tcVISION

CA IDMS

(Installation)

11/07/13

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 IDMS in z/OS to a corresponding database system on **Open Server**.* The transfer should be showed for about ? tables.

2 Environment

tcVISION S390 Manager:	z/OS V1R??
tcVISION Source Databases:	CA IDMS R 17.5
tcVISION Server Manager:	Windows / LINUX / UNIX
tcVISION Target Database :	Open Server
tcVISION Controlboard:	Windows XP, Vista or Windows 7/8, Windows Server 2003-2012

3 General

tcVISION can synchronize CA IDMS changes in real-time via the DBMS extension. This processing can be automated.

The initial load can be made by accessing CA IDMS directly to read the tables.

tcVISION can process CA IDMS Journal data for log based replication processing.

SR2/SR3 record management is part of the product.

4 tcVISION Manager installation

4.1 tcVISION S390 Manager in z/OS

The tcVISION S390 manager will

- collect the source data from CA IDMS,
- control the running transfer-scripts,
- start jobs for reading CA IDMS databases 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

- 50 MB ECSA subpool 241 and
- 500 MB dataspace

available.

tcVISION ships the CA IDMS Journal exit for the Real-Time transfer. This needs to be included in the CA IDMS CV with the following re-link job:

```
//GENIDMSX JOB  ,'GEN IDMS EXT',CLASS=A,MSGLEVEL=(1,1),MSGCLASS=A
//*
//*************************************************************
//*      GENERATE TCVISION IDMS DBMS-EXTENSION                *
//*************************************************************
//*
//LINK     EXEC PGM=IEWL,REGION=2M,
//       PARM='LIST,LET,XREF,AMODE=31,RMODE=24'
//IDMSLIB  DD DISP=SHR,DSN=idms.loadlib
//SYSLMOD  DD DISP=SHR,DSN=tcVISION.loadlib
//EXITLIB  DD DISP=SHR,DSN=tcVISION.loadlib
//SYSUT1   DD  UNIT=SYSDA,DCB=BLKSIZE=1024,
//             SPACE=(1024,(200,20))
//SYSPRINT DD  SYSOUT=*
//SYSLIN   DD  *
  INCLUDE IDMSLIB(IDMSDBIO)
  INCLUDE EXITLIB(TVSIDMSEn) ← n is the IDMS version identifier
  ENTRY #EPMAP
  NAME IDMSDBIO(R)
//
```

More detailed installation instructions can be found in the manuals '*tcV5HostInstallation_en.pdf*' and 'tcV5HostDBMSExtensions_en.pdf'.

4.2 tcVISION Server Manager

The tcVISION on a Windows / LINUX / UNIX 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. *Data will be stored and buffered on the server. The necessary amount of disk space increases by the amount of data to be hold.*

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 is made via TCP/IP.

For the installation in LINUX / UNIX the following software packages are needed:

- unixODBC
- glibc3 runtime
- openSSL (optional)
- Oracle client (when accessing Oracle for the repository)

A repository for holding the metadata must be created in any RDBMS Database. For the repository a table space and a system temporary tablespace 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 7.

6 tcVISION Control Board

The tcVISION Control Board will be used to monitor, maintain 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 Repository

The tcVISION Repository consists of tables that are part of a database. These tables may be part of the target database or can be stored in a separate database.

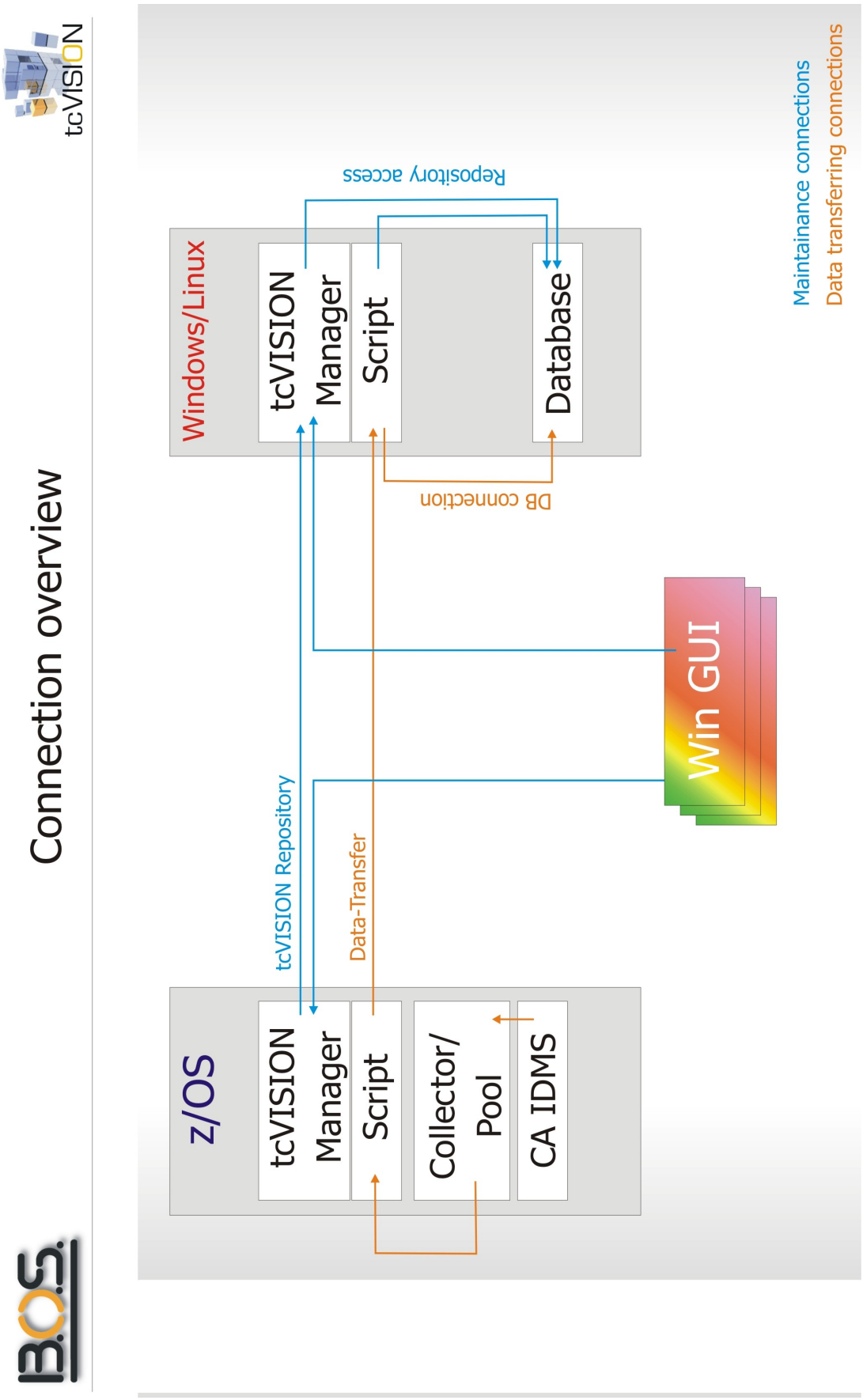
The DDL for the table creation is shipped with tcVISION. It can be done as part of the on-site workshop.

8 Staff

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

- z/OS System administrator
- CA IDMS DB administrator
- staff who’s familiar with the data structure and content of the databases and files
- Database administrator for Open Server
- MS-Windows or UNIX/LINUX System administrator
- Network administrator

9 Appendix A: Connections overview



10 Appendix B: Staging concept of tcVISION