



## TABEX<sub>4</sub> JTC SOLUTIONS FOR INSURANCE COMPANIES

### TABEX<sub>4</sub> JTC

TABEX<sub>4</sub> JTC is bridging the gap between mainframe and decentralized Java applications. TABEX<sub>4</sub> JTC delivers your master data to your Java business applications for read access, regardless where the data comes from. TABEX<sub>4</sub> JTC read access is up to 550-times faster than direct data base access via JDBC.

### TOP COMPANIES RUN TABEX<sub>4</sub> JTC

Each business has specific requirements and develops its products under individual conditions. Comprehensive knowledge is the essence for long-term success.

Longtime relations with top-companies and numerous projects made us experts for table management. We offer individual solutions for:

- Banks
- Insurances
- IT Service Providers and Datacenters
- Industry and Service Providers

### TYPICAL REQUIREMENTS OF INSURANCES

The development and maintenance of insurance products requires various information: From customer data through to parameter and control data. They are usually stored in tables – and can run into thousands. All of them need to be managed according to current safety rules.

Some control tables are accessed billions of times each day. They are often stored in different databases on various database systems and platforms.

TABEX<sub>4</sub> provides master data and control data ultra-fast, linearly scalable, internally consistent, versioned and ultimately traceable – from all data sources and for all users. With TABEX<sub>4</sub> JTC, this is now possible for Java business applications as well.

## BRIDGING THE GAP BETWEEN MAINFRAME AND DECENTRALIZED JAVA APPLICATIONS

Insurances rely on the mainframe for their IT development strategy. The connection to the decentralized Java world plays an increasingly important role. New applications are implemented either on the mainframe in COBOL or decentral in Java, but both must access identical productive data.

For decentralized Java applications this access has so far only been realized with high costs via IMS transactions on the mainframe. On the contrary, TABEX4 JTC does not need complex structural adjustments. It provides productive data from various sources in an easy and safe way, automatized for the world's fastest decentral Java access. Changes in maintenance and backup concepts are not necessary.

Thus, business applications can be realized on the most efficient platform.

TABEX4 JTC is an essential infrastructural component, meeting highest requirements:

1. World's fastest Java table access
2. Connecting various data sources
3. One company-wide Java table access interface
4. Intuitive APIs for any table search logic
5. Multi-tenant Java Table Cache
6. Easy handling of temporal data
7. Stability and scalability
8. Traceability of all Data Changes

## 1 World's fastest Java table access

Insurances access their master data and control data billions of times each day. TABEX4 JTC guarantees the world's fastest Java access: Java access on TABEX4 JTC is up to 40-times faster as on the in-memory database H2. TABEX4 JTC Client accesses are up to 550-times faster as direct data accesses via JDBC.

Your advantage: TABEX4 JTC economizes CPU resources and guarantees significant license cost savings.

## 2 Connecting various data sources

TABEX4 JTC comes with a modern, intuitive user interface. It is web-based and enables you to comfortably select all required tables, regardless of their source. You may configure edits and define views, indices and joins – even across different databases. Table data can be updated automatically event- or time-based.

Your advantage: TABEX4 JTC ensures the currency of your data. Its efficient and flexible options for data configuration do not require any changes in your present maintenance and backup processes.

## 3 One company-wide Java table access interface

Consistent control and audit-proof maintenance of all business applications and all used data is essential for an insurance. In the decentralized (Java) world, this challenge is much bigger than on the mainframe.

TABEX4 JTC is a configurable middleware that allows to control all master data and control data centrally.

Your advantage: TABEX4 JTC gives you full control over the productive data that is used by your Java applications, and it does not restrict your Java developers.

## 4 Intuitive APIs for any table search logic

TABEX 4 JTC provides the developer with simple but powerful NoSQL functions for accessing the table cache, ensuring high performance for read access on table data.

Some features of the TABEX4 JTC APIs are:

- Single access and mass access via key, part key and freely selectable search arguments and search operators (equal, smaller than, ..., wildcard, regular expression, ...)
- Freely definable column selection and order despite of NoSQL
- Methods for querying a variety of table metadata
- Local caching of tabular data for high-performance access on-heap
- Indices over arbitrary single or combined table columns for a further optimization of the access performancee
- Support of all primitive Java data types and of all numerical formats including BigDecimal
- Control of the access behaviour, either programmatically or by an external configuration via properties
- Search paths allow searching data in multiple dataspace within the cache and abstract from the organisation of the application code (e.g. tenants)
- Built-in versioning of data for temporal data as well as historization so that the versioning does not have to be implemented in the application code

Your advantage: Time-saving and efficient development of your application programs.

## 5 Multi-tenant Java Table Cache

TABEX4 JTC is multi-tenant and can serve multiple independent sub systems – the so-called instances – on the same server.

The instances themselves can be configured perfectly for your corporate structure: Disjoint units that have neither users nor data in common, are as well possible as instances with overlap (e.g. shared users, databases, authorizations, etc.).

Your advantage: Installation and maintenance can be executed centrally. Data used by multiple instances as well as configurations need to be stored, maintained and managed only once.

## 6 Easy handling of temporal data

TABEX4 JTC is designed for the use of temporal tables – different versions of a table with the same name, but different data and other temporal validity. TABEX4 JTC can save several temporal table versions and searches automatically for the version that was valid for the given date.

Your advantage: Easy handling of temporal processes in your company.

## 7 Stability and scalability

TABEX4 JTC comes with a Java Enterprise Cache. It enables easy and linear scalability as well as safety features such as TLS, password protection, reliability, etc.

TABEX4 JTC plugs directly into all established enterprise caches, e.g. Hazelcast, Infinispan, Terracotta, Ehcache etc.

Your advantage: The infrastructure requires remarkably little maintenance and adjusts perfectly to your corporate structure.

## 8 Traceability of all data changes

TABEX4 JTC prepares the changed data and all resulting views and indices, merges them into a JTC Snapshot, and transfers them to the replication system. Every Snapshot has a unique ID, and TABEX4 JTC can be configured to archive the complete data of a snapshot. The Java methods of the TABEX4 JTC Client enable to deliver the Snapshot ID back to your business application. You may protocol that ID and match the used data to your business application by the TABEX4 JTC Snapshot Archive.

Your advantage: You can choose the best option for you company: From no archive procedures at all up to the highest traceability level for every single process.

