



User Guide | PUBLIC

SAP IQ 16.1 SP 05

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SAP IQ Guide to Licensed Options

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1 SAP IQ Guide to Licensed Options

All product editions except the Evaluation Edition require a license. Optional features are sold and licensed separately.

2 About SAP IQ

SAP IQ is a high-performance decision-support server designed specifically for mission-critical business intelligence, analytics, and data warehousing. Component Integration Services within SAP IQ provide direct access to relational and non-relational databases on mainframe, UNIX, or Windows servers.

3 Product Licensing

Available licenses are determined by product edition. Optional features are sold and licensed separately.

Whether you install a licensed or evaluation edition, you have 90-day access to all features and options. To use an option beyond the 90-day evaluation period, you must purchase and install an appropriate SAP Software Asset Management (SySAM) license. See [SySAM Users Guide](#).

The e-mail message or Web key you receive when you purchase an SAP product provides specific product and licensing information. Before installing and configuring any product edition, know which features you are licensed to use.

3.1 Product Editions

- **SAP IQ Enterprise Edition**
Supports all options and features. The Enterprise Edition requires a CPU license, which restricts the number of cores (not CPUs) the server can use. Optional features are sold and licensed separately.
- **SAP IQ 90-Day Trial Evaluation**
Provides full access to all features available in the SAP IQ Enterprise Edition for a 30-day evaluation period. When the evaluation period expires, customers are required to purchase an appropriate license to continue running the server. Available as a free download [here](#).

3.2 Available Licenses

The SAP IQ Evaluation Edition and SAP IQ Enterprise Edition provide 90-day access to all features and options. Access to optional features beyond the 90-day evaluation period requires an SAP IQ Enterprise Edition and appropriate license.

Orderable License	Actual License	Description
CPU	IQ_CORE	Restricts the number of cores (not CPUs) the server can use.
VLDB MO	IQ_VLDBMGMT	Lets you create multiple tablespaces and dbspaces beyond the defaults. Each VLDB license allows for 1 TB of storage. Additional licenses are required for each additional TB of storage in the main store.
ASO	IQ_SECURITY	Enables column and ECC Kerberos encryption options. The number of ASO licenses must match the number of cores.
MPXO	IQ_MPXNODE	Allows you to start secondary multiplex nodes (readers/writers). The number of nodes must always be less than cores, as each multiplex server must have at least one core.

Orderable License	Actual License	Description
IDBA-PSO	IQ_UDF	Lets you define and run high-performance scalar and aggregate user-defined functions. Available with approved third-party libraries only.
	IQ_IDA	Allows you to build, deploy and run C/C++ V4 User-Defined Functions (UDF). The IQ_IDA license will function as both the InDatabase Analytics Option and Partner Solutions license.
UDA	IQ_UDA	Applies to TEXT indexes and enables the IQ text search functionality, which lets search unstructured and semi-structured data. An IQ_UDA also includes an IQ_LOB license.

Note

The DBA must explicitly authorize access to an optionally licensed feature. SAP IQ will not attempt to check-out an optional license by default. Unless the DBA grants access to an option, the option will not be available. See the `sp_iqlmconfig` stored procedure in *SAP IQ SQL Reference* for more information.

Related Information

[sp_iqlmconfig Procedure](#)

4 Optional Features

SAP IQ provides significantly faster query performance than traditional database environments.

Additional product options extend the power of SAP IQ to meet specific performance, scalability, security, availability, and manageability requirements.

In this section:

[Unstructured Data Analytics \[page 7\]](#)

The Unstructured Data Analytics Option (IQ_UDA) supports binary large object (BLOB) and character large object (CLOB) storage and retrieval.

[Advanced Security \[page 8\]](#)

The Advanced Security Option (IQ_SECURITY) protects your environment against unauthorized access.

[Multiplex Grid \[page 8\]](#)

The Multiplex Grid Option lets you add nodes to a multiplex environment, enabling a highly scalable shared disk grid technology.

[Very Large Database Management \[page 8\]](#)

The Very Large Database Management Option (IQ_VLDBMGMT) lets you logically partition very large data sets into smaller subsets.

[In-Database Analytics Option \[page 9\]](#)

The In-Database Analytics Option enables customers to build, deploy and run their own C/C++ User-Defined Functions (UDFs).

4.1 Unstructured Data Analytics

The Unstructured Data Analytics Option (IQ_UDA) supports binary large object (BLOB) and character large object (CLOB) storage and retrieval.

Unstructured Data Analytics lets you store, retrieve, and analyze unstructured data as part of the same repository as transactional or analytical data. Unstructured data can include images, maps, documents (PostScript files, word processing files, presentations, and so on), Web content, audio, video, and XML files.

Full-text search capabilities let you:

- Use the same applications and interface to access all structured and unstructured data
- Leverage full enterprise-class DBMS support for all unstructured data types
- Search for words and phrases within text data
- Perform Boolean and proximity searches
- Score results from text queries based on relevance

4.2 Advanced Security

The Advanced Security Option (IQ_SECURITY) protects your environment against unauthorized access.

Advanced Security provides the highest levels of security for SAP IQ environments, including:

- Pluggable Authentication Module (PAM) support lets you write programs that rely on authentication independently of the underlying authentication scheme.
- IPv6 support provides additional security while adding flexibility.
- Kerberos authentication enables secure single login.
- Lightweight Directory Access Protocol (LDAP) user authentication for enterprise wide user password management.
- Column-level encryption adds flexibility and precision to database security.

4.3 Multiplex Grid

The Multiplex Grid Option lets you add nodes to a multiplex environment, enabling a highly scalable shared disk grid technology.

With SAP IQ multiplex, you can start with one server and add CPUs and memory as needed. You can incrementally scale concurrent query jobs, load jobs, or both. You can add servers and CPUs with little or no loss in scalability, plus you can add terabytes of disk to the storage area network (SAN), independent of adding server hardware, with no significant performance degradation. SAP IQ multiplex supports multiple users per CPU.

The Multiplex Grid Option provides:

- Highly scalable grid architecture in all dimensions: storage, CPUs, and number of users.
- Quick and easy scaling of jobs via flexibly assigned read and write nodes.
- High availability features that migrate failed jobs to other nodes.

4.4 Very Large Database Management

The Very Large Database Management Option (IQ_VLDBMGMT) lets you logically partition very large data sets into smaller subsets.

Very Large Database Management (VLDB) enhances the manageability of very large data sets, to partition data logically in a range of values, and to partition data in logical groups of objects called table spaces. Range partitioning lets you work at a higher level of granularity with the data in your analytics environment by defining manageable subsets that are relevant for a particular set of queries. Tablespace also let you define more manageable sets of data and treat them as separate databases when ease of administration or other factors require some data be isolated.

The VLDB option provides:

- Range partitioning for greater precision and granularity of data
- Shortened backup and restore cycles
- Logical partitioning for enhanced manageability
- Simplified configured and managed Information Lifecycle Management

4.5 In-Database Analytics Option

The In-Database Analytics Option enables customers to build, deploy and run their own C/C++ User-Defined Functions (UDFs).

The In-Database Analytics Option provides a versatile, high performance C/C++ Application Programming Interface (API) that allows users to extend the analytical capabilities of SAP IQ by plugging in externally built V4 C/C++ functions. These C/C++ functions operate close to the data stored in SAP IQ, and execute in highly parallelized fashion. Users may deploy either SAP-certified external function libraries, or custom built functions. Non-certified functions may be deployed only on the reader nodes of a multiplex to ensure data safety.

SAP will continue to support the legacy Partner Solutions IQ_UDF license, which is required for legacy V3 C/C++ libraries. There is no change in server runtime behavior for the IQ_UDF license. IQ_UDF users can upgrade to the In-Database Analytics Option and the library authentication method from SAP without cost.

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