IBM InfoSphere Information Server V11.5 delivers new integration and governance features

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At a glance

IBM® InfoSphere™ Information Server V11.5 offers the following features and benefits:

- Enables the massively scalable, shared-nothing data integration and cleansing engine to run natively in a Hadoop cluster, bringing enterprise robust capabilities to the data lake.
- Includes new data classification features to help make sense of the enormous quantities of information in the data lake.
- Introduces Open Metadata features in support of compliance and other governance initiatives.
- Delivers new packaging with flexible pricing for deployments of Information Server in a Hadoop cluster.

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Reference: SE001

Overview

InfoSphere Information Server V11.5 enables the next generation of market-leading integration, quality, and governance platform.

Organizations can take advantage of new features in version 11.5 to realize the inherent value in the information sources they have available and unlock that value at a faster pace than ever before. Whether that information resides on premises in a traditional database or warehouse, in an Apache Hadoop-based data lake, or in the cloud, InfoSphere Information Server enables the enterprise to make use of that data to satisfy the needs of the business.

InfoSphere Information Server now offers revolutionary capabilities to enable your enterprise to operationalize Hadoop in ways that were previously not possible. In this release, Information Server can execute directly inside a Hadoop cluster. This means that all of the data connectivity, transformation, cleansing, enhancement, and data delivery features that thousands of enterprises have relied on for years, can be immediately available to run within the Hadoop platform. This enables the richest set of integration and governance features in the industry, used to
solve some of the industry's most complex data challenges, to operate where the company's big data is stored. These features minimize data movements, thereby decreasing time to delivering business value.

This enhancement also maximizes the performance an organization can achieve with Hadoop. Organizations have used IBM's shared-nothing, massively scalable engine to run some of the largest data transformation workloads in the industry. These engine-exploiting, in-memory features such as data partitioning, data pipelining, and dynamic repartitioning enable seamless integration with Hadoop YARN. System resources are managed appropriately by YARN in a way consistent with the organization's policies for their shared services environment.

Perhaps most importantly, these new features for Hadoop use the same simple graphical design environment that IBM clients have previously built millions of integration applications with. This means that organizations can build new Hadoop-based information intensive applications without the need to retrain their development team on newly emerging languages that require manual hand coding and lack governance support.

The ability to run Information Server in Hadoop is made available in both the existing Information Server licensing, as well as under new packages called IBM BigInsights™ BigIntegrate and BigQuality. These new packages offer a node-based licensing model to better scale on the Apache Hadoop cluster capacity. For more information refer to Software Announcement 215-349, dated September 15, 2015.

IBM has extended the data governance capabilities in version 11.5 to empower the data stewards to manage their data assets (metadata) and ensure they are meeting the business objectives for their data (data quality). These features are now more relevant than ever when the following three factors are considered:

- Rapidly increasing amount of data this is now being sent to the data lake.
- Expanding communities of data providers and consumers from both inside and outside of traditional IT delivery models.
- Increasing levels of enterprise-sponsored and externally mandated regulatory requirements for the business to understand and protect specific classes of data.

InfoSphere Information Server V11.5 includes new features for the organization to define the policies and rules for what data is of specific interest to the organization and then to survey their various data sources to ensure where that data lives and how it is being used. The organization can then lower the amount of money spent in finding and protecting sensitive data (such as personally identifiable information PII) and increase their understanding regarding compliance with business requirements for how sensitive data should be managed.

This release also extends the types of data sources that can be cataloged, both through prebuilt integration (such as with new XML metadata support) as well as through a new open model for metadata integration. Other software vendors, system integrators, or IBM clients can extend the reach of the InfoSphere Information Governance Catalog through standardized interfaces. Those interfaces capture any assets, any set of attributes, and the lineage for how that information relates to any other information asset.

**Optim™ 9.2.1, 10.0.2, and 11.3.1 simplified offering updates**

Several updates have been made to the InfoSphere Optim simplified offerings with versions 9.2.1, 10.0.2, and 11.3.1.

The following offerings now include new capabilities to analyze and understand data using the features of InfoSphere Information Analyzer (offered currently as part of InfoSphere Information Server for Data Quality and InfoSphere Information Server Enterprise Edition):

- IBM InfoSphere Optim Archive Enterprise Edition
- IBM InfoSphere Optim Test Data Management Enterprise Edition
• IBM InfoSphere Optim Data Privacy Enterprise Edition

In previous versions these Enterprise Edition offerings included IBM InfoSphere Discovery as a supporting program. With this new release, InfoSphere Information Analyzer delivers many of the same capabilities offered by InfoSphere Discovery, but also offers additional features such as enhanced scalability, security, data rule management, and custom reporting.

The following offerings no longer include IBM Guardium(R) Redaction as a supporting program:

• IBM InfoSphere Optim Test Data Management Enterprise Edition
• IBM InfoSphere Optim Test Data Management Workgroup Edition
• IBM InfoSphere Optim Data Privacy Enterprise Edition
• IBM InfoSphere Optim Data Privacy Workgroup Edition

Key prerequisites

• Recommended content providers are Product Management and Release Manager.
• For more information refer to the Hardware requirements and Software requirements sections.

Planned availability date

September 25, 2015: Electronic availability
October 23, 2015: Media availability

Description

New features for InfoSphere Information Server common components

InfoSphere Information Server delivers common platform services (such as connectivity services, administration services, and deployment services) to support its data integration and data governance capabilities. As part of InfoSphere Information Server V11.5, the following common platform enhancements have been made.

Engine tier execution within Apache Hadoop

This feature enables data integration, data cleansing, and data profiling and analysis workloads to run on the data nodes of a Hadoop cluster.

• The Information Server engine can be installed on the edge node of a Hadoop cluster and the required binaries can be made immediately available to all nodes of the cluster through three different mechanisms: HDFS distribution, dynamic runtime copy, or NFS. Organizations can choose from among these models to best fit their architecture and security requirements.
• A new Application Master component submits parallel job run requests to YARN to secure resource allocation on the data nodes of the cluster as appropriate to the job run requirements. Users can leverage features such as Hadoop Node Labels to dedicate processing to specific nodes, and YARN schedule queues to ensure appropriate workload management control.
• The stages within the job then operate on data partitions that are available for data on those nodes (Data can be shipped to specific data nodes based on YARN’s resource selections).
• The InfoSphere Information Server engine automatically uses in-memory features such as data pipelining, data partitioning, and dynamic repartitioning to minimize job runtimes.
• Support for Kerberos-enabled clusters.

Hadoop version currency

• As with previous releases, the product supports Apache Hadoop distributions that conform to the Open Data Platform (ODP) requirements, such as IBM Open Platform, IBM BigInsights, and HortonWorks, as well as other non-ODP distributions, such as Cloudera.
• Hadoop distribution is supported for reading and writing of data from non-Hadoop InfoSphere Information Server deployments as well as Hadoop engine tier deployment: IBM Open Platform V4.x, IBM BigInsights V4.x, HortonWorks V2.2, V2.3, and Cloudera V5.3, V5.4.

Updated Repository and Application Server options

• Repository Tier supports Oracle 12g (including RAC) and SQL Server 2014.
• Services Tier supports IBM WebSphere Application Server 8.5.5.

Data integration

Information Server now includes the following additional features for data integration:

Data integration for Hadoop

All connectivity, transformation, and data delivery features are now able to execute on the data nodes of the Hadoop cluster.

Hadoop file connectivity

• Expanded support for Hadoop files, including new data formats, additional character sets, and additional data types.
• Available on all supported operating systems, including Microsoft Windows, AIX, Linux on System z, and Linux (both Hadoop and non-Hadoop).

Embedded protection of sensitivity data in-flight

Information Server Enterprise Edition licensing now includes Optim data masking libraries for protecting sensitive information in a DataStage parallel job.

Push-down processing into relational database

• The DataStage Balanced Optimization features that allow users to execute their data integration workloads within a relational database by automatically rewriting the job design as SQL is now included in the InfoSphere DataStage license and several products that include InfoSphere DataStage as a supporting program.
• Balanced Optimization has also been extended to support push-down into an IDAA configuration on System Z.

Data quality

Information Server now includes the following additional features for data quality:

Data classification

• Support for data privacy, data masking and test data management initiatives by identifying where Personally Identifiable Information (PII), sensitive and other classes of data are stored.
• Quick time to value by identifying the type of data contained within a column using three dozen predefined, data classes including credit card, taxpayer IDs, US phone number, and others.
• Extensible classifications enable you to create and customize three types of data classes: valid values list, regular expression (regex), and Java™ class.

• Column analysis results provide suggested data classification based on data values. Users can review these classifications and select the data class that best represents the data stored in each column.

**Performance enhancements**

• Improved scalability and reduced resource consumption during data profiling (column analysis).

• A new option to limit the distinct values stored can dramatically reduce the size of the results database (IADB).

• Improved scalability for cross domain and foreign key analysis. The new algorithm does not require a full column analysis with capture of all distinct values.

**Certifications**

• Data profiling, classification, investigation, standardization, matching, survivorship, address verification, and monitoring are now supported running directly inside a Hadoop cluster.

• USAC and AVI address cleansing and validation is also supported running on the Hadoop cluster.

• Oracle Connector certification for IADB.

**InfoSphere Information Governance Catalog**

Information Server now includes the following additional features for data governance:

**Governance Catalog Extensible Framework**

Allow customers to define and register new assets within the catalog, setting their display and structural definitions, allowing users to recognize and understand the information best. Further, these assets may be fully governed and mapped for purposes of lineage.

**Data class definitions**

• Allow for the detected Data Classifications to display and be searched within Information Governance Catalog.

• Allow Administrators to create and manage Data Class definitions, including their regular expressions, valid values or range.

**Multilanguage support**

Enables business terms to be defined in different languages and associated to each other to allow the organization to manage business definitions that are related.

**XML Schema Definition support**

Enables you to import an XML Schema definition file, and browse, or share the included entities, attributes, and types across the enterprise, and further, governing and annotating the entities, attributes, and types.

**Hadoop file metadata import**

You can now import metadata for Hadoop files.

**Column-level lineage for Hadoop files**

Job lineage now includes column-level lineage for the file connector when used for files in Hadoop or on other operating systems.
Asset Interchange support for Extend Lineage content

Enables you to easily and seamlessly migrate all Extended Data Source and Extension Mapping content from previous versions of Metadata Workbench or between versions of Information Governance Catalog. This capability was not previously available.

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Offering Information

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Publications

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http://www.ibm.com/software/data/infosphere/info-server/overview/requirements.html

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Performance considerations

DB2\textsuperscript{TM} Enterprise Server Edition 10.5 significantly offers increased data protection, scalability and performance for all its database intensive operations which, based on IBM DB2 technology, is designed to manage data more effectively and efficiently. Greater availability is delivered through enhancements such as online, automated database reorganization. In addition, the increased scalability and the ability to leverage the latest in server technology helps deliver increased performance of backup and recovery processes.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

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Planning information

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