



IBM Intelligent Water V1.5 helps optimize water utility planning and operations to create new opportunities for innovation and business value

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At a glance

IBM® Intelligent Water provides intelligence into water assets and operations. It drives significant business value using advanced analytics and optimization.

Version 1.5 offers the following new capabilities:

- A common operating picture with visibility and insight into operations across data sources, devices, systems, and stakeholders
- Situational awareness featuring real-time alerts on device status (including device no-reads), event correlation and analytics, data trending, and pattern detection in current and historical information
- Collaboration and preparedness using key performance indicators (KPIs) to keep track of key devices, systems, and organizational parameters
- A rich set of extension points to allow customization to individual water operations needs

Overview

IBM Intelligent Water is designed to optimize water operations and to create new opportunities for innovation and business value by delivering insights into infrastructure, assets, and operations. The solution uses advanced data management, visualization, correlation, and collaboration technologies to transform the vast amounts of disparate data received from various devices (including metering systems), assets, systems, and stakeholders into actionable information that can guide executive and operational decisions.

This release expands on the capabilities delivered in IBM Intelligent Water V1.0 by offering a new, advanced, and fully-customizable component: IBM Intelligent Operations for Water. IBM Intelligent Operations for Water is designed to improve the ability of the offering to deliver an advanced level of situational awareness, event and incident management, informed decision-making, and collaboration among stakeholders. New capabilities allow the offering to help:

- Mitigate combined sewer overflows events and thus reduce the need for building expensive new waste water infrastructure
- Optimize water usage for high-volume business consumers, such as farms and golf courses, through smarter irrigation
- Support water conservation through better water management based on analytics and optimization technologies that leverage insights from operational

information and external data feeds such as weather, river and reservoir levels, and geodetic survey data

- Drive better water management for industrial users in the natural resources space, such as oil and gas and mining
- Large or widely distributed operations such as ports, coastal, and marine organizations gain a better understanding of their changing environment, complex operations, and diverse stakeholders to drive smarter decisions

New capabilities include:

- A common operating picture that consolidates data from disparate sources to provide situational awareness at a system level to help users make more informed decisions quickly. Event correlation, GIS-mapping, and trend analysis capabilities combine to help users anticipate potential disruptions to the network.
- Customizable alerts based on business rules that allow users to be instantly informed of any anomalies detected by instrumentation, and advanced correlation that allows users to be notified if a combination of events could lead to a disruption.
- Collaboration tools that allow stakeholders to coordinate actions and enhance operational efficiency while customized key performance indicators (KPIs) help users track critical operational metrics in real time to help reduce cost, support decision-making, and provide rapid insights. Automated work flows support consistent and coordinated responses to potentially critical situations.
- A rich semantic model that allows a contextual understanding of the water or waste water network to provide users with operational insights, relationships, and patterns that were previously invisible.

These capabilities combine to help water and wastewater operations turn a hitherto reactive operational posture into a proactive one, drive situational awareness across the network, provide early warning into potentially disruptive events, and help optimize water and wastewater operations by delivering insights based on patterns, trends, and correlations that leverage a variety of operational and external data. The new solution helps customers whose operations depend on a high level of water and wastewater operations drive operational efficiency, more effective and rapid operational decisions, better collaboration across multiple stakeholders, enhanced strategic planning, and more coordinated responses to critical situations.

IBM Intelligent Water includes IBM Intelligent Operations Center V1.5 (5725-D69). For details about IBM Intelligent Operations Center, refer to Software Announcement [212-250](#), dated July 3, 2012.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: VE001).

Key prerequisites

IBM Intelligent Water runs on Red Hat Enterprise Linux™ (RHEL) 5.5 64-bit for Intel™ and AMD platforms only.

Planned availability date

- September 14, 2012: Electronic delivery
- October 12, 2012: Physical delivery

Description

IBM Intelligent Water provides water and waste water operations and certain private sector segments for whom water is a strategic resource with enhanced data so they will have improved visibility into their network. Users can take advantage of insights from their infrastructure and operations to become more pro-active, rather than

reactive, in managing their operations. The new IBM Intelligent Operations for Water component delivers standard industry capabilities that can be put to immediate use, including key performance indicators (KPIs) and reports.

A common operating picture

IBM Intelligent Operations for Water helps provide visibility and insight into operations across a variety of data sources, devices, systems, and stakeholders. Advanced data integration and visualization capabilities amalgamate, normalize, and visualize data from disparate sources to create a geospatial, source-to-discharge view of the network. Its advanced semantic model creates a contextual view of the infrastructure to help show how the various components of the network are related to each other.

Data may be internal (operational, financial, and customer) or even external (river levels, reservoir levels, and dam levels). Weather feeds can be included to drive further information and insights. By amalgamating such wide-ranging input, users can create water and/or waste water data models that can be extended to support a standard hydraulic model or the Pipeline Open Data Standard (PODS) pipe model.

Situational awareness

Real-time device status alerts, event correlation and analytics, data trending, and the ability to detect patterns hidden in current and historical information drive a real-time knowledge of the network to help organizations make more informed decisions. A device no-read capability helps to quickly identify and address the small number of specific devices or systems, even amongst thousands, that are non-operational.

Geo-tagged infrastructure elements can be identified and published on global information system (GIS) maps to show their location to help correlate events with elements in the network. Users can selectively view the elements by choosing the relevant layers on the GIS. Separate geographical areas on the map can be displayed as a layer that corresponds to a particular logical division or grouping of the water network, such as district metering areas (DMAs) and pressure managed areas.

Trend analysis capabilities help users to quickly notice which systems may be at risk of crossing key thresholds. Customizable reports help in the rapid identification of patterns in historical and current data to provide a richer level of awareness of data and events.

In the short-term to intermediate-term, these capabilities allow organizations to take a pro-active stance towards operations rather than reacting to situations as they arise. In the longer term, the insights from correlations and historical information allow better long-term planning and strategy.

Collaboration and preparedness

Key performance indicators allow users to keep track of key devices, systems, and organizational parameters. Business and organizational KPIs may be high-level or they may have multiple hierarchies with drill down capabilities. Real-time collaboration using IBM SameTime and the ability to broadcast operational event and weather notifications to all stakeholders allows users to quickly prevent potential disruptions. If a disruption does occur, advanced work flow capabilities allow users to implement a rapid, coordinated, and structured response using predefined standard operating procedures.

Industry standards-based for extensibility

IBM Intelligent Operations for Water is built on and exploits a rich industry data model that takes advantage of accepted water industry standards, such as EPANet. It supplies sample infrastructure elements, measurement types, KPIs, operating

procedures, event flows, external data feeds, and reports that can be customized for easy start-up. Its programming model can also be extended to suit the specific needs of a variety of water agencies.

The broad and flexible capabilities of Intelligent Operations for Water can be used in a variety of operational contexts in addition to water and waste water utilities that include management and assessment of coasts, lakes, and harbors.

- Its monitoring, data aggregation, infrastructure publishing, and visualization capabilities make it ideal for creating an end-to-end view of any large water operation.
- Flexible data models and industry content make it an excellent repository of contextual information that reveals new linkages and insights among operational, asset, and external data.
- Its collaboration tools, custom alerts and alarms, and KPIs make it well suited as an early warning and performance tracking system.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Product positioning

IBM Intelligent Water is just one of the IBM Smarter Cities® solutions designed to help make cities and government operate more effectively and efficiently--essentially smarter.

IBM offers a suite of Smarter Cities and government solutions that can help cities and government agencies integrate information from disparate, instrumented systems and create an intelligent, interconnected environment that encourages collaboration, enhances efficiencies, and fosters effective decision making.

IBM can help cities optimize individual departments--including buildings, emergency management, energy, operations, public safety, transportation and water--while facilitating seamless cross-departmental integration.

Reference information

For information about IBM Intelligent Operations Center, refer to Software Announcement [212-250](#), dated July 3, 2012.

Program number

Program number	VRM	Program name
5725-D71	1.5.0	IBM Intelligent Water

Education support

The IBM Software Training team offers a portfolio of education services to help customers and IBM Business Partners successfully deploy the IBM Intelligent Water offering to achieve the maximum benefit. Education is a key component to ensuring software success.

IBM curriculum provides a unique training value built on exclusive product knowledge direct from IBM developers cemented with expert instructors and flexible time and cost saving training options.

The IBM Software Training team works closely with product developers and services organizations to ensure that the courses we offer provide the most current technical and product information. IBM Software Training provides training for the entire IBM software portfolio that spans the spectrum of skills needs from introductory product overviews to advanced offerings. Hands-on labs let you work with fully-functional versions of the software to round out your training experience.

Several training options are available, including instructor-led classroom offerings, virtual (online) classes, and self-paced training that lets you train from your office.

For course descriptions, locations, and availability dates, visit

<http://www.ibm.com/training/>

Select "Training search - global" and search for "Intelligent Water" or call 800-IBM-TEACH (800-426-8322).

Offering Information

Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Also, visit the Passport Advantage® website

<http://www.ibm.com/software/passportadvantage>

Publications

A *Quick Start Guide* in PDF format is shipped with this product.

No printed publications are shipped with this product. The IBM Intelligent Operations Center information center provides an exhaustive set of product documentation. The information center is available at

<http://publib.boulder.ibm.com/infocenter/cities/v1r0m0/index.jsp>

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the US) or customer number for 50 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

Hardware requirements

IBM Intelligent Water incorporates IBM Intelligent Operations Center. For details, refer to Software Announcement [212-250](#), dated July 3, 2012.

Software requirements

IBM Intelligent Water includes IBM Intelligent Operations Center. Refer to Software Announcement [212-250](#), dated July 3, 2012.

In addition,

- The IBM Work Optimization for Water Utilities component requires:
 - A connection to a GIS to display map-based information and to enable map-based interaction. A GIS is also required to provide functions such as the time and distance matrix used by IBM Work Optimization for Water Utilities. IBM Intelligent Water is designed to support Environmental Systems Research Institute's (Esri) ArcGIS Version 10.0 with the ArcGIS for Server Network Extension. However, a service engagement can be used to enable alternative GIS applications.
 - Asset management data necessary to provide asset and operations input to the IBM Work Optimization for Water Utilities analytic and optimization engine
 - Customer usage information necessary to provide water consumption input to the Usage Analysis analytic tools
- The IBM Intelligent Operations for Water component requires:
 - Asset type, asset, and asset measurement data necessary to provide live asset and active measurement data to the Map and Details portlets
 - Key performance indicator input data necessary to provide function to the KPI and KPI Details portlets
 - Standard operating procedure input data necessary to provide functions to the My Activities portlet

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.

Planning information

Packaging

The products detailed in this announcement will be available in both ESD and packaged formats.

Physical media is delivered on DVDs.

Description	Part number	Product identifier
IBM Intelligent Operations for Water V1.5.0 Multilingual Media Pack	AF0CVML	5725-D71

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

IBM Intelligent Water uses the security and auditability features of the host operating system. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

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Product Group: Smarter Physical Infrastructure

Product identifier	Product identifier description
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5725-D71	IBM Intelligent Water
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Product Category: Smarter Cities

Charge metric

Program name	Charge metric
IBM Intelligent Operations for water	Per User Value Unit

User Value Unit (UVU)

UVU is a unit of measure by which the program can be licensed. UVU Proofs of Entitlement are based on the number and type of users for the given program. Licensee must obtain sufficient entitlements for the number of UVUs required for licensee's environment as specified in the program specific table. The UVU entitlements are specific to the program and type of user and may not be exchanged, interchanged, or aggregated with UVU entitlements of another program or type of user. Refer to the program specific UVU table.

The program in this announcement has Value Unit-based pricing.

Program number	Program name	value unit exhibit
5725-D71	IBM Intelligent water	103A

Passport Advantage

Program name/Description	Part number
IBM Intelligent Operations for Water V1.5.0 Multilingual Media Pack	AF0CVML
IBM Intelligent Operations for Water per UVU License and Service and Support 12 Months	D0T9CLL
IBM Intelligent Operations for Water per UVU Service and Support Reinstatement 12 Months	D0T9DLL
IBM Intelligent Operations for Water per UVU Annual Service and Support Renewal	E0EJULL

Value unit pricing

The pricing for IBM Intelligent Water is based on User Value Units (UVUs). The UVU scaling table is a step-tiered model, meaning that each quantity tier must be multiplied by the scaling factor for that tier, and the UVU quantity for each tier added together to calculate the total UVU quantity. Any fractional UVU totals are rounded up to the next whole number. UVU quantities must be calculated separately for each chargeable component. Your IBM representative can provide additional assistance in understanding the scaling process.

IBM Intelligent Water uses the Value Unit Exhibit (VUE) table 103A:

From 1 to 20 Users:	1 UVU per User
From 21 to 50 Users:	20 UVUs plus 0.83 UVUs per User above 20
From 51 to 100 Users:	45 UVUs plus 0.80 UVUs per User above 50
From 101 to 250 Users:	85 UVUs plus 0.76 UVUs per User above 100
From 251 to 500 Users:	199 UVUs plus 0.60 UVUs per User above 250
From 501 to 1,000 Users:	349 UVUs plus 0.50 UVUs per User above 500
From 1,001 to 5,000 Users:	599 UVUs plus 0.47 UVUs per User above 1,000
From 5,001 to 10,000 Users:	2,479 UVUs plus 0.40 UVUs per User above 5,000
From 10,001 to 25,000 Users:	4,479 UVUs plus 0.36 UVUs per User above 10,000
For more than 25,000 Users:	9,879 UVUs plus 0.33 UVUs per User above 25,000

Calculating User Value Units

The users taken into account for the purpose of UVU calculation is the total number of Concurrent Users who are accessing the program. A Concurrent User is a person who is accessing the program at any particular point in time. Regardless of whether the person is simultaneously accessing the program multiple times, the person counts only as a single Concurrent User. The program may be installed on any number of computers or servers, but Licensee must obtain User Value Unit entitlements sufficient to cover the maximum number of Concurrent Users simultaneously accessing the program in any manner directly or indirectly (for example: via a multiplexing program, device, or application server) through any means.

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License Information form number

Product identifier	Product name	License Instruction ID
5725-D71	IBM Intelligent Water	L-LBAR-8UEPZM

The program's License Information will be available for review on the IBM Software License Agreement Web site

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

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IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Passport Advantage applies

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<http://www.ibm.com/software/passportadvantage>

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered destroyed or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

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