

## IBM Informix Enterprise Gateway Manager Version 7.31

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### Highlights

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- ***Provides fast, easy and reliable access to disparate data stores in a heterogeneous enterprise environment***
- ***Leverages Open Database Connectivity (ODBC) through a spec-compliant open-gateway tool kit***
- ***Allows you to manipulate enterprise data from DB2®, Informix, Oracle, Sybase or other ODBC-compliant data sources in a single SQL statement***

The IBM Informix Enterprise Gateway Manager is a member of the IBM Informix Enterprise Gateway family. This complete set of standards-based gateways includes Informix Enterprise Gateway with Distributed Relational Database Architecture (DRDA). Informix Enterprise Gateway Manager allows Informix database application developers and users to access information on DB2, Oracle, Sybase and other non-Informix databases as easily and transparently as if they were accessing an Informix database server.

### **Fast, easy, reliable access to enterprise data**

At the core of the Informix Enterprise Gateway Manager is an SQL-based gateway that allows your Informix tools, applications and databases to interoperate transparently with non-Informix databases. Informix Enterprise Gateway Manager can help you to migrate to or coexist in a heterogeneous environment.

Based on the ODBC specification from Microsoft® Corporation, Informix Enterprise Gateway Manager serves as a bridge, or gateway, between an Informix client application and the data on a target non-Informix data source. It provides access to non-Informix data sources through ODBC drivers, which can be loaded dynamically. Informix Enterprise Gateway Manager Version 7.31 includes the latest DataDirect Connect ODBC drivers, which communicate with the major relational databases using wire protocol technology. These drivers eliminate the need for client libraries and provide better performance, ease of deployment and administration for your application environment.



*Informix Enterprise Gateway Manager provides transparent interoperability with non-Informix databases.*

## **Supports distributed joins with Informix and other data sources in a single SQL statement**

Because of its underlying open architecture, Informix Enterprise Gateway Manager is designed to work with any third-party data sources having ODBC drivers supporting ODBC Version 3.5 and later.

### **Easy access to target database management system**

Informix Enterprise Gateway Manager translates Informix SQL requests into ODBC-compliant function calls. Using emulation, it makes the underlying target database management system (DBMS) appear to both client and server applications as an instance of IBM Informix Dynamic Server. Users can access data on the target DBMS directly from Informix client applications written with products such as Informix ESQL/C, Informix 4GL or by using an Informix Dynamic Server-based engine to coordinate a distributed join.

### **Direct access to heterogeneous data**

Direct access means that any Informix client application such as ESQL/C, 4GL, ISQL or DB-Access connects directly to the Informix Enterprise Gateway Manager and thereby accesses heterogeneous data. When the client connects to Informix Enterprise Gateway Manager in direct-access mode, the Gateway identifies itself as a database server with each data source from the Gateway `odbc.ini` file appearing as a database on the server.

### **Distributed access mode**

Distributed access means that the Informix client application connects to Informix Dynamic Server Version 7.x or later. This server coordinates a distributed join between one or more Informix servers, or other data sources, using Informix Enterprise Gateway Manager, or Informix Enterprise Gateway with DRDA. (Figure 1 illustrates distributed access.)

When the client connects to Informix Enterprise Gateway Manager in distributed-access mode from a coordinating Informix Dynamic Server, Informix Enterprise Gateway Manager identifies itself as a database with characteristics identical to those of the coordinating database server.

### **Distributed join capability**

Using Informix Dynamic Server, you can perform distributed joins with data from sources such as Informix, DB2, Oracle, Sybase or SQL Server in a single SQL statement. In fact, you can transparently join data between Informix Dynamic Server and any data source accessible through Informix Enterprise Gateway Manager or Informix Enterprise Gateway with DRDA. With this capability, data from various locations within your company can be integrated with data in an Informix database.

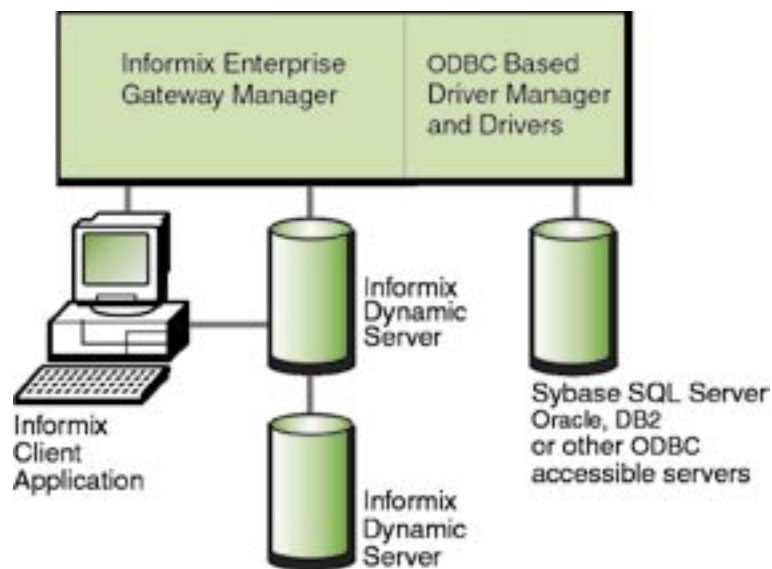


Figure 1. The role of Informix Enterprise Gateway Manager in distributed-access mode.

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## IBM Informix Enterprise Gateway Manager Requirements

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### System requirements

- An installed target DBMS, such as DB2, Oracle, Sybase or SQL Server
- An installed client product that uses Informix protocols, such as ESQL/C, 4GL, ISQL
- Any valid connection between the Informix client or server product and the gateway, such as local pipe, TCP or IPX/SPX
- An installed Informix Dynamic Server IDS 7.3x, IDS 9.3x and later

### Hardware requirements

- 100 MB of disk space
- 1.2 MB of fixed memory for the Informix Enterprise Gateway Manager reentrant process
- An average of 180 KB of virtual memory per Informix Enterprise Gateway Manager user (varies by application)

### Compatibility

Informix Enterprise Gateway Manager is accessible through Informix Dynamic Servers 7.3x, 9.3x or later, using Informix distributed capabilities or through the following clients:

- ESQL/Cobol ver 7.25
- ESQL/C component of IBM Informix Client SDK ver 2.70 and later

**Note:** When used in distributed mode, Enterprise Gateway Manager can be used with any client like Microsoft Visual Basic® or Visual C/C++® that can work with an Informix Dynamic Server

### Security

Informix Enterprise Gateway Manager enforces a security system that permits only authorized users to access remote data sources. Informix Enterprise Gateway Manager users must have a valid user ID for the data source. Informix Enterprise Gateway Manager provides mechanisms that enable mapping of user IDs and passwords between the different database servers. This mechanism is built into the gateway facility *egmdba*

### Unrestricted connection support

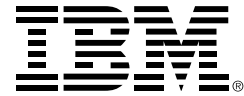
The ODBC interface allows Informix Enterprise Gateway Manager to connect to a wide range of data sources that might have varying levels of support for transactions or different isolation levels. Combined with the appropriate ODBC driver, unrestricted connection support can provide access to nonrelational data sources such as file systems that do not provide transaction- or isolation-level support.

### SQL syntax support

Informix Enterprise Gateway Manager provides SQL92 entry-level support. Tools and applications can use SQL to read from and write to Oracle, Sybase and other data sources. The supported SQL syntax includes the ANSI-standard SQL statements *Select*, *Insert*, *Update* and *Delete*.

### Scrolling cursor support

Informix Enterprise Gateway Manager includes scrolling cursor support, which allows you to move backward and forward through retrieved data sets for added convenience and enhanced user productivity.



**For more information**

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02-03  
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