

CONNX DB Adapter for VSAM-VSE.

The CONNX for VSAM-VSE module provides secure, real-time, read/write access to VSAM data sources on VSE. In conjunction with other modules, you can perform seamless joins between VSAM-VSE and most other databases.

Support for VSAM/CICS on OS/390/z/OS

CONNX for VSAM offers real-time access to VSAM/CICS files on an OS/390 or z/OS mainframe server running TCP/IP. It runs as a CICS transaction, ensuring interoperability with existing CICS applications, and is able to import metadata directly from COBOL FD copybooks, which describe the VSAM file layouts.

OS/390 / z/OS Started Task Support for VSAM, QSAM, and PDS files

The Started Task / Batch Job version of CONNX for VSAM / QSAM / PDS provides read/write access to VSAM files and read-only access to QSAM and PDS files. In conjunction with CONNX for CICS/VSAM, this version of the product provides real-time access to VSAM files during CICS region down-time periods.

Both versions for CONNX for VSAM on OS/390 / z/OS provide read/write access to Keyed Sequential Data Sets (KSDS), Relative Record Data Sets (RRDS), and Entry Sequenced Data Sets (ESDS).

Support for VSE/ESA

CONNX also supports real-time CICS TCP/IP access to VSAM files stored on IBM VSE/ESA (Virtual Storage Extended/Enterprise Systems Architecture) hosts. The CONNX CICS TCP/IP listener program runs in a VSE/ESA CICS partition and waits for client connection requests from ODBC/OLE DB/.NET/JDBC-compliant programs. The CONNX server program provides full read/write access to VSAM KSDS, RRDS, and ESDS. CONNX for VSE/ESA imports VSAM metadata from COBOL FD copybooks into a CONNX Data Dictionary file (CDD). Once imported, the target VSAM file can be treated as one or more logical tables or views.

Join VSAM with Multiple Data Sources

In conjunction with other products in the CONNX suite, you can perform seamless joins between two or more supported disparate databases using ODBC, OLE DB, JDBC, and .NET. CONNX for VSAM access is fast and efficient. With CONNX, a single metadata model can be created that spans all enterprise data sources and applications requiring data access. The result is an enterprise-wide view of data that provides a reusable standards-based framework for information access. To the user or application, data appears as if it existed in a single federated relational database.

SQL and CONNX for VSAM

The CONNX distributed SQL engine reduces the workload placed on the mainframe by performing CPU-intensive operations where the CONNX client resides (Unix, Linux or Windows. i.e., remote desktop, Web and/or application server), while allowing the database engine to perform tasks for which it is best suited. CONNX supports ANSI SQL (Insert, Update, Select, and Delete); group by, distinct, aggregate (AVG, MIN, MAX, SUM, and COUNT), and all substring, string, date, conversion, and math functions. Nested inner and outer left/right joins are supported, as well as subqueries and correlated subqueries. CONNX also supports Unions and Insert/Select.

Views

CONNX supports the creation of views, which facilitate hiding table relationships from the end user. CONNX Views facilitate the creation of heterogeneous joins between multiple disparate databases.

Data Conversions

CONNX supports over 600 data types and

performs bi-directional data conversions for data updates and retrieves.

Popular Program Access

As with all databases supported by CONNX, CONNX for VSAM has been tested with Microsoft Access, Microsoft Excel, Microsoft Visual Studio, including Visual Basic/C++, etc., Delphi, PowerBuilder, Impromptu, ReportNET, Lotus Approach, Crystal Reports and vendors such as Cognos and Business Objects. CONNX for VSAM also supports ADO and ASP.NET (Active Server Pages) and JDBC is used with Websphere and Apache Tomcat.

Compliance

ODBC Full Compliance (level 2)

JDBC Type 3 Driver

OLE DB 2.5 Driver

NET 2.0 Driver and above

Security Preserved and Extended

The CONNX Data Dictionary provides additional field and table-level encryptable security by group or user, ensuring the security of sensitive information. CONNX also supports row level security with CONNX Views. Additionally, the CONNX Data Dictionary is encrypted to secure sensitive information.

Occur Clauses

The CONNX unique Rotated Array Technology makes manipulation of large arrays simple. CONNX accomplishes this by returning each column of the array as a separate row.

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Metadata Import

CONNX for VSAM imports VSAM metadata directly from COBOL copybooks and a CONNX Text Specification file format into a CONNX Data Dictionary file (CDD).

Command Execution

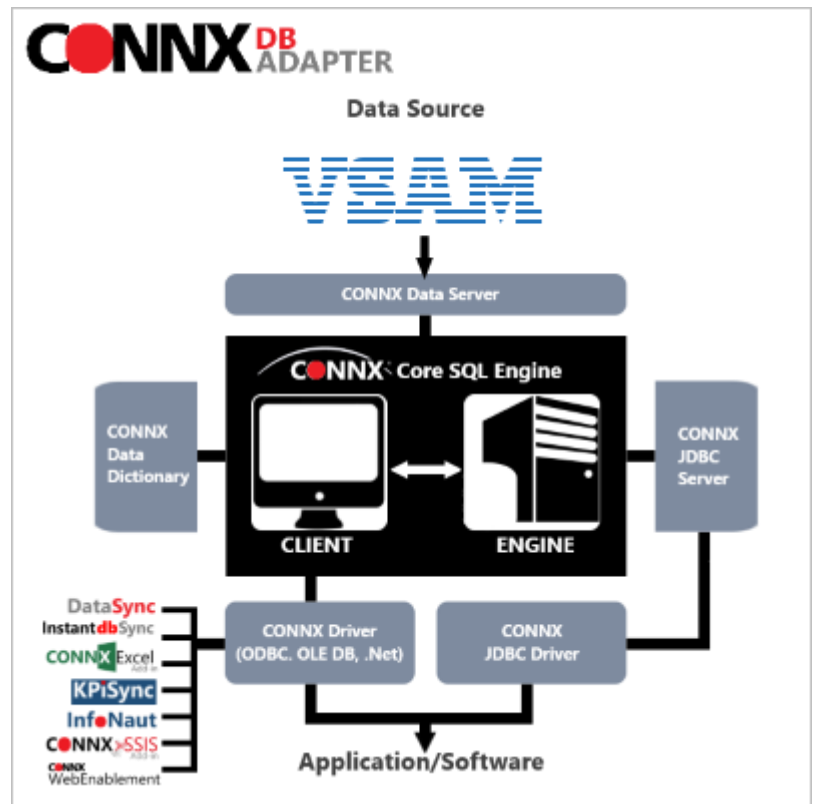
For CICS/VSAM, CONNX provides an RPC (Remote Procedure Call) mechanism that allows remote execution of batch jobs, command procedures and applications from a PC.

Table Redefinition

The CONNX Data Dictionary supports multiple record layouts of the same VSAM file, based on a "record type" field.

For a free Evaluation copy of CONNX, or more info, please contact a CONNX Representative at (425) 519-6600 or sales@connx.com.

Learn more About [VSAM-VSE](#)



System Requirements

CONNX for VSAM	Operating System	Supported File Types	Network Software	Version/Release
CONNX for CICS/VSAM	z/OS, OS/390, and MVS	VSAM	TCP/IP V3R2 and above	V4R1 or TS 1.x and above
CONNX for VSAM/QSAM/PDS	z/OS, OS/390, and MVS	VSAM / QRS / PDS	TCP/IP V3R2 and above	N/A
CICS/VSE	VSE 2.3 and above	VSE	TCP/IP (CSI/IBM) or	V2R3 and above (since
CICS/TS	VSE 2.4 and above	VSE	TCP/IP (CSI/IBM) or	TS 1.1.1 and above

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Features	Benefits
<ul style="list-style-type: none"> Federate with other relational, non-relational, networked, hierarchical, object, and flat-file database information through a single, easy-to-use, SQL-based interface. Data at your fingertips – anything from legacy data to recently added content to application information – anytime, anywhere. A reusable standards-based framework for information access that drastically lowers the short- and long-term costs usually associated with complex enterprise data solutions. 	<ul style="list-style-type: none"> Boosts productivity and efficiency of end users and application builders by connecting different functions within the enterprise. Shortens development time on projects using open standards Improves time to market. Provides cost-effectiveness. Preserves initial investment.
<ul style="list-style-type: none"> Access from Microsoft Windows, Unix and Linux productivity tools, database applications, and development environments. 	<ul style="list-style-type: none"> Enhances flexibility for database use in a multitude of OS environments and BI tools.
<ul style="list-style-type: none"> Proven scalability, supporting any number of client machines. Compatible with any .NET- ODBC-, OLE DB-, or JDBC compliant application. 	<ul style="list-style-type: none"> Enables use of open standards interfaces with investment protection. Minimizes resource utilization Utilizes current infrastructures with no additional cost.
<ul style="list-style-type: none"> Open-platform technology that integrates with existing systems so you can manage them with ease. 	<ul style="list-style-type: none"> Extends the functionality and life of existing architecture.
<ul style="list-style-type: none"> Windows, Unix and Linux client support. 	<ul style="list-style-type: none"> Supports existing IT infrastructure at no additional cost.
<ul style="list-style-type: none"> Field and record level protection. 	<ul style="list-style-type: none"> Provides maximum levels of data security
<ul style="list-style-type: none"> Heterogeneous joins for the creation of reports that consolidate data spanning multiple data sources. 	<ul style="list-style-type: none"> Maintains integrity of data.
<ul style="list-style-type: none"> Real-time read/write access to data. 	<ul style="list-style-type: none"> Enhances flexibility.
<ul style="list-style-type: none"> Multiple views support. Extensive data type conversion support. Flexible data format and storage. 	<ul style="list-style-type: none"> Minimizes complexity for end users.
<ul style="list-style-type: none"> Comes bundled with the CONNX InfoNaut querying and reporting tool that enables users to instantly view their data. 	<ul style="list-style-type: none"> Easy to install and use Standard version of InfoNaut included with CONNX.