

PRODUCT SPECIFICATION

FTSE RAFI Index Series
FTSE RAFI Developed ex US 1000 Tracker Service

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INDEX SPECIFICATION

INDEX DESCRIPTION

- The FTSE RAFI Index Series, calculated in association with Research Affiliates is a family of indices using specific fundamental factors that weights index constituents, rather than market capitalization. The weights are therefore not dependant upon price-based stock market based valuations. The FTSE RAFI Index Series consists of two headline and 22 developed country market indices.

INDEX ATTRIBUTES

- The following index table shows the specifications of the index and the attributes.

Index Specification	Attribute
Index Names	FTSE RAFI Top Level Indices FTSE RAFI Developed ex US 1000 Index* FTSE RAFI Country Indices FTSE RAFI Australia Index FTSE RAFI Belgium / Luxembourg Index FTSE RAFI Canada Index FTSE RAFI Denmark Index FTSE RAFI Finland Index FTSE RAFI France Index FTSE RAFI Germany Index FTSE RAFI Greece Index FTSE RAFI Hong Kong, China Index FTSE RAFI Ireland Index FTSE RAFI Italy Index FTSE RAFI Japan Index FTSE RAFI Netherlands Index FTSE RAFI Norway Index FTSE RAFI New Zealand Index FTSE RAFI Austria Index FTSE RAFI Portugal Index FTSE RAFI Singapore Index FTSE RAFI Spain Index FTSE RAFI Sweden Index FTSE RAFI Switzerland Index FTSE RAFI UK Index
Base Index Date	30 September 2005
Base Index Value	5000
Base Index Currency	Top Level Indices - USD Country Indices – Local Currency
Base Currency Date	30 September 2005

*FTSE RAFI Global ex US 1000 Index will appear as the index name within the file until a name change in October 2006.

PRODUCT SPECIFICATION

FILE RANGE

Index Name	Index Code (Marker)
FTSE RAFI Developed ex US 1000 Index	FRX1
FTSE RAFI Australia Index	FRAUS
FTSE RAFI Austria Index	FRAUT
FTSE RAFI Belgium / Luxembourg Index	FRBEL
FTSE RAFI Canada Index	FRCAN
FTSE RAFI Denmark Index	FRDEN
FTSE RAFI Finland Index	FRFIN
FTSE RAFI France Index	FRFRA
FTSE RAFI Germany Index	FRDEU
FTSE RAFI Greece Index	FRGRC
FTSE RAFI Hong Kong, China Index	FRHKG
FTSE RAFI Ireland Index	FRIRL
FTSE RAFI Italy Index	FRITA
FTSE RAFI Japan Index	FRJPN
FTSE RAFI Netherlands Index	FRNLD
FTSE RAFI Norway Index	FRNOR
FTSE RAFI New Zealand Index	FRNZL
FTSE RAFI Portugal Index	FRPTL
FTSE RAFI Singapore Index	FRSGP
FTSE RAFI Spain Index	FRESP
FTSE RAFI Sweden Index	FRSWE
FTSE RAFI Switzerland Index	FRCHE
FTSE RAFI UK Index	FRGBR

*FTSE RAFI Global ex US 1000 Index will appear as the index name within the file until a name change in October 2006.

FILE NAME

File Name	File Name and Extension
FTSE RAFI Developed ex US 1000 Tracker Service (*Where <i>ddmm</i> is effective date and month)	<i>raxtddmm.csv</i>

FILE DDS PATH

http://data.ftse.com/rafi/rafi_tracker

SERVICE TIMING

Available 23:30 hours GMT (Greenwich Mean Time) or BST (British Summertime) as applicable.

PRODUCT SPECIFICATION

FILE CONTENT

- FTSE RAFI Tracker Service (*fraxtdm.csv*)

FTSERAFI01

Field	Description	Example	Decimal Places	Data Type	Mandatory (Y/N)
Index Code	FTSE Index codes	FR10		String	Y
Old Number of Constituents	Number of lines of stock included in index calculation (including secondary lines), for previous day's close market capitalisation calculation	998	0	Integer	Y
New Number of Constituents	Number of lines of stock included in index calculation (including secondary lines), for adjusted previous day's close market capitalisation calculation	998	0	Integer	Y
Previous Market Capitalisation	Previous day's closing weighted market capitalisation in local currency in millions	4454495.832	3	Float	Y
New Market Capitalisation	Previous day's closing weighted market capitalisation in local currency in millions, after weighting amendments effective today	4454495.832	3	Float	Y
Previous Divisor	Previous day's index divisor in USD Currency, millions	876.024171	6	Float	Y
New Divisor	Today's index divisor in USD Currency, millions	876.024171	6	Float	Y
XD Adjustment Value	Today's XD adjustment figure in USD Currency	0.617	3	Float	Y

FTSERAFI02

Field	Description	Example	Decimal Places	Data Type	Mandatory (Y/N)
Cons Code	Constituent identifier code	C10039		String	N
Constituent Name	Name of company	GUS		String	N
SEDOL	SEDOL Security Identifier	BONH007		SEDOL	N
CUSIP	CUSIP Security Identifier where available			String	N
Country Code	Country code for Security	UK		String	N
Exchange Code	Exchange code for Security	EXL		String	N
ISO Code	ISO Currency code for Security	GBX		String	N
Index Marker	Codes for indexes of which security is a constituent	FRX1G		String	N
Closing Subsector Code	FTSE RAFI Subsector identifier (4 digit code)			Integer	N
New Subsector Code	New FTSE RAFI Subsector identifier (4 digit code)			Integer	N
Price	Previous day's closing price in currency specified	969	6	Float	N
Price Adjustment Factor	Price adjustment factor	1.006873	6	Float	N
Adjusted Price	Share price in currency indicated after weighting amendment	975.66	6	Float	N
Previous Shares In Issue	Number of shares in issue before corporate amendment	1018203168	0	Integer	N
New Shares in Issue	Number of shares in issue after corporate amendment	875654724	0	Integer	N
Previous Investibility Weight	Percentage of market capitalisation in issue included in the Indices at close	100.000000	6	Float	N
New Investibility Weight	New percentage of market capitalisation included in the Indices close	75.000000	6	Float	N
Previous RAFI Factor	Previous RAFI Factor applied to the market capitalisation in issue included in the Indices at close		6	Float	N
New RAFI Factor	New RAFI Factor applied to the market capitalisation in issue included in the Indices at close		6	Float	N
Amendment Code	Code for weighting and housekeeping amendments	CX		String	N
Notes	Details, where available, on weighting amendment code	Complex Event		String	N

FTSERAFI03

Field	Description	Example	Decimal Places	Data Type	Mandatory (Y/N)
Cons Code	Constituent identification code	C02190		String	N
Constituent Name	Name of company	CVS Corp		String	N
SEDOL	Stock Exchange Daily Official List (SEDOL code)	2577609		String	N
CUSIP	CUSIP Security Identifier where available	126650100		String	
Country Code	Country code for constituents	USA		String	N
Exchange Code	Exchange source code	NAY		String	N
Subsector Code	Subsector identifier (4 digit code)	5333		string	
Shares in Issue	Shares in Issue in Index	810056000	0	Integer	N
Investability Weight	% of shares in issue included in index calculation (determined either by free float rule or share capping)	1.00	2	Percentage	N
Ex-Dividend Date	Date the security is XD	20/04/2006		Datetime	N
Dividend Amount	Dividend amount in currency indicated	0.038750	6	Float	N
ISO Currency Code	Currency code for dividend payment	USD		String	N
Index marker	FTSE codes for the	FR105000		String	N
XD Adjustment Value	Value for adjustment factor	0.098	3	Float	N
FTSE Dividend Code	FTSE code for the types of dividend payment	Q		String	N
FTSE Dividend Notes	Details, where available, on FTSE dividend payment			String	N

FILE EXAMPLE

- **raxtdmm.csv**

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FTSE RAFI Developed ex US 1000 Tracker Service

FTSERAFI01

Index Code,Old Number of Constituents,New Number of Constituents,Previous Market Capitalisation,New
Market Capitalisation,Previous Divisor,New Divisor,XD Adjustment Value
FR10G,992,991,4475517.308,4479508.887,870.487502,871.263863,2.459
FRX1G,1013,1013,5504374.548,5504374.548,1025.785479,1025.785479,0
YYYYYYYYYY

FTSERAFI02

Cons Code,Constituent Name,SEDOL,CUSIP,Country Code,Exchange Code,ISO Code,Index Marker,Closing
Subsector Code,New Subsector Code,Price,Price Adjustment Factor,Adjusted Price,Previous Shares In
Issue,New Shares in Issue,Previous Investibility Weight,New Investibility Weight,Growth Weight
Factor,Value Weight Factor,Amendment Code,Notes
C69844,XL Capital,2283401,G98255105,USA,NAY,USD,FR10G,,,69.5,,,140116100,174422462,,,,,IS,
XXXXXXXXXX

FTSERAFI03

Cons Code,Constituent Name,SEDOL,CUSIP,Country Code,Exchange Code,Sub Sector Code,Shares in
Issue,Investability Weight,Ex-Dividend Date,Dividend Amount,ISO Currency Code,Index Marker,XD
Adjustment Value,FTSE Dividend Code,FTSE Dividend Notes
C02190,CVS
Corp,2577609,126650100,USA,NAY,5333,810056000,100.00%,20/04/2006,0.038750,USD,FR105000,0.09
8,Q,
YYYYYYYYYY
XXXXXXXXXX

EXCHANGE RATES FILE SPECIFICATION

An Exchange Rates file is provided free of charge with this service.

FILE NAME

File Name	File Name and Extension
FTSE Exchange Rates File	WIXR.ddmm.csv*

(* where *ddmm* is effective date and month)

FILE CONTENT

Field	Description	Decimal Places
Date	ddmmyyyy format	
ISO Currency Code	Currency code	
USD Exchange Rate	USD exchange rate used for calculation (WM/Reuters closing rates)	Up to 6

(*where *dd/mm/yyyy* is effective date, month and year)

FILE EXAMPLE

10/06/2004(C) FTSE International Limited 2004. All Rights Reserved
FTSE Exchange Rate Service

Date,ISO Currency Code,USD Exchange Rate

06/10/2004,ARS,2.960000
06/10/2004,ATS,11.379200
06/10/2004,AUD,1.433200
06/10/2004,BEF,33.359500
06/10/2004,BRL,3.110500
06/10/2004,CAD,1.358600
06/10/2004,CHF,1.247200
06/10/2004,CLP,650.550000
06/10/2004,CNY,8.276700
06/10/2004,COP,2732.475000
06/10/2004,CZK,25.916900
XXXXXXXXXX

VERSION HISTORY

Product Specification Document Version History

- Version 1.0 - Initial Product Specification - July 2006

FTSE CONTACT DETAILS

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APPENDIX A

- *FTSE Dividend Codes*

Code	Type of Dividend	FTSE Dividend Notes
F	Final Dividend	
I	Interim Dividend	
Q	Quarter Dividend	
D	Final FID Dividend	
R	Interim FID Dividend	
T	Quarter FID Dividend	
H	Final Ord/FID Dividend	amount of FID payment
J	Interim Ord/FID Dividend	amount of FID payment
K	Quarter Ord/FID Dividend	amount of FID payment
S	Special Dividend	
M	Miscellaneous dividend	
Y	Annually paid dividend	

• **FTSE Amendment Codes**

Note that housekeeping changes will appear above corporate actions in the file.

Housekeeping Changes

CODE	FTSE Amendment Note	Notes for service user
CA	Constituent Addition	Includes quarterly review changes and classification changes
CD	Constituent Deletion	Includes quarterly review changes and classification changes
NC	Name Change	Former name will appear in notes field
SC	SEDOL Change	Former SEDOL code will appear in notes field
CS	CUSIP Change	Former CUSIP code will appear in notes field
CU	Currency Change	Former currency will appear in notes field
SS	Subsector Change	Subsector Classification Code Change
IC	Investability weight change	Terms included in notes field, as available
SW	Share Weight Change	
MC	EPIC Change	Former EPIC code will appear in notes field

Corporate Actions

CODE	FTSE Amendment Note	Notes for service user
CP	Capital Repayment	Terms included in notes field, as available
CI	Capitalisation Issue	Terms included in notes field, as available
RI	Rights Issue	Terms included in notes field, as available
SB	Subdivision	Terms included in notes field, as available
CX	Complex	
CN	Consolidation	Terms included in notes field, as available
IS	Share Change	Includes: Employee shares Exercise of Options Exercise of Warrants Further Issue Issue for Cash Offer for subscription Satisfaction of loan Merger Placing Scheme of Arrangement Vendor Consideration Buy-back Cap in lieu of dividend Company Reorganisation Conversion of shares Exchange Offer