Description	Format	Len
DerivativesTickSizes			
Tick Size Index ID	ID of the tick size table available in the Tick Table file.	Numerical ID	2
Tick Table Name	Name of the tick size table available in the Tick Table file.	Text	75
Tick Factor Max Period	Indicator expressed in Month. Instrument whose Time To Expiry are lower than the indicator are impacted by the TickFactor (to be calculated with Ratio / Multiplier Decimals)	Numerical	4
Tick Factor	Tick factor applied to update the TickSize for more liquid instruments available in the Tick Table file (to be calculated with Ratio / Multiplier Decimals).	Numerical	8

DerivativesTickSize			
Minimum Price	Minimum Price of the order.	Price	8
Tick Size	Tick Size applied between the current Minimum Price and the next Minimum Price.	Price	8
/DerivativesTickSize			
/DerivativesTickSizes			

2.20 Table V: Rectified Series Record Layout

File RectifiedSeries_IDEM_YYYYMMDD.dat substitute the adjusted series file and it has a fixed length record type. With Optiq migration the rectified series will no longer change ISIN (SOLA behaviour before migration) but will be identified with a new external identifier.

Header record (144 bytes)

CAMPO	TIPO	LUN.	VALORE
DATA CREAZIONE	A	8	Format aaaammgg
NUMERO DI SERIE RETTIFICATE	N	4	
TIPO TRASMISSIONE	N	1	2
FILLER	A	131	

Record format (144 bytes)

CAMPO	TIPO	LUN.	VALORE
CODE ISIN SERIE	A	12	'IT'+char(10)
STRIKE PRICE (NEW)	N	15(11,4)	Format iiiiiiiiiiidddd
NEW SERIE NAME (NEW)	A	32	
CONTRACT SIZE (NEW)	N	7(5,2)	Format iiiiidd
CODE ISIN SOTTOSTANTE	A	12	'IT'+char(10)
DATA INIZIO VALIDITA	A	8	Format aaaammgg
FILLER	A	58	

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