



TABEX4 JAVA ACCESS

TABEX4

TABEX4 is the leading cross-platform standard software for table access and maintenance. Highest performance and convenient data maintenance make TABEX4 an optimal tool for efficient and revision-proof table management.

TABEX4 JAVA ACCESS

TABEX4 JAVA ACCESS is a supplement to the TABEX4 installation. It extends TABEX4 by a Java interface for read access to table data using TCP/IP.

Access is possible from any Java environment, including:

- Web applications (Java/JSP)
- GUI applications
- Server-batch applications

The tables are loaded just once in the main memory, either in the memory of the call server process or in shared memory areas (common data spaces).

YOUR ADVANTAGES

- Plattform-independent read access to current, centrally-controlled data in TABEX4.
- Lower hardware and software costs by efficient usage of your CPU and outsourcing of user programs from the mainframe.
- All variants of the read-access TABEX4 API library can be used within Java applications, enabling high-performance access.
- The usage of the Common Data Space technology enhances the performance in comparison to database accesses (up to 20 times faster than DB2).
- TABEX4 JAVA ACCESS includes the TABEX4 JAVA ACCESS Remote Connection Factory, an interface for implementing fault tolerance and load balancing.

ONE PRODUCT – TWO VARIANTS

We provide you the product in two variants:

- TABEX4 JAVA ACCESS^{unlimited} for unrestricted read access to a TABEX4 installation. This product is of benefit to all those customers who expect high data traffic with their Java accesses.
- TABEX4 JAVA ACCESS^{flexible} is of benefit to all those customers who implement only few accesses in Java and to all those who expect low data traffic.

INTERFACE FOR FAULT TOLERANCE AND LOAD BALANCING

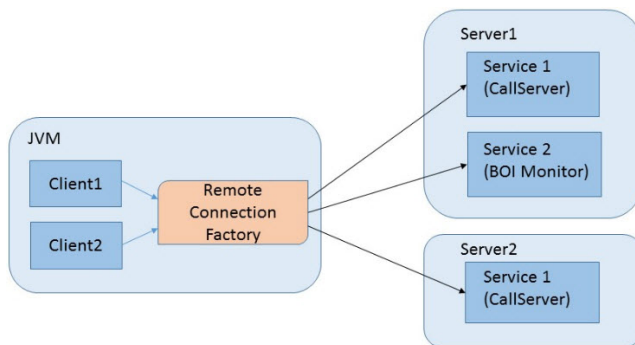
The TABEX4 JAVA ACCESS products offer a Java interface, the so-called Remote Connection Factory, providing fault tolerance as well as load balancing.

Field of application

The Remote Connection Factory can be used for Java-based read accesses to table data.

Precondition for usage

On all servers and in all services identical table data must be available. This can be guaranteed, e.g., by data replication.



Fault tolerance

On each server, multiple services may run (TABEX Call Server or TABEX Monitor). An error automatically leads to an automatic switch to an alternate service resp. an alternate server (e.g. from Server1/Service2 to Server2/Service1). After a configured interval, services will automatically switch back to the primary server/service. There is no need to modify the application.

Load Balancing

The accesses are distributed on several sequential Call Servers (e.g. Server1/Service1 and Server1 / Service2). This results in higher capacity. The distribution of the accesses to several hosts (e.g. Server1/ Service2, Server2/Service1) decreases the load per server.

Connection Pooling

The number of connections (slots) to the servers and services is defined and limited. Slots may be shared by multiple applications. The usage of the slots is synchronized internally and thus thread-safe.

