

tcVISION for Adabas - The right data in the right place at the right time.

The Challenge

In the digital age BigData and Analytics are widely being talked about. The efficient integration of mainframe data has multiple reasons: BigData, workload relief of the mainframe to reduce costs, application modernization together with data and application migrations without a "Big Bang". Declining mainframe knowhow, databases and their complexities grown over decades - these are big challenges when it comes to data exchange in a mainframe environment.

Many corporations used FTP or other file transfer solutions to resolve the data exchange problem. This is extremely CPU intensive, insecure and creates high costs for the distribution of mass data. Nowadays these solutions are neither acceptable nor practicable anymore. Not only because of the costs, but also because of limited batch windows.

The Solution

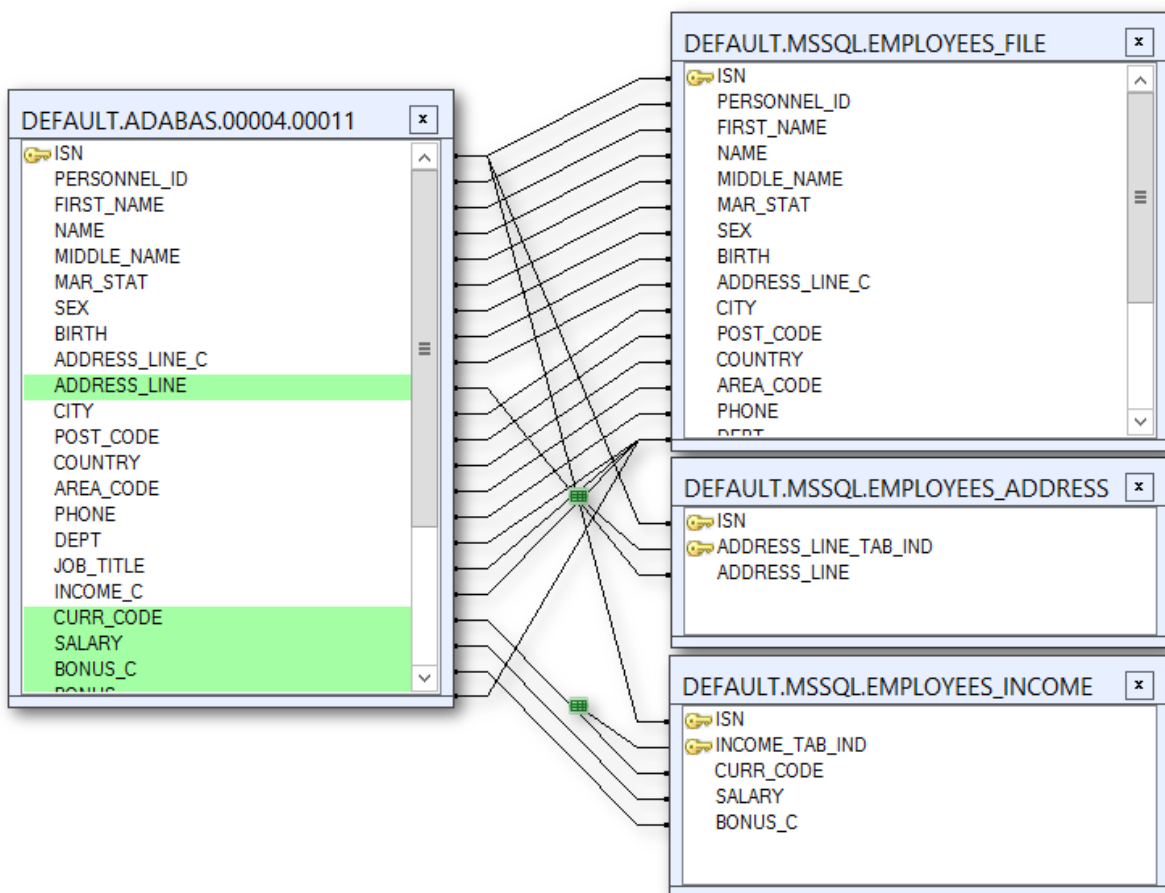
There is a better solution to manage and master this complex and ambitious task in an easy, fast, reliable and efficient way: tcVISION for the timely, bidirectional data synchronization and replication based on changed data. tcVISION turns the data exchange into a single-step operation. No middleware or message queueing is required. The data is exchanged in raw format, compressed and reduced to the processing of changed data.

Benefits

- The focus is on changed data (Changed Data Capture), so the data transfer volume is reduced to a minimum.
- Highest topicality through continuous real-time processing
- Cost reduction through relocation of data exchange processes from the mainframe to cost efficient platforms (e.g. UNIX)
- Cost reduction through compressed data transfers
- High integration potential of the tcVISION solution: Multiple Change Data Capture technologies can be used depending on change frequencies and latency times
- Intuitive data mapping offers comprehensive functions for data type conversions and data manipulations up to a complete change of the data model.
- Prevention of mainframe costs: An integrated data repository creates transparency for all available data
- No additional middleware required – elimination of costs and implementation efforts – efficient transport layer
- Elimination of programming efforts for data transfers
- Comprehensive conversion of historically developed mainframe data structures
- Integrated pooling/streaming processes avoid programming efforts and message queueing to prevent data loss because of unavailability of the target system or delays
- Processes which have proven to work in practice are available to restart a replication after system failures (database errors, transmission errors, etc.)

Application Examples

- ✓ Synchronization of data in a heterogeneous system environment consisting of a mainframe and distributed systems
- ✓ Gradual migration of data and applications in heterogeneous system environments
- ✓ Mainframe relief: Transfer of mainframe data to distributed systems or to Hadoop Data Lakes
- ✓ ETL of mainframe data for Data Warehousing, Business Intelligence, Analytics & BigData



Intuitive mapping offers comprehensive possibilities for data modeling and a variety of integrated functions for the transformation of data types between Adabas and external databases. The support of Adabas multiple fields and periodic groups is no problem for tcVISION– even for a bidirectional synchronization.

tcVISION for Adabas - Facts

- ✓ Available for Adabas z/OS and z/VSE, Windows, UNIX, Linux (Intel und Linux on z)
- ✓ Near real-time processing of the active or archived PLOG files to capture the changed data
- ✓ Real-time Change Data Capture processing on the mainframe in addition to the PLOG processing
- ✓ Support of all Change Data Capture methods:
 - DBMS Extension,
 - Log processing,
 - Batch compare,
 - Loads
- ✓ Flexible support of Adabas Periodic Groups and Multiple Fields
- ✓ Predict support for the creation of the repository metadata
- ✓ Comprehensive mapping functions for the creation of structure information for all data
- ✓ Central, relational repository for storage of the metadata, linkage and processing rules
- ✓ No additional middleware required
- ✓ No message queueing required
- ✓ Compressed and efficient data transfer
- ✓ Restart/recovery guaranteed after system failures
- ✓ Support of DBMS backup formats (image copies, unload, log files) for efficient exchange of bulk data without the necessity of accessing production data.
- ✓ Support of unidirectional, bidirectional and 1:1, 1:n, n:1 and n:n replications
- ✓ Mainframe Change Data Capture processing consumes a minimal amount of CPU time on the mainframe.
- ✓ Convenient single-step-operations; Capturing of change data – transformation of data – application to target systems
- ✓ Integrated workload balancing to shift tasks like processing and conversion to more cost-effective systems (e.g. from mainframe to UNIX/Linux).
- ✓ Parallelization of load processes in order to realize real low latency synchronization solutions
- ✓ Integrated features for direct application of data into target systems
- ✓ Powerful load functions to transfer and apply bulk data
- ✓ Integrated pooling and streaming processes prevent data loss if the target cannot receive data or receives slower than the source is sending.
- ✓ Integrated loopback prevention for bidirectional data exchange
- ✓ Built-in key management for non indexed data
- ✓ Extensive monitoring, logging and integrated alert notification