

東洋経済統合データベースサービス

TRENDREPORT

トレンディポ

Overview

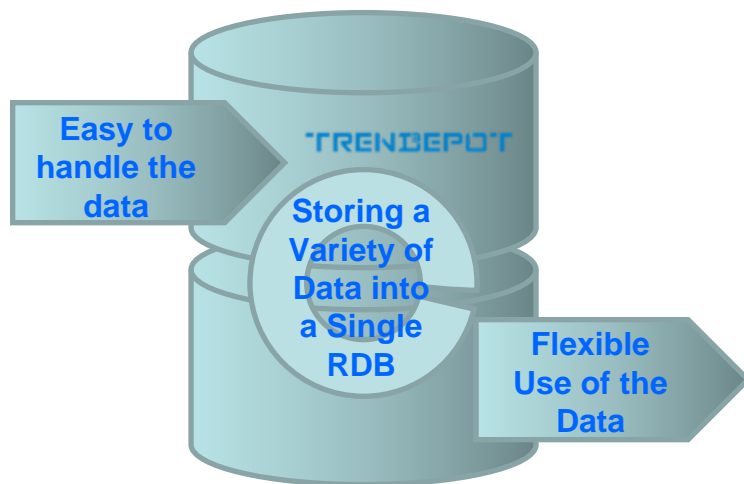
TOYO KEIZAI INC. Product Planning Dept.

2009/12/12

This overview is provided for informational purposes only.
Please note that the contents of this overview may be subject to change without any prior notice.

**Time-series, Relational and Enhanced Database
&
Data Delivery Platform
Operated by TOYO KEIZAI INC.**

3 Features



Storing a Variety of Data into a Single RDB

- ✓To focus on the data of over 4000 Japanese companies
- ✓With standardized account items definitions

Easy to Handle the Data

- ✓The data in plain text files are delivered via Internet FTP.
- ✓All the records have their own ID and timestamp.

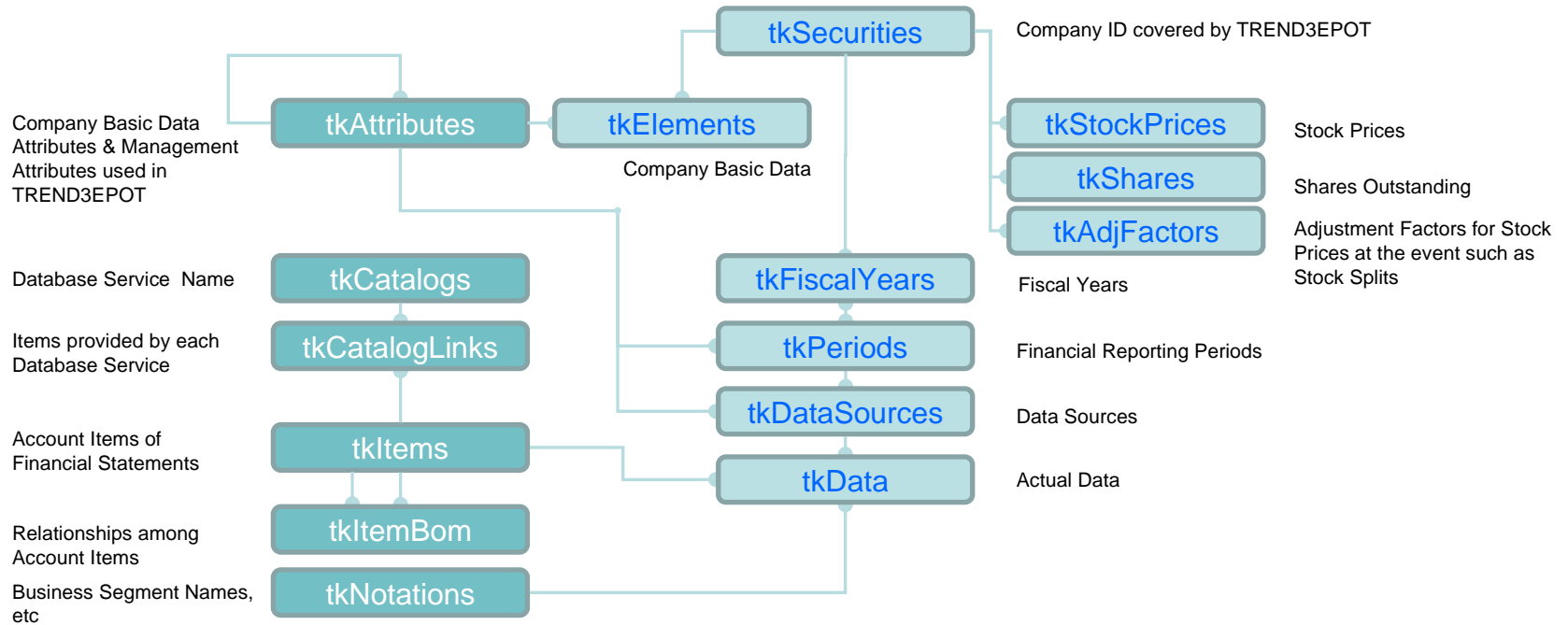
Flexible Use of the Data

- ✓RDB on your site will have all the data.
- ✓You can use your RDB through sample SQL queries in more organized ways.

Important Information for Use

- ◆ You need to prepare the hardware and software* with which you can use TREND3EPOT service, at your own costs.
 - * Recommended RDB products are [Microsoft SQL Server 2005 SP2 or later version](#) or [Oracle 10G](#).Some queries are not provided for ORACLE. These queries are provided only for SQL Server 2005 or later.
The necessary disk size varies significantly according to the sizes of indexes and/or extended user objects.
- ◆ TREND3EPOT is a set of database services with several packages. You have to conclude the agreement for use of one or more of database services to subscribe with TOYOKEIZAI.
- ◆ TOYOKEIZAI provides you with updated data according to the contracted frequency.
- ◆ You need to update TREND3EPOT's data to your RDB by yourself.
- ◆ In TREND3EPOT service, TOYOKEIZAI is responsible for preparing 4 text files which contain updated data according to the agreement, compressing these files into one file and setting it on our FTP server.
- ◆ TOYOKEIZAI provides you with sample queries for updating the database and/or using the data, please use these queries at your own risk.

Table Structure



Definition Table × 6

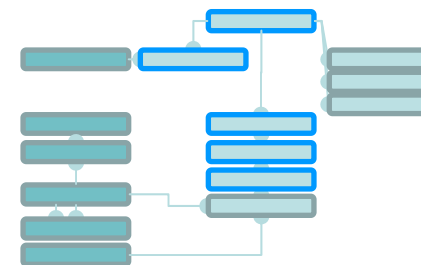
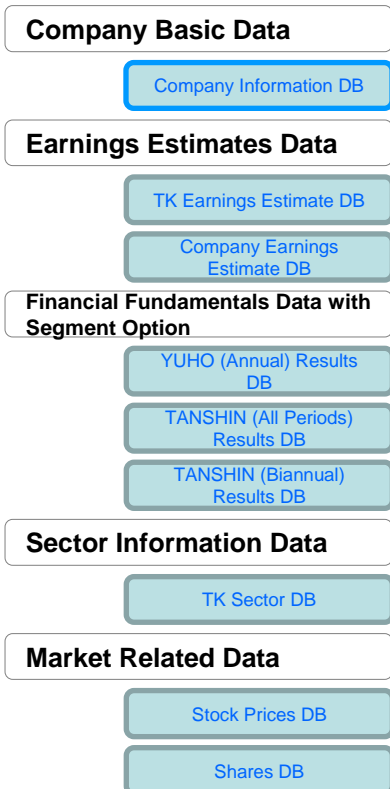
✓These six tables are master tables where provided in TREND3EPOT are defined.

Data Table × 9

✓These nine tables will store updated data of TREND3EPOT.

✓The data volume of tkData table and that of tkStockPrices table are much larger than that of any other table.

Database Service – Company Basic Data



Company Information DB

- ✓ Company Name, Address, Listed Exchange, etc are available with their historical data.
- ✓ Besides listed companies, J-REIT and major un-listed companies are covered.
- ✓ 4digits Securities Identification Codes, New Security Codes (ISIN) and EDINET codes are available.
- ✓ 33 Sectors defined by Securities Identification Code Committee are available.
- ✓ Nikkei225 and Nikkei300 constituents information is available though there are some constraints on sales.

- ◆ Without the agreement for use of Earnings Estimates Data and Financial Fundamentals Data, the records of fiscal years, financial reporting periods, data sources will be provided.
- ◆ As a rule, TOYOKEIZAI will provide historical data from listed dates, but there may be some gaps in the historical data.
- ◆ For delisted companies, TOYOKEIZAI maybe stop updating their information after delisted.

Database Service – Earnings Estimates Data

Company Basic Data

Company Information DB

Earnings Estimates Data

TK Earnings Estimate DB

Company Earnings Estimate DB

Financial Fundamentals Data with Segment Option

YUHO (Annual) Results DB

TANSHIN (All Periods) Results DB

TANSHIN (Biannual) Results DB

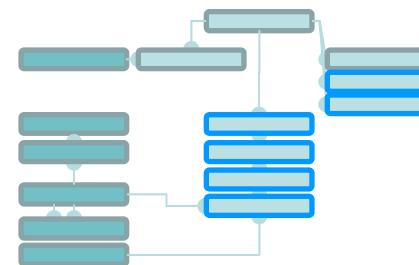
Sector Information Data

TK Sector DB

Market Related Data

Stock Prices DB

Shares DB



TK Earnings Estimate DB

✓ TOYOKEIZAI's original Earnings Estimate data are available for a six-month interim of FY1 (or FY2), a full year of FY1 and a full year of FY2, respectively.

✓ Items are Net Sales/Operating Income/Ordinary Income/Net Income/EPS/Interim DPS (Total /Max)/Full year DPS (Total/Max). However, according to a business category, these items have different meanings (For example, Operating Revenue for Bank is regarded as a Net Sales item).

✓ The number of shares outstanding on ex-right date basis and stock price adjustment factors are also available.

Company Earnings Estimate DB

✓ Earnings estimate data disclosed by "TANSHIN Report" are available.

✓ Earnings estimate data disclosed by "Company Release" are available.

◆ The date when REIT earnings estimates data are available is not decided yet.

◆ Company Earnings Estimate DB is not including the number of shares outstanding on ex-right date basis and stock price adjustment factors.

Database Service – Financial Fundamentals Data with Segment Option

Company Basic Data

Company Information DB

Earnings Estimates Data

TK Earnings Estimate DB

Company Earnings
Estimate DB

Financial Fundamentals Data with Segment Option

YUHO (Annual) Results
DB

TANSHIN (All Periods)
Results DB

TANSHIN (Biannual)
Results DB

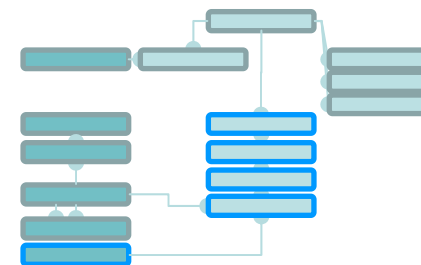
Sector Information Data

TK Sector DB

Market Related Data

Stock Prices DB

Shares DB



Financial Fundamentals Data with Segment Option

- ✓ New standardized account items definitions are adopted.
- ✓ Items of the financial fundamentals data are defined by each business category.
(General/Bank/Brokerage/Casualty Insurance/Life Insurance/REIT)
- ✓ Adopting a hierarchical structure, you can understand each account item definition clearly.

- ✓ Segment information data are available as an optional service.
- ✓ Quarterly YUHO Report data disclosed since April-June Quarter of 2008 are available in TANSHIN Results DB (For users of YUHO (Annual) DB, Quarterly YUHO Report Data are available as an optional service).

- ◆ The data provided in TOYOKEIZAI New Fundamentals Data format are converted into newly defined account items according to a fixed rule.
- ◆ For users of TANSHIN Results DB or TANSHIN (Biannual) Results DB, earnings estimate data disclosed by "TANSHIN Report" are available, but earnings estimate data disclosed by "Company Release" are not available.
- ◆ TANSHIN (Biannual) Results are available only for users who have used TOYOKEIZAI New Fundamentals Data (TOYOKEIZAI will not serve this DB for new users).

Database Service – Sector Information Data

Company Basic Data

Company Information DB

Earnings Estimates Data

TK Earnings Estimate DB

Company Earnings
Estimate DB

Financial Fundamentals Data with Segment Option

YUHO (Annual) Results
DB

TANSHIN (All Periods)
Results DB

TANSHIN (Biannual)
Results DB

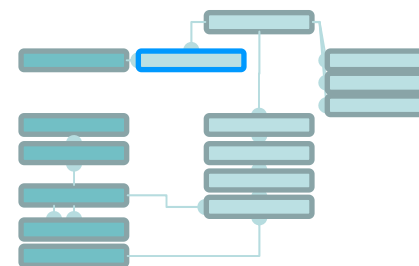
Sector Information Data

TK Sector DB

Market Related Data

Stock Prices DB

Shares DB



TK Sector DB

- ✓ TOYOKEIZAI's original sector information data are available.
- ✓ Sector classifications are defined in the form of a hierarchical structure with four levels. The 1st level has 8 sector classifications, the 2nd level has 31 sector classifications, the 3rd level has 60 sector classifications and 4th level has about 480 sector classifications.
- ✓ Each Japanese listed company has 4th level sector classification.
- ✓ Except for the case that a big change for its sector is necessary during a fiscal year, each Japanese listed company's sector is reexamined annually after the company discloses its annual TANSHIN report.

Database Service – Market Related Data

Company Basic Data

Company Information DB

Earnings Estimates Data

TK Earnings Estimate DB

Company Earnings
Estimate DB

Financial Fundamentals Data with Segment Option

YUHO (Annual) Results
DB

TANSHIN (All Periods)
Results DB

TANSHIN (Biannual)
Results DB

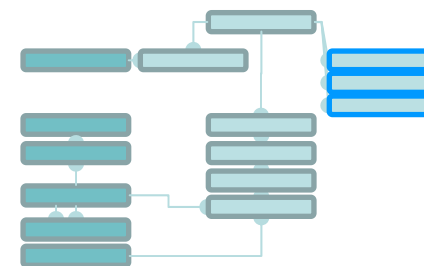
Sector Information Data

TK Sector DB

Market Related Data

Stock Prices DB

Shares DB



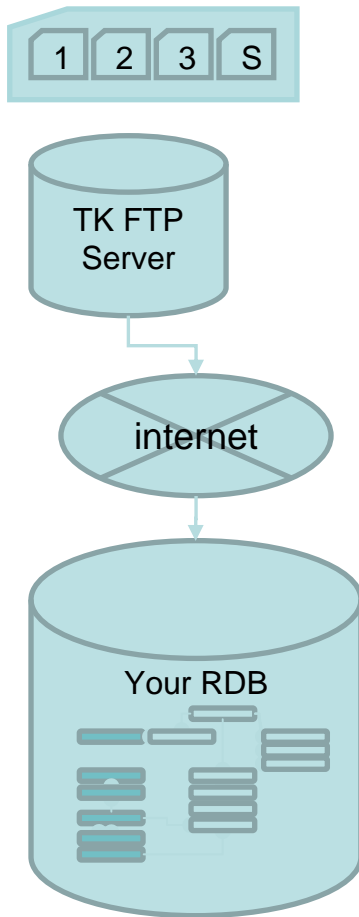
Stock Prices DB

- ✓ Daily stock prices series of all Japanese listed companies on their principal market are available (There are some constraints on sales).
- ✓ A reference stock price is a closing price on a relevant date, or an indicative price if such closing price is not available for the date, or the last transaction price if such indicative price is not available for the date.
- ✓ A principal market for a reference price for each stock is determined or reexamined semi-annually based on the trading volume over the latest six months.
- ✓ Stock price adjustment factors are also available.

Shares DB

- ✓ The most probable number of shares (including treasury stocks) for the next business day will be estimated on ex-right date basis.
- ✓ Even if errors of share number calculated in the past are found later, the data already provided for users will not be revised except for errors caused by TOYOKEIZAI's obvious calculation mistakes, or for errors which have relatively large influence.
- ✓ Stock price adjustment factors are also available.

5 STEPs for updating the data



STEP 1

TOYOKEIZAI will set a compressed file of 4 text files containing updated data according to the agreement on TK FTP Server.

STEP 2

Get the compressed file and extract it, and then update the data in the text files received to a temporary table as a pre-updating process for physical tables.

STEP 3

Update physical tables from the temporary table.

STEP 4

Confirm the record counts of the data distribution after updating to check the consistency of the data (by using the information provided by Text S file).

STEP 5

Use updated TREND3EPOT data.

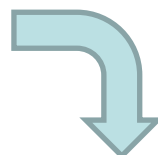
- ✓ TOYOKEIZAI will provide you with sample queries for the STEP 3 and STEP 4 mentioned above.

- ◆ Above mentioned Step 1 is within TREND3EPOT's scope of services.
- ◆ It is your responsibility to perform STEP 2,3,4,and 5.

Plain text files with common format – 1. How to create the common format in TK site

| Database service | Text1 | Text2 | Text3 |
|-----------------------------|-------|-------|-------|
| Company Basic Data | ● | ○+ | |
| Earnings Estimates Data | ● | ○ | △ |
| Financial Fundamentals Data | ● | ○ | |
| Sector Information Data | ● | ○ | |
| Market Related Data | | | ○ |

- Data are provided when attributes and/or item definitions are newly added.
- Updated data are provided.
- + Records of fiscal years, financial reporting periods, data sources are provided as Company Basic Information.
- △ The number of share on ex-right date basis and stock price adjustment factors are provided for TK Earnings Estimate DB user.



✓ Each updated record is written as the common format (10 columns below) into 3 text files (Text1.2.3).

| | Column Name | Explanation |
|----------|--------------------|---|
| Column1 | tableName | A table name to be updated |
| Column2 | pkIDValue | Primary key value for the table (to specify the record) |
| Column3 | validStartDatetime | Record Management Information columns common to 15 tables of TREND3EPOT |
| Column4 | validEndDatetime | |
| Column5 | invalid | |
| Column6 | insertDatetime | |
| Column7 | lastUpdateDatetime | |
| Column8 | sourceClassID | |
| Column9 | colName | The column name of the record |
| Column10 | colValue | The value of column9 of the record |

Plain text files with common format – 2. How to restore the original format in your site

| Table Name | Text1 | Text2 | Text3 |
|----------------|-------|-------|-------|
| tkAttributes | ● | | |
| tkCatalogLinks | ● | | |
| tkCatalogs | ● | | |
| tkItemBom | ● | | |
| tkItems | ● | | |
| tkNotations | ● | | |
| tkData | | ○ | |
| tkDataSources | | ○+ | |
| tkElements | | ○ | |
| tkFiscalYears | | ○+ | |
| tkPeriods | | ○+ | |
| tkSecurities | | ○ | |
| tkAdjFactors | | | ○△ |
| tkShares | | | ○△ |
| tkStockPrices | | | ○ |

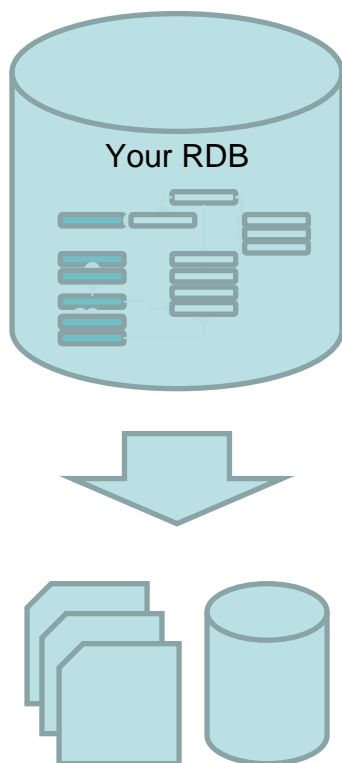
- Data are provided when attributes and/or item definitions are newly added.
- Updated data are provided.
- + Records of fiscal years, financial reporting periods, data sources are provided as Company Basic Information.
- △ The number of share on ex-right date basis and stock price adjustment factors are provided for TK Earnings Estimate DB user.

| | Column Name | Explanation |
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| Column9 | colName | The column name of the record |
| Column10 | colValue | The value of column9 of the record |



- ✓ Updating each table by using the text files (Text1.2.3)
 1. To restore a record by using GROUP BY of column1 and column2. It shows which table is updated and which row is updated.
 2. INSERT or UPDATE the record rebuilt in the above should be done by comparing it to the existing record in the table.
- ✓ All the records updated have their own ID and timestamp.
- ◆ Please note that insertDatetime and lastUpdateDatetime are different from the operation time of your database because these timestamp's values have already been decided by TOYOKEIZAI's operations.

Examples of using TREND3EPOT



✓You can select a list of companies which have the same attributes at a given point in time.

- Listed companies at a given point in time
- Companies belonging to the same sector at a given point in time
- Companies selected as members of Nikkei 225 at a given point in time

✓You can select a list of companies which experienced a specific event for any given duration.

- IPO companies for any given duration
- Delisted companies for any given duration
- Renamed companies for any given duration

✓You can select a list of results/estimated fiscal years at a given point in time.

- (For Time Series Analysis) Selecting financial results and earnings estimates for a specific company
- (For Cross-Sectional Analysis) Summing up a specific account item (for example, Net Sales) within a specific group of companies for a specific fiscal year (for example, the latest fiscal year at a given point in time)

✓You can calculate adjusted stock prices by using Stock Prices DB data at a given point in time since January 4, 1991.

✓You can calculate adjusted EPS and adjusted DPS by using TK Earnings Estimate DB data at a given point in time since February 21, 2001.

✓You can restore (parts of) TK existing file services.

- Company Attributes table
- TK Earnings Estimate Data file
- New Fundamentals Data format

◆TOYOKEIZAI provides you with sample queries for using TREND3EPOT data, please use these queries at your own risk.

◆In addition to TREND3EPOT original 15 tables, you may need to create other objects (like tables or views).

◆In some cases, sales terms constrain Nikkei Indexes Constituent Information and Stock Prices DB data from being provided.

The beginning point from when the data started to be stored

| | | | | | | | | |
|-----------------------------|---------------------|-----------------------------|----------------------|----------------------|---------------------|----------------------|---------------------------------|-------------------------|
| Company Information | Basic Information | Basically from listed dates | Nikkei225 | 1970/03/29 | Nikkei300 | 1994/09/25 | 33 Sector Classifications | 1993/07/02 |
| TK Earnings Estimate | Quarterly Update | 1985/03/15 | Weekly Update | 1995/09/06 | Daily Update | 2001/02/21 | | |
| Company Earnings Estimate | From TANSHIN Report | 1985/07/20 | From Company Release | 2002/01/07 | | | | |
| Fundamentals (General) | YUHO (Annual) | Period Ended 1976/10 | TANSHIN (Biannual) | Period Ended 1985/01 | TANSHIN (Quarterly) | Period Ended 2001/12 | Quarterly YUHO Report | Period Ended 2008/06 |
| Fundamentals (Bank) | YUHO (Annual) | Period Ended 1976/03 | TANSHIN (Biannual) | Period Ended 1989/03 | TANSHIN (Quarterly) | Period Ended 2003/12 | Quarterly YUHO Report | Period Ended 2008/06 |
| Fundamentals (Brokerage) | YUHO (Annual) | Period Ended 1971/09 | TANSHIN (Biannual) | Period Ended 1989/03 | TANSHIN (Quarterly) | Period Ended 2001/12 | Quarterly YUHO Report | Period Ended 2008/06 |
| Fundamentals (CasualtyIns.) | YUHO (Annual) | Period Ended 1972/03 | TANSHIN (Biannual) | Period Ended 1989/03 | TANSHIN (Quarterly) | Period Ended 2007/06 | Quarterly YUHO Report | Period Ended 2008/06 |
| Fundamentals (Life Ins.) | YUHO (Annual) | Period Ended 2002/03 | TANSHIN (Biannual) | Period Ended 2002/03 | TANSHIN (Quarterly) | Period Ended 2002/12 | Quarterly YUHO Report | Period Ended 2008/06 |
| Fundamentals (REIT) | YUHO (Annual) | Period Ended 2001/12 | TANSHIN (Biannual) | Period Ended 2001/12 | | | | |
| Segment | YUHO (Annual) | Period Ended 1990/01 | TANSHIN (Biannual) | Period Ended 1999/01 | TANSHIN (Quarterly) | Period Ended 2001/12 | Quarterly YUHO Report | Not to be delivered yet |
| TK Sectors | Daily Update | 2000/01/01 | | | | | | |
| Daily Stock Price | Tokyo Osaka Nagoya | 1984/01/04 | Fukuoka Sapporo | 1985/07/22 | OTC/JQ | 1991/10/28 | HC | 2000/12/25 |
| Shares | Ex-right Date Basis | 1991/01/04 | | | | | Stock Price (Hiroshima Niigata) | 1986/09/29 |
| Adjustment Factors | For Stock Price | 1984/01/04 | | | | | | |

The coverage by Financial Fundamentals Data

| Oproviding ΔPartly providing OP Providing as option × Not to be provided *YUHO only | | | | | | |
|---|-----------------------|---|---------------|-----------------------|--------------------|---------------------|
| Business Category | Main Section | Overview of items provided | YUHO (Annual) | Quarterly YUHO Report | TANSHIN (Biannual) | TANSHIN (Quarterly) |
| Common | Summary | Main items like PL/BS/CF/DPS etc. DPS provided as parent results items | ○ | Δ No DPS data | ○ | ○ |
| | Net Assets or Equity | Net Assets or Shareholders Equity items | ○ | ○ | ○ | ○ |
| | Changes In Net Assets | Changes in Owners' Equities Statement items disclosed from FY starting at 2006/4/1 | ○ | N/A | ○ | ○ |
| | Retained Earnings | Consolidated Surplus Statement, Parent Disposed Surplus Statement items until FY ending 2006/3/31 | ○ | N/A | ○ | ○ |
| | Notes | Consolidated Companies, Shares, Directors and Employees, Capital Expenditure and R&D, Dividends paid, Contingent Liabilities, Impairment Losses*, Lease*, Retirement Benefit* | ○ | × | Δ | Δ |
| | | Unrealized Gains or Losses on Securities *, Stock Option*, Per Share Information, Going Concern | × | × | × | × |
| | Segment | Business Segment, Geographic Segment, Overseas Sales Segment | OP | × | OP | OP |
| General | BSPLCF | BS, PL, CF items | ○ | ○ | ○ | ○ |
| | Notes | Trade Notes Factored, Collateral*, Costs Of Sales*, Bonds*, Borrowings*, Orders Backlog* | ○ | × | Δ | Δ |
| Bank | BSPLCF | BS, PL, CF items | ○ | ○ | ○ | ○ |
| | Notes | Available Funds, Banking Profit, Interest Spread, Risk Monitored Loans, Loans by Industry, Capital Adequacy Ratio, Trust Account | Δ | × | Δ | Δ |
| Brokerage | BSPLCF | BS, PL, CF items | ○ | ○ | ○ | ○ |
| | Notes | Commission Breakdown, Trading Income, Trading Volume, Capital Adequacy Ratio | Δ | × | Δ | Δ |
| Casualty Insurance | BSPLCF | BS, PL, CF items | ○ | ○ | ○ | ○ |
| | Notes | Operating Breakdown, Investment Assets*, Risk Monitored Loans, Solvency Margin | Δ | × | Δ | Δ |
| Life Insurance | BSPLCF | BS, PL, CF items | ○ | ○ | ○ | ○ |
| | Notes | Core Profits, Operating Breakdown, Investment Assets, Risk Monitored Loans, Solvency Margin | Δ | × | Δ | Δ |
| REIT | BSPLCF | BS, PL, CF items | ○ | N/A | ○ | N/A |