

Ground Rules



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# Straits Times Index

v2.7

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## Section 1

# Introduction

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### 1.0 Introduction

- 1.1 This document sets out the Ground Rules for the construction and management of the Straits Times Index (STI). Copies of the Ground Rules are available from FTSE International Limited (FTSE) on the website [www.ftserussell.com](http://www.ftserussell.com).
- 1.2 The STI is created by Singapore Press Holdings (SPH) and is managed by FTSE Russell. For the purposes of this index where a security is listed on the SGX Mainboard, that security will be considered Singaporean in nationality and therefore eligible for the STI, subject to conforming to all other eligibility criteria.
- 1.3 The STI comprises the largest 30 companies by full market capitalisation that meet stated eligibility requirements.
- 1.4 The STI does not take account of ESG factors in its index design.
- 1.5 Price and Total Return Indexes are published at the end of each working day.  
The Total Return Index includes income based on ex-dividend adjustments. All dividends are applied as declared in the FTSE Total Return Index.
- 1.6 These Ground Rules should be read in conjunction with the FTSE ST Index Series Ground Rules which can be accessed using the link below:  
[FTSE\\_ST\\_Index\\_Series.pdf](#)
- 1.7 FTSE Russell hereby notifies users of the index that it is possible that circumstances, including external events beyond the control of FTSE Russell, may necessitate changes to, or the cessation of, the index and therefore, any financial contracts or other financial instruments that reference the index or investment funds which use the index to measure their performance should be able to withstand, or otherwise address the possibility of changes to, or cessation of, the index.
- 1.8 Index users who choose to follow this index or to buy products that claim to follow this index should assess the merits of the index's rules-based methodology and take independent investment advice before investing their own or client funds. No liability whether as a result of negligence or otherwise is accepted by FTSE Russell for any losses, damages, claims and expenses suffered by any person as a result of:

- any reliance on these Ground Rules, and/or
- any errors or inaccuracies in these Ground Rules, and/or
- any non-application or misapplication of the policies or procedures described in these Ground Rules, and/or
- any errors or inaccuracies in the compilation or any constituent data in the Index.

#### 1.9 **FTSE Russell**

FTSE Russell is a trading name of FTSE International Limited, Frank Russell Company, FTSE Global Debt Capital Markets Limited (and its subsidiaries FTSE Global Debt Capital Markets Inc. and MTSNext Limited), Mergent, Inc., FTSE Fixed Income LLC, The Yield Book Inc and Beyond Ratings.

## Section 2

# Management Responsibilities

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## 2.0 Management Responsibilities

### 2.1 FTSE International Limited (FTSE)

2.1.1 FTSE is the benchmark administrator of the index.<sup>1</sup>

2.1.2 FTSE is responsible for the daily calculation, production and operation of the STI and will:

- maintain records of the index weightings of all constituents and reserve list companies;
- make changes to the constituents and their weightings in accordance with the Ground Rules;
- carry out the periodic index reviews of the index and apply the changes resulting from the reviews as required by the Ground Rules;
- publish changes to the constituent weightings resulting from their ongoing maintenance and the periodic reviews;
- disseminate the indexes.

2.1.3 The weightings of constituents in the real time index shall be used in the calculation of the end of day index.

2.1.4 FTSE is also responsible for monitoring the performance of the STI throughout the day and will determine whether the status of the Index should be Firm, Indicative or Held (see Appendix A).

### 2.2 Status of these Ground Rules

2.2.1 These Ground Rules provide information about the publication of the STI and set out the methodology underlying the STI.

### 2.3 STI and FTSE ST Index Advisory Committee

2.3.1 The purpose of the Committee is to provide a forum for FTSE Russell to interact with index users and other stakeholders with a view to enhancing the underlying methodologies of this index. In particular the Committee will:

- a) discuss proposed changes to the Ground Rules, and

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<sup>1</sup> The term administrator is used in this document in the same sense as it is defined in [Regulation \(EU\) 2016/1011 of the European Parliament and of the Council of 8 June 2016 on indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds \(the European Benchmark Regulation\)](#) and [The Benchmarks \(Amendment and Transitional Provision\) \(EU Exit\) Regulations 2019](#) (the UK Benchmark Regulation).

b) comment on the index reviews presented by FTSE Russell.

The Terms of Reference of the STI and FTSE ST Index Advisory Committee are set out on the FTSE Russell website.

[STI and FTSE ST Index Advisory Committee.pdf](#)

## 2.4 **Amendments to these Ground Rules**

2.4.1 These Ground Rules shall be subject to regular review by FTSE Russell to ensure that they continue to best reflect the aims of the index. Any proposals for significant amendments to these Ground Rules will be subject to consultation with FTSE Russell advisory committees and other stakeholders if appropriate. The feedback from these consultations will be considered by the FTSE Russell Product Governance Board before approval is granted.

2.4.2 As provided for in the Statement of Principles for FTSE Russell Equity Indexes, where FTSE Russell determines that the Ground Rules are silent or do not specifically and unambiguously apply to the subject matter of any decision, any decision shall be based as far as practical on the Statement of Principles. After making any such determination, FTSE Russell shall advise the market of its decision at the earliest opportunity. Any such treatment will not be considered as an exception or change to the Ground Rules, or to set a precedent for future action, but FTSE Russell will consider whether the Rules should subsequently be updated to provide greater clarity.

## Section 3

# FTSE Russell Index Policies

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### 3.0 FTSE Russell Index Policies

These Ground Rules should be read in conjunction with the following policy documents which can be accessed using the links below:

#### 3.1 Corporate Actions and Events Guide

- 3.1.1 Full details of changes to constituent companies due to corporate actions and events can be accessed in the Corporate Actions and Events Guide using the following link:

[Corporate Actions and Events Guide.pdf](#)

#### 3.2 Statement of Principles for FTSE Russell Equity Indexes (the Statement of Principles)

Indexes need to keep abreast of changing markets and the Ground Rules cannot anticipate every eventuality. Where the Rules do not fully cover a specific event or development, FTSE Russell will determine the appropriate treatment by reference to the Statement of Principles which summarises the ethos underlying FTSE Russell's approach to index construction. The Statement of Principles which is reviewed annually and any changes proposed by FTSE Russell are presented to the FTSE Russell Policy Advisory Board for discussion before approval by the FTSE Russell Product Governance Board.

The Statement of Principles can be accessed using the following link:

[Statement of Principles.pdf](#)

#### 3.3 Queries and Complaints

FTSE Russell's complaints procedure can be accessed using the following link:

[Benchmark Determination Complaints Handling Policy.pdf](#)

#### 3.4 Index Policy for Trading Halts and Market Closures

- 3.4.1 Guidance for the treatment of index changes in the event of trading halts or market closures can be found using the following link:

[Index Policy for Trading Halts and Market Closures.pdf](#)

#### 3.5 Index Policy in the Event Clients are Unable to Trade a Market

- 3.5.1 Details of FTSE Russell's treatment can be accessed using the following link:

[Index Policy in the Event Clients are Unable to Trade a Market.pdf](#)

### 3.6 **Recalculation Policy and Guidelines**

- 3.6.1 The STI is recalculated whenever errors or distortions occur that are deemed to be significant. Users of the STI are notified through appropriate media.

For further information please refer to the FTSE Russell Recalculation Policy and Guidelines document which is available on the FTSE Russell website using the link below or by contacting [info@ftserussell.com](mailto:info@ftserussell.com).

[Index Recalculation Policy and Guidelines Equity Indexes.pdf](#)

### 3.7 **Policy for Benchmark Methodology Changes**

- 3.7.1 Details of FTSE Russell's policy for making benchmark methodology changes can be accessed using the following link:

[Policy for Benchmark Methodology Changes.pdf](#)

### 3.8 **FTSE Russell Governance Framework**

- 3.8.1 To oversee its indexes, FTSE Russell employs a governance framework that encompasses product, service and technology governance. The framework incorporates the London Stock Exchange Group's three lines of defence risk management framework and is designed to meet the requirements of the IOSCO Principles for Financial Benchmarks<sup>2</sup>, the European benchmark regulation<sup>3</sup> and the UK benchmark regulation<sup>4</sup>. The FTSE Russell Governance Framework can be accessed using the following link:

[FTSE Russell Governance Framework.pdf](#)

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<sup>2</sup> IOSCO Principles for Financial Benchmarks Final Report, FR07/13 July 2013

<sup>3</sup> Regulation (EU) 2016/1011 of the European Parliament and of the Council of 8 June 2016 on indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds

<sup>4</sup> The Benchmarks (Amendment and Transitional Provision) (EU Exit) Regulations 2019

## Section 4

# Index Construction

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### 4.0 Index Construction

#### 4.1 Eligible Securities

- 4.1.1 The constituents of the STI are derived from the FTSE ST All-Share Index universe and shall be current constituents of this Index. All classes of the ordinary shares in issue are eligible for inclusion in the STI, subject to conforming to all other rules of eligibility, free float and liquidity.
- 4.1.2 Companies that have a full listing on the SGX Mainboard are eligible for inclusion in the STI. Companies listed on other boards (markets) will not be included in the STI.
- 4.1.3 Companies whose business is that of holding equity and other investments (e.g. Investment Trusts) classified by the Industry Classification Benchmark<sup>5</sup> to the Subsector Equity Investment Instruments (8985) (New ICB Closed End Investments (30204000)) and non-equity investment instruments classified by the Industry Classification Benchmark as Subsector Non-Equity Investment Instruments (8995) (New ICB Open End and Miscellaneous Investment Vehicles (30205000)) will not be eligible for inclusion.
- 4.1.4 Convertible preference shares and loan stocks are excluded until converted.
- 4.1.5 Securities which are subject to surveillance by the stock exchange and have been assigned to the Watch-list segment will not be eligible for index inclusion. Where an existing constituent is assigned to the Watch-list segment it will normally be deleted from the index quarterly, after the close of business on the third Friday of March, June, September and December. The company will only be reconsidered for index inclusion after a period of 12 months from its deletion subject to it no longer being under surveillance. For the purposes of the index eligibility it will be treated as a new issue.
- 4.1.6 Securities that are assigned to the Watch-list segment after the review announcement date but before the index review effective date are assessed on a case-by-case basis which may generally result in scheduled index review additions, investability weight and shares in issue changes no longer being implemented at the forthcoming review.

#### 4.2 Investability Weighting

- 4.2.1 Constituents of the STI are adjusted for free float.

Further details on free float restrictions can be accessed using the following link:

[Free Float Restrictions.pdf](#)

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<sup>5</sup> FTSE indexes will migrate to the new ICB classification system in March 2021.

Foreign ownership restrictions will not be applied to the constituents of the STI.

#### 4.2.2 Initial weighting

Free float is calculated using available published information rounded to 12 decimal places. Companies with a free float of 15% or below are excluded from the index.

#### 4.3 Minimum Voting Rights

4.3.1 Companies assigned a developed market nationality are required to have greater than 5% of the company's voting rights (aggregated across all of its equity securities, including, where identifiable, those that are not listed or trading) in the hands of unrestricted shareholders or they will be deemed ineligible for index inclusion. Emerging market securities are not subject to this requirement.

4.3.2 Existing constituents with a developed market nationality who do not currently meet the above requirement have a 5 year grandfathering period to comply. If subsequently they continue to fail the minimum voting rights requirement they will be removed from FTSE Russell indexes at the September 2022 review.

4.3.3 The percentage of a company's voting rights in public hands is calculated as:

$$\frac{\text{The number of votes in the hands of shareholders that are unrestricted as determined by the application of FTSE Russell free float definitions}}{\text{The total number of votes conferred by the shares outstanding of all the company's voting securities including those that have not been admitted to trading on a regulated venue}}$$

**For example**, Company A has 100m listed Class A shares each conferring one vote, free float is 65%. It also has 300m unlisted Class B shares each conferring 10 votes.

The test to assess whether the listed Class A line has the required greater than 5% of the company's voting rights is as follows:

$$\frac{65\text{m (i. e. } 100\text{m Class A voting rights} * 65\% \text{ float)}}{3.1\text{bn (i. e. } 100\text{m Class A} + 3\text{bn Class B)}} = 2.097\% \text{ of the company's voting rights in public hands}$$

#### 4.4 Liquidity

4.4.1 Each security will be tested for liquidity semi-annually in March and September by calculation of its monthly median of daily trading volume.

Liquidity will be calculated for the March review from the first business day of March of the previous year to the review cut-off date in February and for the September review from the first business day of September of the previous year to the review cut-off date in August. When calculating the median of daily trading volume of any security for a particular month, a minimum of 5 trading days in each month must exist, otherwise the month will be excluded from the test.

For each month, the daily trading volume for each security is calculated as a percentage of the shares in issue for that day adjusted by the free float at the review cut off date. These daily values are then ranked in descending order and the median is taken by selecting the value for the middle ranking day if there is an odd number of days and the mean of the middle two if there is an even number of days.

Daily totals with zero trades are also included in the ranking; therefore a security that fails to trade for more than half of the days in a month will have a zero median trading volume for that month.

Any period of suspension will not be included in the test.

The liquidity test will be applied on a pro-rata basis where the testing period is less than 12 months.

- 4.4.2 For eligibility for inclusion, securities must turn over at least 0.10% of their shares in issue (after the application of any investability weightings) based on their median daily trading volume per month in ten of the twelve months prior to the March or September review.
- 4.4.3 For existing constituents, securities must trade at least 0.08% of their shares in issue (after the application of any investability weightings) based on their median daily trading volume per month for at least eight of the twelve months prior to the March or September review.
- 4.4.4 Any period when a share is suspended will be excluded from the above calculations.
- 4.4.5 A security that is excluded because it fails the liquidity requirement will be excluded from the index for the period until the next semi-annual review.
- 4.4.6 In exceptional market conditions, if trading volumes are very low, FTSE Russell may reduce the percentage figure in order to avoid a large number of constituents being removed from the STI. This discretion may not be applied to individual securities. If FTSE Russell intends to exercise this discretion, it must make a public statement to that effect at least two weeks prior to the quarterly review.
- 4.4.7 New issues, that do not qualify as early entrants will become eligible for inclusion at the next quarterly review of constituents provided they have, since the commencement of official non-conditional trading, a minimum trading record of at least 20 trading days prior to the date of the review and turnover of a minimum of 0.10% of their shares in issue based on their median daily trade, after the application of any free float and cross-holdings, per month in each month. For example, a new issue that did not qualify as an early entrant but has traded 21 days prior to the date of the review will need to have a turnover of a minimum of 0.10% of its shares in issue based on its median daily trade, after the application of any free float and cross-holdings for one month only. The inclusion of early entries (new issues) will not require a minimum trading record.

## Section 5

# Review of Constituent Companies

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### 5.0 Review of Constituent Companies

#### 5.1 Review Dates

5.1.1 The STI will be reviewed on a semi-annual basis in March and September. The review will be based on data from the close of business on the Monday 4 weeks prior to the review effective date. The reviews will be implemented after the close of business on the third Friday (i.e. effective Monday) of March and September.

5.1.2 In June and December, a review is applied to the STI for new issues not large enough to qualify as fast entrants since the previous March or September review. New issues will be reviewed with the existing constituents of the STI based on data from the close of business on the Monday 4 weeks prior to the review effective date. The reviews will be implemented after the close of business on the third Friday (i.e. effective Monday) of June and December.

5.1.3 The table below describes the review process during the review dates:

Review Type	March	June	September	December
Constituent Review	✓	✓	✓	✓
Liquidity Review	✓		✓	
Free Float Review	✓	✓	✓	✓
Shares in Issue Review	✓	✓	✓	✓

#### 5.2 Rules for Insertion and Deletion at the Quarterly Review

5.2.1 The rules for inserting and deleting securities at the quarterly review are designed to provide stability in the selection of constituents of the STI while ensuring that the Index continues to be representative of the market by including or excluding those securities that have risen or fallen significantly.

5.2.2 At review, all constituents of the STI must be existing or pending constituents of the FTSE ST All-Share Index, i.e. the review will take into consideration any constituent changes to the FTSE ST All-Share Index as announced by FTSE Russell and will therefore be conducted before the implementation date of these changes.

5.2.3 A company will be inserted into the STI at the quarterly review if it rises to 20<sup>th</sup> position or above when the eligible securities are ranked by full market capitalisation (before the application of any investability weightings).

- 5.2.4 A company in the STI will be deleted at the quarterly review if it falls to 41<sup>st</sup> position or below when the eligible securities are ranked by full market capitalisation (before the application of any investability weightings).
- 5.2.5 A constant number of constituents will be maintained for the STI. Where a greater number of companies qualify to be inserted in the index than those qualifying to be deleted, the lowest ranking constituents presently included in the index will be deleted to ensure that an equal number of companies are inserted and deleted at the quarterly review. Likewise, where a greater number of companies qualify to be deleted than those qualifying to be inserted, the securities of the highest ranking companies that are presently not included in the index will be inserted to match the number of companies being deleted at the quarterly review.
- 5.2.6 Where a company is deleted from the STI after FTSE Russell, SGX and SPH have approved quarterly changes to the Indexes, but before the quarterly changes have been implemented, the highest ranking company from the new Reserve List (see Rule 5.3), excluding current index constituents, will replace the deleted company.
- 5.3 **Reserve Lists**
- 5.3.1 FTSE Russell will be responsible for publishing the five highest ranking non-constituents of the STI at the time of the quarterly review. The Reserve List will be used in the event that one or more constituents are deleted during the period up to the next quarterly review.

## Section 6

# Changes to Constituent Companies

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### 6.0 Changes to Constituent Companies

#### 6.1 New Issues

6.1.1 If a new issue is so large (i.e. its full market capitalisation amounts to 2% or more of the FTSE ST All-Share Index, before application of individual constituent investability weightings) that the effectiveness of the index as a market indicator would be significantly and adversely affected by its own omission, FTSE Russell will include the new issue as a constituent of the STI after the close of business on the fifth day of trading and eligibility will be determined using the closing price on the first day of trading. In all cases, advance notification confirming the timing of the inclusion of the new constituent will be given accordingly. Therefore the lowest ranking constituent in the STI will be removed and placed in the Reserve List. In the event that the fifth day of trading is in close proximity to an index review, FTSE Russell may use its discretion to include a fast entrant at the index review date following advance notice.

Please note: Only those shares being offered for sale in the IPO will be included within the index weighting at the time of fast entry inclusion (subject to not being categorised as restricted shares as defined within the Free Float Restrictions document).

6.1.2 New issues with a secondary market listing on SGX (i.e. where there is a primary listing on another Exchange) will be considered for inclusion at the next quarterly review.

6.1.3 If FTSE Russell decides to include a new issue as a constituent security other than as part of the normal quarterly review procedure, this decision must be publicly announced at the earliest practicable time.

6.1.4 For the purpose of this Rule, a company that is reorganised or renamed or arises from a demerger or complex reorganisation of another company that is not an existing constituent, shall not be considered to be a new issue.

6.1.5 Variable and best effort IPOs\* will not be considered for fast entry inclusion since FTSE Russell would be:

- unable to confirm if the minimum free float requirement has been met; and
- unable to assign an accurate free float for the purposes of the index calculation.

Direct listing IPOs will be eligible for consideration for fast entry inclusion if there is confirmation, in advance, of the number of shares that will be made available at the time of listing (e.g. specific

holders have publicly disclosed a commitment to sell a number of shares). If there is no disclosure in advance, the company will not be considered as a potential fast entry addition.

- 6.1.6 Variable and best effort IPOs and those direct listing IPOs (which do not qualify as a fast entrant) will be considered for index inclusion at the next semi-annual review if, by the review cut-off date, a public disclosure\* is available confirming either the actual number of shares sold during the offering or the post IPO shareholder structure. Index inclusion remains subject to meeting all other eligibility criteria. If the number of shares sold during the IPO, or the post IPO shareholder structure, remains unknown on the review cut-off date, the evaluation of the company will be deferred to a subsequent semi-annual review.

\*A public disclosure is typically by way of a company filing, stock exchange notice or shareholding regulatory announcement.

## Section 7

# Corporate Actions and Events

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### 7.0 Corporate Actions and Events

7.1 Full details of changes to constituent companies due to corporate actions and events can be accessed in the Corporate Actions and Events Guide using the following link:

[Corporate Actions and Events Guide.pdf](#)

A Corporate ‘Action’ is an action on shareholders with a prescribed ex date. The share price will be subject to an adjustment on the ex date. These include the following:

- Capital Repayments
- Rights Issues/Entitlement Offers
- Stock Conversion
- Splits (sub-division) / Reverse splits (consolidation)
- Scrip issues (Capitalisation or Bonus Issue)

A Corporate ‘Event’ is a reaction to company news (event) that may impact the index depending on the index rules. For example, a company announces a strategic shareholder is offering to sell their shares (secondary share offer) – this could result in a free float weighting change in the index. Where an index adjustment is required FTSE Russell will provide notice advising of the timing of the change.

### 7.2 Shares in Issue

Changes to the number of shares in issue for constituent securities are covered in the Corporate Actions and Events Guide.

### 7.3 Investability Weightings

Changes to free float for constituent securities are covered in the Corporate Actions and Events Guide.

### 7.4 Mergers, Restructuring and Complex Takeovers

7.4.1 If the effect of a merger or takeover is that one constituent in the STI is absorbed by another constituent, the resulting company will remain a constituent of the index, and a vacancy will be created. This vacancy will be filled by selecting the highest ranking security by full market capitalisation in the Reserve List as at the close of the index calculation two days prior to the deletion.

7.4.2 If a constituent company in the STI is taken over by a non-constituent company, the original constituent will be removed and replaced by the highest ranking non-constituent in the Reserve List.

Any eligible company resulting from the takeover, subject to Section 4.0, will be eligible to become the replacement company if it is ranked higher than any company on the Reserve List.

- 7.4.3 If a constituent company is split to form two or more companies, then the resulting companies will be eligible for inclusion as index constituents in the STI provided they are larger than the smallest constituent, based on their respective full market capitalisations (before the application of any investability weightings) and if they qualify in all other respects. For example, a STI constituent split into two companies may result in one or both of these companies remaining in the STI. Where both of these companies remain in the STI, the smallest STI constituent will be selected for removal.
- 7.4.4 Index constituent changes resulting from the split will be determined based on market values at close on day one of trading and applied with two days' notice. Consequently the STI may have more than 30 companies for three days.

## 7.5 Deletions and Replacements

- 7.5.1 If a constituent is delisted from the SGX, ceases to have a firm quotation, is subject to a take-over or has ceased to be a viable constituent as defined by the Ground Rules, it will be removed from the list of constituents.
- 7.5.2 Where a company is going to be removed the vacancy will be filled by selecting the highest ranking security by full market value in the Reserve List as at the close of the index calculation two days prior to the deletion.
- 7.5.3 A company deleted following a takeover, with a remaining free float of 15% or less, will not be re-considered for index inclusion until completion of a one-year trading record.
- 7.5.4 Constituents removed in accordance with Rule 6.2.3, but which continue to trade thereafter, will be considered for re-inclusion to the index at the next review, subject to Section 4 and at least six months having passed between deletion and the implementation date of the changes arising from the review.

## 7.6 Suspension of Dealing

- 7.6.1 Suspension of dealing rules can be found within the Corporate Actions and Events Guide.

## Section 8

# Industry Classification Benchmark (ICB)

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### 8.0 Industry Classification Benchmark (ICB)<sup>6</sup>

#### 8.1 Classification Structure

- 8.1.1 The constituents of the STI are classified into Industries, Supersectors, Sectors and Subsectors, as defined by the Industry Classification Benchmark (ICB).
- 8.1.2 Details of the Industry Classification Benchmark are available from FTSE Russell and published on the FTSE Russell website ([www.ftserussell.com](http://www.ftserussell.com)) and can be accessed using the following link: [Industry Classification Benchmark](#)

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<sup>6</sup> FTSE indexes will migrate to the new ICB classification system in March 2021.

## Section 9

# Indexes Algorithm and Calculation Method

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### 9.0 Indexes Algorithm and Calculation Method

#### 9.1 Prices

9.1.1 The STI will use actual last trade prices, where available, for securities in the real-time calculation.

9.1.2 Prices used in the official closing index value can be accessed using the following link:

[Closing Prices Used For Index Calculation.pdf](#)

9.1.3 Thomson Reuters real-time exchange rates are used in the real-time index calculations.

#### 9.2 Calculation Frequency

9.2.1 The STI will be calculated and published in real-time.

#### 9.3 Index Calculation

9.3.1 The STI is calculated using the following formula:

$$\sum_{i=1}^N \frac{(p_i \times e_i \times s_i \times f_i)}{d}$$

Where:

- $i=1,2,\dots,N$
- $N$  is the number of securities in the index.
- $p_i$  is the latest trade price of the component security (or the price at the close of the Index on the previous day).
- $e_i$  is the exchange rate required to convert the security's currency into the index's base currency.
- $s_i$  is the number of shares in issue used by FTSE Russell for the security, as defined in these Ground Rules.
- $f_i$  is the Investability Weighting Factor to be applied to a security to allow amendments to its weighting, expressed as a number between 0 and 1, where 1 represents a 100% free float. This factor is published by FTSE Russell for each security in the underlying index.
- $d$  is the divisor, a figure that represents the total issued share capital of the index at the base date. The divisor can be adjusted to allow changes in the issued share capital of individual securities to be made without distorting the index.

## Appendix A: Index Opening and Closing Hours

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Index	Open	Close
STI	09:00 (01:00)	17:10 (09:10)

Notes:

1. The index will not be calculated on Public Holidays.
2. Timings are local hours (GMT hours in brackets).

### Foreign Exchange Rates

The foreign exchange rates used in the calculation of the STI are Thomson Reuters real time spot rates.

The Singapore dollar is the base currency for all index calculations. Non Singapore dollar-denominated constituents prices are converted into Singapore dollars in order to calculate the index.

The foreign exchange rates received from Thomson Reuters at 17:00 hours are the bid rates and are used to calculate the final Index levels. These are termed the “closing foreign exchange rates”.

## Appendix B: Status of Indexes

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The STI is calculated in Singapore Dollars and may exist in the following states.

### A) Firm

- i) The Indexes are being calculated during Official Market Hours (see Appendix A). No message will be displayed against the index value.
- ii) The Official Closing Price for the STI will be the Singapore Stock Exchange Official Closing Price.

### B) Closed

The index has ceased all calculations for the day. The message 'CLOSE' will be displayed against the index value calculated by FTSE Russell.

### C) Held

During Official Market Hours, the index has exceeded pre-set operating parameters and the calculation has been suspended pending resolution of the problem. The message 'HELD' will be displayed against the last index value calculated by FTSE Russell.

### D) Indicative

If there is a system problem or situation in the market that is judged to affect the quality of the constituent prices at any time when the index is being calculated, the index will be declared indicative (e.g. normally where a 'fast market' exists in the equity market). The message 'IND' will be displayed against the index value calculated by FTSE Russell.

The official opening and closing hours of the STI are set out in Appendix A. Variations to the official hours of the Indexes will be published by FTSE Russell.

US Dollar, Euro, UK Sterling and Japanese Yen values will be calculated on an end-of-day basis.

## Appendix C: Further Information

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A Glossary of Terms used in FTSE Russell's Ground Rule documents can be found using the following link: [Glossary.pdf](#)

Further information on the STI is available from FTSE Russell.

For FTSE Russell contact details please visit [www.ftserussell.com](http://www.ftserussell.com)

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