

Ingres 10.2

All-In-One Spatial and Relational Database

INGRES 10.2

Ingres 10.2 Benefits

Collect, manage, and share spatial and relational data

Connect from leading spatial applications

Build spatial-aware applications

Cost-effective mission-critical 24x7 enterprise support

What's New in 10.2

50 geospatial data types

SQL syntax for data analytics and aggregation abilities

Per-query parallelism setting to improve performance

Simpler administration with Remote GCA and DBMS level authentication

Easier internationalization with UTF-8 transliteration

New SQL functions for date and time, conversion, IP network address, and aggregation

Supported Geospatial Platforms

Safe Software FME

GeoTools Library

Action Ingres is a leading enterprise-grade database management system designed to reduce IT costs and time-to-value. Ingres 10.2 adds enhancements for geospatial features, performance, system administration, and internationalization. And with its new SQL capabilities, you can take your first steps into big data analytics.

More Geospatial, new SQL functions, simpler DBA, easier I18N

Among Ingres 10.2 features, one of the biggest highlights is the extending of already industry-leading spatial data management capabilities – 50 new geospatial data types in all. Read on for details on these and other features and capabilities.

Ingres Geospatial enhancements

The 10.2 release adds eight 2-D (flat earth), twenty-seven 3-D (round earth), fifteen 4-D (2-D and 3-D plus time series) data types and eight linear reference functions. For a complete list, check out the release summary, or see the *Geospatial User Guide*.

Per-query parallelism

You can now set parallelism at the query level using `SELECT...WITH MAX_PARALLEL n`, where *n* is the number of cores to use. This simple feature provides a test of the effect of parallelizing a query to help you increase and fine-tune system performance.

Analytics and aggregation support

Ingres 10.2 is a good way to get started with data analytics. To support standard analysis methods, it provides new SQL Window functions for partitioning and ranking of query results, as well as new analytical SQL extensions for grouping sets. And all of these features increase existing data aggregation capabilities.

Remote GCA

This new capability permits a GCA client process to connect to a remote installation without a Name Server (GCN) or Communications Server (GCC) in the client. By making use of existing Dynamic Vnode functionality, it removes the need to maintain static Vnodes. All libq (ESQL, OpenROAD) and OpenAPI (including ODBC) applications can make direct use of Remote GCA. JDBC and .NET applications also can benefit indirectly through the DAS server's use of Remote GCA. For details, read about using a local communications server for remote connections in the *Connectivity Guide*.

DBMS level authentication

Ingres now allows DBMS-level authentication, removing the need to add an operating system user for every new user who needs to access the database. To learn more, see DBMS authentication in the *Security Guide*, as well as the CREATE USER, ALTER USER, and CONNECT statements in the *SQL Reference Guide* and the *Connectivity Guide*.

UTF-8 transliteration

Ingres 10.2 allows mapping between the UTF-8 character set and non-UTF-8 character sets, making it easier to support multiple local languages as one character encoding. Information about using these new character set capabilities is found throughout the Ingres 10.2 guides.

New SQL functions

Ingres 10.2 offers new SQL functions: Date and time (4), conversion (2), IP network address (5) and aggregation (1). For more information, see the *SQL Reference Guide*.

IPv4 and IPv6 data types and functions

New data types IPV4 and IPV6 store host addresses in their native binary format. Coercion between them and other data types, such as VARCHAR, is supported. IPV4 and IPV6 types also support standard comparison operators and new conversion and bitwise functions. For details about these new network address capabilities, see the *SQL Reference Guide*.

Ingres 10.2 is [OGC compliant](#).



OGC serves as the global forum for the collaboration of geospatial data and solution providers and users. To learn more, visit opengeospatial.org.

Download a trial of Actian Ingres 10.2 today at esd.actian.com/product/Ingres/10.2.

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