

## CONNX for IMS

The CONNX IMS Module provides secure, real-time, read/write access to IMS databases running on OS/390, z/OS, with connectivity through TCP/IP.

### Compliance

ODBC Level 2 Compliant.  
ODBC 3.51 Driver.  
JDBC Type 3 Driver  
OLE DB 2.5 Driver  
.NET 1.1 Driver

### Join IMS 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, .NET and JDBC. CONNX for IMS 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.

### SQL and CONNX for IMS

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). The database calls are low level and minimize impact on the system. CONNX directly imports IMS metadata from the DBDs.

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 400 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 IMS 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 IMS also supports ADO and ASP.NET (Active Server Pages) and JDBC is used with Websphere and Apache Tomcat.

### Security Preserved and Extended

CONNX respects all existing mainframe security and employs extended RACF/Top Secret security mechanisms. The CONNX CDD provides additional field and table-level encryptable security by group or user, ensuring the security of sensitive information.

### Table Redefinition

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

### Record Definition Imports

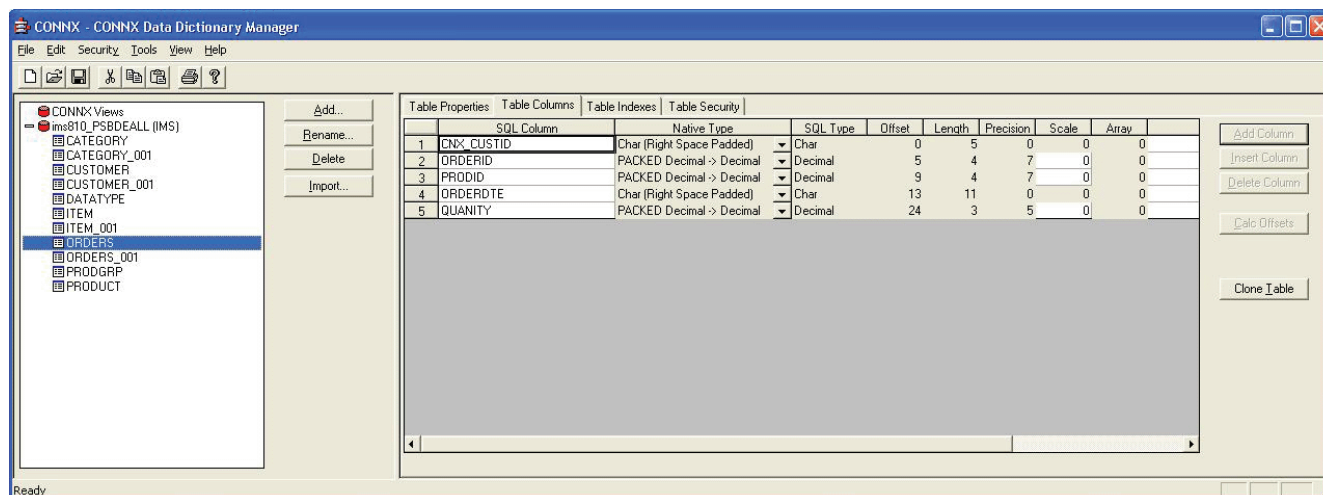
CONNX imports table definitions directly from IMS Databases.

## CONNX for IMS

Features	Benefits
▶ Java™ and WebSphere® support is native	▶ Web integration or enablement projects can quickly have direct access to IMS data.
▶ PSB and DBD Automatic Import to CONNX Data Dictionary (CDD)	▶ Lists automatically populate, only requiring the user to select the necessary PSB and DBDs. Metadata is automatically imported. Importing databases takes typically 15 minutes or less.
▶ Multiple PSB support	▶ Supports joins across multiple IMS hierarchies
▶ RACF/Top Secret security mechanisms	▶ Existing mainframe security and access control methods are complimented and extended, protecting vital corporate information. Multi-level security can be created to the record level.
▶ Full Transaction Support	▶ Perform inserts, updates and deletes in a complete unit of work.
▶ Single sign-on reduces complexity	▶ Provide transparent user access to multiple data sources.
▶ ODBC, OLE DB, JDBC, .NET or Java Support	▶ Popular applications have access to IMS data for real time queries.
▶ Heterogeneous Joins	▶ Allows the user to create views that span several IMS segments.
▶ ANSI SQL Support	▶ Compatible and consistent queries to all databases.
▶ Distributed SQL Processing	▶ Low impact host mainframe resources without sacrificing security.

### System Requirements

IMS Product	Operating System	Network
Version 7	z/OS or OS/390	TCP/IP
Version 8	z/OS or OS/390	TCP/IP
Version 9	z/OS or OS/390	TCP/IP



## CONNX for IMS

### Additional Features and Benefits

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

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