Top 40 Minimum Variance Indices

Non-Live Data Products Specifications

Version: 1.0

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1 VERSION CONTROL

Version	Author	Date	Reason for Change
1.0	Tshepo Modise	April 2020	Initial Document Publication



2 DISCLAIMER

This document is provided strictly for informational purposes solely for developing or operating systems for your use that interact with the market data systems of the JSE. The JSE reserves the right to withdraw, modify, or replace the specification (or any part thereof) at any time by means of a notice to contracted clients.

To the extent allowed by law, JSE does not (expressly, tacitly or impliedly) guarantee or warrant the availability, sequence, accuracy, completeness, reliability or any other aspect of any of the information contained in, linked to or distributed through this specification, or that the information contained therein is up to date.

3 INTRODUCTION

This document contains the file specifications of FTSE/JSE Index files that comprise of data on Index movements in the following Index products:

- 1. Valuations
- 2. Constituents
- 3. Tracker
- 4. Opening Constituents
- 5. Five Day Tracker

Prospective subscribers that are interested in subscribing to a data file(s) must contact the Market Data Department in writing via MDSalesTeam@jse.co.za.

3.1 FTP SITE AND FOLDERS

Data files are made available via the Information Delivery Portal (IDP), which is the JSE's primary client facing FTP server. IDP is access controlled so access to it requires an approved IDP userid and password.

When connecting to the IDP portal, users will be allowed access using different protocols. Please refer to the Information Delivery Portal Connectivity document: https://www.jse.co.za/services/market-data/technical-documents

Access to the IDP FTP server is granted as per the following process.

3.2 CONFIRMATION OF USER ID AND PASSWORD

- 1. If you are a new IDP user, a representative from the JSE Market Data Support will provide you with your User name and password
- 2. A Market Data Account Manager from the Information Services Division will contact you to confirm receipt of the data file(s), User ID and Password.
- 3. The onus is on you to test as soon as you have received the above-mentioned information to ensure that you can successfully access the IDP server.

Should you experience any problems relating to the information communicated to you or the actual testing using the provided information, please contact the under-mentioned persons for assistance:

1. Client Service Centre 011 520 7777 / 7799

2. Market Data Department 011 520 7000



4 SECTOR CLASSIFICATION

Securities are classified according to the ICB Classification System,

Please refer to the link below for more information regarding the new ICB structure that was introduced on 1 July 2019:

https://www.ftserussell.com/data/industry-classification-benchmark-icb

5 EXPLANATION OF THE INDEX TREATMENT FOR SPECIFIC CORPORATE ACTIONS (DUMMY LINES IN DATA PRODUCTS)

FTSE Russell Rules regarding the use of Dummy Lines in Indices:

- 1.1. Dummy lines are non-tradable instruments which have been temporarily created by FTSE/JSE in order to reflect a corporate event.
- 1.2. The use of dummy lines is normally determined on an ad hoc basis and typically results from complexities surrounding a corporate event.
- 1.3. Where the use of dummy lines is necessary FTSE/JSE provides advance notification either via an Informative Notice published on the FTSE/JSE website. Dummy lines will also be visible within the standard corporate action deliverables when they are being utilized.
- 1.4. Dummy lines are generally used in order to ensure the index reflects the investor experience or in order to facilitate index replication by index funds.

Under this rule the JSE would add in a dummy line on ex-date to represent the distribution until after settlement date, and then subsequently delete the dummy line and increase the free float in the distributed stock on the same date.

If the distributed instrument is not eligible for index inclusion, the index divisor will change with the deletion of the dummy line.

On the ex-date of the distribution:

- The stock which is distributing its shareholding price will be adjusted.
- This is offset by the addition of a dummy line which corresponds with the value of the distribution the terms are applied to the share figure and the price is updated nightly to match the close price of the stock which is being distributed.
- Market cap neutral for all holders.

T + 2 from the settlement occurring:

- The dummy line is deleted.
- The stock which has been distributed has it's free float adjusted to reflect the terms distributed into the index
- Market cap neutral only for the shared indexes.

An ISIN will be generated to contain the word 'DUMMY' in order to distinguish it from other securities.

N.B. Please refer to FTSE Russell Corporate Actions and Events Guide for Market Capitalisation Weighted Indexes on this link: Click Here



6 FILE LOCATIONS

6.1 FILES THAT WILL BE PLACED IN THE IDP FTP SERVER

File Name	File Description	FTP Location
j4mvv	FTSE/JSE Top 40 Minimum Variance Index Valuation Service	Index Values
j4mvc	FTSE/JSE Top 40 Minimum Variance Index Constituent Service	Constituents
j4mvt	FTSE/JSE Top 40 Minimum Variance Index Tracker Service	Trackers
j4mvo	FTSE/JSE Top 40 Minimum Variance Index Open Constituent Service	Opening Constituents
j4mvf	FTSE/JSE Top 40 Minimum Variance Index Five Day Tracker Service	5 Day Trackers
j4mvr	FTSE/JSE Top 40 Minimum Variance Index Indicative Review Service	Indicative Review



7 FTSE / JSE MINIMUM VARIANCE PRODUCT MAKEUP

7.1 VALUATIONS DATA FILES (INDEX VALUES)

CSV Report(s)		
Report Name	AAAAv <ddmm>.csv</ddmm>	
Report type	CSV	
Delimiter	comma ","	
Section Delimiter	YYYYYYYY	
File Delimiter	XXXXXXXXX	
Total rows	Varies	
Total columns	Fixed - 23	
	Heading	
	Actual/ <pattern>/(Example)</pattern>	Row, Column
Report Date	<dd mm="" yyyy="">(a) an</dd>	1, 1
Report Title	FTSE/JSE Top 40 Minimum Variance Index Valuation Service	2, 1
Column headings		4,1-23
	Detail	
Field Name	Field Description	Column No.
Index Code	Each index is identified by a unique code	1
Index/Sector Name	Index sector name	2
Number of constituents	Number of lines of stock included in index calculation (including secondary lines), as at today's market close	3
Price Index (ZAR)	Index price in Rands	4
Price Index (USD)	Index price in US Dollars	5
Price Index (EUR)	Index price in EUROS	6
Price Index (GBP)	Index price in British Pounds	7
Price Index (JPY)	Index price in Yen	8
Price Index (AUD)	Index price in Australian Dollars	9
Total Return Index (ZAR)	Today's total return index value in Rands	10



Total Return Index (USD)	Today's total return index value in US Dollars	11
Total Return Index (EUR)	Today's total return index value in EURO	12
Total Return Index (GBP)	Today's total return index value in British Pounds	13
Total Return Index (JPY)	Today's total return index value in Yen	14
Total Return Index (AUD)	Today's total return index value in Australian Dollars	15
Mkt Cap (ZAR)	Market capitalisation in Rands	16
Mkt Cap (USD)	Market capitalisation in US Dollars	17
Mkt Cap (EUR)	Market capitalisation in EURO	18
Mkt Cap (GBP)	Market capitalisation in British Pounds	19
Mkt Cap (JPY)	Market capitalisation in Japanese Yuan	20
Mkt Cap (AUD)	Market capitalisation in Australian Dollars	21
Dividend yield	Dividend yield of the index	22
XD adjustment (YTD)	Ex-dividend adjustment year to date	23



7.2 CONSTITUENTS DATA FILES

CSV Report(S)				
Report Name	port Name AAAAc <ddmm>.csv</ddmm>			
Report type				
ield Delimiter comma ","				
Section Delimiter	Section Delimiter YYYYYYYYYY			
File Delimiter	XXXXXXXXX			
Total rows	Varies			
Total columns	Fixed - 22			
	Heading			
	Actual/ <pattern>/(Example)</pattern>	Row, Column		
Report Date	<dd mm="" yyyy="">(a) an</dd>	1, 1		
Report Title	FTSE/JSE Top 40 Minimum Variance Index Constituent Service	2, 1		
Column headings		4,1-22		
Detail				
Field Name	Field Description	Column No.		
Cons Code	Unique constituent code derived by FTSE	1		
SEDOL	Stock Exchange Daily Official List identifier, a unique identifier of securities used in the United Kingdom and Ireland for clearing purposes	2		
Local Market Code	Equity Alpha Code	3		
ISIN	The ISIN (International Securities Identification Number) uniquely identifies all Active and Suspended securities internationally	4		
Constituent Name	Name of constituent (Tradable instrument as provided by FTSE)	5		
Country Code	Country code for constituent (SAF)	6		
ISO Code	ISO currency code for constituent (ZAR)	7		
Exchange Code	Primary exchange code for constituent as defined by FTSE (e.g. AAS = Australian Securities Exchange and NCT = Toronto Stock Exchange)	8		
Price	Closing price in ZAR	9		
Shares in Issue	Shares in issue figure used in the index series	10		



Weighting	Constituent market capitalisation adjustment factor.	11
Industry	Industry code	12
Supersector	Super sector code	13
Sector	ICB sector code	14
Subsector	ICB sub-sector code	15
Dividend Yield	Dividend yield per constituent	16
Mkt Cap (ZAR) before investability weight	Gross market capitalisation (i.e. before the application of any investability weightings) in Rand millions at market close	17
Mkt Cap (ZAR) after investability weight	Net market capitalisation (i.e. after the application of the weight adjustment factor and free float) in Rand millions at market close	18
Minimum Variance Factor	Minimum variance factor	19
Mkt Cap (ZAR) after Minimum Variance Factor	Net market capitalisation after the application of minimum variance factor	20
% Weight within FTSE/JSE Top 40	Percentage weighting within the Index	
Minimum Variance Index		21
FTSE Index Marker	String of max 12 index codes to which this constituent/tradable instrument belongs	22



7.3 TRACKERS DATA FILES

7.3.1 Index Level data

CSV Report(s)				
Report Name	AAAAt <ddmm>.csv</ddmm>			
Report type	CSV			
Field Delimiter	comma ","			
Section Delimiter	YYYYYYYY			
File Delimiter	XXXXXXXXX			
Total rows	Varies			
Total columns	Fixed - 9			
	Heading			
	Actual/ <pattern>/(Example)</pattern>	Row, Column		
Report Date	<dd mm="" yyyy="">(a) an</dd>	1, 1		
Report Title	FTSE/JSE Top 40 Minimum Variance Index Tracker Service	2, 1		
Report Sub Title	TRACK01 - Index level data	4,1		
Column headings		6,1-9		
Detail				
Field Name	Field Description	Column No.		
Index Code	Each index is identified by a unique code	1		
Index/Sector Name	Index sector name	2		
Old Number of Constituents	Number of constituents included in the index calculation (including secondary lines), as at market close	3		
New Number of Constituents	Adjusted number of constituents included in the index calculation (including secondary lines), after effected changes	4		
Previous Market Capitalisation	Previous closing weighted market capitalization	5		
New Market Capitalisation	Current closing weighted market capitalization, after amendments effective today	6		
Previous Divisor	Index divisor as at market close	7		
New Divisor	Adjusted index divisor after effected changes	8		
XD Adjustment Value	Total ex-dividend adjustment value for the index	9		



7.3.2 Stock level data – weighting amendments

	AAAA BRIM	
Report Name	AAAAt <ddmm>.csv</ddmm>	
Report type	CSV	
Field Delimiter	comma ","	
Section Delimiter	YYYYYYYY	
File Delimiter	XXXXXXXXX	
Total rows	Varies	
Total columns	Fixed - 22	
	Heading	
	Actual/ <pattern>/(Example)</pattern>	Row, Column
Report Date	<dd mm="" yyyy="">(a) an</dd>	1, 1
Report Title	FTSE/JSE Top 40 Minimum Variance Index Tracker Service	2, 1
Report Sub Title	TRACK02 - Stock level data - weighting amendments	10,1
Column headings		,1-22
	Detail	
Field Name	Field Description	Column No.
Cons Code	Unique constituent code derived by FTSE	1
Constituent Name	Name of constituent (Tradable instrument as provided by FTSE)	2
SEDOL	Stock Exchange Daily Official List identifier, a unique identifier of securities used in the United	
	Kingdom and Ireland for clearing purposes	3
Local Market Code	Equity Alpha Code	4
ISIN	The ISIN (International Securities Identification Number) uniquely identifies all Active and	
	Suspended securities internationally	5
Country Code	Country code for constituent (SAF)	6



Exchange Code	Primary exchange code for constituent as defined by FTSE (e.g. AAS = Australian Securities	
	Exchange and NCT = Toronto Stock Exchange)	7
Currency Code	ISO currency code for constituent (ZAR)	8
Index Marker	Each index is identified by a unique code	9
Closing Subsector Code	Closing ICB sub-sector code as at market close	10
New Subsector Code	New ICB sub-sector code for the next day market open	11
Closing Price	Closing price at market close in Rand	12
Price Adjustment Factor	Price adjustment factor, e.g. in the case of a corporate action related to a capital repayment	13
Adjusted Price	Opening price for the next trading day in Rand	14
Current Shares in Issue	Shares in issue figure at market close	15
New Shares in Issue	New shares in issue figure for next day market open	16
Closing Investability Weight	Percentage of shares in issue included in index calculation at market close (i.e. free float)	17
New Investability Weight	New free float percentage for next day market open	18
Current Minimum Variance Factor	The currently applied constituent market capitalisation adjustment factor on the constituent as at today. This value is a decimal number but is only shown if the value is affected by the amendment.	19
New Minimum Variance Factor	The constituent market capitalisation adjustment factor on the constituent as it will be on the next trading day. This value is a decimal number but is only shown if the value is affected by the amendment.	20
Amendment Code	FTSE code for weighting and housekeeping amendments	21
Amendment Notes	Details, where available, on FTSE amendment code	22



7.3.1 Stock level data – Ex-dividend changes

CSV Report(S)					
Report Name					
Report type					
Field Delimiter comma ","					
Section Delimiter	Section Delimiter YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY				
File Delimiter	XXXXXXXXX				
Total rows	Varies				
Total columns	Fixed - 17				
	Heading				
	Actual/ <pattern>/(Example)</pattern>	Row, Column			
Report Date	<dd mm="" yyyy="">(a) an</dd>	1, 1			
Report Title	FTSE/JSE Top 40 Minimum Variance Index Tracker Service	2, 1			
Report Sub Title	TRACK03 - Stock level data - Ex-dividend changes	15,1			
Column headings		,1-17			
	Detail Detail				
Field Name	Field Description	Column No.			
Cons Code	Unique constituent code derived by FTSE	1			
Constituent Name	Name of constituent (tradable instrument as provided by FTSE).	2			
SEDOL	Stock Exchange Daily Official List identifier, a unique identifier of securities used in the				
	United Kingdom and Ireland for clearing purposes	3			
Local Market Code	Equity Alpha Code	4			
ISIN	The ISIN (International Securities Identification Number) uniquely identifies all Active and				
	Suspended securities internationally.	5			
Country Code	Country code for constituent (SAF)	6			
Exchange Code	Primary exchange code for constituent as defined by FTSE (e.g. AAS = Australian Securities Exchange and NCT = Toronto Stock Exchange)	7			
Subsector Code	ICB Subsector Code	8			
Shares in Issue	Shares in issue figure used in the index series	9			



Investability Weight	Percentage of shares in issue included in index calculation (determined by one – year forecast dividend yield).	10
Ex-Dividend Date	Date the security is XD	11
Dividend Amount	Dividend amount in Rand	12
Currency Code	ISO currency code for constituent (ZAR)	13
Index Marker	String of max 12 index codes to which this constituent/tradable instrument belongs	14
XD Adjustment Value	Ex-dividend adjustment value for constituent	15
FTSE Dividend Code	FTSE codes for the types of dividend payments	16
FTSE Dividend Notes	Details, where available, on FTSE dividend code	17



7.4 OPENING CONSTITUENTS DATA FILE

CSV Report(S)		
Report Name	AAAAc <ddmm>.csv</ddmm>	
Report type	CSV	
Field Delimiter	comma ","	
Section Delimiter	YYYYYYYY	
File Delimiter	XXXXXXXXX	
Total rows	Varies	
Total columns	Fixed - 22	
	Heading	
	Actual/ <pattern>/(Example)</pattern>	Row, Column
Report Date	<dd mm="" yyyy="">(a) an</dd>	1, 1
Report Title	FTSE/JSE Top 40 Minimum Variance Index Open Constituent Service	2, 1
Column headings		4,1-22
	Detail	
Field Name	Field Description	Column No.
Cons Code	Unique constituent code derived by FTSE	1
SEDOL	Stock Exchange Daily Official List identifier, a unique identifier of securities used in the United Kingdom and Ireland for clearing purposes	2
Local Market Code	Equity Alpha Code	3
ISIN	The ISIN (International Securities Identification Number) uniquely identifies all Active and Suspended securities internationally	4
Constituent Name	Name of constituent (Tradable instrument as provided by FTSE)	5
Country Code	Country code for constituent (SAF)	6
ISO Code	ISO currency code for constituent (ZAR)	7
Exchange Code	Primary exchange code for constituent as defined by FTSE (e.g. AAS = Australian Securities Exchange and NCT = Toronto Stock Exchange)	8
Price	Closing price in ZAR	9
Shares in Issue	Shares in issue figure used in the index series	10



Weighting	Constituent market capitalisation adjustment factor.	11
Industry	Industry code	12
Supersector	Super sector code	13
Sector	ICB sector code	14
Subsector	ICB sub-sector code	15
Dividend Yield	Dividend yield per constituent	16
Mkt Cap (ZAR) before investability weight	Gross market capitalisation (i.e. before the application of any investability weightings) in Rand millions at market close	17
Mkt Cap (ZAR) after investability weight	Net market capitalisation (i.e. after the application of the weight adjustment factor and free float) in Rand millions at market close	18
Minimum Variance Factor	Minimum variance factor	19
Mkt Cap (ZAR) after Minimum Variance Factor	Net market capitalisation after the application of minimum variance factor	20
% Weight within FTSE/JSE Top 40 Minimum Variance Index	Percentage weighting within the Index	21
FTSE Index Marker	String of max 12 index codes to which this constituent/tradable instrument belongs	22



7.5 FIVE DAY TRACKER DATA FILE

CSV Report(s)		
Report Name	AAAAf <ddmm>.csv</ddmm>	
Report type	CSV	
Field Delimiter	comma ","	
Section Delimiter	YYYYYYYY	
File Delimiter	XXXXXXXXX	
Total rows	Varies	
Total columns	Fixed - 24	
	Heading	
		Row,
	Actual/ <pattern>/(Example)</pattern>	Column
Report Date	<dd mm="" yyyy="">(a) an</dd>	1, 1
Report Title	FTSE/JSE Top 40 Minimum Variance Index Five Day Tracker Service	2, 1
Report Sub Title		
Column headings		4,1-24
	Detail	
Field Name	Field Description	Column No.
Last Modified	The date on which the amendment was last changed (When an amendment does not have	
	any changes, the previously published date is resent - DD/MM/YYYY)	1
Effective Date	The date on which the amendment will be applied to the constituent (DD/MM/YYYY)	2
Cons Code	Unique constituent code derived by FTSE	3
Constituent Name	Name of constituent (Tradable instrument as provided by FTSE)	4
SEDOL	Stock Exchange Daily Official List identifier, a unique identifier of securities used in the United	
	Kingdom and Ireland for clearing purposes	5
Local Market Code	Equity Alpha Code	6
ISIN	The ISIN (International Securities Identification Number) uniquely identifies all Active and	_
Country Code	Suspended securities internationally	7
Country Code	Country code for constituent (SAF)	8



Exchange Code	Primary exchange code for constituent as defined by FTSE (e.g. AAS = Australian Securities	
	Exchange and NCT = Toronto Stock Exchange)	9
Currency Code	ISO currency code for constituent (ZAR)	10
Index Marker	Each index is identified by a unique code	11
Closing Subsector Code	Closing ICB sub-sector code as at market close	12
New Subsector Code	New ICB sub-sector code for the next day market open	13
Closing Price	Closing price at market close in Rand	14
Price Adjustment Factor	Price adjustment factor, e.g. in the case of a corporate action related to a capital repayment	15
Adjusted Price	Opening price for the next trading day in Rand	16
Current Shares in Issue	Shares in issue figure at market close	17
New Shares in Issue	New shares in issue figure for next day market open	18
Closing Investability Weight	Percentage of shares in issue included in index calculation at market close (i.e. free float)	19
New Investability Weight	New free float percentage for next day market open	20
Current Minimum Variance Factor	The currently applied constituent market capitalisation adjustment factor on the constituent as at today. This value is a decimal number but is only shown if the value is affected by the	
	amendment.	21
New Minimum Variance Factor	The constituent market capitalisation adjustment factor on the constituent as it will be on the next trading day. This value is a decimal number but is only shown if the value is affected by	
	the amendment.	22
Amendment Code	FTSE code for weighting and housekeeping amendments	23
Amendment Notes	Details, where available, on FTSE amendment code	24



7.6 INDICATIVE REVIEW DATA FILES

CSV Report(s)		
Report Name	AAAAc <ddmm>.csv</ddmm>	
Report type	CSV	
Field Delimiter	comma ","	
Section Delimiter	YYYYYYYY	
File Delimiter	XXXXXXXXX	
Total rows	Varies	
Total columns	Fixed - 22	
	Heading	
	Actual/ <pattern>/(Example)</pattern>	Row, Column
Report Date	<dd mm="" yyyy="">(a) an</dd>	1, 1
Report Title	FTSE/JSE Top 40 Minimum Variance Index Indicative Review Service	2, 1
Column headings		4,1-22
	Detail	
Field Name	Field Description	Column No.
Cons Code	Unique constituent code derived by FTSE	1
SEDOL	Stock Exchange Daily Official List identifier, a unique identifier of securities used in the United Kingdom and Ireland for clearing purposes	2
CUSIP	Committee on Uniform Securities Identification Procedures (CUSIP), a unique identifier of securities specific to United States and Canada	3
ISIN	The ISIN (International Securities Identification Number) uniquely identifies all Active and Suspended securities internationally	4
Constituent Name	Name of constituent (Tradable instrument as provided by FTSE)	5
Country Code	Country code for constituent (SAF)	6
ISO Code	ISO currency code for constituent (ZAR)	7
Exchange Code	Primary exchange code for constituent as defined by FTSE (e.g. AAS = Australian Securities Exchange and NCT = Toronto Stock Exchange)	8
Price	Closing price in ZAR	9



Shares in Issue	Shares in issue figure used in the index series	10
Weighting	Constituent market capitalisation adjustment factor.	11
Industry	Industry code	12
Supersector	Super sector code	13
Sector	ICB sector code	14
Subsector	ICB sub-sector code	15
Dividend Yield	Dividend yield per constituent	16
Mkt Cap (ZAR) before investability weight	Gross market capitalisation (i.e. before the application of any investability weightings) in Rand millions at market close	17
Mkt Cap (ZAR) after investability weight	Net market capitalisation (i.e. after the application of the weight adjustment factor and free float) in Rand millions at market close	18
Minimum Variance Factor	Minimum variance factor	19
Mkt Cap (ZAR) after Minimum Variance Factor	Net market capitalisation after the application of minimum variance factor	20
% Weight within FTSE/JSE Top 40 Minimum Variance Index	Percentage weighting within the Index	21
FTSE Index Marker	String of max 12 index codes to which this constituent/tradable instrument belongs	22