



tcVISION

Crédit Agricole

(POC description)

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## 1 General

The Proof of Concept should implement the general functionality of tcVISION. The criteria for the installation are defined as *setup a successful, repeatable, automated replication process with documented results from CA DATACOM in z/OS to a corresponding DB2 system on an AIX Server*. The transfer should be showed for about two tables.

## 2 Environment

tcVISION S390 Manager:	z/OS V1R10 or beyond
tcVISION Source Databases:	CA DATACOM version 11 (Service Pack 4)
tcVISION Server Manager:	AIX Server (64-bit)
tcVISION Target Database :	DB2 Version 9.5.x – 10.x
tcVISION Controlboard:	Windows XP, Vista or Windows 7/8

### 3 General

tcVISION can synchronize DATACOM changes made in CICS or Batch in real-time via the DBMS extension. To keep the impact on the mainframe as low as possible tcVISION can use SPILL files to capture the changes to the DATACOM database. SPILL files can be read from tape or file, even binary transferred to the AIX server for processing. This processing can be automated.

The initial load can be made by

- reading a DATACOM backup (physical or native) of a whole Area (even binary transferred to the server) to initial load a bunch of tables, or
- access DATACOM directly to read the tables.

## 4 tcVISION Manager installation

### 4.1 tcVISION S390 Manager in z/OS

The tcVISION S390 manager will

- collect the source data from DATACOM,
- control the running transfer-scripts,
- start jobs for reading DATACOM databases or backups for the initial load.

#### 4.1.1 tcVISION S390 Manager installation requirements

The tcVISION S390 Manager z/OS needs its own region with at least 20 MB of memory.

The tcVISION modules, job samples and macros need three libraries. For maintenance a VSAM RRDS file will be created. All jobs are available from the installation library.

The tcVISION manager needs access to all needed resources on the mainframe.

In case of *Real-Time transfer* should be at least

- 20 MB system-GETVIS and
- 50 MB dataspace

available.

More detailed installation instructions can be found in the manual '*tcV5HostInstallation\_en.pdf*'.

### 4.2 tcVISION Server Manager

The tcVISION on the AIX Server server will receive the changed data from z/OS and apply to the target system. A standard installations procedure will install the components to the server. The installation requires 20 MB disk space. *If data are stored and buffered on the server, more disk space may be needed.*

The tcVISION manager will be installed at the database server in this case. However, this is not mandatory. The communication from tcVISION to the database (DB2) is made via TCP/IP (DRDA protocol). Binding a plan is necessary at the target DB2.

For the installation in AIX the following software packages are needed:

- unixODBC
- glibc3 runtime

There is no need to install a DB2 client software, if the tcVISION manager resides on another system than the database.

A repository for holding the metadata must be created at the target DB2. For the repository a table space with 32K page size is required. More detailed installation instructions about the creation of the tcVISION repository can be found in the manual '*tcV5Repository\_en.pdf*'.

## 5 TCP/IP

The tcVISION components must be able to connect to each other. Connections must be possible:

- from z/OS manager and scripts to the server
- from server manager and scripts to the mainframe
- from Windows Control Board to the server tcVISION is running on and to the mainframe

All tcVISION components must be able to connect to each other in both directions. To ensure the connectivity at least *five* ports must be available. The number of ports to reserve depends on the number of parallel tasks desired to run in tcVISION.

Please refer to the *connection plan* in Appendix A: Connections overview on page 6.

## 6 tcVISION Control Board

The tcVISION Control Board will be used to monitor, administer and control the different tcVISION manager and replication processes.

The tcVISION Control Board is to be installed on a windows machine running at least Windows XP. For the installation a directory with free space of 40 MB is required. All writing operations will be placed beneath the *users* directory.

The tcVISION Control Board is not necessary for the transfer itself. It will be used for defining and visually monitoring the transfer process, only.

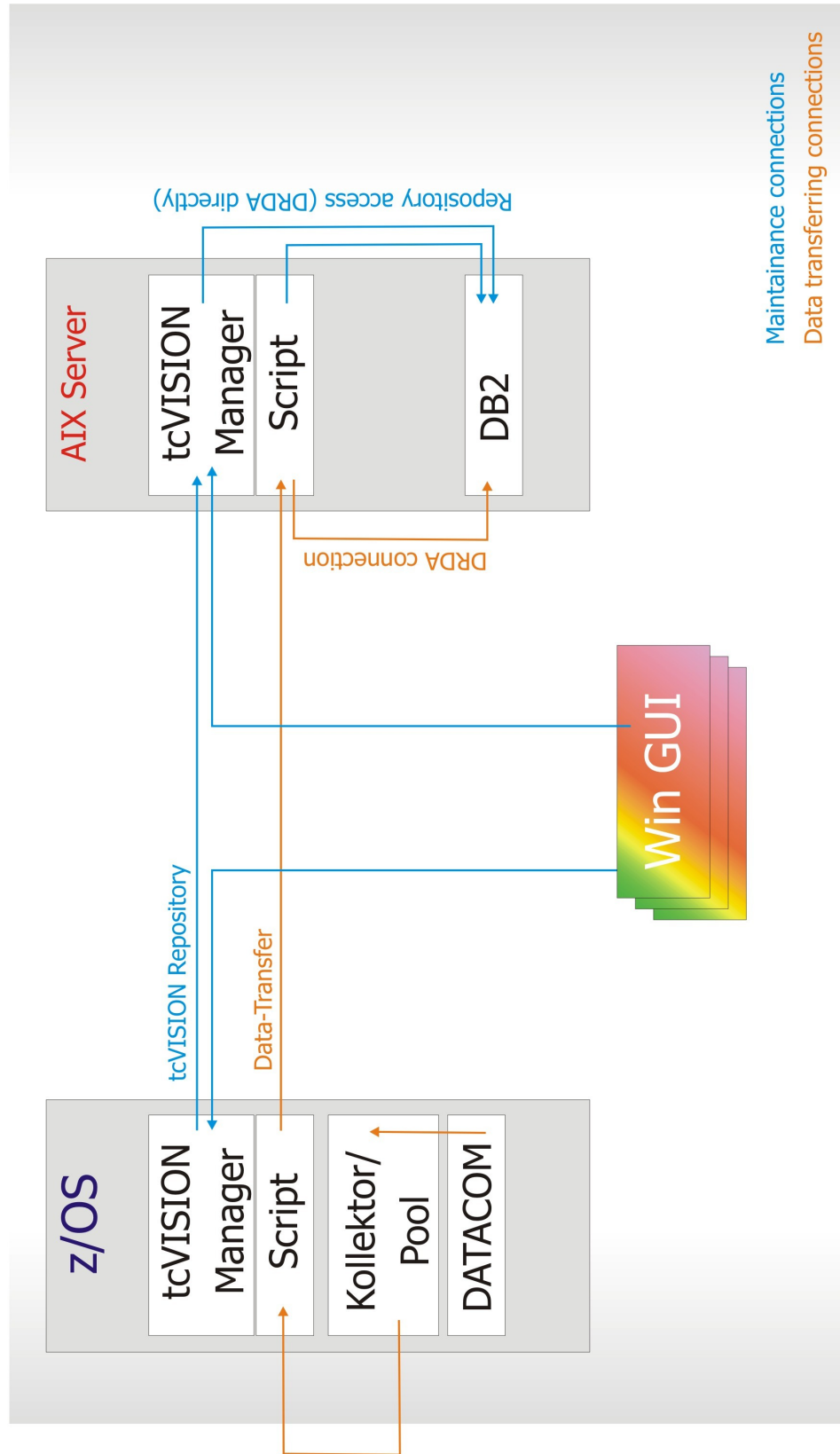
The tcVISION Control Board can be installed on the same server as the database resides. However, this is not mandatory.

## 7 Staff

For the installation we recommend that the following people are available:

- z/OS System administrator
- DATACOM-administrator
- staff who's familiar with the data structure and content of the databases and files
- DB-administrator DB2 on AIX Server
- MS-Windows System administrator
- Network administrator

## 8 Appendix A: Connections overview



## 9 Appendix B: Staging concept of tcVISION

