TIBCO® Patterns

A Simple, Powerful Approach to Working with Imperfect Data
A SIMPLE, POWERFUL APPROACH TO WORKING WITH IMPERFECT DATA

ENABLING SYSTEMS TO THRIVE WITH IMPERFECT DATA

Whether it’s pairing invoices with a purchase order, transactions with a customer history, or part numbers with a supplier’s inventory list, your business processes rely on being able to find and match the right data.

But as your business grows, more processes will need to link more data across more sources. Unless your systems can handle imperfect data, discrepancies will hinder processes from finding what they need.

TIBCO® Patterns makes your systems smarter – enabling them to use data from any source, despite its errors and imperfections. Eliminating the need to standardize or apply complex rule sets, you can reduce the time and costs previously invested to make imperfect data usable.

Taming Unruly Data

In the real world, data will never be 100% perfect, never 100% consistent, and never 100% complete – and it never can be. Coming from multiple sources and touching many different systems and users, it quickly begins to accumulate errors: duplicates, inconsistencies, etc.

Further compounding the problem: conventional systems – even advanced ones – have very little tolerance for dealing with imperfect data. To accurately find what they need, they rely on exact or almost exact matches. Throw in a few simple errors and differences, and they can’t cope.

As a result, much of the leftover work needs to be done by people. While they can accurately match data by identifying patterns in similarities, they lack the speed of machines. Often a costly and complex process, businesses need a simpler and powerful means of matching records.

Over the years, a number of approaches and techniques have tried to automate data matching – but none have been able to effectively recognize similarities in data records. Why? They address the problem after the fact – waiting until duplicate or incomplete information has already made its way into your databases.

Only then do they provide you with the standardization and rule-based tools to help your processes accurately match records and run efficiently – which can quickly accrue steep investments in time, resources, and costs.

Imagine combining the innate accuracy of humans with the speed of machines – that’s TIBCO Patterns. Instead of detecting data quality problems after the fact, you can eliminate them before they occur and detect others before they create problems for your business.
A Simpler, More Powerful Approach

With TIBCO Patterns, your systems can use data, despite its imperfections – no standardization or rule sets required. Using a patented method modeled after the way humans perceive similarity, this real-time matching platform:

• Efficiently identifies potential problems before data is added to and updated within your databases – in any language and from any source
• Automatically learns from human examples of how decisions are made – eliminating the need to create or modify rule sets
• Quickly processes tens of millions of records with sub-second response times

In addition to reducing the time, resources, and costs currently being invested to manage data issues, this approach will enable you to:

• Realize the full potential of your IT investments
• Make better decisions with a stronger quality of data
• Enhance relationships with customers, suppliers, and other stakeholders
• Increase the efficiency of business processes and achieve the highest accuracy and level of automation

Step Two: Continuously Manage Data Quality

TIBCO® Patterns – Learn adds an unprecedented level of intelligence for solving complex matching problems – and is fully customizable.

How it works: using an exclusive system that models human decision-making, it learns by automatically understanding the patterns of example-decisions provided by your own data experts – and creates a decision model that will accurately replicate those same decisions.

Once trained, the engine’s model reliably makes the same decisions as your own experts, but at computer speeds and with no loss in concentration. The system tracks its own progress in converging to a valid model, and tells you when it has enough examples to make reliable decisions. Quality assurance and validation are greatly simplified.

Because creating a decision model is so easy, you can build a custom model for each critical business decision – tailored specifically to the characteristics of your data and markets.

Customer Achievements:

A major healthcare provider is improving treatment outcomes by linking records from multiple hospitals, clinics, and specialized treatment facilities to the right patient in their master patient index.

A major healthcare vendor helps providers maintain duplicate-free master patient indexes and the ability to find the right patient first time, every time.

The Rovi (TV Guide) can produce and distribute a single, consistent view of all TV programs scheduled for broadcast to more than 170 broadcast and cable operators.

A major medical equipment supplier has been able to reduce the processing time for quote requests - from 5 days to 4 hours.

The State of California can efficiently maintain the world’s largest research-ready Biobank – providing genetic researchers access to a comprehensive source of information.

Los Alamos National Labs can maintain their world-class bibliographical and citation database in real time with a high level of accuracy.

The Hong Kong Customs and Excise Department can effectively enforce laws by precisely monitoring the goods and people that enter and leave the region.
TIBCO PATTERNS AT-A-GLANCE

Summary
Using a patented method modeled after the way humans perceive similarity, TIBCO Patterns enables systems to use data, despite its imperfections – no standardization or rule sets required.

Business Challenges
• Data errors and discrepancies make business processes inefficient
• Imperfect data hinders businesses from realizing the full potential of their IT investments
• Applying conventional methods across millions of records require steep investments in costly and time-intense resources

Key Features
• Works with any structured data in any language – no elaborate setup or maintenance is needed
• Efficiently identifies potential problems before data is added to and updated within databases
• Automatically learns from human examples of how decisions are made – eliminating the need to create or modify complex rule sets
• Quickly processes tens of millions of records with sub-second response times
• Straightforward integration with any application, system, process, or tool that needs to be smarter about dealing with imperfect data
• Includes pallets for drag and drop development with TIBCO BusinessWorks™ and TIBCO BusinessEvents®

Business Benefits
• Enables business to maximize the strategic gains of its existing IT infrastructures
• Fuels better decisions based on a stronger quality of data
• Significantly reduces the time and costs required to make imperfect data usable and find inexact matches
• Provides the foundation to enhance the quality of relationships with customers, suppliers, and other stakeholders
• Increases the efficiency of business processes by providing the highest accuracy and level of automation

For More Information
Learn how TIBCO Patterns works: netrics.com/demo/netricsspot.html
See it in action: netrics.com/demo

Using a patented technology modeled after the way humans perceive similarity, TIBCO Patterns can match any type of data in any language, despite how imperfect the target data may be.

About TIBCO
TIBCO Software Inc. (NASDAQ: TIBX) is a provider of infrastructure software for companies to use on-premise or as part of cloud computing environments. Whether it’s optimizing claims, processing trades, cross-selling products based on real-time customer behavior, or averting a crisis before it happens, TIBCO provides companies the two-second advantage™ – the ability to capture the right information at the right time and act on it preemptively for a competitive advantage. More than 4,000 customers worldwide rely on TIBCO to manage information, decisions, processes and applications in real time. Learn more at www.tibco.com

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