

Revision History

Effective Date	Version	Description
2023-09-18	1.0	Create document

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1. Introduction

1.1 Overview

A service that enables listed companies to disclose information about their securities trading and news to investors or shareholders via their registered websites. Listed companies are able to develop IR websites themselves by receiving data directly from SET by calling RESTful API to retrieve only the real-time price information in JSON format.

1. Real-time security trading prices and SET Index
2. Real-time news and 3 months historical news of listed company

This service is available on Monday to Friday

- between 6:30 a.m. and 22:30 p.m. BKK time for real-time trading price.
- between 6:30 a.m. and 04:30 a.m. BKK time for news.

1.2 Authentication

1. Go to www.set.or.th/smartmarketplace.
2. Go to "API Key" in the left menu panel and login with your registered username/password.
3. Create your API key.
4. Use the created API key as a parameter to retrieve data via API.

2. Stock Quotation API

Description	<ul style="list-style-type: none"> To get latest quotation of specific stock list. <ul style="list-style-type: none"> Price, volume and value fields: provided with minimum 2 and up to 5 decimal digits. If there is no trade, price fields will be null and volume/value fields will be zero.
URL	Real-time: https://marketplace.set.or.th/api/public/realtime-data/stock Delay: https://marketplace.set.or.th/api/public/delay-data/stock
Method	GET
Header	api-key

Parameter	
1. market	<ul style="list-style-type: none"> List of market separated by comma without space. (SET,mai) This API will return all stocks in the specified market.
2. indexSector	<ul style="list-style-type: none"> List of index, industry or sector separated by comma without space. (ex. SET50,FINCIAL,BANK,INDUS-M) This API will return all stocks in the specified index, industry or sector.
3. securityType	<ul style="list-style-type: none"> List of security type separated by comma without space. (ex. CS,DWC,DWP) This API will return all stocks in the specified security type.
4. stockSymbol	<ul style="list-style-type: none"> List of stock symbol separated by comma without space. (ex. PTT,AOT,EGCO)
5. oddLotFlag	<ul style="list-style-type: none"> There are 2 possible values of oddLotFlag including "true" and "false" <ul style="list-style-type: none"> true = This API will return stocks in both main an odd-lot market false = This API will return only stocks in main market This parameter is optional. If this parameter is not specified, the default value is "false".
Remark	<ul style="list-style-type: none"> All possible values of market, index, industry, sector and security type can be found in appendix section. Price, AOM & trade report value: provided up to 5 decimal digits.

Properties

No.	Properties	Type	Format / Max Length	Description
1	time	String	YYYY-MM-DD "T" hh:mm:ss.SSSZ	Updated time (A date-time with a time-zone in the ISO-8601 calendar system, such as 2020-12-03T10:15:30.284+07:00)
2	symbol	String	20	Security symbol
3	fullName	String	255	Security full name
4	market	String	3	Market
5	securityType	String	3	Security type (Financial products) for the instrument <ul style="list-style-type: none"> - CS = Common Stock - CSF = Foreign Stock - PS =Preferred Stock - PSF = Preferred Foreign Stock - W = Warrant - TSR = Transferable Subscription Rights - DWC = Derivative Call Warrants - DWP = Derivative Put Warrants - DR = Depository Receipts - ETF = Exchange Traded Fund - UT = Unit Trust
6	industry	String	20	Industry symbol
7	sector	String	20	Sector symbol
8	prior	Numeric	Double	Prior closing price (If there is no trades yesterday, it will carry latest closing price)
9	open	Numeric	Double	Opening price of the day
10	project1	Numeric	Double	Projected open price (Morning session)
11	project2	Numeric	Double	Projected open price (Afternoon session)
12	high	Numeric	Double	Highest price of the day
13	low	Numeric	Double	Lowest price of the day

14	last	Numeric	Double	Last executed price
15	average	Numeric	Double	Average price
16	aomVolume	Numeric	Double	Accumulated auto-matching volume
17	aomValue	Numeric	Double	Accumulated auto-matching value
18	trVolume	Numeric	Double	Accumulated trade report volume
19	trValue	Numeric	Double	Accumulated trade report value
20	totalVolume	Numeric	Double	Accumulated total trading volume (this field always include both main and odd-lot market)
21	totalValue	Numeric	Double	Accumulated total trading value (this field always include both main and odd-lot market)
22	inav	Numeric	Double	Indicative NAV of ETF INAV information is available only for ETF securities
23	changeInav	Numeric	Double	- The difference between latest INAV and NAV of the previous day - INAV information is available only for ETF securities
24	percentChangeInav	Numeric	Double	- The percentage of difference between latest INAV and NAV of the previous day - INAV information is available only for ETF securities
25	timeInav	String	YYYY-MM-DD "T" hh:mm:ss.SSSZ	- INAV calculation time which is stamped from the AMC side (A date-time with a time-zone in the ISO-8601 calendar system, such as 2020-12-03T10:15:30.284+07:00) - INAV information is available only for ETF securities
26	bid	Array		#bid
27	offer	Array		#offer

#bid & #offer

No.	Properties	Type	Format / Max Length	Description
1	rank	Numeric	Integer	Rank number (rank 1-5)
2	price	Numeric	Double	Bid price or offer price (if this price is null, it means ATO or ATC order which not specify price)
3	volume	Numeric	Double	Bid of offer volume

Remark

- ATO (At-The-Open) is the buy or sell at the opening price orders during Pre-open period of both morning and afternoon session.
- ATC (At-The-Close) is the buy or sell at the closing price orders during Call market period.

3. Index Quotation API

Description	<ul style="list-style-type: none"> To get latest quotation of specific index Price, volume and value fields: provided up to 2 decimal digits. Each index is updated around every 15 seconds. There are some special cases as follows: <ul style="list-style-type: none"> For index without constituents such as MINE, <ul style="list-style-type: none"> Price fields will be null, volume/value fields will be zero. Time will be null during the day and will be updated after market closed. For index without trade, price fields will be null, volume/value fields will be zero.
URL	Real-time: https://marketplace.set.or.th/api/public/realtime-data/index Delay: https://marketplace.set.or.th/api/public/delay-data/index
Method	GET
Header	api-key

Parameter	
1. market	<ul style="list-style-type: none"> List of indices separated by comma without space. (SET,mai) This API will return all indices in the specified market.
2. indexSector	<ul style="list-style-type: none"> List of indices separated by comma without space <ul style="list-style-type: none"> Index (ex. SET,SET50,SETHD,mai) Industry/Sector (ex. FINCIAL,BANK,INDUS-M) - All possible values of index, industry/sector can be found in appendix section.

Specification

No.	Properties	Type	Format / Max Length	Description
1	time	String	YYYY-MM-DD "T" hh:mm:ss.SSSZ	Index time (A date-time with a time-zone in the ISO-8601 calendar system, such as 2020-12-03T10:15:30.284+07:00)
2	symbol	String	32	Index symbol
3	fullName	String	100	Index full name
4	prior	Numeric	Double	Prior closing index
5	open	Numeric	Double	Opening index of the day
6	high	Numeric	Double	Highest index of the day
7	low	Numeric	Double	Lowest index of the day
8	last	Numeric	Double	Last index
9	volume	Numeric	Double	Last volume
10	value	Numeric	Double	Last value
11	totalVolume	Numeric	Double	Accumulated volume
12	totalValue	Numeric	Double	Accumulated value

4. News API

Description	• To get real-time news and 3 months historical news of specific symbol
URL	https://marketplace.set.or.th/api/public/news/IR
Method	GET
Header	api-key

Parameter	
stockSymbol	List of stock symbols separated by comma without space. (ex. PTT,AOT,EGCO)

Specification

No.	Properties	Type	Format / Max Length	Description
1	news	Array		#news
2	deletedNews	Array		#deletedNews - In case there is a news deletion event, the deleted news will be removed from #news object and shown in #deletedNews object instead. SET would like to ask members to remove the deleted news from member's database.

#news

No.	Properties	Type	Format / Max Length	Description
1	publishDate	String	YYYY-MM-DD "T" hh:mm:ssZ	News publish date and time. (A date-time with a time-zone in the ISO-8601 calendar system, such as 2023-08-31T21:29:36+07:00)
2	newsId	String	20	Unique News ID, used for checking duplicated and deleted news
3	newsGroup	String	20	News announcement group
4	reportType	String	5	The type of report - NWS = News - FIN = Financial Status - ANN = Annual Report - F56 = Form56-1
5	newsType	String	2	The type of news - "" = Normal - 41 = SET News Release - 45 = TFEX News Release - 51 = Form 45-1 / Form 45 - 52 = Form 45-2 - 53 = Form 45-3 - 59 = NAV - 61 = Investor Alert News - 62 = Reprimand News - 71 = Contract Adjustments
6	language	String	1	The language the news is presented in - T = Thai - E = English - B = Both
7	symbol	Array		#symbol
8	marketId	String	5	The market the news applies to - SET - MAI - TFEX
9	senderName	String	20	The sender symbol including regulator, issuer and listed company
10	headLine	String	250	The headline for the news

11	newsFileName	String	50	The News or report file name. It can be plain text or zip file
12	pdfFileName	String	50	- The PDF file name. - Available for reportType = NWS only
13	period	String	YYYY	- Report period (year) - Available for reportType = FIN, ANN and F56
14	quarter	Numeric	Integer	The quarter the financial statements represent - 1 = Q1 - 2 = Q2 - 3 = Q3 - 4 = Q4 - 6 = Half Year - 9 = Annual Available for reportType = FIN only, For other reportType, 0 will be sent out.
15	dateAsOf	String	YYYY-MM-DD "T" hh:mm:ssZ	- Report as of date (A date-time with a time-zone in the ISO-8601 calendar system, such as 2023-08-31T21:29:36+07:00) - Available for reportType = FIN, ANN and F56
16	finStmtType	String	1	The financial account type - U = Separate - C = Consolidated and Separate - B = Equity method and Separate Available for reportType = FIN only
17	finStmtStatus	String	1	The financial statements status - U = Unreviewed - R = Reviewed - A = Audited Available for reportType = FIN only
18	templateCodes	Array		#templateCodes

#symbol

No.	Properties	Type	Format / Max Length	Description
1	symbol	String	20	Instrument symbols which this news message applies

#templateCodes

No.	Properties	Type	Format / Max Length	Description
1	templateCodes	String	2	News template codes

#deletedNews

No.	Properties	Type	Format / Max Length	Description
1	publishDate	String	YYYY-MM-DD "T" hh:mm:ssZ	News publish date and time. (A date-time with a time-zone in the ISO-8601 calendar system, such as 2023-08-31T21:29:36+07:00)
2	newsId	String	20	Unique News ID, used for checking duplicated and deleted news

5. Appendix

All possible values of market, index, industry, sector, security type and news template code

List	Code
Market	<ul style="list-style-type: none"> - SET - mai
Index	<ul style="list-style-type: none"> - SET50 = SET50 Index - SET100 = SET100 Index - sSET = sSET Index - SETCLMV = SET CLMV Exposure Index - SETHD = SET High Dividend 30 Index - SETESG = SET ESG Index (Effective 2023-11-06) - SETWB = SET Well-Being Index - SET50FF = SET50 Free Float Adjusted Market Capitalization Weighted Index (Effective 2024-01-03) - SET100FF = SET100 Free Float Adjusted Market Capitalization Weighted Index (Effective 2024-01-03)
Industry/Sector	<ul style="list-style-type: none"> - AGRO = Agro & Food Industry - AGRI = Agribusiness - FOOD = Food & Beverage - CONSUMP = Consumer Products - FASHION = Fashion - HOME = Home & Office Products - PERSON = Personal Products & Pharmaceuticals - FINCIAL = Financials - BANK = Banking - FIN = Finance & Securities - INSUR = Insurance - INDUS = Industrials - AUTO = Automotive - IMM = Industrial Materials & Machinery - PAPER = Paper & Printing Materials - PETRO = Petrochemicals & Chemicals - PKG = Packaging - STEEL = Steel and Metal Products - PROPCON = Property & Construction - CONMAT = Construction Materials - PROP = Property Development - PF&REIT = Property Fund & REITs - CONS = Construction Services - RESOURC = Resources - ENERG = Energy & Utilities - MINE = Mining - SERVICE = Services - COMM = Commerce - HEALTH = Health Care Services - MEDIA = Media & Publishing - PROF = Professional Services - TOURISM = Tourism & Leisure - TRANS = Transportation & Logistics - TECH = Technology - ETRON = Electronic Components - ICT = Information & Communication Technology - AGRO-M = Agro & Food Industry (mai) - CONSUMP-M = Consumer Products (mai) - FINCIAL-M = Financials (mai) - INDUS-M = Industrials (mai) - PROPCON-M = Property & Construction (mai) - RESOURC-M = Resources (mai)

	<ul style="list-style-type: none"> - SERVICE-M = Services (mai) - TECH-M = Technology (mai)
Security Type	<ul style="list-style-type: none"> - CS = Common Stock - CSF = Foreign Stock - PS = Preferred Stock - PSF = Preferred Foreign Stock - W = Warrant - TSR = Transferable Subscription Rights - DWC = Derivative Call Warrants - DWP = Derivative Put Warrants - DR = Depository Receipts - ETF = Exchange Traded Fund - UT = Unit Trust
News Template Code	<ul style="list-style-type: none"> - 01 = Schedule of Shareholders' meeting - 02 = Dividend payment / Omitted dividend payment - 03 = Increasing Capital - 04 = Issued Convertible Securities - 05 = Paid up Capital Reduction - 06 = Changing the Par Value - 07 = Shares Repurchase - 08 = Resale of Share Repurchase - 09 = Tender Offer - 11 = Notification the exercise of securities / Notification the last exercise of securities - 12 = Interest Payment of Debentures - 13 = Change of director or Executive - 14 = Shareholders meeting's resolution - 15 = MD&A (Management Discussion and Analysis) - 16 = IFA's Opinion - 17 = Clarified information as SET requested - 18 = Listing - 19 = Additional Listed Securities - 20 = Change of Sector/Market - 21 = Sign Posted - 22 = Sign Lifted - 23 = Investor reminding - 24 = Dissemination of operating results via SET's disclosure system - 25 = Delisting - 26 = Change in Par Value - 27 = Decreasing of paid-up Capital - 28 = Change of security's name - 29 = Stock included in / excluded from Index calculation - 30 = Change of the ceiling and floor price - 31 = Stabilization - 32 = End of stabilization Period - 33 = Changes of board lot - 34 = Cash balance - 35 = Financial statements commands from the SEC - 36 = SEC News - 37 = DW Cash balance - 38 = Investor reminding/Information analysis - 41 = SET News Release - 42 = mai News Release - 43 = TSD News Release - 44 = STT (SETTRADE) News Release - 45 = TFEX News Release - 46 = Renewal of the Share Certificate - 47 = Issuing new share certificate - 48 = Appointment of the Securities Registrar - 51 = Form 45-1 - 52 = Form 45-2

- 53 = Form 45-3
- 59 = Report on Net Assets Value (NAV) per unit
- 60 = Trading Alert List
- 61 = Investor Alert News
- 62 = Reprimand News
- 63 = SET requests to clarify news
- 64 = Request for trading suspension
- 65 = SET requests to clarify Trading Alert List
- 66 = Operating result
- 67 = Connected transaction
- 68 = Acquisition and disposition of assets
- 69 = Capital reduction of Fund
- 71 = Contract Adjustments
- 72 = Capital Increase
- 74 = Form for Reporting Share Repurchases
- 75 = Report Form for the Resale of Shares
- 76 = Right Adjustment/No Right Adjustment
- 77 = Report on the DW Distribution
- 78 = Pre-emptive Right
- 79 = Removal of causes of possible delisting
- 80 = Position Limit
- 81 = Rights to Subscribe for Additional NVDRs
- 83 = The results of sale of shares (F53-5)
- 84 = Schedule of Unit-holders' Meeting
- 85 = Meeting schedule of debenture holders
- 86 = Resolution of debenture holders
- 87 = Unit-holders' resolution
- 89 = The results of the sale of Warrants/TSR (F53-5)
- 90 = Right exercise of DW
- 91 = Right for subscription securities
- 92 = Right adjustment of DW/No right adjustment of DW
- 93 = Dividend payment / Omitted dividend payment
- 94 = Report on the result of sale of investment unit/trust unit (F53-5)
- 95 = The results of the exercise of Warrants/TSR (F53-5)
- 96 = Report on the result of exercise of other convertible securities (F53-5)
- 97 = Adjustment of the number and the exercise
- 98 = Trading / Termination Commencement
- 99 = SET Circuit Breaker
- A0 = Request for trading suspension of DW
- A1 = TFEX Circuit Breaker
- A2 = TFEX trading halt
- A3 = Sign C posted
- A4 = Sign C remained
- A5 = Sign C lifted
- A6 = Change CFO / Chief Accountant
- A7 = Report on the result of exercise of DW (F53-5)
- A8 = Settlement Price and Net Cash Settlement
- A9 = Summary of operating result form (F-45)
- B0 = Information Memorandum
- B1 = Change of Exercise date / Last trading date
- B2 = Changes in the constituents of SET50 and SET100 between the periodic review
- B3 = Request for trading suspension of DR
- B4 = Notification for underlying securities' dividend payment
- B5 = Notification for underlying securities' Right Offering
- B6 = Notification for underlying securities have trading suspension
- B7 = Notification for underlying securities to clarify news
- B8 = Notification for not performing the duty of market maker
- B9 = Dividend payment
- C1 = Summary of operating result form (F-45) - investment unit/trust unit
- C2 = Notification for the duty of market maker

	- C3 = Eligible Bonds
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