



Joint Board of the Electrical Industry

(installation description)

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aMod
"The Application Modernization Company"

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1 General

The installation 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 DL/I and VSAM in VSE to a corresponding DB2 system on a Linux on system/z Server and vice versa.*

2 Environment

tcVISION S390 Manager:	z/VSE V3R1 or beyond
tcVISION Source Databases:	DL/I version 11 and 12
tcVISION Server Manager:	z/Linux Server (64-bit)
tcVISION Target Database :	DB2 Version 9.5.x – 9.7.x
tcVISION Controlboard:	Windows XP, Vista or Windows 7

3 tcVISION Manager installation

3.1 tcVISION S390 Manager in VSE

The tcVISION S390 manager will

- collect the source data from DL/I and VSAM,
- start jobs for reading DL/I and VSAM databases for the initial load.

Afterwards it will transfer the changed data to the server.

The bulk transfer can be made via

- reading a complete DL/I database (unqualified) or
- reading a VSAM file.

3.1.1 tcVISION S390 Manager installation requirements

The tcVISION S390 Manager VSE needs its own partition with at least 20 MB of memory.

The tcVISION modules, job samples and macros need a library. For maintainance 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. This includes a DL/I ACT entry and the modules defined to CICS.

Priorities has to be set correctly: POWER, VTAM, TCP/IP, *tcVISION*, CICS & Batch, others.

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*'.

3.2 tcVISION Server Manager

The tcVISION on the z/Linux Server server will receive the changed data from VSE 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 z/Linux the following software packages are needed:

- unixODBC
- OpenSSL
- glibc3

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*'.

4 TCP/IP

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

- from VSE 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.

For the connectivity from VSE to z/Linux *hypersockets* can be used. It is mandatory to have a TCP/IP stack in VSE.

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

5 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 in 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.

6 Staff

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

- VSE System administrator
- DL/I-administrator
- staff whos familiar with the data structure and content of the databases and files¹
- DB-administrator DB2 on z/Linux Server
- MS-Windows System administrator
- Network administrator

¹ This is recommended for knowing some about record types, segment relations and PSBs used for access.
tcVISION must know about PSBs accessing DL/I using alternate indexes.

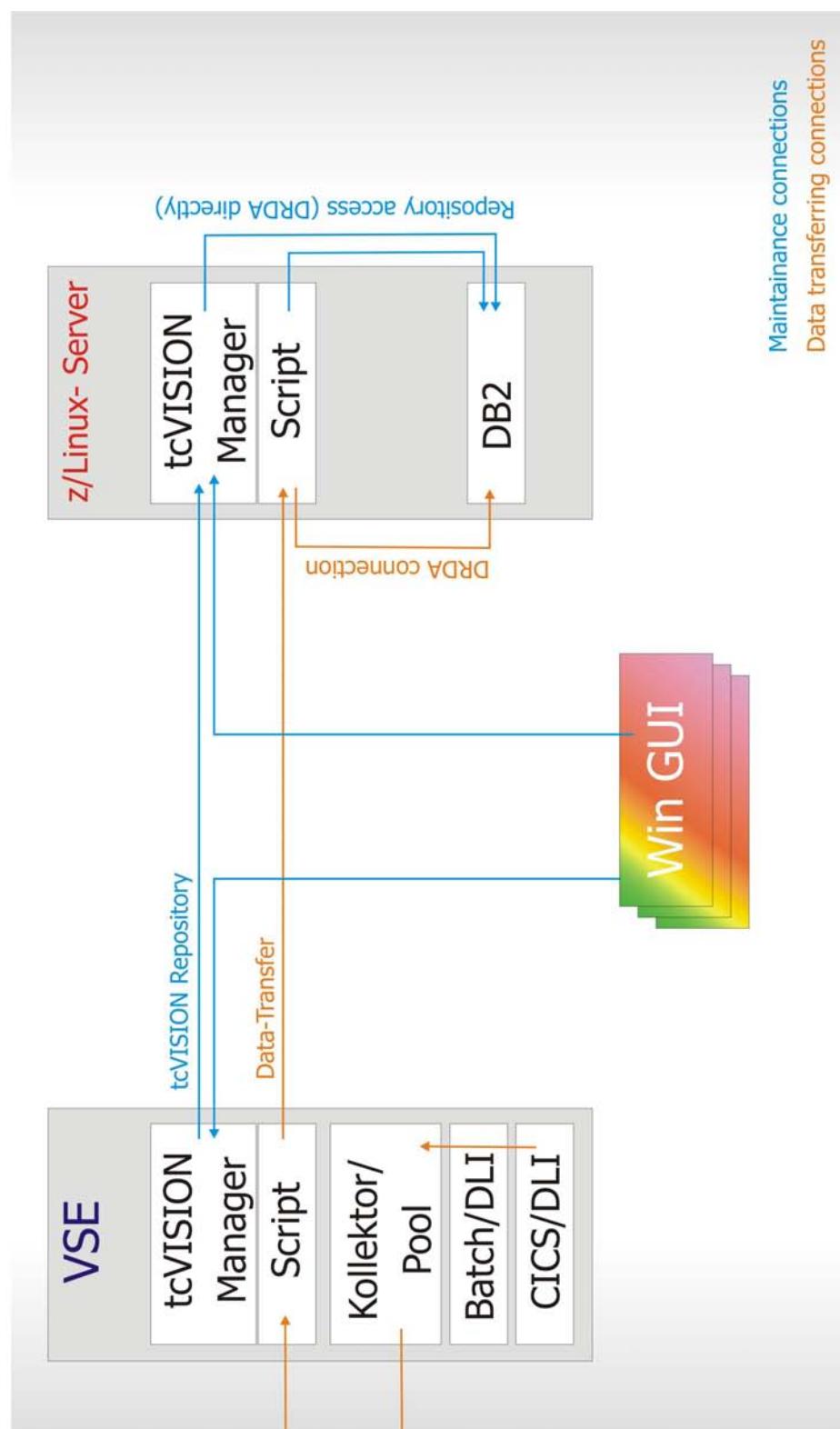
) Appendix A: Connections overview

B.O.S.

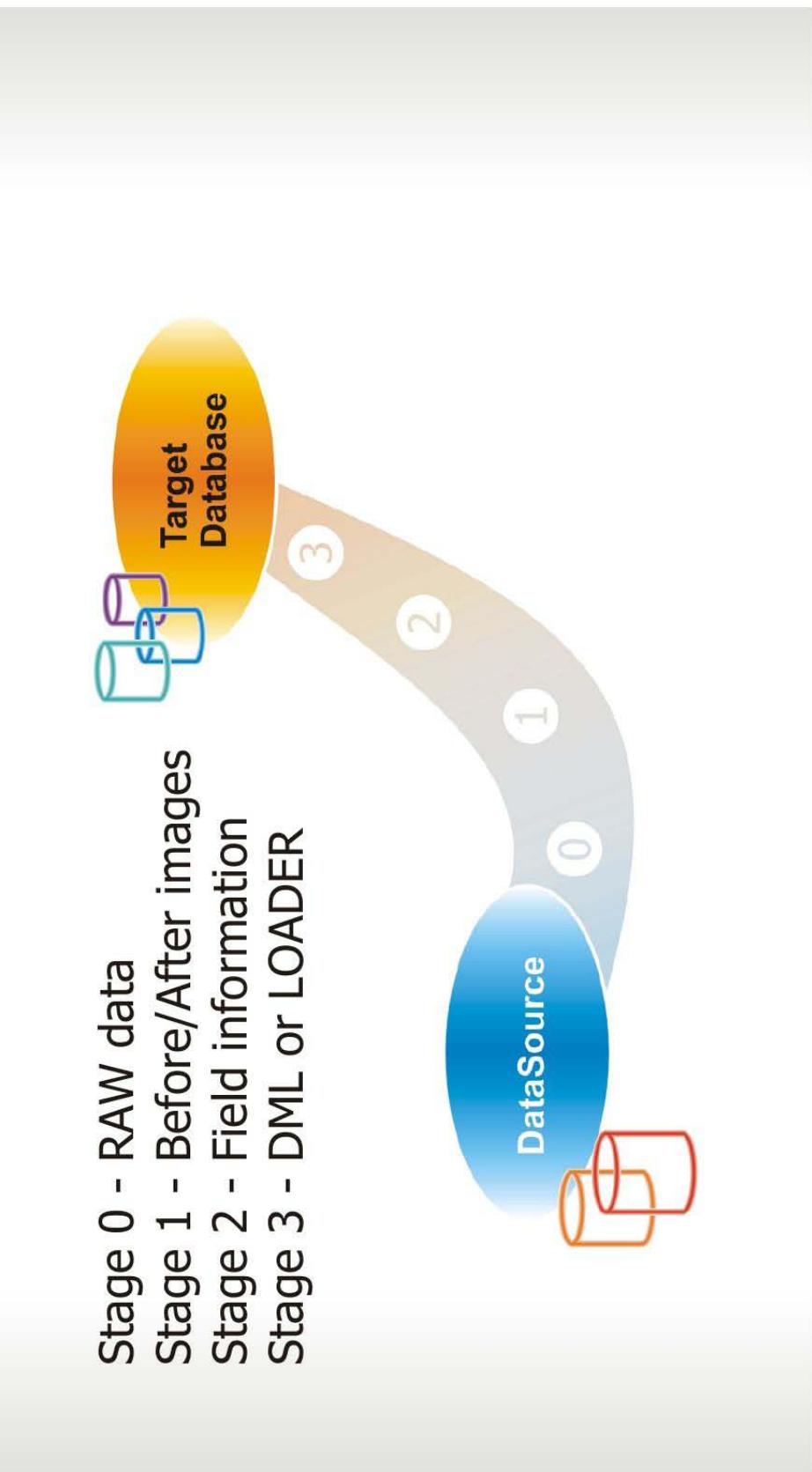
Connection overview JIB

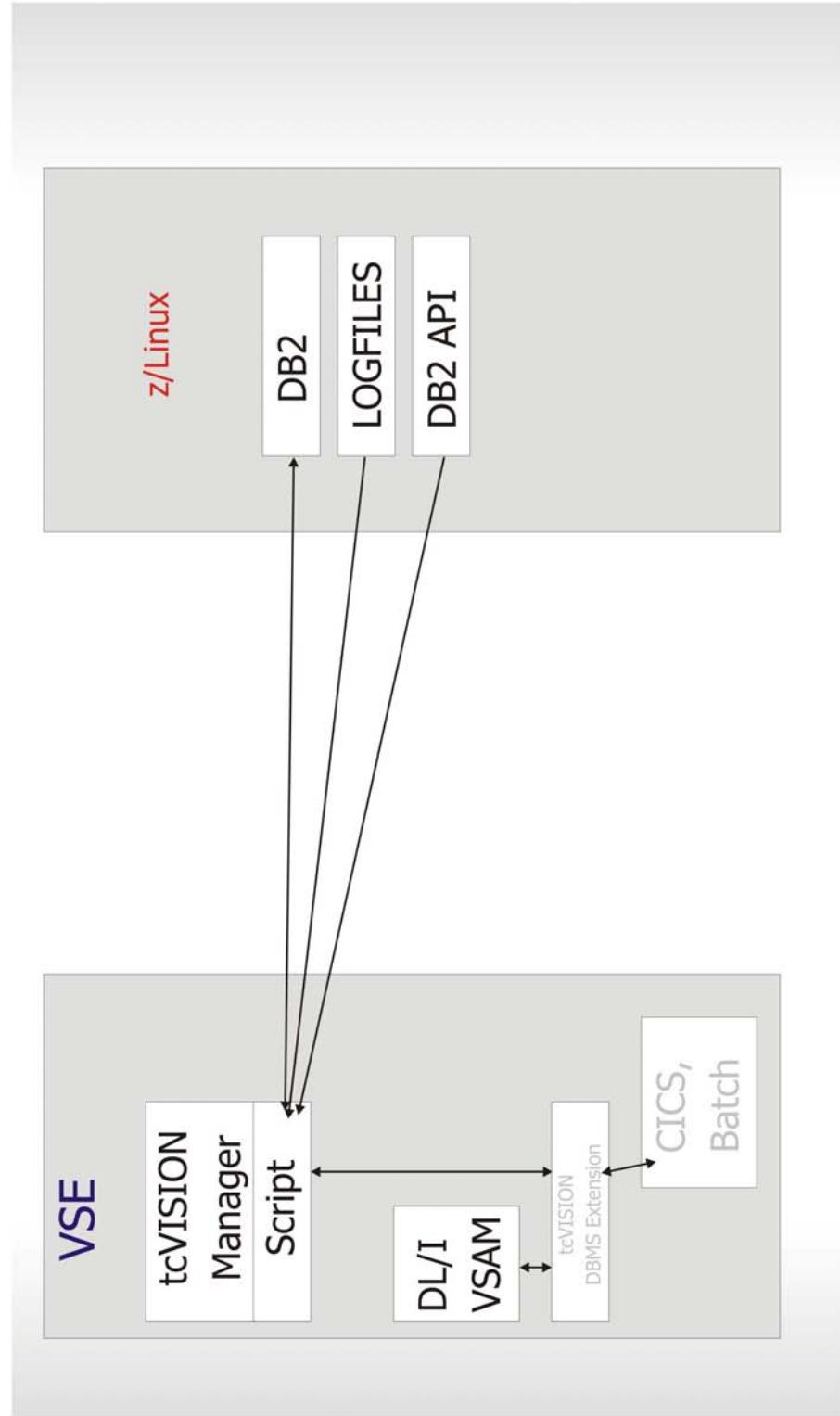


tcVISION



/ Appendix B: Staging concept of tcVISION





10 Appendix D: OCCURS processing



tcVISION OCCURS processing

