SYBASE®
An SAP® Company

Guide to Licensed Options

SAP Sybase IQ 16.0

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About SAP Sybase IQ

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

Product Editions

SAP Sybase IQ is available in several product editions.

Edition	Description
Enterprise Edition	Supports all options and features. Optional features require additional licenses that are purchased separately.
Small Business Edition	Supports most of the functionality available in the Enterprise Edition, but does not support multiplex or any optional features.
Single Application Server	Provides the same functionality as the Small Business Edition, but is restricted to use in a one- or two-machine environment.
Evaluation Edition	Supports all options and features available in the Enterprise Edition for a 30-day evaluation period.
Express Edition	Supports all options and features available in the Evaluation Edition. Unlike the Evaluation Edition, the Express Edition does not expire, but does restrict the size of all IQ main dbspaces, permit other incremental license options, and cannot be deployed in a production environment.

Licensing

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

Whether you install a licensed or evaluation edition, you have 30-day access to all features and options. To use an option beyond the 30-day evaluation period, you must purchase and install an appropriate SAP Sybase Software Asset Management (SySAM) license.

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

Optional Features

SAP Sybase IQ provides significantly faster query performance than traditional database environments. Additional product options extend the power of SAP Sybase IQ to meet specific performance, scalability, security, availability, and manageability requirements.

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

Advanced Security

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

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

- FIPS Transport Layer Security protects your data by securing client-server communications.
- 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.

Multiplex Grid

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

The Multiplex Grid Option lets you incrementally scale concurrent query jobs, load jobs, or both. With SAP Sybase IQ multiplex, you can start with one server and add CPUs and memory as needed. 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 Sybase 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 migrate failed jobs to other nodes.

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. Tablespaces 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

In-Database Analytics—Partner Solution Options

This option provides a versatile, high performance C++ Application Programming Interface (API) that allows users to extend the analytical capabilities of SAP Sybase IQ by plugging in externally built C++ functions. These external C++ functions operate close to the data stored

in SAP Sybase IQ and are often executed in a highly parallelized fashion, thereby providing high efficiencies in performance, usability, and total cost of ownership.

Users may deploy a wide array of SAP Sybase certified external function libraries from ISV partners inside SAP Sybase IQ, in any configuration. In addition, users may also deploy custom built external functions inside SAP Sybase IQ, but these can be deployed only in the reader nodes in a multiplex configuration.

InDatabase Analytics Option

The InDatabase Analytics Option is a new license type that enables customers to build, deploy and run their own C/C++ User-Defined Functions (UDF). Unlike previous releases, this option is available to all SAP Sybase IQ customers and no longer requires Sybase certification.

The InDatabase Analytics Option includes a new IQ_IDA license that will function as both the InDatabase Analytics Option and Partner Solutions license. Although customers can purchase the InDatabase Analytics Options to enable V4 UDF support, this license restricts runtime execution on multiplex readers.

SAP Sybase will continue to support the current Partner Solutions IQ_UDF license, which is required for existing V3 C/C++ libraries. There will be no change in server runtime behavior for this license. Partners can obtain a copy of the new InDatabase Analytics Option and the library authentication method from SAP Sybase without cost.

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