



# **API Manual** **Bond Info.**

**The Thai Bond Market Association**

November 11, 2023

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## Bond features

**GET** /api/v1/bondinfo/bondfeature

**Description:** Features for all bonds that registered with ThaiBMA since the auction, an issue that has not matured. (Not consider bond outstanding), Excluding bonds registered for Mark-to-Market.

**Frequency:** Daily

**Release schedule:** (0.05 a.m., 12.05, 3:30, and 4:30 p.m.)

**Remark:**

1. For an Inflation-linked bond, the yield (%) shown is real yield (%), and the coupon rate is real coupon (%). The current Par and Outstanding Value are unadjusted by inflation.

2. The "Duration" column is a modified duration that is calculated based on the previous date of mark-to-market that is shown on the file.

**Responses:**

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

**Details:**

| Parameter name       | Data type | Length | Description                    | Example   |
|----------------------|-----------|--------|--------------------------------|---|
| <b>asof</b>          | datetime  | 27     | Data as of yyyy-mm-dd          | 2023-11-20T09:01:40.2570000   |
| <b>symbol</b>        | string    | 15     | ThaiBMA Bond Symbol            | A241A   |
| <b>isin_th</b>       | string    | 15     | ISIN Code (Thailand)           | TH0770034104  |
| <b>isin_en</b>       | string    | 15     | ISIN Code (International)      | -   |
| <b>issue_name_th</b> | string    | 255    | Full name of bond in Thai      | หุ้นกู้มีประกันของบริษัท อารีญา พรอพเพอร์ตี้ จำกัด (มหาชน) ครั้งที่ 2/2564 ครบกำหนดไถ่ถอนปี พ.ศ. 2567 ซึ่งผู้ออกหุ้นกู้มีสิทธิไถ่ถอนหุ้นกู้ก่อนครบกำหนดไถ่ถอน |
| <b>issue_name_en</b> | string    | 255    | Full name of bond in English   | SECURED DEBENTURES OF AREEYA PROPERTY PUBLIC COMPANY LIMITED NO. 2/2564 DUE B.E. 2567 WITH THE ISSUER'S RIGHT OF EARLY REDEMPTION                             |
| <b>issuer_name</b>   | string    | 255    | Full name of issuer in English | AREEYA PROPERTY PUBLIC COMPANY LIMITED  |

| Parameter name              | Data type | Length  | Description   | Example   |
|-----------------------------|-----------|---------|---|---|
| <b>issuer</b>               | string    | 15      | Issuer abbreviation name in English   | A   |
| <b>company_rating</b>       | string    | 50      | Issuer company rating/ rating agency  | B/TRIS  |
| <b>company_rating_date</b>  | datetime  | 19      | Issuer rating date (yyyy-mm-dd)   | 2023-11-03T00:00:00   |
| <b>bond_type</b>            | string    | 15      | Bond type by the issuer<br>(CP, CORP, GB, GRE, SA, SOE, TB, FB, EUR, CNY, JPY or USD)                             | CORP  |
| <b>principal_payment</b>    | string    | 30      | Bond type by principal payment<br>(Bullet Issue, Amortizing Issue, Perpetual Issue, or Conditional Payment Issue) | Bullet Issue  |
| <b>bond_structure</b>       | string    | 30      | Bond structure<br>(Plain Vanilla Issue, Securitization Issue, Structured Note, or Other Structured Issue)         | Plain Vanilla Issue   |
| <b>debt_instrument_type</b> | string    | 20      | Debt instrument type<br>(BE, DB, or PN)   | DB  |
| <b>secure_type</b>          | string    | 20      | Secured type<br>(Secured or Unsecured)  | Secured   |
| <b>secure_by</b>            | string    | 50      | Secured By<br>(Full Asset, Full Guarantor, Full Asset + Full Guarantor, Partial Asset or Partial Guarantor)       | Full Asset  |
| <b>currency</b>             | string    | 3       | Currency code<br>(THB, CNY, USD, JPY, or EUR)   | THB   |
| <b>collateral</b>           | string    | 255     | Guaranteed collateral   | Lands and Property valued THB 2,513,620,100.00.<br>The issuer will remain the value of collateral to debenture not less than 1.00:1.00. |
| <b>init_par</b>             | number    | (18,6)  | Par as of issue date (Baht)   | 1000  |
| <b>current_par</b>          | number    | (18,10) | Current par (Baht)  | 835   |
| <b>issue_size</b>           | number    | (18,0)  | Total amount of issued bond (Million Baht)  | 1552.8  |
| <b>current_outs_size</b>    | number    | (18,10) | Current outstanding size  | 1296.588  |
| <b>ttm</b>                  | number    | (6,6)   | Time to maturity: as of time until expiration (years)   | 0.153424  |
| <b>issued_date</b>          | datetime  | 19      | Bond issue date (yyyy-mm-dd)  | 2021-07-08T00:00:00   |
| <b>maturity_date</b>        | datetime  | 19      | Bond maturity date (yyyy-mm-dd)   | 2024-01-08T00:00:00   |
| <b>issue_term</b>           | number    | (6,6)   | Issue term until expiry date (years)  | 2.504109  |

| Parameter name           | Data type | Length | Description  | Example             |
|--------------------------|-----------|--------|--|---------------------|
| <b>register_date</b>     | datetime  | 19     | Bond registered date at ThaiBMA<br>(yyyy-mm-dd)  | 2021-07-08T00:00:00 |
| <b>first_coupon_date</b> | datetime  | 19     | Payment date of nearest coupon date<br>(yyyy-mm-dd)  | 2024-01-08T00:00:00 |
| <b>xi_date</b>           | datetime  | 19     | XI date  | 2023-12-25T00:00:00 |
| <b>reset_date</b>        | datetime  | 19     | Interest rate change date with floating<br>rate bonds  |                     |
| <b>coupon_payment</b>    | string    | 20     | Bond type by coupon payment<br>(Condition Coupon, Fixed Coupon,<br>Floating Coupon, Mixed Coupon, or<br>Zero Coupon) | Fixed Coupon        |
| <b>sector</b>            | string    | 10     | Issuer business sector   | PROP                |
| <b>call_option</b>       | boolean   |        | Bond is a callable bond or not?<br>(TRUE/FALSE)  | TRUE                |
| <b>put_option</b>        | boolean   |        | Bond is it a puttable bond or not?<br>(TRUE/FALSE)   | FALSE               |
| <b>distribution_type</b> | string    | 10     | Distribution type<br>(HNW, II, PG, PO, PP10, PP13, PP13e, P/P,<br>PP17, PPEXX, PPCC or RO)                           | PP13e               |
| <b>claim_type</b>        | string    | 50     | Claim type<br>(Senior, Subordinated or Hybrid)   | Senior              |
| <b>guarantee_type</b>    | string    | 20     | Guarantee type   | FALSE               |
| <b>bullet_type</b>       | boolean   |        | Bond is a bullet bond or not?<br>(TRUE/FALSE)  | TRUE                |
| <b>amortizing_type</b>   | boolean   |        | Bond is it an amortizing bond or not?<br>(TRUE/FALSE)  | FALSE               |
| <b>convertible_type</b>  | boolean   |        | Bond is a convertible bond or not?<br>(TRUE/FALSE)   | FALSE               |
| <b>structure_type</b>    | boolean   |        | Bond is a structured bond or not?<br>(TRUE/FALSE)  | FALSE               |
| <b>stepup_type</b>       | boolean   |        | Bond is a step-up bond or not?<br>(TRUE/FALSE)   | FALSE               |

| Parameter name             | Data type | Length | Description  | Example                    |
|----------------------------|-----------|--------|--|----------------------------|
| <b>current_xi_period</b>   | number    | 2      | Number of dates in the XI period (For XI Date calculation) that will be<br>1. Positive integer in case of Bond that can specify the XI period.<br>2. -1 in case of “Not specify” the XI period of Bond in the ThaiBMA system<br>** current_xi_period will have value since the issue date of Bond (For auction period value = 1)                                 | 14                         |
| <b>current_coupon_freq</b> | number    | 2      | Coupon payment frequency in the current period will be<br>1. Positive integer (0, 1, 2, 4, 12) in case of Bond that can specify the coupon payment frequency.<br>2. -1 in case of “Not specify” the coupon payment frequency of Bond in the ThaiBMA system<br>** current_coupon_freq will have value since the issue date of Bond (For auction period value = 1) | 4                          |
| <b>coupon_rate</b>         | number    | (6,6)  | Current coupon rate  | 7                          |
| <b>registrar</b>           | string    | 255    | Abbreviation name of registrar in English  | CIMBT                      |
| <b>underwriter</b>         | string    | 255    | Abbreviation name of underwriter in English  | ASL,BYD,DAOLS,MP,PI,YUANTA |
| <b>bondholderrept</b>      | string    | 255    | Abbreviation name of bondholder representatives in English   | ASPS                       |
| <b>financial_advisors</b>  | string    | 255    | Abbreviation name of financial advisors in English   | -                          |
| <b>guarantor</b>           | string    | 255    | Abbreviation name of guarantors in English   |                            |
| <b>calculation_method</b>  | string    | 20     | Calculation method of cash flow  | 30/360                     |
| <b>TRIS</b>                | string    | 10     | Local issue rating by TRIS Rating  |                            |
| <b>FITCH</b>               | string    | 10     | Local issue rating by FITCH (Thailand)   |                            |
| <b>MOODY</b>               | string    | 10     | International Issue rating by Moody  |                            |
| <b>SNP</b>                 | string    | 10     | International Issue rating by S&P  |                            |
| <b>FITCHINTER</b>          | string    | 10     | International Issue rating by FITCH International  |                            |
| <b>RANDI</b>               | string    | 10     | International Issue rating by R&I  |                            |
| <b>index_ratio</b>         | number    | (6,6)  | Index ratio  |                            |

| Parameter name             | Data type | Length | Description   | Example   |
|----------------------------|-----------|--------|---|---|
| <b>index_ratio_asof</b>    | datetime  | 19     | Index ratio as of (yyyy-mm-dd)  |   |
| <b>remark</b>              | string    | 5000   | Remark for rating action and others   | <p>Redemption of Debentures:<br/>The issuer may redeem the debentures with a single payment at maturity or may call the partial or whole amount of debentures prior to the maturity date according to the following conditions:</p> <p>(a) The call date is any dates on or after October 8, 2021.</p> <p>(b) The issuer may call at least 5% of outstanding.</p> <p>(c) The issuer is going to submit the letter for representing its desiration of early redemption by registered mail and airmail to the bondholder greater than 30 days but not more than 60 days before redemption date.</p> |
| <b>risk_level</b>          | number    | 1      | Bond risk level value 1 to-8  | 8   |
| <b>duration</b>            | number    | (6,6)  | Modified duration   | 0.147695  |
| <b>sustainability_goal</b> | string    | 20     | The Objective for the Sustainability Goal<br>(Green Bond, Social Bond, or Sustainability Bond)  |   |
| <b>listed_status</b>       | string    | 20     | Issuer company listed in SET or not?<br>(SET, Non-listed)                                       | SET   |
| <b>korjor</b>              | string    | 20     | The definition of distribution type follows with Kor Jor. 39/2564 or not?<br>(Kor Jor. 39/2564) |   |
| <b>event_sign</b>          | string    | 20     | Event sign status<br>(RS, DP, DNP, REH, BANKRUPT, IC, RI, FP, or FPG)                           |   |

## Cash flow

**GET** </api/v1/bondinfo/issue-cashflow>

**Description:** Cash flow for all active bonds that registered with ThaiBMA (Consider for Bond current outstanding > 0), Excluding bonds registered for Mark-to-Market.

**Frequency:** Daily

**Release schedule:** Daily, Real-time data.

**Remark:** The coupon (%) of Inflation Linked Bond is a real coupon (%). Interest, par value, principal, and total payment values are unadjusted by inflation.

### Responses:

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

### Details:

| Parameter name     | Data type | Length  | Description                           | Example                     |
|--------------------|-----------|---------|---------------------------------------|-----------------------------|
| <b>cashflow_no</b> | number    | 5       | Cash flow number                      | 1                           |
| <b>asof</b>        | datetime  | 27      | Data as of yyyy-mm-dd                 | 2023-11-20T11:02:43.5630000 |
| <b>symbol</b>      | string    | 15      | ThaiBMA bond symbol                   | A241A                       |
| <b>coupon_date</b> | datetime  | 19      | Coupon date (yyyy-mm-dd)              | 2021-10-08T00:00:00         |
| <b>xi_date</b>     | datetime  | 19      | XI date (yyyy-mm-dd)                  | 2021-09-27T00:00:00         |
| <b>par</b>         | number    | (18,10) | Par                                   | 1000                        |
| <b>coupon_rate</b> | number    | (6,6)   | Coupon rate per year                  | 7                           |
| <b>interest</b>    | number    | (6,6)   | Interest amount in each period (Baht) | 17.5                        |
| <b>principal</b>   | number    | (18,6)  | The principal amount in each period   | 0                           |
| <b>payment</b>     | number    | (18,6)  | Total payment in each period          | 17.5                        |



## Issue rating

**GET** /api/v1/bondinfo/issue-rating

**Description:** Issue rating for all active bonds registered with ThaiBMA (Consider for Bond current outstanding > 0), Excluding bonds registered for Mark-to-Market

**Frequency:** Daily

**Release schedule:** Daily, Real-time data.

### Responses:

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

### Details:

| Parameter name        | Data type | Length | Description                                | Example             |
|-----------------------|-----------|--------|--|---------------------|
| <b>symbol</b>         | string    | 15     | ThaiBMA bond symbol                        | ABPSPV244A          |
| <b>effective_date</b> | datetime  | 19     | Rating effective date (yyyy-mm-dd)         | 2023-01-31T00:00:00 |
| <b>rating_agency</b>  | string    | 10     | Rating agency                              | TRIS                |
| <b>rating</b>         | string    | 10     | Issue rating                               | A-                  |
| <b>remark</b>         | string    | 255    | Rating action remarks and others           | Assigned Stable     |
| <b>guarantor</b>      | string    | 255    | Abbreviation name of guarantors in English | ABP3,ABPR1,ABPR2    |

## Issuer rating

**GET** /api/v1/bondinfo/issuer-rating

**Description:** Issuer rating for all active bonds that registered with ThaiBMA (Consider for Bond current outstanding > 0), Excluding bonds registered for Mark-to-Market.

**Frequency:** Daily

**Release schedule:** Daily, Real-time data.

### Responses:

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

### Details:

| Parameter name        | Data type | Length | Description  | Example                                   |
|-----------------------|-----------|--------|--|---|
| <b>Issuer</b>         | string    | 15     | Issuer abbreviation name in English                  | A   |
| <b>Issuer_name</b>    | string    | 500    | Full name of issuer in English                       | AREEYA PROPERTY PUBLIC<br>COMPANY LIMITED |
| <b>effective_date</b> | datetime  | 19     | Rating effective date (yyyy-mm-dd)                   | 2023-11-03T00:00:00                       |
| <b>rating_agency</b>  | string    | 10     | Rating agency  | TRIS                                      |
| <b>rating</b>         | string    | 10     | Issuer rating  | B   |
| <b>rating_type</b>    | string    | 10     | Rating Type<br>(Short term Rating, Long term Rating) | Long term Rating                          |
| <b>remark</b>         | string    | 255    | Rating action remarks and others                     | Downgraded Negative                       |

## Historical issue rating

**GET** /api/v1/bondinfo/issue-rating-historical

**Description:** Issue rating for all active bonds that are registered with ThaiBMA (Consider bonds which currently outstanding > 0). Excluding bonds registered for Mark-to-Market.

**Frequency:** Daily

**Release schedule:** Daily, Real-time data.

### Responses:

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

### Details:

| Parameter name        | Data type | Length | Description                                | Example             |
|-----------------------|-----------|--------|--|---------------------|
| <b>symbol</b>         | string    | 15     | ThaiBMA bond symbol                        | CPFTH317A           |
| <b>effective_date</b> | datetime  | 19     | Rating effective date (yyyy-mm-dd)         | 2016-07-04T00:00:00 |
| <b>rating_agency</b>  | string    | 10     | Rating agency                              | TRIS                |
| <b>rating</b>         | string    | 10     | Issue rating                               | A+                  |
| <b>remark</b>         | string    | 255    | Rating action remarks and others           | Assigned Stable     |
| <b>guarantor</b>      | string    | 255    | Abbreviation name of guarantors in English | -                   |

## Event Sign Bond: Restructure (RS)

**POST** /api/v1/bondinfo/eventsign/rs

**Description:** Event sign to refer to important events related to bonds for Restructure (RS): The debt securities have been approved by the resolution of the bondholders' meeting for debt restructuring or changing the redemption date or extension redemption period of debt.

**Frequency:** Daily, Calendar Day

**Release schedule:** Daily, Real-time data.

### Request body (Method: POST)

| Parameter name | Data type | Description | Format       |
|----------------|-----------|-------------|--------------|
| asof           | String    | Data as of  | "yyyy-mm-dd" |

### Example value:

```
{
  "asof": "2023-11-29T02:45:44.166Z"
}
```

### Responses:

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

### Details:

| Parameter name    | Data type | Length | Description  | Example                           |
|-------------------|-----------|--------|--|-----------------------------------|
| asof              | datetime  | 19     | Event sign as of   | 2023-11-13T00:00:00               |
| issuer            | string    | 15     | Issuer abbreviation name in English  | CHO                               |
| issuer_name       | string    | 255    | Full name of issuer in English   | CHO THAVEE PUBLIC COMPANY LIMITED |
| symbol            | string    | 15     | ThaiBMA Bond Symbol  | CHO212A                           |
| event_sign        | string    | 10     | Event abbreviation name in English (RS, DP, DNP, REH, BANKRUPT, IC, RI, FP, FPG) | RS                                |
| distribution_type | string    | 10     | Distribution type (PO, II, II/HNW, PG, PP10, PPCC, PPCX and RO)                  | II/HNW                            |
| issue_rating      | string    | 50     | Issue rating/ rating agency  |                                   |

| Parameter name                | Data type | Length  | Description  | Example             |
|-------------------------------|-----------|---------|--|---------------------|
| <b>company_rating</b>         | string    | 50      | Issuer company rating/ rating agency   |                     |
| <b>issued_date</b>            | datetime  | 19      | Bond issue date  | 2019-02-22T00:00:00 |
| <b>original_maturity_date</b> | datetime  | 19      | The bond maturity date specified on the issuance date  | 2021-02-22T00:00:00 |
| <b>extended_maturity_date</b> | datetime  | 19      | The bond maturity date specified has been approved by the resolution of the bondholders' meeting for debt restructuring or changing the redemption date or extension redemption period of debt.                          | 2025-06-15T00:00:00 |
| <b>current_coupon</b>         | number    | (6,6)   | Current Coupon (%)/Year  | 7.75                |
| <b>ttm</b>                    | number    | (6,6)   | Time to maturity: as of time until expiration (years)  | 1.589               |
| <b>issue_size</b>             | number    | (18,0)  | Total amount of issued bond (Million Baht)   | 545.3               |
| <b>outstanding</b>            | number    | (18,10) | Current outstanding size (Million Baht)  | 408.975             |
| <b>secure_type</b>            | string    | 20      | Secured type<br>(If a bond is secured, it will display Secured By (Full Asset, Full Guarantor, Full Asset and Full Guarantor, Partial Asset, or Partial Guarantor), and if it is not secured, it will display Unsecured) | Partial Collateral  |
| <b>option</b>                 | string    | 20      | Does bond have Call/Put option or not?   | CALL                |
| <b>registrar</b>              | string    | 255     | Abbreviation name of Registra in English   | TTB                 |
| <b>bondrep</b>                | string    | 255     | Abbreviation name of bondholder representatives in English   | GBS                 |
| <b>cross_default</b>          | number    | (18,6)  | Cross default amount (Million Baht)  | 300                 |
| <b>cross_default_remark</b>   | string    | 5000    | Cross default remark   |                     |

## Event Sign Bond: Default Payment (DP)

**POST** /api/v1/bondinfo/eventsign/dp

**Description:** Event sign to refer to important events related to bonds for Default Payment (DP):

- Debt securities do not pay principal payment or interest including in case of an issuer company is unable to pay the principal or interest as a result of an automatic stay. Due to being in a condition of automatic stay.
- ThaiBMA receives notifications from Issuers or Bond Holders' Representatives which contents of the notifications are regarded to default of bonds caused by Cross Default (Event of Default).

**Frequency:** Daily, Calendar Day

**Release schedule:** Daily, Real-time data.

**Request body (Method: POST)**

| Parameter name | Data type | Description | Format       |
|----------------|-----------|-------------|--------------|
| asof           | String    | Data as of  | "yyyy-mm-dd" |

**Example value:**

```
{
  "asof": "2023-11-29T02:56:33.350Z"
}
```

**Responses:**

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

**Details:**

| Parameter name | Data type | Length | Description  | Example                                   |
|----------------|-----------|--------|--|---|
| asof           | datetime  | 19     | Event sign as of   | 2023-10-28T00:00:00                       |
| issuer         | string    | 15     | Issuer abbreviation name in English  | ACAP                                      |
| issuer_name    | string    | 255    | Full name of issuer in English   | ASIA CAPITAL GROUP PUBLIC COMPANY LIMITED |
| symbol         | string    | 15     | ThaiBMA Bond Symbol  | ACAP19OA                                  |
| event_sign     | string    | 10     | Event abbreviation name in English (RS, DP, DNP, REH, BANKRUPT, IC, RI, FP, FPG) | DP  |

| Parameter name           | Data type | Length  | Description  | Example   |
|--------------------------|-----------|---------|--|-----------|
| <b>distribution_type</b> | string    | 10      | Distribution type<br>(PO, II, II/HNW, PG, PP10, PPCC, PPCX and RO)   | II/HNW    |
| <b>issue_rating</b>      | string    | 50      | Issue rating/Rating agency   |           |
| <b>company_rating</b>    | string    | 50      | Issuer company rating/Rating agency  |           |
| <b>issue_size</b>        | number    | (18,0)  | Total amount of issued bond<br>(Million Baht)  | 768.6     |
| <b>outstanding</b>       | number    | (18,10) | Current outstanding size<br>(Million Baht)   | 668.682   |
| <b>secure_type</b>       | string    | 20      | Secured type<br>(If a bond is secured, it will display Secured By (Full Asset, Full Guarantor, Full Asset and Full Guarantor, Partial Asset, or Partial Guarantor), and if it is not secured, it will display Unsecured) | Unsecured |
| <b>registrar</b>         | string    | 255     | Abbreviation name of Registra in English   | CIMBT     |
| <b>bondrep</b>           | string    | 255     | Abbreviation name of bondholder representatives in English   | -         |
| <b>cross_default</b>     | number    | (18,6)  | Cross default amount (Million Baht)  | 500       |

## Event Sign Bond: Default not related to payment (DNP)

**POST** /api/v1/bondinfo/eventsign/dnp

**Description:** Event sign to refer to important events related to bonds for Default not related to payment (DNP): The Event of Default under the terms and conditions of the bond has occurred because the issuer has failed to comply with covenants or provisions stipulated in the terms and conditions of the bond other than the default according to the criteria for posting sign DP, FP or FPG.

**Frequency:** Daily, Calendar Day

**Release schedule:** Daily, Real-time data.

### Request body (Method: POST)

| Parameter name | Data type | Description | Format       |
|----------------|-----------|-------------|--------------|
| asof           | String    | Data as of  | “yyyy-mm-dd” |

### Example value:

```
{
  "asof": "2023-11-29T03:03:08.544Z"
}
```

### Responses:

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

### Details:

| Parameter name | Data type | Length | Description  | Example                                 |
|----------------|-----------|--------|--|---|
| asof           | datetime  | 19     | Event sign as of   | 2023-10-23T00:00:00                     |
| issuer         | string    | 15     | Issuer abbreviation name in English  | JKN                                     |
| issuer_name    | string    | 255    | Full name of issuer in English   | JKN GLOBAL GROUP PUBLIC COMPANY LIMITED |
| symbol         | string    | 15     | ThaiBMA Bond Symbol  | JKN243A                                 |
| event_sign     | string    | 10     | Event abbreviation name in English (RS, DP, DNP, REH, BANKRUPT, IC, RI, FP, FPG) | DNP,IC                                  |



| Parameter name           | Data type | Length  | Description  | Example   |
|--------------------------|-----------|---------|--|-----------|
| <b>distribution_type</b> | string    | 10      | Distribution type<br>(PO, II, II/HNW, PG, PP10, PPCC, PPCX and RO)   | II/HNW    |
| <b>issue_rating</b>      | string    | 50      | Issue rating/Rating agency   |           |
| <b>company_rating</b>    | string    | 50      | Issuer company rating/Rating agency  |           |
| <b>issue_size</b>        | number    | (18,0)  | Total amount of issued bond<br>(Million Baht)  | 300       |
| <b>outstanding</b>       | number    | (18,10) | Current outstanding size<br>(Million Baht)   | 300       |
| <b>secure_type</b>       | string    | 20      | Secured type<br>(If a bond is secured, it will display Secured By (Full Asset, Full Guarantor, Full Asset and Full Guarantor, Partial Asset, or Partial Guarantor), and if it is not secured, it will display Unsecured) | Unsecured |
| <b>registrar</b>         | string    | 255     | Abbreviation name of Registra in English   | TTB       |
| <b>bondrep</b>           | string    | 255     | Abbreviation name of bondholder representatives in English   | DAOLS     |
| <b>cross_default</b>     | number    | (18,6)  | Cross default amount (Million Baht)  | 300       |

## Event Sign Bond: Rehabilitation (REH)

**POST** /api/v1/bondinfo/eventsign/reh

**Description:** Event sign to refer to important events related to bonds for Debt securities under business rehabilitation plan approved by the Bankruptcy Court.

**Frequency:** Daily, Calendar Day

**Release schedule:** Daily, Real-time data.

### Request body (Method: POST)

| Parameter name | Data type | Description | Format       |
|----------------|-----------|-------------|--------------|
| asof           | String    | Data as of  | “yyyy-mm-dd” |

### Example value:

```
{
  "asof": "2023-11-29T08:39:18.789Z"
}
```

### Responses:

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

### Details:

| Parameter name    | Data type | Length | Description   | Example   |
|-------------------|-----------|--------|---|---|
| asof              | datetime  | 19     | Event sign as of  | 2023-10-23T00:00:00                                       |
| issuer            | string    | 15     | Issuer abbreviation name in English   | PACE  |
| issuer_name       | string    | 255    | Full name of issuer in English  | PACE DEVELOPMENT<br>CORPORATION PUBLIC<br>COMPANY LIMITED |
| symbol            | string    | 15     | ThaiBMA Bond Symbol   | PACE202A  |
| event_sign        | string    | 10     | Event abbreviation name in English<br>(RS, DP, DNP, REH, BANKRUPT, IC, RI, FP, FPG) | REH   |
| distribution_type | string    | 10     | Distribution type<br>(PO, II, II/HNW, PG, PP10, PPCC, PPCX and RO)                  | II/HNW  |

| Parameter name        | Data type | Length  | Description  | Example   |
|-----------------------|-----------|---------|--|-----------|
| <b>issue_rating</b>   | string    | 50      | Issue rating/Rating agency   |           |
| <b>company_rating</b> | string    | 50      | Issuer company rating/Rating agency  |           |
| <b>issue_size</b>     | number    | (18,0)  | Total amount of issued bond<br>(Million Baht)  | 1219      |
| <b>outstanding</b>    | number    | (18,10) | Current outstanding size<br>(Million Baht)   | 1219      |
| <b>secure_type</b>    | string    | 20      | Secured type<br>(If a bond is secured, it will display<br>Secured By (Full Asset, Full Guarantor,<br>Full Asset and Full Guarantor, Partial<br>Asset, or Partial Guarantor), and if it is<br>not secured, it will display Unsecured) | Unsecured |
| <b>registrar</b>      | string    | 255     | Abbreviation name of Registra in English   | TTB       |
| <b>bondrep</b>        | string    | 255     | Abbreviation name of bondholder<br>representatives in English  | -         |
| <b>cross_default</b>  | number    | (18,6)  | Cross default amount (Million Baht)  | 500       |

## Event Sign Bond: Bankruptcy (BANKRUPT)

**POST** /api/v1/bondinfo/eventsign/bankrupt

**Description:** Event sign to refer to important events related to bonds for Bankruptcy (BANKRUPT): The issuer has been adjudged bankrupt by the Bankruptcy Court.

**Frequency:** Daily, Calendar Day

**Release schedule:** Daily, Real-time data.

### Request body (Method: POST)

| Parameter name | Data type | Description | Format       |
|----------------|-----------|-------------|--------------|
| asof           | String    | Data as of  | “yyyy-mm-dd” |

### Example value:

```
{
  "asof": "2023-11-29T08:47:43.531Z"
}
```

### Responses:

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

### Details:

| Parameter name    | Data type | Length | Description   | Example                                |
|-------------------|-----------|--------|---|--|
| asof              | datetime  | 19     | Event sign as of  | 2023-10-23T00:00:00                    |
| issuer            | string    | 15     | Issuer abbreviation name in English   | EARTH                                  |
| issuer_name       | string    | 255    | Full name of issuer in English  | ENERGY EARTH PUBLIC<br>COMPANY LIMITED |
| symbol            | string    | 15     | ThaiBMA Bond Symbol   | EARTH17DA                              |
| event_sign        | string    | 10     | Event abbreviation name in English<br>(RS, DP, DNP, REH, BANKRUPT, IC, RI, FP, FPG) | BANKRUPT                               |
| distribution_type | string    | 10     | Distribution type<br>(PO, II, II/HNW, PG, PP10, PPCC, PPCX and RO)                  | II/HNW                                 |

| Parameter name        | Data type | Length  | Description  | Example   |
|-----------------------|-----------|---------|--|-----------|
| <b>issue_rating</b>   | string    | 50      | Issue rating/Rating agency   |           |
| <b>company_rating</b> | string    | 50      | Issuer company rating/Rating agency  |           |
| <b>issue_size</b>     | number    | (18,0)  | Total amount of issued bond<br>(Million Baht)  | 1500      |
| <b>outstanding</b>    | number    | (18,10) | Current outstanding size<br>(Million Baht)   | 1500      |
| <b>secure_type</b>    | string    | 20      | Secured type<br>(If a bond is secured, it will display<br>Secured By (Full Asset, Full Guarantor,<br>Full Asset and Full Guarantor, Partial<br>Asset, or Partial Guarantor), and if it is<br>not secured, it will display Unsecured) | Unsecured |
| <b>registrar</b>      | string    | 255     | Abbreviation name of Registra in English   | KTB       |
| <b>bondrep</b>        | string    | 255     | Abbreviation name of bondholder<br>representatives in English  | -         |
| <b>cross_default</b>  | number    | (18,6)  | Cross default amount (Million Baht)  | 500       |

## Event Sign Bond: Bankruptcy (IC)

**POST** /api/v1/bondinfo/eventsign/ic

**Description:** Event sign to refer to important events related to bonds for Investor Caution (IC): Investors must be cautious investing. ThaiBMA have guidelines for posting IC signs as follows: Determining the meeting date of bondholders' meeting that requires resolution passed by a majority of not less than 75% in the following matters.

**Frequency:** Daily, Calendar Day

**Release schedule:** Daily, Real-time data.

### Request body (Method: POST)

| Parameter name | Data type | Description | Format       |
|----------------|-----------|-------------|--------------|
| asof           | String    | Data as of  | "yyyy-mm-dd" |

### Example value:

```
{
  "asof": "2023-11-29T08:53:31.244Z"
}
```

### Responses:

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

### Details:

| Parameter name    | Data type | Length | Description  | Example                    |
|-------------------|-----------|--------|--|----------------------------|
| asof              | datetime  | 19     | Event sign as of   | 2023-10-22T00:00:00        |
| issuer            | string    | 15     | Issuer abbreviation name in English  | CMO                        |
| issuer_name       | string    | 255    | Full name of issuer in English   | CMO PUBLIC COMPANY LIMITED |
| symbol            | string    | 15     | ThaiBMA Bond Symbol  | CMO23NA                    |
| event_sign        | string    | 10     | Event abbreviation name in English (RS, DP, DNP, REH, BANKRUPT, IC, RI, FP, FPG) | IC                         |
| distribution_type | string    | 10     | Distribution type (PO, II, II/HNW, PG, PP10, PPCC, PPCX and RO)                  | II/HNW                     |

| Parameter name               | Data type | Length  | Description  | Example             |
|------------------------------|-----------|---------|--|---------------------|
| <b>issue_rating</b>          | string    | 50      | Issue rating/Rating agency   |                     |
| <b>company_rating</b>        | string    | 50      | Issuer company rating/Rating agency  |                     |
| <b>issued_date</b>           | datetime  | 19      | Bond issue date  | 2023-01-27T00:00:00 |
| <b>current_maturity_date</b> | datetime  | 19      | Current bond maturity date   | 2025-11-27T00:00:00 |
| <b>current_coupon</b>        | number    | (6,6)   | Current Coupon (%)/Year  | 6.5                 |
| <b>ttm</b>                   | number    | (6,6)   | Time to maturity: as of time until expiration (years)  | 2.1014              |
| <b>issue_size</b>            | number    | (18,0)  | Total amount of issued bond (Million Baht)   | 100                 |
| <b>outstanding</b>           | number    | (18,10) | Current outstanding size (Million Baht)  | 100                 |
| <b>secure_type</b>           | string    | 20      | Secured type<br>(If a bond is secured, it will display Secured By (Full Asset, Full Guarantor, Full Asset and Full Guarantor, Partial Asset, or Partial Guarantor), and if it is not secured, it will display Unsecured) | Unsecured           |
| <b>option</b>                | string    | 20      | Bond have Call/Put option or not?  | CALL                |
| <b>registrar</b>             | string    | 255     | Abbreviation name of Registra in English   | TTB                 |
| <b>bondrep</b>               | string    | 255     | Abbreviation name of bondholder representatives in English   | ASPS                |

## Event Sign Bond: Request Information (RI)

**POST** /api/v1/bondinfo/eventsign/ri

**Description:** Event sign to refer to important events related to bonds for Request Information (RI): ThaiBMA is requesting additional information from the issuer.

**Frequency:** Daily, Calendar Day

**Release schedule:** Daily, Real-time data.

### Request body (Method: POST)

| Parameter name | Data type | Description | Format       |
|----------------|-----------|-------------|--------------|
| asof           | String    | Data as of  | "yyyy-mm-dd" |

### Example value:

```
{
  "asof": "2023-11-29T09:07:50.287Z"
}
```

### Responses:

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

### Details:

| Parameter name    | Data type | Length | Description   | Example |
|-------------------|-----------|--------|---|---------|
| asof              | datetime  | 19     | Event sign as of  |         |
| issuer            | string    | 15     | Issuer abbreviation name in English   |         |
| issuer_name       | string    | 255    | Full name of issuer in English  |         |
| symbol            | string    | 15     | ThaiBMA Bond Symbol   |         |
| event_sign        | string    | 10     | Event abbreviation name in English<br>(RS, DP, DNP, REH, BANKRUPT, IC, RI, FP, FPG) |         |
| distribution_type | string    | 10     | Distribution type<br>(PO, II, II/HNW, PG, PP10, PPCC, PPCX and RO)                  |         |



| Parameter name        | Data type | Length  | Description  | Example |
|-----------------------|-----------|---------|--|---------|
| issue_rating          | string    | 50      | Issue rating/Rating agency   |         |
| company_rating        | string    | 50      | Issuer company rating/Rating agency  |         |
| issued_date           | datetime  | 19      | Bond issue date  |         |
| current_maturity_date | datetime  | 19      | Current bond maturity date   |         |
| current_coupon        | number    | (6,6)   | Current Coupon (%)/Year  |         |
| ttm                   | number    | (6,6)   | Time to maturity: as of time until expiration (years)  |         |
| issue_size            | number    | (18,0)  | Total amount of issued bond (Million Baht)   |         |
| outstanding           | number    | (18,10) | Current outstanding size (Million Baht)  |         |
| secure_type           | string    | 20      | Secured type<br>(If a bond is secured, it will display Secured By (Full Asset, Full Guarantor, Full Asset and Full Guarantor, Partial Asset, or Partial Guarantor), and if it is not secured, it will display Unsecured) |         |
| option                | string    | 20      | Bond have Call/Put option or not?  |         |
| registrar             | string    | 255     | Abbreviation name of Registra in English   |         |
| bondrep               | string    | 255     | Abbreviation name of bondholder representatives in English   |         |

## Event Sign Bond: Failed to Pay (FP)

**POST** /api/v1/bondinfo/eventsign/fp

**Description:** Event sign to refer to important events related to bonds for Failed to Pay (FP): The issuer of the bond has failed to pay the principal or interest in full on the maturity date or interest payment date as specified in the terms and conditions of the bond, but whether or not such failure constitutes an Event of Default depends on the terms and conditions of the bond.

**Frequency:** Daily, Calendar Day

**Release schedule:** Daily, Real-time data.

### Request body (Method: POST)

| Parameter name | Data type | Description | Format       |
|----------------|-----------|-------------|--------------|
| asof           | String    | Data as of  | “yyyy-mm-dd” |

### Example value:

```
{
  "asof": "2023-11-29T09:22:33.655Z"
}
```

### Responses:

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

### Details:

| Parameter name    | Data type | Length | Description  | Example |
|-------------------|-----------|--------|--|---------|
| asof              | datetime  | 19     | Event sign as of   |         |
| issuer            | string    | 15     | Issuer abbreviation name in English  |         |
| issuer_name       | string    | 255    | Full name of issuer in English   |         |
| symbol            | string    | 15     | ThaiBMA Bond Symbol  |         |
| event_sign        | string    | 10     | Event abbreviation name in English (RS, DP, DNP, REH, BANKRUPT, IC, RI, FP, FPG) |         |
| distribution_type | string    | 10     | Distribution type (PO, II, II/HNW, PG, PP10, PPCC, PPCX and RO)                  |         |

| Parameter name        | Data type | Length  | Description  | Example |
|-----------------------|-----------|---------|--|---------|
| <b>issue_rating</b>   | string    | 50      | Issue rating/Rating agency   |         |
| <b>company_rating</b> | string    | 50      | Issuer company rating/Rating agency  |         |
| <b>issue_size</b>     | number    | (18,0)  | Total amount of issued bond<br>(Million Baht)  |         |
| <b>outstanding</b>    | number    | (18,10) | Current outstanding size<br>(Million Baht)   |         |
| <b>secure_type</b>    | string    | 20      | Secured type<br>(If a bond is secured, it will display<br>Secured By (Full Asset, Full Guarantor,<br>Full Asset and Full Guarantor, Partial<br>Asset, or Partial Guarantor), and if it is<br>not secured, it will display Unsecured) |         |
| <b>registrar</b>      | string    | 255     | Abbreviation name of Registra in English   |         |
| <b>bondrep</b>        | string    | 255     | Abbreviation name of bondholder<br>representatives in English  |         |
| <b>cross_default</b>  | number    | (18,6)  | Cross default amount (Million Baht)  |         |

## Event Sign Bond: Failed to Pay with Guarantee (FPG)

**POST** /api/v1/bondinfo/eventsign/fpg

**Description:** Event sign to refer to important events related to bonds for Failed to Pay with Guarantee (FPG): The issuer of the guaranteed bond has failed to pay the principal or interest payment date as specified in the terms and conditions of the guaranteed bond, but whether or not such failure constitutes an Event of Default depends on the terms and conditions of the bond.

**Frequency:** Daily, Calendar Day

**Release schedule:** Daily, Real-time data.

### Request body (Method: POST)

| Parameter name | Data type | Description | Format       |
|----------------|-----------|-------------|--------------|
| asof           | String    | Data as of  | “yyyy-mm-dd” |

### Example value:

```
{
  "asof": "2023-11-29T09:31:21.306Z "
}
```

### Responses:

| Code | Description           |
|------|-----------------------|
| 200  | Success               |
| 400  | Bad Request           |
| 401  | Unauthorized          |
| 500  | Internal Server Error |

### Details:

| Parameter name    | Data type | Length | Description  | Example |
|-------------------|-----------|--------|--|---------|
| asof              | datetime  | 19     | Event sign as of   |         |
| issuer            | string    | 15     | Issuer abbreviation name in English  |         |
| issuer_name       | string    | 255    | Full name of issuer in English   |         |
| symbol            | string    | 15     | ThaiBMA Bond Symbol  |         |
| event_sign        | string    | 10     | Event abbreviation name in English (RS, DP, DNP, REH, BANKRUPT, IC, RI, FP, FPG) |         |
| distribution_type | string    | 10     | Distribution type (PO, II, II/HNW, PG, PP10, PPCC, PPCX and RO)                  |         |

| Parameter name        | Data type | Length  | Description  | Example |
|-----------------------|-----------|---------|--|---------|
| <b>issue_rating</b>   | string    | 50      | Issue rating/Rating agency   |         |
| <b>company_rating</b> | string    | 50      | Issuer company rating/Rating agency  |         |
| <b>issue_size</b>     | number    | (18,0)  | Total amount of issued bond<br>(Million Baht)  |         |
| <b>outstanding</b>    | number    | (18,10) | Current outstanding size<br>(Million Baht)   |         |
| <b>secure_type</b>    | string    | 20      | Secured type<br>(If a bond is secured, it will display Secured By (Full Asset, Full Guarantor, Full Asset and Full Guarantor, Partial Asset, or Partial Guarantor), and if it is not secured, it will display Unsecured) |         |
| <b>registrar</b>      | string    | 255     | Abbreviation name of Registra in English   |         |
| <b>bondrep</b>        | string    | 255     | Abbreviation name of bondholder representatives in English   |         |
| <b>cross_default</b>  | number    | (18,6)  | Cross default amount (Million Baht)  |         |