

I/B/E/S DETAIL HISTORY

USER GUIDE

A GUIDE TO THE I/B/E/S ANALYST-BY-ANALYST HISTORICAL
EARNINGS ESTIMATE DATABASE

DECEMBER 2016



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About this document

Intended readership

The I/B/E/S Detail History User Guide is intended for use only by Thomson Reuters clients who receive History directly from Thomson Reuters and not via any third party platform.

In this document

A guide to the I/B/E/S analyst-by-analyst historical earnings estimate database.

Feedback

If you have any comments on this document please contact your local Thomson Reuters customer service or account team by visiting the Thomson Reuters MY ACCOUNT at <https://my.thomsonreuters.com/>.

New in the October 2016 document

Introducing TRBC Classification System

Effective on October 21, 2016. Thomson Reuters will introduce a new set of Sector, Industry, and Group identifiers known as **Thomson Reuters Business Classifications (TRBC)** and the removal of an older schema that has been available in these data feed products for many years.

TRBC is an industry classification system that is owned and operated by Thomson Reuters. The Market-oriented system tracks the primary business of a corporation and reflects global industry practices by grouping together correlated companies that offer products and services into similar end markets.

It is used by the investment community for navigation, aggregation and benchmarking, while delivering a solid foundation for aggregating financial ratios, portfolio benchmarking and attribution analysis. Thomson Reuters I/B/E/S added the following TRBC mapping of its data:

- TRBC Economic Sector
- TRBC Business Sector
- TRBC Industry Group
- TRBC Industry
- TRBC Activity

New Company Level Measures added to Level 3 packages

Effective October 21, 2016 Thomson Reuters will release a Phase 5 expansion to the I/B/E/S Estimates content by adding 17 new Key Performance Indicators (KPIs). The Phase 5 release includes the following industries Generic, Mining and Retail. These new measures will be added to all Level 3 I/B/E/S QFS and History Data Feeds FTP packages, bringing the total number of measures covered to over 240. A full list of measures available can be found starting on page 9.

New Segment Level Measures added to Level 3 packages

Effective November 20, 2016 Thomson Reuters will release 2 new Segment Revenue estimates that represents the Business and Geographical segment data for Sales. This new product level data measure will provide revenue generation of a firm based on the components of its business.

Chapter 1 Overview

Detail Earnings Estimate History contains forecast changes dating back to 1982 for US companies and 1987 for non-US companies. All Detail Files are separated into regions (i.e. <.us> for United States and <.int> for all other countries including Canada.

This data will allow users to test investment techniques in new and innovative ways. Among the many possible applications of historical detail data, notables include:

- Isolate a particular estimator or analyst
The accuracy of any individual estimator's forecast can be tracked over time. Each estimator, analyst or industry team is assigned a unique and independent identification number.
- Back test revisions hypothesis
Functionality allows for the development and back testing of unique derivations of the user's design. The product is created in a relational database format with distinct variables in each file. For example, the I/B/E/S ticker is a unique identifier assigned to each security that is consistent throughout I/B/E/S History. Most other common identifiers (CUSIP, SEDOL, Official Ticker, and Company Name) are subject to change over time. If a user prefers an alternate variable a number of options are available in the Identifier file, File #3 described in this document.

How This Database Is Built

This database is built by applying two methods:

1. For estimates made between 1982 and May 1993, archived monthly detail files were used.
2. For estimates made since June 1993, the data has been sourced from the History production database.

Prior to 1993, Detail History was a reconstruction of archived Detail tapes. Extensive audits were performed to preserve the integrity of the original data.

For a variety of reasons (restricted lists, corporate announcements, etc.) an analyst may discontinue his/her earnings estimates on an individual security. In the source files for the Detail History there is no explicit indicator of this occurrence for periods before June 1993. Stop dates were calculated based on an algorithm. These dates are provided in the Stopped Estimate File, File #13 described in this document.

Company Coverage in the Thomson Reuters Database

For a company to be available in the I/B/E/S History files there must have been at least one analyst providing estimate forecasts for the company.

Inactive Companies in the Thomson Reuters Database

There may be cases where a company is no longer in existence or analysts are no longer contributing forecasts. Estimates will remain in I/B/E/S History in these cases. This helps keep the Thomson Reuters database free from survivorship bias.

Handling Mergers and Acquisitions

When two companies that are both represented in the Thomson Reuters universe merge, the new company may change CUSIP/SEDOL, Name or Official Ticker, as well as any other identifiers. However, the I/B/E/S ticker for the acquiring company will not change. This is done to preserve a historical timeline for the new company. In the Thomson Reuters historical databases, all data relating to the acquired company will stop as of the acquisition date.

Defining Fiscal Periods

The Thomson Reuters database contains estimate data for up to five Annual Fiscal Periods, eight Quarter Fiscal Periods, four Semi-annual Periods, and Long Term Growth.

Because not all companies have the same fiscal year end, Thomson Reuters uses FY1, FY2, etc. to identify estimates for each unique period where the most recently reported actual is denoted as "0". Thus, a company's last reported annual is referred to as FY0, the most recently reported quarter is Q0, and the most recent semi-annual reported earnings is SAN0.

Using the reported periods as a base, the period end dates for all estimated periods are easily calculated. For example, if FY0 corresponds to December 2007 (the last reported annual), the FY1, FY2 and FY3 mean estimates are for the periods ending December 2008, 2009 and 2010, respectively. Looking at the quarterly periods, if Q0 refers to the period ended March 2008 (the last reported quarter), and then the Q1 estimate is for the June 2008 quarter.

International Financial Reporting Standards (IFRS) – 2005

In 2005, The European Union passed a regulation that requires listed European companies to comply with International Financial Reporting Standards (IFRS) for their consolidated financial statements. There is a limited exception for certain companies to delay implementation until 2007. Generally, the regulation applies to consolidated financial statements for accounting periods starting on or after January 1, 2005. Thus, for those companies with 12-month accounting periods covering the calendar year, IFRS was first applied to periods ending on December 31, 2005. As a result, companies first published IFRS financial information as of March 31, 2005 (if they report quarterly) or as of June 30, 2005 (if they report semi-annually).

Estimates collected by Thomson Reuters reflect the adoption of this ruling on a majority basis.

In addition to countries in Europe, IFRS was adopted by parts of Asia, including Australia and New Zealand. For I/B/E/S History, Thomson Reuters implemented IFRS for European countries effective April 9, 2005. The transition period to IFRS is visible for companies in Australia and New Zealand effective September 11, 2005.

FAS123(R)

On December 16, 2004, The Financial Accounting Standards Board (FASB) issued FAS123(R). This ruling requires companies to calculate the fair value of stock options granted to employees, and amortize that amount over the vesting period as an expense through the income statement. FAS123(R) is currently effective for fiscal years beginning after June 15, 2005, with company transition choices of; modified prospective, modified retrospective or early adoption. The effective date of the ruling was then extended from quarterly to annual periods beginning after June 15, 2005.

Estimates collected by Thomson Reuters reflect the adoption of this ruling on a majority basis.

Global Client Support

For further information or assistance, please visit the Thomson Reuters MY ACCOUNT at <https://my.thomsonreuters.com/>.

MY ACCOUNT is the single online entry point to Thomson Reuters support and service functions which include:

- **Contact Us:** Customers who have access to the public internet can log support requests via an online form which captures key information. You will receive an on-screen confirmation number and response to your service request within 15 minutes. Alternatively, you can view a listing of contact numbers.
- Online Notifications: Product change notifications, service alerts and product users guides.
- Community: Online archive of Thomson Reuters newsletters and customer events.
- Access to your invoices

Please note the Thomson Reuters MY ACCOUNT requires registration for first time users. However, clients that already have a Customer Zone account, can use the same credentials to log in to MY ACCOUNT.

If your product is not displayed in the "Product" drop-down box, select "Product not found.... Search more". This will open a free text box and allow you to type your product as defined in this user guide. Once selected, continue to populate the remaining fields.

Chapter 2 File Delivery

Detail History is delivered monthly and contains data collected by Thomson Reuters up to the Thursday before the third Friday of every month (which is the Thomson Reuters monthly production cycle). Historical files are updated and delivered via electronic delivery (FTP) on a monthly basis.

Please note that historical files are archived on the ftp server until Thursday before the third Friday of each month at which time the last month's historical files are removed from all clients' ftp accounts.

History Subscription Levels

Level	Measure Abbreviation	Description	Sector	Regions	
				Int'l	US
Level I	EPS	Earnings per Share	Non-Industry Specific	X	X
Level II	CPS	Cash Flow per Share	Non-Industry Specific	X	X
	DPS	Dividend per Share	Non-Industry Specific	X	X
	EBG	Earnings per Share – Before Goodwill	Non-Industry Specific	X	NA
	FFO	Funds from Operations per Share	Real Estate	X	X
	PRE	Pre-tax Profit (Non per Share)	Non-Industry Specific	X	X
	SAL	Revenue (Non per Share)	Non-Industry Specific	X	X
	N/A	Recommendation	Non-Industry Specific	X	X
Level III	AFO	Adjusted Funds from Operations per Share	Real Estate	X	X
	BPS	Book Value per Share	Non-Industry Specific	X	X
	CGS	Cost of Goods Sold	Non-Industry Specific	X	X
	CPX	Capital Expenditure (Non per Share)	Non-Industry Specific	X	X
	CSH	Cash Earnings Per Share	Non-Industry Specific	X	X
	EBI	EBIT (Non per Share)	Non-Industry Specific	X	X
	EBS	EBITDA per share	Non-Industry Specific	X	X
	EBT	EBITDA (Non per Share)	Non-Industry Specific	X	X
	ENT	Enterprise Value (Non per Share)	Non-Industry Specific	X	X
	EPX	Earnings per Share - Alternate	Non-Industry Specific	NA	X
	FCD	Franking Credits	Non-Industry Specific	X	X
	FCF	Free Cash Flow per share	Non-Industry Specific	X	X
	GAE	General & Admin Expense	Non-Industry Specific	X	X
	GPS	GAAP / Earnings per Share – Fully Reported	Non-Industry Specific	X	X
	GRM	Gross Margin (Percent)	Non-Industry Specific	X	X
	INV	Inventories	Non-Industry Specific	X	X

NAV	Net Asset Value (Non per Share)	Non-Industry Specific	X	X
NDT	Net Debt	Non-Industry Specific	X	X
NER	Reported Net Profit	Non-Industry Specific	X	X
NET	Net income (Non per Share)	Non-Industry Specific	X	X
OPR	Operating Profit (Non per Share)	Non-Industry Specific	X	X
OSG	Organic Sales Growth	Non-Industry Specific	X	X
PRR	Reported Pretax Profit	Non-Industry Specific	X	X
N/A	Price Target	Non-Industry Specific	X	X
ROA	Return on Assets (Percent)	Non-Industry Specific	X	X
ROE	Return On Equity (Percent)	Non-Industry Specific	X	X
SMK	Selling & Marketing Expense	Non-Industry Specific	X	X
TBV	Tangible Book Value per Share	Non-Industry Specific	X	X
ASK	Available Seat Kilometers	Airlines	X	X
ASM	Available Seat Miles	Airlines	X	X
CFC	Completion Factor	Airlines	X	X
OEA	Cost per Available Seat Kilometers	Airlines	X	X
CPA	Cost per Seat Miles	Airlines	X	X
PLF	Passenger Load Factor	Airlines	X	X
RPK	Revenue Passengers Kilometers	Airlines	X	X
RPM	Revenue Passengers Miles	Airlines	X	X
PRA	Revenue per Available Seat Kilometers	Airlines	X	X
PRK	Revenue per Available Seat Miles	Airlines	X	X
RTR	Revenue per RPK	Airlines	X	X
RPP	Revenue per RPM	Airlines	X	X
AMT	Amortization	All	X	X
CCE	Cash & Cash Equivalentents	All	X	X
CFF	Cash Flow from Financing	All	X	X
CFI	Cash Flow from Investing	All	X	X
CFO	Cash Flow from Opeartions	All	X	X
CRA	Current Assets	All	X	X
CRL	Current Liabilities	All	X	X
DFR	Deferred Revenue	All	X	X
DPR	Depreciation	All	X	X
DPA	Depreciation and Amortization	All	X	X

	EBA	Earnings before Interest, Tax and Amortization	All	X	X
	EBP	Earnings before Interest, Tax and Amortization Reported (EBITDA Reported)	All	X	X
	FRC	Free Cash Flow	All	X	X
	GWL	Goodwill	All	X	X
	GRI	Gross Income	All	X	X
	ITX	Income Taxes Paid	All	X	X
	NIT	Net Investment Income	All	X	X
	NWC	Net Working Capital	All	X	X
	NSO	Number of Shares Outstanding	All	X	X
	PSR	Price/Sales Ratio	All	X	X
	ROC	Return on Capital	All	X	X
	RIC	Return on Invested Capital	All	X	X
	TXP	Tax Provision	All	X	X
	TXR	Tax rate	All	X	X
	TDT	Total Debt	All	X	X
	TDV	Total Dividends	All	X	X
	INE	Interest Expense (Non per Share)	All/Banking and Finace	X	X
	OPE	Operating Expense (Non per Share)	All/Banking and Finace	X	X
	SHE	Shareholders' Equity (Non per Share)	All/Banking and Finace	X	X
	TAS	Total Assets (Non per Share)	All/Banking and Finace	X	X
	EBR	EBITDAR	All/Real Estate	X	X
	NPS	NAV per share	All/Real Estate	X	X
	CRT	Compensation Ratio	All/Technology	X	X
	RDE	R&D Expense	All/Technology	X	X
	SGE	SG&A Expense	All/Technology	X	X
	SBC	Stock Based Compensation	All/Technology	X	X
	TCE	Total Compensation Expense	All/Technology	X	X
	AUM	Assets Under Management (Non-per Share)	Banking and Finace	X	X
	BLB	Billed Business (Non per Share)	Banking and Finace	X	X
	CTO	Core Tier 1 Capital (Non per Share)	Banking and Finace	X	X
	CDT	Customer Deposits Under Total Deposits (Non per Share)	Banking and Finace	X	X
	DSF	Discount Fees (Non per Share)	Banking and Finace	X	X
	EFR	Efficiency Ratio (Percent)	Banking and Finace	X	X
	FCI	Fees & Commissions Income (Non per Share)	Banking and Finace	X	X

IBV	Intangible Book Value (Non per Share)	Banking and Finace	X	X
LLP	Loan Loss Provisions (Non per Share)	Banking and Finace	X	X
LNS	Loans (Non per Share)	Banking and Finace	X	X
NAL	Net Charge-Offs to Average Loans (Non per Share)	Banking and Finace	X	X
NGL	Net Gains or Losses (Non per Share)	Banking and Finace	X	X
NII	Net Interest Income (Non per Share)	Banking and Finace	X	X
NIM	Net Interest Margin (Percent)	Banking and Finace	X	X
NIS	Net Interest Spread (Percent)	Banking and Finace	X	X
NNM	Net New Money/Assets (Non per Share)	Banking and Finace	X	X
NIE	Non-Interest Expense (Non per Share)	Banking and Finace	X	X
NPA	Non-Performing Assets (Non per Share)	Banking and Finace	X	X
NPL	Non-Performing Loans (Non per Share)	Banking and Finace	X	X
NRI	Non-Recurring Items (Non per Share)	Banking and Finace	X	X
ORE	Other Real Estate Owned Expenses(Non per Share)	Banking and Finace	X	X
RNA	Return on Net Operating Assets (Percent)	Banking and Finace	X	X
RWA	Risk Weighted Assets (Non per Share)	Banking and Finace	X	X
SID	Securities in Issue Under Total Deposits (Non per Share)	Banking and Finace	X	X
TNB	Tangible Book Value (Non per Share)	Banking and Finace	X	X
TCO	Tier 1 Capital Ratio (Percent)	Banking and Finace	X	X
TDO	Total Deposits (Non per Share)	Banking and Finace	X	X
TIN	Total Income (Non per Share)	Banking and Finace	X	X
NIR	Total Non-Interest Revenue (Non per Share)	Banking and Finace	X	X
TRI	Total Revenues Net of Interest Expense (Non per Share)	Banking and Finace	X	X
TDI	Trading Income (Non per Share)	Banking and Finace	X	X
CNC	Chemicals Income (Non per Share)	Energy	X	X
DFF	Distributable Cash Flow Aggregate	Energy	X	X
DWI	Downstream Income (Non per Share)	Energy	X	X
EBX	EBITDAX (Non per Share)	Energy	X	X
EXP	Exploration Expense (Non per Share)	Energy	X	X
GPD	Gas Production Per Day (Non per Share)	Energy	X	X
GCX	Growth Capex	Energy	X	X
LOE	Lease Operating Expense	Energy	X	X
MCX	Maintenance CapEx	Energy	X	X
MNC	Marketing Income (Non per Share)	Energy	X	X
NPP	Natural Gas Liquids Production Per Day (Non per Share)	Energy	X	X

	OPD	Oil Production Per Day (Non per Share)	Energy	X	X
	OPU	OPEX Per Unit	Energy	X	X
	PEX	Production Expense	Energy	X	X
	PTX	Production Tax	Energy	X	X
	PVR	1P Proved Reserves	Energy	X	X
	RNC	Refining Income (Non per Share)	Energy	X	X
	RPG	Realized Price Gas	Energy	X	X
	RPO	Realized Price Oil	Energy	X	X
	RZP	Realized Price (BOE)	Energy	X	X
	TPC	Total Production - Total	Energy	X	X
	TPD	Total Production Per Day (in BOE) (Non per Share)	Energy	X	X
	TPG	Total Production – Natural Gas Bcf	Energy	X	X
	TPI	Throughput Info (Non per Share)	Energy	X	X
	TPN	Total Production – NGL (mmbbl)	Energy	X	X
	TPO	Total Production – Oil/Condensate/NGL (mmbbls)	Energy	X	X
	TPP	Total Production Per Day (Non per Share)	Energy	X	X
	UPI	Upstream Income (Non per Share)	Energy	X	X
	APE	Annual Premium Earned (Non per Share)	Insurance	X	X
	BEV	Book Value on Enterprise Value Basis (Non per Share)	Insurance	X	X
	BKV	Book Value on GAAP Basis (Non per Share)	Insurance	X	X
	CLR	Catastrophic Loss Ratio (Percent)	Insurance	X	X
	CMR	Claims Ratio (Percent)	Insurance	X	X
	COR	Combined Ratio (Percent)	Insurance	X	X
	CSL	Consolidated Loss Ratio (Percent)	Insurance	X	X
	EBV	Embedded Value (Non per Share)	Insurance	X	X
	EVO	Embedded Value Operating Profits (Ratio)	Insurance	X	X
	EXR	Expense Ratio (Percent)	Insurance	X	X
	GEP	Gross Earned Premiums (Non per Share)	Insurance	X	X
	GPW	Gross Premiums Written (Non per Share)	Insurance	X	X
	MLR	Medical Loss Ratio (Percent)	Insurance	X	X
	NEV	Net Income on Embedded Value Basis (Non per Share)	Insurance	X	X
	NPE	Net Premiums Earned (Non per Share)	Insurance	X	X
	NPW	Net Premiums Written (Non per Share)	Insurance	X	X
	RZG	Realized Gains or Losses (Non per Share)	Insurance	X	X
	VNB	Value of New Business (Non per Share)	Insurance	X	X

ACG	All-In Production Cost (AISC) – Gold	Mining	X	X
ACS	All-In Production Cost (AISC) – Silver	Mining	X	X
APS	Average Price (Per Metric Tonne) - Steel	Mining	X	X
MCC	Mining Cash Cost (oz) (Total)	Mining	X	X
MCG	Mining Cash Cost (oz) (Gold)	Mining	X	X
MCP	Mining Cash Cost (oz) (Platinum)	Mining	X	X
MCS	Mining Cash Cost (oz) (Silver)	Mining	X	X
CCC	Mining Cash Cost (oz) (Copper)	Mining	X	X
MPG	Mining Production (oz) (Gold)	Mining	X	X
MPP	Mining Production (oz) (Platinum)	Mining	X	X
MPS	Mining Production (oz) (Silver)	Mining	X	X
TMP	Mining Production (oz) (Total)	Mining	X	X
RGO	Realized Price – Gold	Mining	X	X
RPS	Realized Price – Silver	Mining	X	X
RPC	Realized Price – Copper	Mining	X	X
TOC	Total Production – Copper (Weight)	Mining	X	X
TSE	Total Silver Equivalent Production (Weight)	Mining	X	X
USS	Unit Sales - Steel	Mining	X	X
MME	Membership Enrollment	Pharmaceutical and Healthcare	X	X
NOD	Number of Doctors	Pharmaceutical and Healthcare	X	X
DOS	Department Store Sales	Retail	X	X
FLS	Floor Space	Retail	X	X
FLF	Franchise & Licensing Fee	Retail	X	X
NAS	Net Sales per Average Square Foot	Retail	X	X
NOS	Number of Stores(by Total)	Retail	X	X
NSC	Number of Stores Closed/Relocated	Retail	X	X
NOO	Number of Stores Opened (by Total)	Retail	X	X
POC	Pre-Opening Expenses	Retail	X	X
REX	Rent Expense	Retail	X	X
RES	Retails Sales	Retail	X	X
AFF	Analyst Adjusted Funds From Operation (Non per Share)	Real Estate	X	X
BAP	Backlog Average Price	Real Estate	X	X
BGV	Backlog Values	Real Estate	X	X
BKU	Backlog Units	Real Estate	X	X

CTS	Contracted Sales (Non per Share)	Real Estate	X	X
DAP	Deliveries Average Price	Real Estate	X	X
DCF	Cash Available for Distribution Per Unit	Real Estate	X	X
DLU	Deliveries (Number of Units)	Real Estate	X	X
DLV	Deliveries (Monetary Value)	Real Estate	X	X
DVC	Development Costs (Non per Share)	Real Estate	X	X
FOP	Company Defined Funds from Operations (Non per Share)	Real Estate	X	X
FSV	Financial Services Sales	Real Estate	X	X
HSL	Home Sales	Real Estate	X	X
LCH	Launches	Real Estate	X	X
LLS	Land/Lot Sales	Real Estate	X	X
NCR	Net Operating Income Margin (Percent)	Real Estate	X	X
NFO	NAREIT Funds From Operations per Share	Real Estate	X	X
NNV	Non-Periodic Net Asset Value (Non per Share)	Real Estate	X	X
NOA	New Orders Average Price	Real Estate	X	X
NOI	Net Operating Income (Non per Share)	Real Estate	X	X
NOU	New Orders Units	Real Estate	X	X
NOV	New Orders Value	Real Estate	X	X
NPN	Non-Periodic Net Asset Value per Share	Real Estate	X	X
OCR	Occupancy Rate (Percent)	Real Estate	X	X
PMN	Premium to Net Asset Value (Ratio)	Real Estate	X	X
PRN	Price to Net Asset Value (Ratio)	Real Estate	X	X
RSM	Rent Per Square Foot (Non per Share)	Real Estate	X	X
VCR	Vacancy Rate (Percent)	Real Estate	X	X
NRV	Net Revenue	Technology	X	X
TAC	Traffic Acquisition Cost	Technology	X	X
ACL	Access Lines	Telecom	X	X
ARP	Average Revenue per Unit	Telecom	X	X
CRN	CHURN (%)	Telecom	X	X
GSA	Gross Subscriber Additions	Telecom	X	X
NSA	Net Subscriber Additions	Telecom	X	X
SAC	Subscribers Acquisition Cost	Telecom	X	X
SUB	Subscribers	Telecom	X	X

- Companies with no subsidiaries are classified as Primary Consolidated, with no corresponding Secondary data measures. For companies that are carry two-basis (Parent and Consolidated),

both Primary and Secondary data measures are available. The basis is determined based on the majority contributor submission and populated under the Primary measure. Parent measures are indicated by a 3-letter code accompanied by a flag indicated the Parent/Consolidated basis. A set of secondary measure files is available in the DHSAS.ZIP files.

- The per-share data measures of UK companies are covered in BPN (pence) and the values for non-per share data measures are displayed in GBP (pounds). The label for all estimates is BPN. For UK companies which have had a change in currency on a company level, the label for non per-share data estimates is GBP.
- FFO is available primarily for Canadian and US companies only.
- All per share measures data including Price Targets are adjusted for corporate actions represented as splits.
- The Timestamps included in the detail files are either Eastern Standard Time (EST) or Daylight Savings Time (DST), depending on the time of year.

Normalized History Files

Thomson Reuters follows companies based on their reporting currency. However in some cases where the reporting currency does not reflect the clear majority of estimate submissions, Thomson Reuters may exercise the option to set the default based on the currency of the majority of estimate submissions. In cases where companies report in multiple currencies, Thomson Reuters will set the default currency based on the majority of estimate submissions.

As a result of currency fluctuations over time, starting with the April 2009 Monthly cycle, Thomson Reuters introduced an additional set of I/B/E/S Normalized historical files that include summary and detail data with normalized company default currencies. This new offering provides a smooth historical view of companies that have had a currency change over time and is intended to simplify clients' workflow.

The normalized Detail history files will not be available in older formats of the Detail History files. All clients will be receiving normalized Detail history files in the latest available version.

- Announce w/Time Stamp Detail Estimates
- Detail Price Targets
- Announce w/Time Stamp Exclude Estimates
- Report Currency
- Time Stamp Actuals
- Restated Actuals

What rules will be followed when producing the normalized Detail History files?

Estimates are converted to the latest company default currency by using the closing exchange rate that coincides with the date prior to the announced date of the estimate. When an exchange rate is unavailable for the date prior to the announce date, the next available prior exchange rate is used.

Actuals are converted to the latest company default currency by using the closing exchange rate as of the FYE date of the actual. When an exchange rate is unavailable for the date prior to the FYE date, the next available prior exchange rate is used.

How will changes to currency be reflected from month to month in the Detail files?

In the existing files, all estimates and actuals are provided in the default currency followed at the respective point in time. In the normalized files, all estimates and actuals will be supplied in the default currency followed as of the latest monthly run.

To illustrate:

Thomson Reuters started coverage of company ABC in January 2001. The company was covered in USD. In March 2008, the majority of analyst covering company ABC started providing estimates in EUR. Therefore, TR changed the default currency to EUR. In the Detail and Summary Files prior to March 2008 all estimates and actuals will be displayed in USD. Starting with the March 2008 monthly files, all previously supplied estimates in USD, will be displayed in EUR by converting values following the rules detailed in question #5.

Do any differences exist between the “normalized” and “standard/regular” History files?

Yes, a few changes will be noticed between the two versions:

- In the “standard/regular” *I/B/E/S Detail History*, estimates are converted to the latest company default currency by using the closing exchange rate that coincides with the date prior to the activation date of the estimate. In the “normalized” *I/B/E/S Detail History*, estimates are converted to the latest company default currency by using the closing exchange rate that coincides with the date prior to the announced date of the estimate. As a result, estimates that have been received in a non-default currency could be slightly different in “standard/regular” vs. “normalized” *I/B/E/S Detail History* due to the fluctuation of the currency exchange rates.
- Normalized files will not be available for the following measures as these are not affected by currency: GRM, ROA, ROE, EFR, NIM, NAL, TCO, CLR, CMR, COR, CSL, EVO, EXR, MLR, NIS, NCR, OCR, PMN, PRN, RNA, VCR, CRT, PLF and Recommendations. As a result, the Normalized ZIP files posted in clients’ FTP accounts include the Standard version for the respective measures.
- The Normalized Report Currency files in *I/B/E/S Detail History* (adjusted and unadjusted) include less rows than the Standard/Regular Report Currency files in *I/B/E/S Detail History* (adjusted and unadjusted) because the coverage in the normalized files is always in one currency only as opposed to multiple currencies (for a subset of companies out of the entire universe) across a historical series.
- The Normalized Detail Estimates History files for all regions include a Currency field at the end of the file while the Standard/Regular Detail Estimates History files do not include the Currency field for the US & Canadian regional files.
- The Normalized Timestamp Actuals Detail History files for all measures include a Currency field at the end of the file while the Standard/Regular Timestamp Actuals Detail History files do not include the Currency field for the EPS measure files.

File Naming Conventions

Intuitive file names offer users an indication of file content. All Detail History file names adhere to the following convention:

<Type><Measure><Name>.<Region>

<Type> Mnemonic for the type of file. For example, id for identifier, adj for adjustments.

- <Measure>** 3-character mnemonic for the measure.
In this product, measure EPS is represented by the 3 letter code "FIL". For all other measure codes, see the measure table above.
- <Name>** 1- or 2-character mnemonic for the file version. See File names in the file format section.
- <Region>** 2- or 3-character mnemonic for the region. For example, the US Detail Estimate file for EPS is named: "detfilat.us"

Compressed Files

Detail History files are grouped and zipped by subscription level. Zipped file names are of the form:

<TYPE>HIST_<CURTYPE>_<ADJOPT>_LEVEL<LVL>_<REG>.ZIP

- <TYPE>** DET for I/B/E/S Summary History
- <CURTYPE>** **STANDARD** (Standard history) or **NORMALIZED** (Normalized history)
- <ADJOPT>** **ADJ** (adjusted for splits) or **UNADJ** (unadjusted for splits)
- <LVL>** **1, 2 or 3** (please see measure table included in Chapter 2)
- <REG>** Two or three-character mnemonic for the region

Company-level and product-level KPI measure files, including all types of sales such as Same Store Sales, Pharmaceutical Sales, Business Segment Sales and Geographical Segment Sales measures, will be included in an additional ZIP file under the "history" FTP folder. The existing Zip file naming convention is used where the Level = 3K

For example:

- DETHIST_STANDARD_ADJ_LEVEL1_INT.ZIP: includes Adjusted Standard Detail data files for EPS measure for the INT region
- DETHIST_STANDARD_UNADJ_LEVEL1_INT.ZIP: includes Unadjusted Standard Detail data files for EPS measure for the INT region
- DETHIST_NORMALIZED_ADJ_LEVEL1_INT.ZIP: includes Adjusted Normalized Detail data files for EPS measure for the INT region
- DETHIST_NORMALIZED_UNADJ_LEVEL1_INT.ZIP: includes Unadjusted Normalized Detail data files for EPS measure for the INT region
- DETHIST_STANDARD_ADJ_LEVEL2_US.ZIP: includes Adjusted Standard Detail data files for Level 2 measures for the US region
- DETHIST_STANDARD_UNADJ_LEVEL2_US.ZIP: includes Unadjusted Standard Detail data files for Level 2 measures for the US region
- DETHIST_NORMALIZED_ADJ_LEVEL2_US.ZIP: includes Adjusted Normalized Detail data files for Level 2 measures for the US region

- DETHIST_NORMALIZED_UNADJ_LEVEL2_US.ZIP: includes Unadjusted Normalized Detail data files for Level 2 measures for the US region
- DETHIST_STANDARD_ADJ_LEVEL3_ASP.ZIP: includes Adjusted Standard Detail data files for Level 3 measures for the Asia Pacific region
- DETHIST_STANDARD_UNADJ_LEVEL3_ASP.ZIP: includes Unadjusted Standard Detail data files for Level 3 measures for the Asia Pacific region
- DETHIST_NORMALIZED_ADJ_LEVEL3_ASP.ZIP: includes Adjusted Normalized Detail data files for Level 3 measures for the Asia Pacific region
- DETHIST_NORMALIZED_UNADJ_LEVEL3_ASP.ZIP: includes Unadjusted Normalized Detail data files for Level 3 measures for the Asia Pacific region
- DETHIST_STANDARD_ADJ_LEVEL3K_ASP.ZIP: includes Adjusted Standard Detail data files for KPI measures for the Asia Pacific region
- DETHIST_STANDARD_UNADJ_LEVEL3K_ASP.ZIP: includes Unadjusted Standard Detail data files for KPI measures for the Asia Pacific region
- DETHIST_NORMALIZED_ADJ_LEVEL3K_ASP.ZIP: includes Adjusted Normalized Detail data files for KPI measures for the Asia Pacific region
- DETHIST_NORMALIZED_UNADJ_LEVEL3K_ASP.ZIP: includes Unadjusted Normalized Detail data files for KPI measures for the Asia Pacific region

Note!

Non per share measures (i.e. Pretax, Sales, Net Profit) are included in both the Adjusted and Unadjusted Level 2 and Level 3 packages.

Measures representing ratios (i.e. ROA, ROE, Gross Margin) are included in both Standard and Normalized Level 3 packages.

Clients that subscribe to I/B/E/S Detail History packages also receive I/B/E/S Summary History data. Summary history documentation (I/B/E/S History Summary User Guide) can be downloaded from the following link (depending on your web browser).

[ftp://samples:luk\\$tou@ftp.ibes.com/samples/documentation](ftp://samples:luk$tou@ftp.ibes.com/samples/documentation)

or

[ftp://samples:luk\\$tou@ftp.ibes.com/samples/](ftp://samples:luk$tou@ftp.ibes.com/samples/)

Chapter 3 File Descriptions

This section provides a brief description of each of the files included in the I/B/E/S History Product.

File 1a: Actuals Data (new file format as of April 2013)

Level: Summary and Detail

Frequency: Monthly

A new file format has been created to eliminate multiple format files that contain reported actuals content. Starting with the April 2013 Monthly Run, the new format files will be the standard file format available with all I/B/E/S History (Detail and Summary) packages. **As a result, they can be found only in the IBES Summary History ZIP files.**

Please refer to the I/B/E/S Summary History User Guide for the file description, file names and file layout.

File 1b: Go-Forward Actuals Data (new file as of April 2013)

Level: Summary and Detail

Frequency: Monthly

These newly created files include a supplemental set of actuals called go-forward actuals. Starting with the April 2013 Monthly Run, the new files are available with all I/B/E/S History (Detail and Summary) packages. **As a result, they can be found only in the IBES Summary History ZIP files.**

Please refer to the I/B/E/S Summary History User Guide for the file description, file names and file layout.

File 2: Restated Actuals

Level: Detail

Frequency: Monthly

Restated Actuals presents restated data for the measures and periods provided by the company. The file can accommodate multiple restatements over the years, as applicable for the company.

These files are available with all I/B/E/S History (Detail and Summary) packages. **As a result, they can be found only in the IBES Summary History ZIP files.**

Secondary measures restated actual data is included in the same files as the primary measures are.

File 3: Identifier

Level: Detail

Frequency: Monthly

The Identifier file provides important cross-reference information allowing the user to map the I/B/E/S ticker to official tickers, CUSIPs or SEDOLs. This allows for ease integration of data across the IBES files as well as into databases that are keyed by other identifiers. I/B/E/S tickers for international (non US and Canadian) companies are preceded by an @.

For US companies, the value that appears in the CUSIP/SEDOL field will always be a CUSIP. SEDOLs are used for non-US companies. The SEDOL field consists of a country code followed by the first six digits of the official SEDOL (the last digit of a SEDOL is a check digit and is not used by I/B/E/S).

SEDOLs were originally designed to be a unique 7-digit numeric code. By 2004, the London Stock Exchange (LSE), which issues SEDOLs, reached its capacity. Consequently, the LSE modified its specification to its current state which is a unique 7-character alphanumeric code. Generally, the client can identify a valid SEDOL if it is a 7-digit numeric (i.e. 1234567) or the first character is an alpha character followed by the numeric characters (i.e. A1234567). Dummy SEDOLs (used for some inactive companies) are normally numeric followed by XX (12345XX) or mostly alpha characters followed by numeric (DUMMY12).

The Dilution factor used in the Identifier file is calculated from the issuer's annual earnings report. It is calculated by dividing primary EPS by fully diluted EPS.

The Currency Flag is used in the US file to identify companies followed in Canadian Dollars in the US file.

The Parent/Consolidated flag appears only in non-US files. The field is populated with a "P" when the company is followed on a Parent basis and Null when the company is followed on a Consolidated basis. Canadian companies included in the INT files, a designation of "C" identifies companies followed in Canadian dollars. If there is no designation present then the Canadian company is followed in US dollars.

The file includes a Currency Flag which can be used to identify companies followed in Canadian Dollars in the US file.

Uniform Actuals Indicator and MSCIP flag fields are no longer required therefore are not being updated. Clients should ignore these fields.

The Start Dates represent the first date that a data row is effective, as of the Thomson Reuters monthly run date, which falls anywhere between the 14th and 20th day of a given month.

File 4: Adjustments

Level: Detail

Frequency: Monthly

Adjustments file includes corporation action factors (i.e. splits, dividends) that were used to adjust the data historically. Clients who prefer to unadjust their per share estimate data can use factors included in this file. The split date is provided as an indicator of when the split was originally activated on the Thomson Reuters database. Because the archives used to create the Detail History are monthly slices of data, splits are effective as of the split date, which corresponds to the monthly statistical monthly run date. Any data prior to the split date has been adjusted in the Detail file by the corresponding factor in this file. Cumulative split factors are displayed in the adjustment file.

Unadjusted data files are also available. Please contact your account representative for details.

File 5: SIG Codes

Level: Detail

Frequency: Monthly

SIG (Sector/Industry/Group) codes are provided for informational purposes and to allow the user to create subsets of the data based on individual company's line of business. The convention used by Thomson Reuters to classify companies is loosely based on the MSCI and S&P classification system for non-US and US companies respectively. As companies were added that did not fit into the MSCI convention, several additional SIG codes were introduced to the I/B/E/S list. Sector is the broadest division, with Industry and Group becoming more specific.

NOTE: This file will no longer be provided in client packages effective July 15, 2016. This file is being replaced by a new TRBC code file described in this document.

File 6: Company Level Footnote

Level: Detail

Frequency: Monthly

Company Level Footnote was added on April 9, 2005, when Thomson Reuters implemented International Financial Reporting Standards (IFRS). The company level footnote file is designed to indicate the majority basis of the primary earnings measure, as well as all supporting secondary measures for a security. All secondary measures will be treated in accordance with the majority primary measure regardless of majority basis for the secondary measure. This ensures that the company level footnote consistently reflects the basis of all unfiltered estimates across all measures and fiscal years. All estimates not on the same basis as the primary earnings measure will be filtered and footnoted accordingly.

File 7: Report Currency

Level: Detail

Frequency: Monthly

There are companies in the Detail History database that have reported their data in different currencies at different points in time. For example, in 2002, TPC Technology Ltd., a company in Hong Kong, changed its reporting currency from Hong Kong Dollars to US Dollars. As a result, analysts subsequently changed the currency of their earnings forecasts and therefore, Thomson Reuters changed the company's default currency.

Report Currency contains the companies in the Detail History database and their reporting currencies over time. This file includes the exact date a company level currency change occurred.

File 7a: EURO Exchange Rate

Level: Detail

Frequency: Monthly

This file is supplied for data that contain "EURO-IN" countries. In general, Thomson Reuters data will exist in native currency prior to E-day, January 1, 1999, and thereafter it will be represented in the Euro currency. This file contains the fixed exchange rates as promulgated at E-day back to 1987 to

give users maximum flexibility in viewing and reporting historical time series, or users can substitute their own synthetic rates to adjust.

File 8 Estimator/Analyst Translations

Level: Detail

Frequency: Monthly

Estimator/Analyst Translation should be used to map the Estimator/Analyst codes listed in the Detail file to the corresponding names. Estimator is an abbreviated name given to each contributor by Thomson Reuters. Analysts are assigned unique six digit codes while Estimators are assigned unique five digit codes.

File 9 Daily Currency Exchange Rates

Level: Detail

Frequency: Monthly

This file includes daily historical exchange rates. Detail history estimates received in a non-default currency are converted to the company level currency in order for all estimates of a given company to be displayed in the same currency. The Daily Currency Exchange Rate file can be used to convert estimates to values in other currencies.

File 10 Detail Estimates

Level: Detail

Frequency: Monthly

Detail Estimate is the core of the Detail History product. This file contains analyst-by-analyst estimates for annual, quarterly, semi-annual and long terms growth periods. Quarterly estimates and long-term growth forecasts are most prominent for US and Canadian companies. Semi-annual estimates are available for Japanese companies.

It is possible for a contributing broker to provide multiple revisions to an estimate on the same day. In this scenario, all estimates are available in the Detail history files and only the most current estimate is included in the mean.

The Brokers and Analysts are provided under numeric codes. The codes can be mapped to the estimator and analyst names by accessing a separate Estimator/Analyst Translation file (branfil*.<reg>). The Estimator/Analyst Translation file is not available to academic users and this file type will not be delivered to the respective accounts.

In the non-US files, for estimates received on a Parent-company basis a "P" appears in field D of this file. If an estimate was received on a Consolidated-company basis then an indicator is not present in field D. In the US file, if the Canadian Currency field is C, the estimate was received in Canadian currency. If the indicator is not present, the estimate is in US Dollars.

The Currency field and the Primary/Diluted Flag in this file are Estimate specific. When programming against the data, it is important not to confuse these fields with the Currency field in the Report Currency file and the Primary/Diluted Indicator in the Identifier file. The records in the Report Currency file and the Identifier file are company-specific.

It is very important to note that all data in the Detail file is completely adjusted. That is, if an analyst's forecast is received with different Currency or Primary/Diluted indicators on the estimate level versus the existing company level, the estimate value will appear as adjusted to the company level basis. The indicators reflect the basis in which the estimate was received. Users may "unadjust" the data if they choose using data provided in the Identifier or Exchange Rate files.

Timestamps are provided with the Activation, Announce and Confirmation dates included in this file.

File 11 Excluded Estimates

Level: Detail

Frequency: Monthly

It is possible that estimates are provided on a different accounting basis that differs from the basis of the majority of the estimates. When this occurs, Thomson Reuters contacts the analyst for confirmation (shown as review date) of either the estimate itself or the methodology behind it. Thomson Reuter's estimates are removed from the database if a satisfactory resolution to the discrepancy is not reached. Thomson Reuters developed a system whereby these estimates would be excluded from the consensus data, while still allowing users access to the individual analysts forecast.

If an estimate has not been updated for 105 days, the estimate is filtered, footnoted and excluded from the mean. (Estimates are updated by a contributing analyst sending a confirmation, revision or drop in coverage.) When Q4 is the current reporting period, Q4 and FY1 estimates are an exception to this rule: Q4 and FY1 estimates will be filtered when they have not been updated for 120 days. (This allows extra time for companies to report year-end results.)

On February 21, 2005, Thomson Reuters added an end date to the Excluded Estimates file. This end date allows Thomson Reuters the ability to expire filters that were relevant in the past (but are no longer valid) without removing them from the database. Filters that are still active will have an end date in the future. Filters that are no longer valid will have an end date in the past relative to the fiscal period. Only filters with end dates in the past should be expired in client databases.

For example:

End date 1/1/06

Fiscal year end of the record 12/2000

Today's date: 1/1/07

Today's fiscal year end date 12/2008.

The 2000 annual number was reported on 2/2001. This number should remain excluded.

File 12 Stop Estimate

Level: Detail

Frequency: Monthly

This file includes stops applied to estimates that are no longer active. This can result from several events, e.g. an estimator places a stock on a restricted list due to an underwriting relationship or the estimator no longer covers the company. Prior to June 1993, actual stop dates did not exist in the archive files used to create the Detail History. An algorithm was developed to determine the date when an estimate became invalid if, for example, a merger between companies occurred or an analyst stopped working for a firm, etc.

Estimate that are not updated or confirmed for a total of 210 days, the estimate is stopped.

Stopped Estimate contains a timestamp for the stop date.

File 13 Detail Price Targets (PTG)

Level: Detail

Frequency: Monthly

Price Target represents the projected price level forecasted by the analyst within a specific time horizon. Price Targets with a non-12M horizon are excluded from the summary price target calculations.

File 14 Stop Price Target

Level: Detail

Frequency: Monthly

Analogous to the daily Stop Detail Estimates File, except that these stops are applied to the price target data.

File 15 Detail Recommendations

Level: Detail

Frequency: Monthly

Detail Recommendations contains analyst-by-analyst recommendations for a security. Each recommendation received from the estimator is mapped to one of the Thomson Reuters standard ratings. Assigning a numeric value to the estimator text enables Thomson Reuters to calculate a consensus recommendation.

A recommendation is an analyst's rating for a particular company. Thomson Reuters maintains these ratings in the following two formats:

- Estimator Text – The actual recommendation received from the estimator, in their text.
- I/B/E/S Text – As many estimators have different ratings, Thomson Reuters maintains a standard set of recommendations, each with an assigned numeric value:
 1. Strong Buy
 2. Buy
 3. Hold
 4. Underperform
 5. Sell

File 16: Recommendations Stop

Level: Detail

Frequency: Monthly

This file includes stops applied to recommendations that are no longer active. This can result from several events, e.g. an estimator places a stock on a restricted list due to an underwriting relationship, an analyst is leaving a firm, or the estimator no longer covers the company.

If a recommendation is not updated or confirmed for a total of 180 days, the recommendation is stopped. (Recommendations are updated by a contributing analyst sending a confirmation, revision or drop in coverage.)

File 17: Recommendations Estimator Translation

Level: Detail

Frequency: Monthly

Recommendations Estimator Translation should be used to map the estimator's ID listed in the Detail Recommendations File to the appropriate estimator's name. The estimator ID is an abbreviated name given to each contributor by Thomson Reuters.

File 18 Recommendations ID

Level: Detail

Frequency: Monthly

The Identifier file provides important cross-reference information allowing the user to map the I/B/E/S ticker to official tickers, CUSIPs or SEDOLs. This allows for ease integration of data across the IBES files as well as into databases that are keyed by other identifiers. I/B/E/S tickers for international (non US and Canadian) companies are preceded by an @.

I/B/E/S tickers for non-U.S. companies are preceded by a "@". For US companies, the value that appears in the CUSIP/SEDOL field will always be a CUSIP. SEDOLS are used for non-US companies. The SEDOL field consists of a country code followed by the first six digits of the official SEDOL (The last digit of a SEDOL is a check digit and is not used by I/B/E/S.).

SEDOLS were originally designed to be a unique 7 digit numeric code. By 2004, the London Stock Exchange (LSE), which issues SEDOLS, reached its capacity. Consequently, the LSE modified its specification to its current state which is a unique 7 character alphanumeric code. Clients can identify a valid SEDOL if it is a 7 digit numerical character (i.e. 1234567) or the first character is an alpha character followed by the numeric characters (i.e. A1234567). Dummy SEDOLs used for select inactive companies are numeric values followed by XX (12345XX) or mostly alpha characters followed by a numeric value i.e. DUMMY12.

File 19 TRBC Description

Level: Detail

Frequency: Monthly

This is a new file that replaces the SIG file. This file will be based upon TRBC type per IBES ticker.

Thomson Reuters Business Classification

Thomson Reuters I/B/E/S also introduced a new set of Sector, Industry and Group identifier know as Thomson Reuters Business Classification (TRBC).

TRBC is an industry classification system that is owned and operated by Thomson Reuters. The Market-oriented system tracks the primary business of a corporation and reflects global industry practices by grouping together correlated companies that offer products and services into similar end markets.

It is used by the investment community for navigation, aggregation and benchmarking. It provides a global standard for intelligently identifying peers, tagging research, aggregation financial content and transforming the torrent of Thomson Reuters news and information into insightful trends. It delivers a solid foundation for aggregating financial ratios, portfolio benchmarking and attribution analysis.

This balances the needs of index construction and information navigation. TRBC has set its granularity level to meet both navigation and benchmarking requirements. The schema is detailed enough to allow the accurate pinpointing of peers while delivering a stable and useful grouping of constituents to allow benchmarking and index construction across the globe and between multiple periods.

Thomson Reuters I/B/E/S added the following TRBC mapping of its data.

- TRBC Economic Sector
- TRBC Business Sector
- TRBC Industry Group
- TRBC Industry
- TRBC Activity

**TRBC Activity is an additional level of analysis to monitor niche industries and themes such as Luxury, Cleantech and Infrastructure.*

File 20 TRBC Mapping

Level: Detail

Frequency: Monthly

This is a new file that replaces the SIG file. This file will include TRBC identifiers such as TRBC Economic Sector, Business Sector, Industry Group, Industry.

Chapter 4 File Layouts

Each file utilizes from one to six columns as primary keys, the columns or sets of columns to identify a row of data as unique. Primary keys are indicated by a # sign followed by a number next to the column header, i.e., D#4. The number dictates the order of the column within the key.

Note: Unavailable numbers are indicated by a minus sign followed by 9's to fill in the field (-99999). A zero indicates non-available or non-meaningful date values. In the case of contributor or analyst names which are not available six zeroes (000000) are used. A string of asterisks for an estimate or actual value indicates that the figure is too large to fit into the field.

File 1a: Actuals Data (New file format as of April 2013)

Name (Adjusted): act<measure>.<reg> (Standard), nact<measure>.<reg> (Normalized)
 Name (Unadjusted): act< measure>u.<reg> (Standard), nact<measure>u.<reg> (Normalized)
 Level: Summary and Detail
 Frequency: Monthly

Please refer to the I/B/E/S Summary History User Guide for the file layout.

File 1b: Go-Forward Actuals Data (New file as of April 2013)

Name (Adjusted): act<measure>g.<reg> (Standard), nact<measure>g.<reg> (Normalized)
 Name (Unadjusted): act< measure>gu.<reg> (Standard), nact<measure>gu.<reg> (Normalized)
 Level: Summary and Detail
 Frequency: Monthly

Please refer to the I/B/E/S Summary History User Guide for the file layout.

File 2: Restated Actuals

Name (Adjusted): h<measure>ract.<reg>
 <measure>nract.<reg> (Normalized)
 Name (Unadjusted): h<measure>ract.<reg>
 u<measure>nract.<reg> (Normalized)
 Level: Detail and Summary
 Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End	Comments
A#1	I/B/E/S Ticker	X	CCCCCC	6	1	6	
B#2	Measure	X	CCCCCC	6	8	13	See Measures chart

Key	Item	Data Type	Format	Length	Start	End	Comments
C#3	Periodicity	X	CCC	3	15	17	ANN, SAN, QTR, LTG
D#4	Period End Date	N	YYYYMM	6	19	24	
E	Value	D	999999999999	12	26	37	
F#5	Activation Date	N	YYYYMMDD	8	39	46	
G#6	Activation Time	N	HH:MM:SS	8	48	55	
H	Announce Date	N	YYYYMMDD	8	57	64	
I	Announce Time	N	HH:MM:SS	8	66	73	
J	Company Level Currency	X	CCC	3	75	77	
K	Reserved		CCCCCCCC	40	79	118	

File 3: Identifier

Name: idfild.<reg> (EPS, US) or idfili.<reg>

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End	Comments
A #1	I/B/E/S Ticker	X	CCCCCC	6	1	6	
B	CUSIP/ SEDOL	X	CCCCCCCC	8	8	15	
C	Official Ticker	X	CCCCCC	6	17	22	
D	Company Name	X	CCCCCC	16	24	39	
E	Dilution Factor	D	99.99	5	41	45	
F	Primary/Diluted Indicator	X	C	1	47	47	
G	Canadian Currency	X	C	1	49	49	Parent/Consolidated Flag
H	MSCIP Flag	X	C	1	51	51	
I	Uniform Actuals Indicator	X	C	1	53	53	

Key	Item	Data Type	Format	Length	Start	End	Comments
J	Sector/Industry/Group Code	X	CCCCCC	6	55	60	
K #2	Start Date	N	YYMMDD	6	62	67	

File 4: Adjustments

Name: adjfild.<reg> (EPS, US), adjfili.<reg> (EPS, non-EPS)

Adj<measure>.<reg>

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End
A #1	I/B/E/S Ticker	X	CCCCCC	6	1	6
B	Adjustment Factor	D	999.999	7	8	14
C #2	Split Date	N	YYMMDD	6	16	21

NOTE: This file will no longer be available in client packages effective July 15, 2016. This is being replaced by 2 new files (File 19 and 20) which are based on TRBC codes.

File 5: SIG Codes

Name: sigfild.<reg> (EPS, US) or sigfili.<reg> (EPS, non-US)

sig<measure>.<reg>

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End
A #1	Sector/ Industry/Group Code	X	CCCCCC	6	1	6
B	Sector Abbreviation	X	CCCCCCCC	8	8	15
C	Sector Name	X	CCCCCC	24	17	40
D	Industry Abbreviation	X	CCCCCCCC	8	42	49
E	Industry Name	X	CCCCCC	24	51	74

Key	Item	Data Type	Format	Length	Start	End
F	Group Abbreviation	X	CCCCCCC	8	76	83
G	Group Name	X	CCCCC	24	85	108

The Sector/ Industry/Group Code field is used to link this file to the identifier file.

File 6: Company Level Footnote

Name hsfco.<reg>

Level Detail

Frequency Monthly

Key	Item	Data Type	Format	Length	Start	End
A #1	I/B/E/S Ticker	X	CCCCCC	6	1	6
B	Footnote Type	X	CCCC	3	8	10
C #2	Activation Date	N	YYMMDD	6	13	18
D#3	Activation Time	N	HH:MM:SS	8	20	27
E	Expiration Date	N	YYMMDD	6	29	34
F#4	Footnote Text	X	CCCCCC	120	36	155
G	Reserved		CCCCCC	45	157	202

File 7: Report Currency

Name: curfile.<reg> (US) or curfile.<reg> (non-US)

ncurfile.<reg> (Normalized, US & non-US)

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End
A #1	I/B/E/S Ticker	X	CCCCCC	6	1	6
B #2	Start Date	N	YYMMDD	6	8	13
C	Currency	X	CCC	3	15	17

File 7a: EURO Exchange Rate (EPS measure only)

Name: eurofili.<reg>

Level: Detail

Frequency: Monthly

Key	Item	Format	Length	Start	End	Comments
A#1	Currency Code From	CCC	3	1	3	See Appendix
B	Currency Code To	CCC	3	5	7	See Appendix
C#2	Start Date	YYYYMMDD	8	9	16	
D	Exchange Rate	999999999999	9	22	30	
E	Reserved	CCCCCCCC	10	32	41	

File 8: Estimator/Analyst Translations

Name: branfile.<reg> or branfili.<reg>

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End
A	Estimator/Analyst Indicator	X	C	1	1	1
B #1	Estimator/Analyst Code	N	999999	6	3	8
C	Estimator/Analyst Name	X	CCCCC	40	10	49
D	Estimator Code	X	CCCCC	10	50	59

File 9: Daily Currency Exchange Rates (available only in non-US packages)

Name: hdxrati.<reg>

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End
A	Announce Date	N	YYYYMMDD	8	1	8
B	Currency Code	X	CCC	3	10	12

Key	Item	Data Type	Format	Length	Start	End
C	Exchange Rate	D	100000	15	14	28

File 10: Announce with Timestamp (AT) Detail Estimates

Name (Adjusted): detfilat.<reg> (EPS), det<measure>at.<reg> (non-EPS)
ndetfilat.<reg> (EPS), ndet<measure>at.<reg> (non-EPS) (Normalized)

Name (Unadjusted): detfilut.<reg>, det<measure>ut.<reg>
ndetfilut.<reg> (EPS), ndet<measure>ut.<reg> (non-EPS) (Normalized)

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End	Comments
A#1	I/B/E/S Ticker	X	CCCCC	6	1	6	
B#2	Estimator	N	99999	5	8	12	
C	Analyst Code	N	999999	6	14	19	
D	Canadian Currency (Est Level)	X	C	1	21	21	Parent/Consolidated Flag (non US)
E	Primary/ Diluted Flag (Est Level)	X	C	1	23	23	
F#3	Forecast Period Indicator	X	C	1	25	25	
G#4	Measure	X	CCC	3	27	29	See Measures chart in Appendix
H#5	Forecast Period End Date	X	CCCC	4	31	34	
I	Value	D	99999.9999	9	36	44	
J#6	Activation Date	N	YYMMDD	6	46	51	
K#7	Activation Time	N	HH:MM:SS	8	53	60	
L	Review Date (YYMMDD)	N	YYMMDD	6	62	67	
M	Review Time	N	HH:MM:SS	8	69	76	
N#8	Announce Date (YYMMDD)	N	YYMMDD	6	78	83	

Key	Item	Data Type	Format	Length	Start	End	Comments
O#9	Announce Time	N	HH:MM:SS	8	85	92	
P	Currency	X	CCC	3	94	96	Available in Standard/Regular History Non-US files only; Available in Normalized History for all regions

File 11a (US): Announce with Timestamp (AT) Excluded Estimates

Name (Adjusted): exlfilat.US (EPS) and exl<measure>at.US (non-EPS)
 nexlfilat.US (EPS) and nexl<measure>at.US (non-EPS) (Normalized)

Name (Unadjusted): exlfilut.US and exl<measure>ut.US
 nexlfilut.US (EPS) and nexl<measure>ut.US (non-EPS) (Normalized)

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End	Comments
A#1	I/B/E/S Ticker	X	CCCCCC	6	1	6	
B#2	Estimator	N	99999	5	8	12	
C	Analyst Code	N	999999	6	14	19	
D#3	Forecast Period Indicator	X	C	1	21	21	
E#4	Measure	X	CCC	3	23	25	See Measures chart
F#5	Forecast Period End Date	N	YYMM	4	27	30	
G	Value	D	99999.999	9	32	40	
H	Activation Date	N	YYMMDD	6	42	47	
I	Activation Time	N	HH:MM:SS	8	49	56	
J#6	Exclude Date	N	YYMMDD	6	58	63	
K#7	Exclude Time	N	HH:MM:SS	8	65	72	
L	Exclude Flag	X	C	1	74	74	
M	Exclude End Date	N	YYMMDD	6	76	81	

Key	Item	Data Type	Format	Length	Start	End	Comments
N	Exclude End Time	N	HH:MM:SS	8	83	90	

File 11b (non-US): Announce with Timestamp (AT) Excluded Estimates

Name (Adjusted): exlfilat.<reg> (EPS) and exl<measure>at.<reg> (non-EPS)
 nexlfilat.<reg> (EPS) and nexl<measure>at.<reg> (non-EPS) (Normalized)

Name (Unadjusted): exlfilut.<reg> and exl<measure>ut.<reg>
 nexlfilut.<reg> (EPS) and nexl<measure>ut.<reg> (non-EPS) (Normalized)

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End	Comments
A#1	I/B/E/S Ticker	X	CCCCCC	6	1	6	
B#2	Estimator	N	99999	5	8	12	
C	Analyst Code	N	999999	6	14	19	
D#3	Forecast Period Indicator	X	C	1	21	21	
E#4	Measure	X	CCC	3	23	25	See Measures chart
F#5	Forecast Period End Date	N	YYMM	4	27	30	
G	Value	D	99999.999	9	32	40	
H	Activation Date	N	YYMMDD	6	42	47	
I	Activation Time	N	HH:MM:SS	8	49	56	
J#6	Exclude Date	N	YYMMDD	6	58	63	
K#7	Exclude Time	N	HH:MM:SS	8	65	72	
L	Currency	X	CCC	3	74	76	
M	Exclude Flag	X	C	1	78	78	
N	Exclude End Date	N	YYMMDD	6	80	85	
O	Exclude End Time	N	HH:MM:SS	8	87	94	

File 12: Stop Estimates

Name: stpfilat.<reg> (EPS) and stp<measure>at.<reg> (non-EPS)

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End	Comments
A#1	I/B/E/S Ticker	X	CCCCCC	6	1	6	
B#2	Estimator	N	99999	5	8	12	
C#3	Periodicity	X	C	1	14	14	ANN, SAN, QTR, LTG
D#4	Measure	X	CCC	3	16	18	See Measures chart
E#5	Forecast Period End Date	N	YYMM	4	20	23	
F#6	Announce Stop Date	N	YYMMDD	6	25	30	
G#7	Announce Stop Time	N	HH:MM:SS	8	32	39	

File 13: Price Target (PTG)Name (Adjusted): detptg.<reg>
ndetptgat.<reg> (Normalized)Name (Unadjusted): detptgut.<reg>
ndetptgut.<reg> (Normalized)

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End
A#1	I/B/E/S Ticker	X	CCCCCC	6	1	6
B#2	Estimator ID	X	CCCCCCCC	8	8	15
C	Analyst Name	X	CCCCCC	20	17	36
D	Horizon	N	999	3	38	40
E	Value	D	99999.999	9	42	50
F	Estimate Currency	X	CCC	3	52	54
G#3	Activation Date	N	YYYYMMDD	8	56	63
H# 4	Activation Time	N	HH:MM:SS	8	65	72

Key	Item	Data Type	Format	Length	Start	End
I#5	Announce Date	N	YYYYMMDD	8	74	81
J#6	Announce Time	N	HH:MM:SS	8	83	90
K	Currency at Company Level	X	CCC	3	92	94
L	Analyst Mask Code	N	999999	6	96	101
M	Reserved	X	CCCCCCCC	40	103	142

File 14: Stop Price Target

Name: stopptg.<reg>

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End
A#1	I/B/E/S Ticker	X	CCCCCC	6	1	6
B#2	Estimator	X	CCCCCCCC	8	8	15
C#3	Stop Date	N	YYYYMMDD	8	17	24
D#4	Stop Time	N	HH:MM:SS	8	26	33
E	Reserved		CCCCCCCC	40	35	74

File 15: Detail Recommendations

Name: hrecdett.<reg>

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End
A#1	I/B/E/S Ticker	X	CCCCCC	6	1	6
B#2	Estimator	X	CCCC	8	9	16
C	Analyst Name	X	CCCC	40	19	58
D#3	Activation Date	N	YYMMDD	6	61	66
E#4	Activation Time	N	HH:MM:SS	8	68	75
F	Review Date	N	YYMMDD	6	78	83
G	Review Time	N	HH:MM:SS	8	85	92
H	Estimator Rec Code	X	CCCCC	5	95	99
I	Estimator Text	X	CCCC	21	102	122
J	IBES Rec Code	N	CCCC	8	124	131
K	IBES Text	X	CCCC	16	134	149
L	Estimator Mask Code	N	99999	8	152	159
M	Analyst Mask Code	N	999999	8	162	169

Key	Item	Data Type	Format	Length	Start	End
N	Announce Date	N	YYMMDD	6	172	177
O	Announce Time	N	HH:MM:SS	8	179	186

File 16: Stop Recommendations

Name: hrecstpt.<reg>

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End
A#1	I/B/E/S Ticker	X	CCCCCC	6	1	6
B#2	Estimator ID	X	CCC	8	9	16
C#3	Activation Date	N	YYMMDD	6	19	24
D#4	Activation Time	N	HH:MM:SS	8	26	33

File 17: Recommendations Estimator Translation

Name: hrecbkru.<reg> (US) and hrecbkri.<reg> (non-US)

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End
A#1	Estimator ID	X	CCCC	6	1	6
B	Name	X	CCCC	16	12	27
C	Start Date	N	YYMMDD	6	29	34
D	End Date	N	YYMMDD	6	36	41

File 18: Recommendations ID

Name: hrecidu.<reg> (US) and hrecidi.<reg> (non-US)

Level: Detail

Frequency: Monthly

Key	Item	Data Type	Format	Length	Start	End
A#1	I/B/E/S Ticker	X	CCCCCC	6	1	6
B	CUSIP/SEDOL	X	CCCC	8	8	15
C	Company Name	X	CCCC	16	17	32
D	Official ticker	X	CCCCCC	6	34	39
E	Home mkt code	X	CCCC	15	41	55
F	SIG Code					
G	MSCIP Flag	X	C	1	64	64
H	Start Date	N	YYMMDD	6	66	71
I	End Date	N	YYMMDD	6	73	78

File 19: TRBC Description

Name: HSTRBCDESC

Level: Detail

Frequency: Monthly

Key	Item	Length
A#1	TRBCPermID	10
B	TRBC Short description	255
C	TRBC Long description	1024

NOTE: This is a new file that will be available effective July 15, 2016 and replaces File 5:SIG Codes

File 20: **TRBC Mapping**
Name: **HSTRBCDATA.<REG>**
Level: Detail
Frequency: Monthly

Key	Item	Length
A#1	I/B/E/S Ticker	6
B	TRBCPermID	10
C	Start Date	8
D	Start Time	8
E	End Date	8
F	End time	8
G	Update date	8
H	Update time	8

NOTE: This is a new file that will be available effective July 15, 2016 and replaces File 5:SIG Codes

Chapter 5 Currency Conversion

Estimate Level

A default currency is assigned to every company under coverage and all detailed estimates are provided in that default currency. All estimates received in a currency other than the default company currency are converted using the exchange rate of the estimate's activation date.

The default currency with its start date is indicated in the Report Currency file (curfili.int).

Example

Estimator 11111 contributed an estimate of 24.03 in Norwegian Krone (NOK) for fiscal period December 2005 on March 04, 2004. Using the curfili.int file, it can be determined that the EPS estimate included in the detfili.int file has been converted to US Dollar (USD).

Records from the Report Currency File (curfili.int)

Ticker	Start Date	Currency
@5RO	971110	NOK
@5RO	011115	USD

Record from the Detail Estimate File (detfili.int)

Ticker	Estimator Code	Analyst Code	Estimate Currency	Measure	Fiscal Period	Value	Activation Date
@5RO	11111	222222	NOK	EPS	0512	3.3719	20040304

Guidelines to Convert Detail Estimate to an Alternate Currency

To convert an estimate back to its original value provided by the analyst, use the estimate's activation date. The exchange rates are available in the Daily Exchange Rate File (hdxrati.int).

Example

To convert the USD estimate of 3.3719 in the file to NOK, multiply 3.37193 by the exchange rate of 7.127050 from the estimate's activation date on March 4, 2004. The result is 24.03 in NOK.

Records from the Report Currency File (curfili.int)

Ticker	Start Date	Currency
@5RO	971110	NOK
@5RO	011115	USD

Record from the Detail Estimate File (detfili.int)

Ticker	Estimator Code	Analyst Code	Estimate Currency	Measure	Fiscal Period	Value	Activation Date
@5RO	11111	222222	NOK	EPS	0512	3.3719	20040304

Record from the Daily Exchange Rate File (hdxrati.int)

Date	Currency	Exchange Rate
20040304	NOK	7.127050

Company-Level Currency Changes

The default currency assigned to a company may change over time. Possible reasons for this change include a company changing its reporting currency or the majority of analysts submitting estimates in a new currency.

To view the history of estimates in one common currency, the exchange rate from the estimate's activation date may be used. The exchange rates are available in the Daily Exchange Rate File (hdxrati.int).

Example

For @BPA, the default currency was British Pence (BPN) from January 15, 1987 to December 15, 2004. Starting December 16, 2004, it was in US Dollar (USD). To convert the values that were entered into the database before December 16, 2004 from BPN to USD, the daily exchange rate may be used.

On April 22, 2003, Estimator 11111 contributed estimates in British Pence (BPN) for the fiscal year ending December 2004.

To convert the BPN estimate of 21.558 in the file to USD, divide 21.558 by the exchange rate of 63.406 from the estimate's activation date on April 22, 2003. The result is 0.34 in USD.

Records from the Report Currency File (curfili.int)

Ticker	Start Date	Currency
@BPA	870115	BPN
@BPA	041216	USD

Record from the Detail Estimate File (detfili.int)

Ticker	Estimator Code	Analyst Code	Estimate Currency	Measure	Fiscal Period	Value	Activation Date
@BPA	11111	222222	BPN	EPS	0412	21.558	20030422

Record from the Daily Exchange Rate File (hdxrati.int)

Date	Currency	Exchange Rate
20030422	BPN	63.406000

Note that the Daily Exchange Rate File (hdxrati.int) shows conversion rates to the US Dollar (USD). In order to convert to a currency other than USD, divide the exchange rate of Currency A by the exchange rate of Currency B from the same day.

Actuals

In cases where the default currency of the company changes, the actuals captured on or after the date of change will reflect the new currency. All earlier actuals remain in the currency they were originally recorded.

Example:

The default currency for @5RO changed on November 15, 2001 from NOK to USD.

The latest actual captured on or before the date of the currency change is the December 2000 actual, originally 20.635 NOK. After the company level currency is changed to USD the value of 2.34 is displayed for fiscal year December 2000, with the original report date of February 13, 2001. The values for the previous fiscal years remain in Norwegian Krone (NOK). For example: the December 1999 actual remains at 17.0 NOK.

Records from the Report Currency File (curfili.int) before the currency change

Ticker	Start Date	Currency
@5RO	971120	NOK

Records from the Actuals File before the currency change (Oct)

Ticker	Measure	Periodicity	Period End Date	Value	Announce Date
@5RO	EPS	ANN	9812	14.200	990211
@5RO	EPS	ANN	9912	17.000	000201
@5RO	EPS	ANN	0012	20.635	010213

Records from the Report Currency File (curfili.int) after the change

Ticker	Start Date	Currency
@5RO	971120	NOK
@5RO	011115	USD

Records from the Actuals File

Ticker	Measure	Periodicity	Period End Date	Value	Announce Date
@5RO	EPS	ANN	9812	14.200	990211
@5RO	EPS	ANN	9912	17.000	000201
@5RO	EPS	ANN	0012	2.340	010213

Guidelines to Convert Actuals to an Alternate Currency

To view the history of actuals in one common currency, the examples below illustrate how to use the Daily Exchange Rate File (hdxrati.int) to convert using the last day of the period end date.

Example

To convert the NOK actual of 17.00 in file to USD, divide 17.00 by the exchange rate of 8.0372 from the last of the period end date of December 1999. The result is 2.1151 in USD.

To convert USD actual of 2.34 in the file to NOK, multiply 2.34 by the exchange rate of 8.8185 from the last day of the period end date of December 2000. The result is 20.6353 in NOK.

Records from the Actuals File

Ticker	Measure	Periodicity	Period End Date	Value	Announce Date
@5RO	EPS	ANN	9912	17.000	000201
@5RO	EPS	ANN	0012	2.340	010213

Records from the Daily Exchange Rate File (hdxrati.int)

Date	Currency	Exchange Rate
19991231	NOK	8.037200
20001229	NOK	8.818500

Appendix

Instrument Type

Code	Instrument Type
A	ADR Security
C	Currency
D	Dual Listing
G	GDR Security
I	Index
M	Multiple share
O	Commodity
S	Security
U	Funds

Forecast Period Indicator

Code	Description
0	Long Term Growth
1	Fiscal Year 1
2	Fiscal Year 2
3	Fiscal Year 3
4	Fiscal Year 4
5	Fiscal Year 5
E	Fiscal Year 6
F	Fiscal Year 7
G	Fiscal Year 8
H	Fiscal Year 9
I	Fiscal Year 10

Code	Description
A	Semi-Annual 1
B	Semi-Annual 2
C	Semi-Annual 3
D	Semi-Annual 4
J	Semi-Annual 5
K	Semi-Annual 6
6	Quarter 1
7	Quarter 2
8	Quarter 3
9	Quarter 4
N	Quarter 5
O	Quarter 6
P	Quarter 7
Q	Quarter 8
R	Quarter 9
S	Quarter 10
T	Quarter 11
L	Quarter 12
U	Fiscal Year without an actual
X	Fiscal Year more than 10 years in the future
Y	Quarter more than 12 quarters in the future
Z	Semi-annual without an actual or more then 6 semi-annual periods in the future

Data Types

Code	Description
D	Decimal Data
N	Numeric Data, fixed format
X	Character Data, any character string

Company Level Footnote Types

Code	Description
3	Earnings on a fully adjusted basis (IFRS)
4	Earnings on a fully reported basis (IFRS)
8	MMMY Estimate reflects FASB APB 14-1
9	MMMY Estimate does not reflect FASB APB 14-1
A	Accounting alert, Free form
C	Accounting alert, Company followed on a cash earnings basis
E	MMMY Estimate reflects adoption of FAS123(R)
F	MMMY Estimate does not reflect adoption of FAS123(R)
G	MMMY Accounting alert, Company earnings before goodwill amortization
I	MMMY Estimates have always reflected adoption of FAS123(R)
K	Company has filed for bankruptcy on [month, day, year]
N	MMMY No known impact from FAS123(R) on estimates
M	Majority Basis includes/excludes...(freeform criteria utilized to define specific accounting scenario of the mean calculation)
W	MMMY Estimates based on IFRS

Currency Units

Code	Currency	Millions/Billions
AED	U.A.E. Dirham	Millions
AFN	Afghanistan New Afghani	Millions
AMD	Armenian Dram	Millions
ARS	Argentine Peso	Millions
AUD	Australian \$	Millions
AZN	Azerbaijan Manet New	Millions
BAM	Marka (Bosnia)	Millions
BDT	Bangladesh Taka	Millions
BGN	Bulgarian Lev (New)	Millions
BHD	Bahrain Dinar	Millions
BMD	Bermuda Dollar	Millions
BOB	Bolivian boliviano	Millions
BPN	British Pence	Millions
BRL	Brazilian Real	Millions
BSD	Bahamas \$	Millions
BWP	Botswanan Pula	Millions
BYR	Belarus Rouble	Millions
BZD	Belize Dollar	Millions
CAD	Canadian \$	Millions
CDF	Congolese Franc	Millions
CHF	Swiss Franc	Millions
CLP	Chilean Peso	Billions
CNY	China Renminbi	Millions
COP	Colombian Peso	Billions

Code	Currency	Millions/Billions
CRC	Costa Rica Colon	Millions
CZK	Czech Koruna	Millions
DKK	Danish Krone	Millions
DOP	Dominican Republic peso	Millions
DZD	Algerian Dinar	Millions
EEK	Estonian Kroon	Millions
EGP	Egyptian Pound	Millions
EUR	Euro	Millions
GEL	Georgian Lari	Millions
GHS	Ghanian Cedi New	Millions
GTQ	Guatemala Quetzal	Millions
HKD	Hong Kong \$	Millions
HNL	Honduran Lempira	Millions
HRK	Croatian Kruna	Millions
HUF	Hungarian Forint	Millions
IDR	Indones. Rupiah	Billions
ILS	Israeli Shekel	Millions
INR	Indian Rupee	Millions
IQD	Iraqi Dinar	Millions
IRR	Iranian Rial	Millions
ISK	Icelandic Krona	Millions
JMD	Jamaican Dollar	Millions
JOD	Jordanian Dinar	Millions
JPY	Japanese Yen	Billions
KES	Kenyan Shilling	Millions
KGS	Kyrgyzstani Som	Millions
KRW	S. Korean Won	Billions

Code	Currency	Millions/Billions
KWD	Kuwait Dinar	Millions
KYD	Cayman Island Dollar	Millions
KZT	Kazakhstan Tenge	Millions
LBP	Lebanese Pound	Millions
LKR	Sri Lanka Rupee	Millions
LTL	Lithuanian Litas	Millions
LVL	Latvian Lat	Millions
LYD	Libyan Dinar	Millions
MAD	Moroccan Dirham	Millions
MDL	Moldovan Leu	Millions
MKD	Macedonian Denar	Millions
MNT	Mongolian Tugrik	Millions
MOP	Macau Pataca	Millions
MUR	Mauritius Rupee	Millions
MXN	Mexican Peso	Millions
MYR	Malays. Ringgit	Millions
NAD	Namibian Dollar	Millions
NGN	Nigerian Naira	Millions
NIO	Nicaragua Cordoba Oro	Millions
NOK	Norwegian Krone	Millions
NZD	New Zealand \$	Millions
OMR	Oman Rial	Millions
PAB	Panama Balboa	Millions
PEN	Peruvian Soles	Millions
PGK	Papua New Guinea Kina	Millions
PHP	Philip. Peso	Millions
PKR	Pakistan Rupee	Millions

Code	Currency	Millions/Billions
PLN	Polish Zloty	Millions
PYG	Paraguay Guarani	Millions
QAR	Qatar Rial	Millions
RON	Romanian Leu New	Millions
RSD	Serbian Dinar New	Millions
SAR	Saudi Riyal	Millions
SDG	Sudanese Pound	Millions
SEK	Swedish Krona	Millions
SGD	Singapore \$	Millions
SKK	Slovakian Koruna	Millions
SVC	El Salvadorian Colon	Millions
SYP	Syrian Pound	Millions
THB	Thailand Baht	Millions
TJS	Tajik Somoni	Millions
TMM	Turkmenistani Manet	Millions
TND	Tunisian Dinar	Millions
TRY	Turkish Lira New	Millions
TTD	Trinidad and Tobago Dollar	Millions
TWD	Taiwan \$	Millions
UAH	UKRAINE HRYVNIA	Millions
UDT	\$U.S./1000 Shrs	Millions
UGX	Ugandan Shilling New	Millions
USD	U.S. Dollar	Millions
UYU	Uruguayan New Peso	Millions
UZS	Uzbekistani Som	Millions
VEF	Bolivar Fuerte	Millions
VND	Vietnam Dong	Millions

Code	Currency	Millions/Billions
XAF	Cameroon CFA franc	Millions
ZAR	S. African Rand	Millions
ZMW	Zambian kwacha	Millions
ZWD	Zimbabwe Dollar	Millions

I/B/E/S Country and Currency Codes with Start Dates

Region	Country	Country Code	Currency Code	Currency Name	Start
Asia	Australia	AA	AUD	Australian Dollar	Jan-87
	Afghanistan	GA	AFA	Afghanistan Afghani	
	Bangladesh	FB	BDT	Bangladesh Taka	Jul-96
	China	FC	CNY	Chinese Renminbi	Apr-93
	Hong Kong	FH	HKD	Hong Kong Dollar	Jan-87
	India	FI	INR	Indian Rupee	Jan-93
	Indonesia	FL	IDR	Indonesian Rupiah	May-90
	Japan	FJ	JPY	Japanese Yen	Jan-87
	Korea	FK	KRW	South Korean Won	Feb-88
	Macau	GD			
	Malaysia	FM	MYR	Malaysian Ringgit	Jan-87
	Mongolia	GP			
	New Zealand	AN	NZD	New Zealand Dollar	Jan-87
	Pakistan	FQ	PKR	Pakistani Rupee	Jan-93
	Philippines	FP	PHP	Philippine Peso	Apr-87
	Singapore	FS	SGD	Singapore Dollar	Jan-87
	Sri Lanka	BL	LKR	Sri Lankan Rupee	Jan-93
	Taiwan	FA	TWD	Taiwan Dollar	Jan-88

Region	Country	Country Code	Currency Code	Currency Name	Start
	Tajikistan	DW			
	Thailand	FT	THB	Thailand Baht	Sep-87
	Turkmenistan	DT			
	Uzbekistan	DZ	UZS	Uzbekistani Som	Jul-05
	Vietnam	GV	VND	Vietnam Dong	Sep-05
Canada	Canada	NC	CAD	Canadian Dollar	Jan-85
Europe	Austria*	EA	ATS	Austrian Schilling	Jan-87
	Belarus	DI	BYR	Belarus Rouble	
	Belgium*	EB	BEF	Belgian Franc	Jan-87
	Bosnia & Herzegovina	CB	BAM	Bosnian Marka	
	Bulgaria	DB	BGL	Bulgarian Lev	Jan-00
	Croatia	DC	HRK	Croatian Kuna	May-99
	Cyprus	EO	CYP	Cypriot Pound	Sep-02
	Czech Republic	EC	CZK	Czech Koruna	Jun-95
	Denmark	SD	DKK	Danish Krone	Jan-87
	Estonia	DE	EEK	Estonian Kroon	May-98
	Finland*	SF	FIM	Finnish Markka	Jan-87
	France*	EF	FRF	French Franc	Jan-87
	Georgia	DJ			
	German*	ED	DEM	German Deutschmark	Jan-87
	Gibraltar	GI			
	Greece**	EH	GRD	Greek Drachma	Nov-92
	Guernsey	DY	BPN	British Pence	Jul-09
	Hungary	EM	HUF	Hungarian Forint	Jun-95
	Iceland	SI	ISK	Icelandic Krona	Apr-04
	Ireland*	EZ	IPN	Irish Pence	Jan-87
	Isle of Man	EW	BPN	British Pence	Jul-09
	Israel	FZ	ILS	Israeli Shekel	Jun-95
	Italy*	EI	ITL	Italian Lire	Jan-87

Region	Country	Country Code	Currency Code	Currency Name	Start
	Jersey	EV	BPN	British Pence	Jul-09
	Kazakhstan	DO	KZT	Kazakhstan Tenge	Nov-04
	Kyrgyzstan	DP			
	Latvia	DK	LVL	Latvian Lats	May-98
	Lithuania	DL	LTL	Lithuanian Litas	May-98
	Luxembourg*	EL	LUF	Luxembourg Franc	Jun-92
	Macedonia	DX			
	Malawi	KO			
	Malta	EQ			
	Moldova	DQ			
	Montenegro	CM			
	Netherlands*	EN	NLG	Netherlands Guilder	Jan-87
	Norway	SN	NOK	Norwegian Krone	Jan-87
	Poland	EG	PLN	Polish Zloty	Jun-95
	Portugal*	EP	PTE	Portuguese Escudo	Apr-91
	Romania	EK	RON	Romanian Leu	May-98
	Russia	ER	USD	US Dollar	Aug-97
	Serbia	EJ			
	Slovakia	DR	SKK	Slovak Koruna	Dec-95
	Slovenia	DV	SIT	Slovenian Tolar	May-99
	Spain*	EE	ESP	Spanish Peseta	Jan-87
	Sweden	SS	SEK	Swedish Krona	Jan-87
	Switzerland	ES	CHF	Swiss Franc	Jan-87
	Tunisia	KV	TND	Tunisian Dinar	Oct-05
	Turkey	ET	TRY	Turkish Lira	Dec-91
	Ukraine	DU	UAH	Ukraine Hryvnia	Jan-00
	United Kingdom	EX	BPN	British Pence	Jan-87
KEY:	euro-in country*	----	EUR	Euro	Jan-99
	euro-in country**	----	EUR	Euro	Jan-01

Region	Country	Country Code	Currency Code	Currency Name	Start
Latin America & Caribbean	Argentina	LA	ARS	Argentine Peso	Jul-92
	Belize	MB	BZD	Belize Dollar	
	Brazil	LB	BRL	Brazilian Real (1000 shares)	Jul-92
			USD	US Dollar (1000 shares)	Jul-92
	Bolivia	LD	BOB	Bolivian boliviano	
	Chile	LC	CLP	Chilean Peso	Oct-92
	Colombia	LL	COP	Colombian Peso	Jun-94
	Costa Rica	LO	CRC	Costa Rican Colon	Oct-04
	Dominican Republic	MD			
	Ecuador	LK			
	El Salvador	LS			
	Guatemala	LQ			
	Honduras	LX			
	Marshall Islands	AI	USD	US Dollar	Jul-09
	Mexico	LM	MXN	New Mexican Peso	May-92
	Panama	LR			
	Paraguay	LZ			
	Peru	LP	USD	US Dollar	Jun-94
	Trinidad & Tobago	LT			
	Uruguay	LU			
Venezuela	LV	VEF	Bolivar Fuerte	Jun-94	
Middle East/ Africa	Algeria	KC	DZD	Algerian Dinar	
	Armenia	DD	AMD	Armenian Dram	
	Azerbaijan	DH	AZM	Azerbaijan Manet	
	Bahrain	FD	BHD	Bahrain Dinar	Jun-05
	Botswana	KB	BWP	Botswana Pula	Jan-00

Region	Country	Country Code	Currency Code	Currency Name	Start
	British Virgin Islands	LE	USD	US Dollar	Jul-09
	Cameroon	JC			
	Congo	KY			
	Egypt	KE	EGP	Egyptian Pound	May-99
	Gabon	KG			
	Ghana	KJ	GHC	Ghanaian Cedi	Jan-00
	Iran	FG			
	Iraq	FV			
	Israel	FZ	ILS	Israeli Shekel	Jul-95
	Ivory Coast	KI			
	Jamaica	LJ			
	Jordan	FR	JOD	Jordanian Dinar	May-99
	Kenya	KK	KES	Kenyan Shilling	Jan-00
	Kuwait	FO	KWD	Kuwait Dinar	May-05
	Lebanon	FX	LBN	Lebanese Pound	Jan-00
	Libya	JL			
	Mauritius	KP	MUS	Mauritian Rupee	Jan-00
	Morocco	KM	MAR	Moroccan Dirham	Jan-00
	Namibia	JX	NAD	NAD	Aug-04
	Nicaragua	LY			
	Nigeria	KN	NGN	Nigerian Naira	Jan-00
	Oman	DM	OMR	OMR	Aug-04
	Palestine	GE			
	Qatar	GQ	QAR	Qatar Rial	May-05
	Rwanda	JR			
	Saudi Arabia	FW	SAR	Saudi Riyal	May-05
	South Africa	KS	ZAR	South African Rand	Jan-87
	Sudan	KD			
	Syria	FY			
	U.A.E.	FU	AED	U.A.E. Dirham	Jun-05

Region	Country	Country Code	Currency Code	Currency Name	Start
	Uganda	KU			
	United Republic of Tanzania	KT			
	Zambia	KZ			
	Zimbabwe	KR	ZWD	Zimbabwe Dollar	Jan-00
United States	United States	NA	USD	US Dollar	Jan-76
	Bahamas	BS	BSD	Bahamas Dollar	
	Bermuda	NB	BMD	Bermuda Dollar	Jul-03
	Cayman Islands	LF	KYD	Cayman Islands Dollar	Jul-03
	Papua New Guinea	AP	PGK	Papua New Guinea Kina	Mar-00
	Puerto Rico	NP			

- Currency code is EUR for Euro-in countries.
- Start Date column refers to earliest date of available Summary History.
- Per-share data items, prices, and shares outstanding in British pence, non-per-share data items in British Pounds.

Sample Data Account & Additional Information

FTP Information

FTP address : ftp.ibes.com

User id : samples

Password : luk\$tou

You can copy and paste the URL:

[ftp://samples:luk\\$tou@ftp.ibes.com/samples/history/](ftp://samples:luk$tou@ftp.ibes.com/samples/history/)

or

[ftp://samples:luk\\$tou@ftp.ibes.com/history/](ftp://samples:luk$tou@ftp.ibes.com/history/)

(depending on your web browser)

Data Sets

US data set consists of 77 US companies. 22 are DOW components. INTL data set consists of 77 INTL companies. There are 2 large cap companies from each country.

Detail History Sample Files

<TYPE>HIST_<CURTYPE>_<ADJOPT>_LEVEL<LVL>_<REG>.ZIP

<TYPE> **DET** for I/B/E/S Summary History

<CURTYPE> **STANDARD** (Standard history) or **NORMALIZED** (Normalized history)

<ADJOPT> **ADJ** (adjusted for splits) or **UNADJ** (unadjusted for splits)

<LVL> **1, 2, 3 or 3K** (please see measure table included in Chapter 2)

<REG> **SMI** (International region sample) and **SMU** (US region sample)

For example:

- DETHIST_STANDARD_ADJ_LEVEL1_SMI.ZIP: includes Adjusted Standard Detail data files for EPS measure for the INT region sample
- DETHIST_STANDARD_UNADJ_LEVEL1_SMI.ZIP: includes Unadjusted Standard Detail data files for EPS measure for the INT region sample
- DETHIST_NORMALIZED_ADJ_LEVEL1_SMI.ZIP: includes Adjusted Normalized Detail data files for EPS measure for the INT region sample
- DETHIST_NORMALIZED_UNADJ_LEVEL1_SMI.ZIP: includes Unadjusted Normalized Detail data files for EPS measure for the INT region sample

- DETHIST_STANDARD_ADJ_LEVEL2_SMU.ZIP: includes Adjusted Standard Detail data files for Level 2 measures for the US region sample
- DETHIST_STANDARD_UNADJ_LEVEL2_SMU.ZIP: includes Unadjusted Standard Detail data files for Level 2 measures for the US region sample
- DETHIST_NORMALIZED_ADJ_LEVEL2_SMU.ZIP: includes Adjusted Normalized Detail data files for Level 2 measures for the US region sample
- DETHIST_NORMALIZED_UNADJ_LEVEL2_SMU.ZIP: includes Unadjusted Normalized Detail data files for Level 2 measures for the US region sample

- DETHIST_STANDARD_ADJ_LEVEL3_SMU.ZIP: includes Adjusted Standard Detail data files for Level 3 measures for the US region sample
- DETHIST_STANDARD_UNADJ_LEVEL3_SMU.ZIP: includes Unadjusted Standard Detail data files for Level 3 measures for the US region sample
- DETHIST_NORMALIZED_ADJ_LEVEL3_SMU.ZIP: includes Adjusted Normalized Detail data files for Level 3 measures for the US region sample
- DETHIST_NORMALIZED_UNADJ_LEVEL3_SMU.ZIP: includes Unadjusted Normalized Detail data files for Level 3 measures for the US region sample

- DETHIST_STANDARD_ADJ_LEVEL3K_SMU.ZIP: includes Adjusted Standard Detail data files for KPI measures for the US region sample
- DETHIST_STANDARD_UNADJ_LEVEL3K_SMU.ZIP: includes Unadjusted Standard Detail data files for KPI measures for the US region sample
- DETHIST_NORMALIZED_ADJ_LEVEL3K_SMU.ZIP: includes Adjusted Normalized Detail data files for KPI measures for the US region sample
- DETHIST_NORMALIZED_UNADJ_LEVEL3K_SMU.ZIP: includes Unadjusted Normalized Detail data files for KPI measures for the US region sample

Additional Related Documentation is also available using the link above in the “Documentation” directory.

- Thomson Reuters I/B/E/S Estimates Data Measure Definitions Guide – February 2013.pdf
- Thomson Reuters Estimates Glossary - January 2013.pdf
- Thomson Reuters I/B/E/S Methodology for Estimates - March 2013.pdf

Glossary

Term	Definition
Adjustment Factor	Cumulative factor that has been applied to historical data to adjust for splits and capitalization changes.
Analyst	Person at the sell-side institution or contributing analyst making the forecast.
Analyst Code	Numeric code matched to each contributing analyst.
Activation Date (YYMMDD)	Date that the forecast/actual was recorded by Thomson Reuters.
Activation Time	Time that the forecast/actual was recorded by Thomson Reuters.
Announce Date (YYMMDD)	Date that the forecast/actual was reported.
Announce Time	Time that the forecast/actual was reported.
Announce Split Date	Effective split date on the Thomson Reuters database.
Announce Stop Date	Effective stop date of an estimate in the Thomson Reuters database.
Cumulative Adjustment Factor	Adjustment factors multiplied together.
Currency	3-CHAR abbreviation indicating denomination of estimate data.
Canadian Currency or Parent/Consolidated Flag	The flag has different usages in the US and non-US file. Its purpose for Canadian companies is to mark the companies whose currency is Canadian. For non-US companies it is a way to differentiate between companies reporting on a parent or consolidated basis.
CUSIP/SEDOL	CUSIPs and SEDOLs are unique alphanumeric identifiers for individual securities. Thomson Reuters uses the first 8 digits for each CUSIP, and Country Code followed by the first 6 digits of SEDOLs in its database.
Dilution Factor	Numeric factor used to convert non-conforming forecasts to Street convention when dilutive issues exist.
Estimator Code	Numeric code matched to each contributing estimator.
Estimator Name	Full name for each contributing estimator.
Estimator	Sell-side institution or contributor making the forecast.
Exchange Rate	Exchange rate used for currency conversions

Term	Definition
Forecast Period Indicator	Each fiscal period (FY1, FY2, Q1, etc.) is given a numeric value. This allows for company comparison regardless of FY end. FY year-end can be cross-referenced through the Forecast Period End Date. (Please refer to Appendix).
Forecast Period End Date	Fiscal period's end date format, for which the measure/periodicity applies.
Group Abbreviation	Coded abbreviation of Group Name.
Group Name	Tertiary division based on business activity.
I/B/E/S Ticker	Unique Thomson Reuters identifier that allows the user to link companies over time regardless of ownership changes.
Industry Abbreviation	Abbreviation for Industry Name.
Industry Name	Secondary division based on business activity.
Measure	Data type indicator or kind of estimate being represented. Examples of measure are EPS, CPS, DPS, etc.
MSCIP Flag	Indicator for companies in the Morgan Stanley Capital International Perspective. This field is no longer used.
Official Ticker	Official trading ticker of company (limited to first four digits).
Parent/ Consolidated Flag	Indicates whether earnings forecasts are provided on a Parent or Consolidated basis.
Periodicity	Frequency by which a measure is recorded. Examples of periodicity are ANN, QTR, SAN, LTG. (Please refer to Appendix).
Primary/Diluted Indicator (Company Level)	Indicates whether the company is followed on a primary or diluted basis.
Primary/Diluted Flag	Indicates whether an individual estimate was received on a Primary basis. In cases where the estimate level (Estimate Level) flag differs from the company level flag, the data has been converted.
Review Date (YYMMDD)	Most recent date that an estimate was confirmed as accurate.
Review Time	Most recent time that an estimate was confirmed as accurate.
Sector Abbreviation	Coded abbreviation for Sector Name.
Sector Name	Primary division based upon business activity.
Sector/Industry/Group	Numeric code indicating type of business; loosely based on S&P industry groupings.

Term	Definition
Start date (YYMMDD)	Date when variable first appeared in the Thomson Reuters database.
Uniform Actuals	Indicator Toggle flag indicating analysts' agreement with regard to latest reported earnings. This field is no longer used.
Value	Value of the forecast or another name for an Estimate.

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