

# Staging and Interchanging Data with OS/390 and VSE

## What's a Transfer?

A ViaSQL transfer is a single-step intelligent data copy between OS/390 or VSE and a LAN-based DBMS, or from the mainframe to a file on the LAN platform.

Transfers are, or can be, part of:

- ▼ Data staging and migration
- ▼ Data replication
- ▼ Data warehousing
- ▼ Multi-tiered systems and applications
- ▼ Decision support systems
- ▼ Data distribution systems and applications

The ViaSQL transfer makes data movement easy — data subsetting, data format differences, data conversion, and the network and DBMS interfaces are handled automatically.

Transfer optional features can manipulate data in transit:

- ▼ Year 2000 date expansion
- ▼ File or record merging
- ▼ Data aggregation

Plus, the transfer can call a program to format the data, in XML for example, and send it on to your customer, your supplier, or an external application of your choice.



## Managing Data Movement

What do you need to make transfers truly convenient and efficient?

- ▼ Easy transfer statement building and testing
- ▼ Automated execution
- ▼ Sequenced execution
- ▼ Parallel execution
- ▼ User-specified failure handling
- ▼ Automatic post-transfer execution of user-specified program

ViaTransit, the newest addition to the ViaSQL product family, supplies all these features and more.

# ViaTransit in Data Staging Applications

## Scenario I

Your order-processing application resides on OS/390, and data is stored in VSAM files. Every night, new order data is downloaded to relational DBMSs on departmental servers for use by customer service, marketing, and sales. They can use SQL-based ODBC applications to query and analyze the data, plus they get the performance benefit of localized data stores.

ViaTransit automatically initiates a customized transfer sequence at 10:00 pm each evening, downloading the appropriate record subset to each server.

## Scenario II

With ViaSQL connecting the Web server and the OS/390 order processing application, customer orders arrive over the Web. Confirmation records are written to an OS/390 file. Once each hour, a ViaSQL transfer collects the most recent records and copies them to a Web-enabled DBMS on the LAN, allowing customers to check order status without using mainframe resources.

## Scenario III

Once a day, your data warehouse is updated with VSE order data from the previous day. When the VSE processing is complete, a CICS-based ViaSQL application connects to the ViaTransit environment and initiates a transfer to move the new records into a file on your data warehouse platform. ViaTransit then calls a program which reads the file, builds aggregate records, and updates the data warehouse tables.

## Scenario IV

Payroll data is entered into regional servers on a weekly basis. Every Saturday at midnight, ViaTransit executes multiple transfers to copy this data to OS/390, where the payroll application calculates salaries and issues checks.



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## ViaSQL Q&A

*Can I retrieve LAN data for use in mainframe applications?*

Yes. Transfers can move data in either direction — from OS/390 or VSE to a LAN DBMS, or vice versa. The LAN data can be written to a VSAM file for use by mainframe programs.

*Can I schedule transfers daily?*

Yes, and also hourly, every x minutes, weekly, monthly, and a variety of other options provided by ViaTransit. You can also initiate transfers from CICS and use a CICS scheduler to kick them off.

*Can I replicate data?*

Using frequently scheduled transfers, you can come close enough for many purposes. For smaller lag times, use the ViaSQL RPC support in combination with triggers to replicate LAN data to OS/390 or VSE, or use ViaSQL's CICS client API to replicate mainframe data to the LAN.

*Why is ViaSQL transfer better than 3270 file transfer?*

Glad you asked. For starters, you can transfer only specific records or fields, you can load directly to a DBMS, you can transform data on the fly, you often get better performance, and you can use ViaTransit's automatic recovery and retry options.

ViaSQL's transfer is a seamless, easily managed process, while standard file transfer is actually many separate processes, each requiring individual attention.

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