



tcVISION

Release Note
Version 5

Last Review: 2011-10-13

1. Targets

In addition to the SQL based output targets Version 5 now directly supports targets on the mainframe. The following table gives an overview of all supported source- and target-systems.:

Name	Bulk transfer	(Near-) Realtime	Log-file processing	Batch-Compare
VSAM FCT	✓	✓	✓ ¹	✓
VSAM Batch	✓	✓	✓ ²	✓
DATAKOM/DB	✓	✓	✓	✓
IDMS/DB	✓	✓	✓	✓
IDMS/Batch	✓	✓		
DB/2 for VSE	✓	✓	✓	✓
DB/2 for VM	✓	✓	✓	✓
DB/2 for z/OS	✓	✓	✓	✓
DB/2 LUW	✓	✓	✓	✓
Oracle ³	✓	✓	✓	✓
MS-SQL Server ⁴	✓	✓	✓	✓
ADABAS	✓	✓	✓	✓
IMS/DB	✓	✓	✓	✓
DL/I	✓	✓	✓	✓



Name	TCP/IP direct	Loader	Direct	ODBC
MS-ACCESS				✓
File output	direct			
MS-SQL		✓	✓	✓
DB/2 for VSE	✓	✓	✓	✓
DB/2 for VM	✓	✓		✓
DB/2 for z/OS	✓	✓	✓	✓
DB/2 LUW	✓	✓		✓
Oracle		✓	✓	✓
mySQL				✓
ODBC in general				✓
Websphere MQ			✓	
VSAM			✓ ⁵	
DATAKOM/DB			✓	
DL/I			✓	
IMS/DB			✓ ⁶	
IDMS/DB			✓	
ADABAS			✓	

1 only MVS, OS/390, z/OS

2 only VSE, z/VSE

3 MS-Windows, Linux and UNIX

4 for SQL Server as of 2005; available 4th quarter 2011

5 VSAM direct write from tcVISION region/partition or via CICS TCP/IP listener, this is also possible from a workstation server

6 external job (BMP) or via DBCTL

2. Support of key values for Bulk/Batch-Compare

Bulk- and Batch-Compare operations for non-SQL data sources can be limited using start- and/or end-key values. This allows parallel processing for these operations. Bulk operations now support record skip counters and end counters.

3. IPv6

tcVISION Version 5 fully supports Internet Protocol Version 6 (IPv6) (also called Internet Protocol next Generation, IpnG).

3. Data stream compression

Data sent from a sending script to a receiving script via a TCP/IP connection can be compressed. Data that is saved to files in the internal format can be compressed. This allows for the optimum utilization of the connection bandwidth and disk space.

4. Data processing

In addition to ORACLE Version 5 now supports target arrays of bound parameter for ODBC and DRDA targets. This feature improves performance for Bulk operations where data is directly applied or for real-time replications with widely consistent change patterns.

A new replication method has been introduced: the Journal replication. During this replication the target table contains a kind of protocol for all changes applied against the source table. This information can be used to feed Data-Warehouse Systems.

Extended statistical values can be collected during the replication processing:

- (a) processed operations for source- and target tables and
- (b) transactions processed to the replication targets

When the script ends the statistics are sent to the local Manager. The statistics can also be displayed for a currently executing script.

The list of available processing functions for the replication has been enhanced by a significant number of new functions.

If multiple replications are performed to different targets the script can select special targets, hence non-standard targets can be supported without affecting the existing processing.

Processing rules can be specified to assure that UPDATES will set all know fields to the target value with out a check for the before image value. This

results in changes that have been applied in the meantime at the target are overwritten, hence the synchronization is guaranteed.

Generic file specifications are now supported for the processing. It is possible to create multiple files in a directory and *have one script processing* these files. Required set-up times, i.e. to connect to a database are reduced to a minimum, hence resulting in performance improvements and better utilization of available resources.

The creation of info file entries has been uncoupled from the corresponding action. example: the correction of invalid field contents can be performed without the creation of an entry to the info file.

Two different directories based upon the processing state can be specified for the processing of input files, hence files that have been processed with errors can be saved to a separate directory.

Support for environment variables as part of filenames has been included.

5. Manager

For scripts running on the mainframe it can be specified that the script runs as an external job (i.e. DL/I direct access, VSAM direct access). To activate this setting a JCL-skeleton is specified. Processing parameter are automatically inserted into this skeleton.

Log files are automatically closed when the size of the files reach a predefined value⁷. The files are saved in a time-stamped and compressed format.

6. Control Board

The new script wizard supports a simplified display of parameters where only the parameters are displayed that are relevant to the current processing. It is possible to switch to an 'expert' mode that allows access to all parameter categories. If a parameter has been changed and does not contains its default value any more it is displayed in the simplified view.

Compression dictionaries for DB2 replications that are no longer used can now be removed, hence resulting in less space occupied by the Repository.

The Repository editor now supports the new output targets and allows the import of existing structures for output processing.

⁷ Standard: 100MB