







We are currently using Connectors to Bulk Load data from Mapped VSAM files directly to Microsoft SQL Server.

Allow easy access to Mainframe Data with Internet Web Servers.

We are also accessing this data with Report Generating Programs such as Crystal Reports. This allows report customization that can be outputted in several formats, such as PDF, MS Excel and others.

Another School district (Alachua County Schools in Fla) offloads SAS reporting from their tServer mainframe (a very CPU intensive process) to PC Servers accessing MS SQL; significantly reducing CPU usage and providing a much better presentation for the analyzed data. They also track students in a much easier way than via VSAM programs.

We have tested the Redirector Server to keep VSAM and MS SQL in sync, but are currently not using it because of our SQL server performance and because filters (available in batch) have not been made available for the Redirector Server yet (scheduled for availability sometime after WAVV.) <sup>5</sup>







## Comparison of Redirector vs Batch Load of Data

Although both the Batch Load (using JDATAMIG or RunLoader) AND loading via the Redirector will allow you to initially load data to the MS SQL server, using the batch process for the initial load is much faster and more efficient. If the Redirector is then desired, you can "pick up" with bullet 5 on the previous foil.



















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You will need to customize a .CFG file for each dataset you are going to download. If you wish to be able to download a dataset in more that 1 format you will need additional .CFG files for that dataset.

Plan H

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There are 2 parts to running the JDataMigr a

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.CFG file that holds the VSAM Mapping information as well as the format of the downloaded data.

.CMD file that is executed to actually download the data to the Desktop.

JDa	taMigr must first be set up with t and which Map you are going	the type of output you to use on the VSE side.
# action-co # 1 = VSA # 2 = VSA	nflig M -> Database (DB/2, Oracle or MS SQL Server) M -> CSV-File	The Action-Config portion is used to specify what data format you are using.
# 3 = VSA $# 4 = VSA$ action=1	M -> Plantext-Block-File M -> XML	In this case 1 -> MS SQL Server
<pre># vse-conf vse.host=1 vse.user=c vse.pwd=j # Database # Driver tt # 1 = DB2 # 2 = DP2</pre>	ig5 0.40.139.182 onn vva vconfig use: App-Driver; needed is db, user, pwd	Before you can load data to a MS SQL Table with JDataMigr make sure that you have build the tables on the MS Server. IBM provides a facility to do this for you from the MAPS that you have generated.
# 2 = DB2 # 3 = Orac # 4 = Orac # 5 = MS 9 db.driver= db.databas db.user=sa db.pwd=ni db.host=ni db.host=ni	Net-Inver; needed is host, port, db, user & pwd le Thin Driver; ; needed is db, user & pwd QU Server Driver; ; needed is host, port, db, user & pwd 5 e-vsamtest icsx ics42730b 33	You will need to update the Database information in the CFG file. This is done in the #Database-config area.
db.table=T	SDSC	46

JDataMigr must first be set up with the type of output you want and which Map you are going to use on the VSE side.

# action-config # 1 = VSAM -> Database (DB/2, Oracle or MS SQL Server) # 2 = VSAM -> CSV-File # 3 = VSAM -> Plaintext-Block-File # 4 = VSAM -> XML action=2

# vse-config5 vse.host=10.40.139.182 vse.user=conn vse.pwd=java The Action-Config portion is used to specify what data format you are using.

SPLAN N

In this case 2 -> CSV.

The VSE-Config5 portion is used to specify what VSE machine you are connecting to and what USERID and PASSWORD you are using. 47

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The last

## The last area that we look at is the Map name and VSAM information.



WAR W









- A. You can use Redirector Server to load each record in the SQL Table as it is loaded to the VSAM Data. This will allow you to have current data on the SQL Server.
- B. You can use Redirector to "Batch Load" the VSAM Data into SQL, this will allow you to update SQL Databases on a scheduled basis. You can also use filters to select only certain records from the VSAM file.

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-	and the second to have	
The second	To load the VSAM data using Redirector Server Batch facility.	The second
Think	After you setup the configuration file for the "RunLoader" facility you are ready to download data from VSAM to the SQL Server.	aller -
Inh	C:\vsamredir>runloader redirloader.ofg C:\vsamredir>set vsecon=c:\vsecon C:\vsamredir>set classpath=.;VsamRedir.jar;msutil.jar;mssqlserver.jar;msbase.j ;c:\vsecon\VSEConnector.jar;c:\vsecon\cd.jar;c:\vsecon\ibmjsse.jar;c:\vsecon\ mpkcs.jar;c:\program files\Microsoft SQL Server 2000 Driver for JDBC\lib\msstas jar;c:\program files\Microsoft SQL Server 2000 Driver for JDBC\lib\mssqlserver.jar; \program files\Microsoft SQL Server 2000 Driver for JDBC\lib\mssqlserver.jar;c	W
	Vsamredir/samredir)ard com.ibm.vse.redirloader.RedirLoader redirloader.cfg Mar 8, 2005 3:25:00 PM	-
-	Mar 8, 2005 3:25:01 PM - TRACE = no Mar 8, 2005 3:25:01 PM - VSEUSER = conn Mar 8, 2005 3:25:01 PM - VSEPASSWORD = ???? Mar 8, 2005 3:25:01 PM - VSAMCATALOG = test.y2000.CATALOG.one Mar 8, 2005 3:25:01 PM - VSAMCLUSTER = tsdsc Mar 8, 2005 3:25:01 PM - DBHANDLER = com.ibm.vse.db2handler.DB2Handler	1
	<pre>Mar 8, 2005 3:25:01 PM - DBOPTIONS = dburl=jdbc:microsoft:sqlserver://nric-8r2 Ob:1433;databasename=vsamtest;dbuesr=sa;dbpassword=nricxx;maptable=tsdscmap;ma tsdsc;dbtable=tsdsc;allowreuse=yes;comitput=1000 Mar 8, 2005 3:25:01 PM</pre>	?
10	57	-

100	Card and the second sec	
The Child	After you have run the "RunLoader" command to load the Database with the VSAM Data, you will be given a some statistical information that will allow you to customize the parameters in the CFG file to optimize the download for	N.S.
3	your equipment.	1
6		
2	Mar 8, 2005 3:31:43 PM - Using 1 insert thread(s).	-
1	Mar 8, 2005 3:31:43 PM	1
87	Mar 8, 2005 3:31:43 PM - Starting load process	100
12	Mar 8, 2005 3:32:14 PM - **********************************	2.0
7	Mar 8, 2005 3:32:14 PM - *** VSEConnector transfer finished ***	
	Mar 8, 2005 3:32:14 PM - **********************************	B
	Mar 8, 2005 3:36:40 PM - **********************************	
1	Mar 8, 2005 3:36:40 PM - *** InserterThread 1 finished ***	1. 2
10	Mar 8, 2005 3:36:40 PM - **********************************	
24	Mar 8, 2005 3:36:40 PM	1.00
	Mar 6, 2005 3:36:40 PM - Load process finished.	100
	Mar 8, 2005 3:36:41 PM - Duplicate records: 0	1.1
1	Mar 8, 2005 3:36:41 PM - Other errors: 0	
	Mar 8, 2005 3:36:41 PM - Overall duration: 296.972 seconds	-1
	Mar 8, 2005 3:36:41 PM - Overall speed: 84 records/second	1.14
	Mar 8, 2005 3:36:41 PM - Transfer duration: 30.926 seconds	100
	Mar 8, 2005 3:36:41 PM - Transfer speed: 811 records/second	1
3	Mar 8, 2005 3:36:41 PM	100
31	C: (Vsamredir) 30	
	the second office and a second	12.00













