B.O.S. Software
Service und
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tcVISION

Nissan Automobile Company

POC Description
VOS3 Compatibility Check

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1 Replication Scenario

The Proof of Concept should implement the general functionality of tcVISION. The criteria for the installation are defined as *setup of a successful, repeatable, automated replication process with documented results from ADABAS in VOS3 to a corresponding MongoDB Database.*

2 Environment

tcVISION Mainframe Agent:	VOS3
tcVISION Source Databases:	ADABAS Version ?
tcVISION Server Agent:	Windows
tcVISION Target Database:	MongoDB
tcVISION Design Studio:	Windows 7/8/10

3 General

tcVISION can synchronize ADABAS changes made online or via batch in real-time via the ADABAS PLOG file. To keep the impact on the mainframe as low as possible tcVISION sends the changes directly to the server. The whole processing for initial load and real-time capturing can be automated.

4 tcVISION Agent Installation

4.1 tcVISION Agent in VOS3

The tcVISION Agent will

- collect the changed data from ADABAS via the ADABAS Plog
- control the running transfer scripts

A detailed description of the mainframe installation under OS/390 or z/OS can be found in chapter 2 of the enclosed manual "tcVISION Host Installation and Administration".

4.1.1 tcVISION Agent Installation Requirements

The tcVISION Agent VOS3 needs its own region.

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

The tcVISION Agent requires access to all needed resources on the mainframe.

4.2 tcVISION Server Agent

The tcVISION on the server will receive the changed data from VOS3 and apply the data to the target system(s). A standard installations procedure will install the components to the server. The installation requires 20 MB disk space. *If data is stored and buffered on the server, more disk space might be needed.*

The tcVISION Agent can be installed at the database server. However, this is not mandatory. The communication from tcVISION to the databases is established as follows:

- MongoDB via the MongoDB Client driver

For testing the VOS3 compatibility we recommend a Windows installation. Access to MongoDB is not required for the test.

tcVISION runs on the following operating systems:

- Linux 32- and 64-bit
- Linux on System/z
- IBM AIX 5L and later; IBM PowerPCs
- sun Solaris 9 and later
- MS Windows 32-bit and 64-bit

The tcVISION Repository can either reside on the server with the target database or on any other server of choice outside the MOI.

5 TCP/IP

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

- from VOS3 Agent and scripts to the server
- from server Agent and scripts to the mainframe
- from Windows Design Studio to the server on which tcVISION is running and to the mainframe

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

6 tcVISION Design Studio

The tcVISION Design Studio will be used to monitor, administer, and control the different tcVISION agent and replication processes.

The tcVISION Design Studio is to be installed on a Windows machine running at least Windows 7. For the installation a directory with free space of 40 MB is required. All writing operations will be placed into the *users* directory.

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

7 tcVISION Repository

The tcVISION Repository is the source for meta information about input and output objects. All replications performed by tcVISION must be based on the 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. All Agents in a tcVISION network access the same database. If it is not possible for an Agent to directly access the database, the Repository access can be redirected to another Agent in the network with direct access. This also applies to scripts.

Currently, support is provided for the mainframe, MS-Windows, UNIX, and Linux platforms on which the tcVISION Agent can run. When choosing the database that should be used for the tcVISION Repository, the main focus should be on platforms on which the DML statements reside.

A small PostgreSQL database is sufficient for this installation.

8 Staff

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

- VOS3 system administrator
- ADABAS administrator
- Staff who is familiar with the data structure and content of the databases and files
- Network administrator
- Windows administrator

9 Appendix A: Connections Overview