

JNX Data File Formats

Version 2.00

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1 Introduction

This document describes the **data format** of the following files provided by Japannext over its **SFTP** service:

- Stock Master Data File
- Base Price Data File
- EOD Data File
- U-Market Stock & Price Data File
- Master File
- Tick Data File
- ITCH Binary Data File

Note: The **Master File** is also available at www.japannext.co.jp/en/trading.

For further information and inquiries, contact Japannext Technical Support at ito@japannext.co.jp.

2 File Format

Files are provided in **CSV** or **JSON** format, with fields delimited by semicolons (;) or commas (,).

3 Stock Master Data File

A **Japannext Stock Master Data** file is available for each trading session. The file name format is **JNX_ST_MASTER_YYYYMMDD.csv**, where YYYYMMDD is the file generation date.

Note: The file is composed of a single header line, zero or more data lines, and a single trailer line. The fields in each line are delimited by a semicolon (;) and described in the following sections.

3.1 Header

Name	Type	Length	Comments
Data Type Flag	String	1	Value: H = Header
File Creation Date	String	8	YYYYMMDD format.
File Creation Time	String	6	HHMMSS format.

3.2 Data line

Name	Type	Length	Comments
Data Type Flag	String	1	Value: D = Data
Stock Code	String	4	Securities Identification Code Committee (SICC) code.
ISIN Code	String	12	International Securities Identification Number (ISIN).

Stock Short Name	String	24	Stock short name.
Stock Short Name	String	24	Stock short name.
Primary Exchange	String	1	Value: 0 = Tokyo Stock Exchange
Negotiable Margin Issue Flag	String	1	Negotiable margin issue.
Trade Suspension Flag	String	1	Indicates if a stock is suspended for a day by Japannext.
Standardized Margin Issue Flag	String	1	Standardized margin issue.
Margin Restriction Flag	String	1	Values: 1 = Japannext increased collateral issue 2 = Japannext daily publicized stock 3 = (not used) 4 = (not used) 5 = TSE restricted issue 6 = Japannext restricted issue
Loan Stock Flag	String	1	Values: 1 = Japannext loan transaction issue 2 = Japannext money loan transaction issue (buy side of margin transaction)
Loan Restriction Flag	String	1	Values: 1 = Japannext restricted stock loan application issue 2 = Japannext precaution notice stock loan issue
Delisting Flag	String	8	Primary exchange delisting date in YYYYMMDD format.
Lot Size	String	8	Trading lot size.

3.3 Trailer line

Name	Type	Length	Comments
Data Type Flag	String	1	Value: T = Trailer
Data Count	String	9	Row count excluding header and trailer.

4 Base Price Data File

A **Japannext Base Price Data** file is available for each trading session. The file name format is **JNX_B_PRICE_YYYYMMDD.csv**, where YYYYMMDD is the file generation date.

Note: The file is composed of a single header line, zero or more data lines, and a single trailer line. The fields in each line are delimited by a semicolon (;) and described in the following sections.

4.1 Header

Name	Type	Length	Comments
Data Type Flag	String	1	Value: H = Header
File Creation Date	String	8	YYYYMMDD format.
File Creation Time	String	6	HHMMSS format.

4.2 Data line

Name	Type	Length	Comments
Data Type Flag	String	1	Value: D = Data
Stock Code	String	4	Securities Identification Code Committee (SICC) code.
Stock Short Name	String	24	Stock short name.
Stock Short Name	String	24	Stock short name.
Base Price	String	12	Base price at Japannext.
Primary Exchange Reference Price	String	12	Base Price on primary exchange.

4.3 Trailer line

Name	Type	Length	Comments
Data Type Flag	String	1	Value: T = Trailer
Data Count	String	9	Row count excluding header and trailer.

5 EOD Data File

A **Japannext EOD Data** file (reconciliation file) is available after each trading session. The file name format is **JNX_EOD_YYYYMMDD.csv**, where YYYYMMDD is the file generation date.

Note: The file is composed of a single header line, zero or more data lines, and a single trailer line. The fields in each line are delimited by a semicolon (;) and described in the following sections.

5.1 Header

Name	Type	Length	Comments
Data Type Flag	String	1	Value: H = Header
File Creation Date	String	8	YYYYMMDD format.
File Creation Time	String	6	HHMMSS format.

5.2 Data line

Name	Type	Length	Comments
Data Type Flag	String	1	Value: D = Data
Trade Date	String	8	YYYYMMDD format.
Board Name	String	4	Values: DAY = J-Market Daytime Session NGHT = J-Market Nighttime Session DAYX = X-Market DAYU = U-Market
Institution Code	String	8	Institution Code provided by JASDEC. Value is '000' + firm code.
Session ID	String	20	Trading session ID provided by Japannext.
Sub ID	String	10	SenderSubID.
Trade No	String	8	Trade number.
Match Number	String	30	Match number (YYYYMMDD-XXXXXXXXXX format).
Order No	String	8	Order number.
Order No Suffix	String	6	Order number suffix.
Stock Code	String	4	Securities Identification Code Committee (SICC) code.
Side Flag	String	1	Values: 1 = Buy 2 = Sell 5 = Short sell 6 = Short sell exempt
Price	String	10	Executed Price.
Quantity	String	9	Executed Quantity.
Account Type ID	String	1	Values: A = Agency P = Principal

Client Order ID	String	40	Unique identifier for the order as assigned by firm.
Execution Time	String	18	YYYY-MM-DD HH:MM:SS format.
Liquidity Flag	String	1	Values: M = Maker T = Taker

5.3 Trailer line

Name	Type	Length	Comments
Data Type Flag	String	1	Value: T = Trailer
Data Count	String	9	Row count excluding header and trailer.

6 U-Market Stock & Price Data File

A **Japannext U-Market Stock & Price Data** file is available before each trading session. The file name format is **DAYU_ST_MASTER_YYYYMMDD.csv**, where YYYYMMDD is the file generation date.

Note: The file starts with a header row which lists the field names for each column. Each line is delimited by a comma (,).

6.1 Data Line

Name	Type	Length	Comments
SYMBOL	String	4	Securities Identification Code Committee (SICC) code.
EXCHANGE_CODE	String	1	Primary exchange code. T = Tokyo Stock Exchange
ISIN	String	12	International Securities Identification Number (ISIN).
FULLNAME_EN	String	72	Stock full name.
NAME	String	26	Stock short name.
NO_OF_SHARES	String	18	Number of shares.
TRADING_UNIT	String	8	Trading unit.
BASE_PRICE	String	21	Base price.
LOWER_LIMIT	String	21	Lower price limit.
UPPER_LIMIT	String	21	Upper price limit.

7 Master File

A **Master** file is available before each trading session in JSON format. The file name format is **JNX_MASTER_YYYYMMDD.json**, where YYYYMMDD is the file generation date.

The **Master** file consists of three types of messages:

- **TradeDate**—a single message specifying the trade date for all data in the file.
- **TickSize**—multiple messages defining price tick size tables in the same manner as the JNX ITCH feed.
- **Orderbook**—multiple messages providing information about tradable instruments.

7.1 Trade Date

Name	Type	Comments
MessageType	String	Value: TradeDate = Trade date message
TradeDate	String	YYYYMMDD format.

7.2 Price Tick Size

Name	Type	Comments
MessageType	String	Value: TickSize = Price Tick Size Message
PriceTickSizeTableId	Integer	Price tick size table identifier. Note: This is not the same as the Price Tick Size Table Id field in the ITCH Price Tick Size Message.
PriceTickSize	Integer	Price tick size.
PriceStart	Integer	Start of price range for this price tick size. PriceDecimals value is '1'.

7.3 Orderbook Directory

Name	Type	Comments
MessageType	String	Value: Orderbook = Orderbook Directory Message
OrderbookId	String	Securities Identification Code Committee (SICC) code.
OrderbookCode	String	International Securities Identification Number (ISIN).
Group	String	Orderbook group identifier. Values: DAY = J-Market Daytime Session NGHT = J-Market Nighttime Session DAYX = X-Market DAYU = U-Market
RoundLotSize	Integer	Number of shares representing a round lot.
PriceTickSizeTableId	Integer	Price tick size table identifier. Note: This is not the same as the Price Tick Size Table Id field in the ITCH Price Tick Size Message.
PriceDecimals	Integer	Number of decimal places in price fields. Value is '1'.
StockShortName	String	Stock short name.

PrimaryExchange	String	Value: T = Tokyo Stock Exchange.
NegotiableMarginIssueFlag	String	Negotiable margin issue.
TradeSuspensionFlag	String	Indicate if a stock is suspended for a day by Japannext.
StandardizedMarginIssueFlag	String	Standardized margin issue.
MarginRestrictionFlag	String	Values: 1 = Japannext increased collateral issue 2 = Japannext daily publicized stock 3 = (not used) 4 = (not used) 5 = TSE restricted issue 6 = Japannext restricted issue
LoanStockFlag	String	Values: 1 = Japannext loan transaction issue 2 = Japannext money loan transaction issue (buy side of margin transaction)
LoanRestrictionFlag	String	Values: 1 = Japannext restricted stock loan application issue 2 = Japannext precaution notice stock loan issue
DelistingFlag	String	Primary exchange delisting date in YYYYMMDD format.
OutstandingShares	String	Number of company's shares available for trading.
BasePrice	Integer	Base price at Japannext. PriceDecimals value is '1'.
MaxPriceLimit	Integer	Upper price limit.
MinPriceLimit	Integer	Lower price limit.

Note: Since the Master file is created before the trading session begins, there is a possibility of a discrepancy in IPO BasePrice.

8 Tick Data File

The **Tick Data** file provides the five best limits and trades for all tradable instruments at Japannext.

Each **Tick Data** file is a compressed CSV file. The file name format is **YYYYMMDD_BOARD_TICKDATA.csv.bz2**, where YYYYMMDD is the file generation date and BOARD denotes the orderbook group identifier (e.g., DAY, DAYX, NGHT).

Name	Description
EntryTime	Message time stamp (YYYY-MM-DD HH:MM:SS.MMM)
SecurityCode	Securities Identification Code Committee (SICC) code
MessageType	0 for a trade; 1 to 5 for best limit 1 to 5
BidPrice	0 when MessageType = 0
BidQuantity	0 when MessageType = 0
OfferPrice	0 when MessageType = 0
OfferQuantity	0 when MessageType = 0
TradePrice	0 when OfferQuantity = 0 and MessageType > 0
TradeQuantity	0 when OfferQuantity = 0 and MessageType > 0

Note: A BidQuantity or OfferQuantity of '0' denotes no bid/offer at the stated limit; for a limit of '1', '0' denotes an empty order book.

9 ITCH Binary Data File

The **ITCH Binary Data** file contains raw ITCH data, structured as a repeated sequence of 2-byte Message Length values followed by the corresponding ITCH messages. For detailed information on decoding the ITCH messages, please refer to the **ITCH Protocol Specifications** at www.japannext.co.jp/library.

Name	Type	Length	Comments
Message Length	Integer	2	Length of ITCH Message
ITCH Message		variable	ITCH Message

10 Revision History

Date	Version	Description
2025-09-30	2.00	Document format has been revamped. Parts of the text have been reworded to improve readability. Removed section Instrument Ranking Data Files. Removed Sapporo, Nagoya, and Fukuoka options from Primary Exchange in Stock Master Data File. Replaced "Quick code" with "Securities Identification Code Committee (SICC) code". Section numbers changed to accommodate new format. No other changes made to technical content.
2024-10-18	1.6	Added ITCH binary Data File.
2023-12-26	1.5	Added Sapporo, Nagoya, and Fukuoka Exchanges to the Primary Exchange Data line in Stock Master Data File.
2023-09-26	1.4	Added note that BasePrice might be different for IPOs Added Tickdata File
2023-07-19	1.3	Trade Date message added to Master File. MessageType for Price Tick Size message changed from Ticksiz to TickSize. Unified Alpha and Char types into String type for all files. NegotiableMarginIssueFlag type changed from integer to String in Orderbook Directory message of Master File. Fixed value for PrimaryExchange in Master File. Removed length column in Instrument Ranking Data Files. Added missing comments for Data Lines columns in CSV files. Fixed comment in Base Price file for Primary Exchange Reference Price column.
2023-04-03	1.2	Added Master JSON File.
2022-05-20	1.1	Updated 'U-market Stock & Price Data File' name. Removed the details of the decommissioned 'Stock Group Data File'. Minor grammar corrections.
2021-10-27	1.0	Initial version.