IBM InfoSphere Information Server
Version 9 Release 1

Guide to Managing Operational Metadata

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IBM
Note

Before using this information and the product that it supports, read the information in “Notices and trademarks” on page 19.
Managing operational metadata from job runs

You can capture, store, and report on metadata that is generated when you run jobs that are created in IBM® InfoSphere® DataStage® and QualityStage® Designer.

Operational metadata

Operational metadata describes the events and processes that occur and the objects that are affected when you run a job that was created in IBM InfoSphere DataStage and QualityStage.

After you run a job, you can store and report on the following information about the job run:
- Whether the job run failed or had warnings
- Which database tables or files were read from, written to, or referenced
- How many rows were read, written to, or referenced
- When the job started and finished
- Which stages and links were used
- The project the job was in
- The computer that the job ran on
- Any runtime parameters that were used by the job
- The events that occurred during the run of the job, including the number of rows written and read on the links of the job.
- The invocation ID of the job
- Any notes about running the job

Generating and collecting operational metadata

Before you can collect operational metadata, you must enable operational metadata either for the project that contains the job or for the job itself. Then, whenever you run that job, an XML file is created that contains the operational metadata for the job run. When you run a sequence of jobs, a separate XML file is created for each job that runs.

Because operational metadata describes the reads and writes to and from a data source, it is not generated for stages that do not directly connect to data sources. For example, a row-generator stage does not generate operational metadata.

For jobs that run on Microsoft Windows, UNIX and Linux operating systems, these XML files are saved to the XmlFiles directory on the IBM InfoSphere Information Server engine that is used to run the job.
- On Windows operating systems, the XML files are saved to IBM\InformationServer\ASBNode\conf\etc\XmlFiles.
- On UNIX and Linux operating systems, the XML files are saved to opt/IBM/InformationServer/ASBNode/conf/etc/XmlFiles.

If you run jobs on a mainframe computer, you use FTP to copy the XML files to the appropriate XmlFiles directory on the Windows, UNIX, or Linux computer that hosts the InfoSphere Information Server engine.
For detailed instructions on collecting operational metadata from mainframe jobs, see IBM InfoSphere DataStage Mainframe Job Developer’s Guide.

**Importing and managing operational metadata**

To import the operational metadata into the metadata repository of InfoSphere Information Server, you configure and invoke the Run Importer utility. The Run Importer utility imports the contents of all XML files in the XmlFiles directory into the repository, and then deletes the files from the XmlFiles directory or moves them to a directory of your choice.

You can use IBM InfoSphere Metadata Workbench to analyze and report on the operational metadata that you created and to ensure that the operational metadata is correctly linked to its corresponding design metadata. For more information, see IBM InfoSphere Metadata Workbench User’s Guide.

You can create reports on the operational metadata in the Reporting tab of IBM InfoSphere Information Server Web console.

When you no longer need the operational metadata, you can delete it from the repository.

**Related concepts:**

- “Job run reports” on page 9
  You can create reports on runs of IBM InfoSphere DataStage and QualityStage jobs for which you have collected operational metadata. You use the reports to view details of the job runs, including the final status of the run, the rows that were read and written, and the tables that were touched by the run.

**Related tasks:**

- “Enabling operational metadata at the project level”
  You can enable operational metadata for all jobs in a project by using IBM InfoSphere DataStage and QualityStage Administrator.

- “Enabling operational metadata at the job level” on page 3
  You can override project-level settings and enable or disable operational metadata for individual jobs.

- “Configuring import settings” on page 4
  You configure the Run Importer utility to import operational metadata into the repository of IBM InfoSphere Information Server, so that you can store and report on the metadata.

- “Importing operational metadata” on page 8
  You can import operational metadata into the repository by running the Run Importer utility.

- “Deleting operational metadata from the repository” on page 10
  You can delete operational metadata from the repository. You can delete the metadata for a single job run or for all jobs that ran in a specified range of dates.

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**Enabling operational metadata at the project level**

You can enable operational metadata for all jobs in a project by using IBM InfoSphere DataStage and QualityStage Administrator.

**Before you begin**

You must have the DataStage and QualityStage Administrator role.
Procedure
1. Double-click the desktop icon to open the Administrator client.
2. On the Projects tab, select the project that you want to generate operational metadata for and click Properties.
3. Enable operational metadata:
   - For parallel and server jobs, click the General tab and select Generate operational metadata.
   - For mainframe jobs, click the Mainframe tab and select Generate operational metadata.
4. Click OK.

What to do next
Whenever you run a job that is in the project, operational metadata is generated. You can override this project-level setting for individual jobs within the project:
- For parallel and server jobs, you can override the default project-level setting before you run a job in IBM InfoSphere DataStage and QualityStage Director.
- For mainframe jobs, you can override the default project-level setting in the Job Properties window of IBM InfoSphere DataStage and QualityStage Designer.

Related concepts:
- “Operational metadata” on page 1
Operational metadata describes the events and processes that occur and the objects that are affected when you run a job that was created in IBM InfoSphere DataStage and QualityStage.

Related tasks:
- “Configuring import settings” on page 4
You configure the Run Importer utility to import operational metadata into the repository of IBM InfoSphere Information Server, so that you can store and report on the metadata.
- “Importing operational metadata” on page 8
You can import operational metadata into the repository by running the Run Importer utility.

Enabling operational metadata at the job level
You can override project-level settings and enable or disable operational metadata for individual jobs.

Procedure
In the Designer client or Director client, select Generate operational metadata.

<table>
<thead>
<tr>
<th>For this job type</th>
<th>Select the option here</th>
</tr>
</thead>
<tbody>
<tr>
<td>parallel or server</td>
<td>On the General tab of the Job Run Options window in the Director client.</td>
</tr>
<tr>
<td>mainframe</td>
<td>On the General tab of the Job Properties window in the Designer client.</td>
</tr>
</tbody>
</table>
What to do next

If operational metadata is enabled at the project level, you can disable it for individual jobs by clearing the selection.

Related concepts:
“Operational metadata” on page 1
Operational metadata describes the events and processes that occur and the objects that are affected when you run a job that was created in IBM InfoSphere DataStage and QualityStage.

Configuring import settings

You configure the Run Importer utility to import operational metadata into the repository of IBM InfoSphere Information Server, so that you can store and report on the metadata.

Before you begin

Before you can import operational metadata into the repository, you must edit the runimport.cfg file.

Procedure

1. In a text editor, open the configuration file for the Run Importer utility on the InfoSphere Information Server engine that the job runs on.
   • On Microsoft Windows operating systems, open runimport.cfg in the directory IBM\InformationServer\ASBNode\conf.
   • On UNIX and Linux operating systems open runimport.cfg.unix in the directory opt/IBM/InformationServer/ASBNode/conf.

2. Delete any other characters after the text User=, and type the user name of a user with the Operational Metadata Administrator role.

3. Type the password for the user:
   • If no password is specified in the file, delete any other characters after the text Password=, and type the password. When you run the Run Importer utility, the password is encrypted.
   • To change the password, change the text EncryptedPassword=, to Password=, delete the encrypted password, and type a new password.

4. Delete any characters after the text HostNameForAuthentication= and type the name of the computer that hosts the metadata repository of InfoSphere Information Server.

5. If your environment does not use the default port number of 9080 for the host computer, change the port number.

6. Optional: Specify values for other parameters in the configuration file, including logging options and options for deleting or moving XML files. For example, to increase the speed of a particular import, you can set the JobRunsPerSave parameter to 10 to increase performance without exceeding the amount of available memory.

7. Save the file. On UNIX and Linux operating systems, remove the .unix suffix and save the file as runimport.cfg.

What to do next

You can now run the Run Importer utility to import operational metadata.
Related concepts:

“Operational metadata” on page 1
Operational metadata describes the events and processes that occur and the objects that are affected when you run a job that was created in IBM InfoSphere DataStage and QualityStage.

Related tasks:

“Enabling operational metadata at the project level” on page 2
You can enable operational metadata for all jobs in a project by using IBM InfoSphere DataStage and QualityStage Administrator.

“Importing operational metadata” on page 8
You can import operational metadata into the repository by running the Run Importer utility.

Related reference:

“Parameter values for the Run Importer utility”
Use the file runimport.cfg on Microsoft Windows platforms or the runimport.cfg.unix file on UNIX and Linux platforms to specify authentication and logging information for importing operational metadata. You can also specify actions to be taken after the import process is completed.

Parameter values for the Run Importer utility
Use the file runimport.cfg on Microsoft Windows platforms or the runimport.cfg.unix file on UNIX and Linux platforms to specify authentication and logging information for importing operational metadata. You can also specify actions to be taken after the import process is completed.

File structure
The files runimport.cfg and runimport.cfg.unix contain multiple parameters for which you can type values. Lines that begin with the number sign (#) are comments, not part of the configuration code. If a parameter is preceded by a number sign, remove the number sign before you specify a value. Remove any brackets and text from the area after the equal sign (=) before you type a value.

Logging, authentication, and schema parameters

Log Enables or disables logging of operational metadata import. When Log is set to True, a log file is automatically created. The log file contains connection information, error messages, and a list of XML files that are successfully imported into the repository. The default value is True.

RotateLogFiles Specifies whether to use a single log file or multiple log files. If logging is enabled, when RotateLogFiles is set to True, a new log file with a different name is created every time the Run Importer is started. When RotateLogFiles is set to False, new information is appended to a single log file. The default value is True.

LogDirectory Specifies the file system subdirectory where Run Importer log files are stored if logging is enabled. The default value is \IBM\InformationServer\ASBNode\conf on Windows platforms and opt/IBM/InformationServer/ASBNode/conf on UNIX and Linux platforms.

XSDdirectory Specifies the location of the XML schema file ProcessMetadata.xsd. The
default value is `\IBM\InformationServer\ASBNode\conf` on Windows platforms and `opt/IBM/InformationServer/ASBNode/conf` on UNIX and Linux computers.

**LogTypeMask**
Filters the information that is included in log files. **LogTypeMask** is like a bit mask. To include some but not all categories of information, add the numbers that correspond to the categories of information that you want to include. Type the total number as a value for **LogTypeMask**.

Log event categories:
- 1 – Error messages
- 2 – Warning messages
- 4 – Progress and general information
- 8 – Statistics on the number of runs that are processed and the time that it takes to process each run

By default, information from all categories is included, and LogTypeMask=15, because 15 is the sum of 1+2+4+8. For example, to send only error messages and progress messages to the log file, set LogTypeMask=5.

**User**
The user name required to access the metadata repository of IBM InfoSphere Information Server. The user must have the role of Operational Metadata Administrator.

**Password**

**EncryptedPassword**
The password required to access the metadata repository of InfoSphere Information Server. The parameter name is **Password** until the Run Importer runs and uses a specified value for the password. When the Run Importer runs, the password is passed to the authentication service, which determines if the user has the required role. The parameter name is changed to **EncryptedPassword** and the password is encrypted. To change passwords after the password is encrypted, change the parameter name to **Password** and enter a new password.

**HostNameForAuthentication**
The name of the computer that hosts the metadata repository of InfoSphere Information Server.

**PortNumber**
The name of the port to use on the host computer. The default is 9080. If you have clustered environment, change the default value to the correct value for your environment.

**Performance tuning parameter**

**JobRunsPerSave**
Specifies how many job runs are saved to the repository at a single time. By default, the Run Importer processes the XML file for a single job run and then saves it to the repository before processing the next job run file. If you set the value of **JobRunsPerSave** to a number higher than 1, you can gain performance at the cost of memory consumption. For example, you can increase the speed of an import by setting the value of **JobRunsPerSave** to the number of XML files that you are importing. A value of 10 can improve performance without using too much memory.
User action parameters

User actions are command-line orders that can be executed while the Run Importer is working. For example, you can send e-mail or you can copy files. User actions are commented out in the configuration files. To implement them, you must remove the number sign (#) from in front of the specified parameter. Then you must type the appropriate command for your purposes. You can use macro variables in some commands.

WaitForUserActions
Specifications whether to run user actions in series or in parallel. If WaitForUserActions is set to True, the Run Importer waits for the completion of each user action before starting the next user action. If WaitForUserActions is set to False, the Run Importer runs user actions in parallel.

FileFailedAction
Invoked when the import of an XML job run file fails. You can use the $FILE macro variable, which contains the XML file name and full path. For example, on Windows platforms FileFailedAction=cmd /C "$FILE" bad copies the file into a subdirectory named bad. The subdirectory must exist before you run the import. If the path to the target folder contains a space, put the path name in quotation marks (").

FileSucceededAction
Invoked when the import of an XML job run file succeeds. You can use the $FILE macro variable, which contains the XML file name and full path. By default this command is set to delete files that have been successfully imported so that the Run Importer does not import them again the next time it is invoked. However, you can change the command to instead copy the files to another directory. For example, on Windows platforms FileSucceededAction=cmd /C copy "$FILE" good copies the file into a subdirectory named good. The subdirectory must exist before you run the import. If the path to your target folder contains a space, you must put the path name in quotation marks (").

SessionSucceededAction
Invoked when the Run Importer finishes importing files if there were no errors during the session. For example, on Windows platforms SessionSucceededAction=net send adminpc Operational metadata import successful sends a success message to adminpc.

SessionFailedAction
Invoked when the Run Importer finishes importing files if there were errors during the session. For example, on Windows platforms SessionFailedAction=net send adminpc Operational metadata import had session errors sends a message to the administrator on adminpc that there were problems with the import.

GeneralProblemAction
Invoked when the Run Importer produces error messages that include file system access problems and memory problems. You can use the $TEXT macro variable, which contains a brief description of the problem. For example on Windows platforms GeneralProblemAction=net send adminpc Run Importer problem: $TEXT. Examine the log file for more information about the errors.
Saving the file on UNIX and Linux systems

After you edit the runimport.cfg.unix file, save the file as runimport.cfg.

Related tasks:
“Configuring import settings” on page 4

You configure the Run Importer utility to import operational metadata into the repository of IBM InfoSphere Information Server, so that you can store and report on the metadata.

Importing operational metadata

You can import operational metadata into the repository by running the Run Importer utility.

Before you begin

- You must enable operational metadata for a project or job.
- For mainframe jobs, you must enable FTP, and specify connection details for the IBM InfoSphere Information Server engine.
- You must run at least one job after operational metadata is enabled.
- You must configure the Run Importer utility to include the user name and password of a suite user who has the role of Operational Metadata Administrator.

About this task

You can use a scheduling tool to import operational metadata daily, or at the frequency that is appropriate for your enterprise. You can also use a scheduling tool when you delete operational metadata from the repository.

Procedure

From the command line, invoke the Run Importer utility on the InfoSphere Information Server engine.

- On Microsoft Windows operating systems, run RunImportStart.bat in the directory IBM\InformationServer\ASBNode\bin.
- On UNIX and Linux operating systems run RunImportStart.sh in the directory opt/IBM/InformationServer/ASBNode/bin.

Results

The Run Importer utility processes the XML files and imports the metadata into the repository.

If you try to import an XML file that has previously been imported, the Run Importer does not import the file but raises an error and continues to process the other files in the XmlFiles folder. An error message in the log file lists name of the file that was not imported and the activity ID of the duplicate file that was previously imported.

By default, files in the XmlFiles directory are deleted after they are imported. To change the default to copy the imported XML files to another directory after they are processed, you can edit the value of the FileSucceededAction parameter in the file runimport.cfg.
Related concepts:
“Operational metadata” on page 1
Operational metadata describes the events and processes that occur and the objects that are affected when you run a job that was created in IBM InfoSphere DataStage and QualityStage.

“Job run reports”
You can create reports on runs of IBM InfoSphere DataStage and QualityStage jobs for which you have collected operational metadata. You use the reports to view details of the job runs, including the final status of the run, the rows that were read and written, and the tables that were touched by the run.

Related tasks:
“Configuring import settings” on page 4
You configure the Run Importer utility to import operational metadata into the repository of IBM InfoSphere Information Server, so that you can store and report on the metadata.

“Deleting operational metadata from the repository” on page 10
You can delete operational metadata from the repository. You can delete the metadata for a single job run or for all jobs that ran in a specified range of dates.

“Enabling operational metadata at the project level” on page 2
You can enable operational metadata for all jobs in a project by using IBM InfoSphere DataStage and QualityStage Administrator.

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### Job run reports

You can create reports on runs of IBM InfoSphere DataStage and QualityStage jobs for which you have collected operational metadata. You use the reports to view details of the job runs, including the final status of the run, the rows that were read and written, and the tables that were touched by the run.

In the **Reporting** tab of the InfoSphere Information Server Web console, you can use the Job Run report template to create reports that show the following information for a job:

- The names of the job design, the compiled job design, and the project that contains the job design
- For each run of the job, the start and end time, the total run time, the final status, any parameters that were used, and the invocation ID
- For each read or write event in the job, the number of rows that were read and written, the time of the event, the stage and link, the source and target files or databases

You must meet the following requirements to create and run job run reports:

- You must enable operational metadata at the project level in InfoSphere DataStage and QualityStage Administrator, or enable operational metadata at the job level in the Designer client for parallel and server jobs, or in the Director client for mainframe jobs.
- You must run the job.
- After running the job, you must invoke the Run Importer utility to import the operational metadata into the repository of.
- To create and run the report, you must have the Operational Metadata Analyst role.
- To view the report, you must have the Operational Metadata User role.
For more information about creating reports in the Web console, see *IBM InfoSphere Information Server Reporting Guide*.

You can use IBM InfoSphere Metadata Workbench to analyze and report on the operational metadata that you created and to ensure that the operational metadata is correctly linked to its corresponding design metadata. For more information, see *IBM InfoSphere Metadata Workbench User’s Guide*.

**Related concepts:**

“Operational metadata” on page

Operational metadata describes the events and processes that occur and the objects that are affected when you run a job that was created in IBM InfoSphere DataStage and QualityStage.

**Related tasks:**

“Importing operational metadata” on page

You can import operational metadata into the repository by running the Run Importer utility.

“Enabling operational metadata at the project level” on page

You can enable operational metadata for all jobs in a project by using IBM InfoSphere DataStage and QualityStage Administrator.

“Enabling operational metadata at the job level” on page

You can override project-level settings and enable or disable operational metadata for individual jobs.

### Deleting operational metadata from the repository

You can delete operational metadata from the repository. You can delete the metadata for a single job run or for all jobs that ran in a specified range of dates.

**Before you begin**

To delete a single job run, you must first find the activity ID of the job run.

**About this task**

If you run many jobs each day, you might want to delete operational metadata regularly to reduce the size of the repository. You can configure the file PurgeJobRuns.bat to delete a specified job run or to delete a sequence of job runs. You can use a scheduling tool to run the process.

**Procedure**

1. In a text editor, open the file PurgeJobRuns.bat on Microsoft Windows operating systems, or PurgeJobRuns.sh on UNIX or Linux operating systems. This file is in the directory IBM\InformationServer\ASBNode\bin on Windows and in the directory opt/IBM/InformationServer/ASBNode/bin on UNIX or Linux, on the IBM InfoSphere Information Server engine.

2. At the end of the text in the file, type the appropriate command to delete operational metadata for one or more job runs:
   
   • To delete operational metadata for a single job run, type the **-activityID** command followed by the activity ID of the run in quotation marks, for example **-activityID "multilink 2006-06-19 00:00:03"**. You can specify only one activity ID.
   
   • To delete operational metadata for all jobs that ran in a range of dates, type the **-beginDate** command, followed by the beginning date of the range, in
the format YYYY-MM-DD, followed by the -endDate command, followed by the last date in the range, for example -beginDate 2006-06-07 -endDate 2006-06-20. This command deletes operational metadata for jobs that ran on the beginning date, ending date, and all days in the range.

3. Change the values for -user and -password to the credentials for a user who has the role of Operational Metadata Analyst or Operational Metadata Administrator.

4. If necessary, change the default values for -hostName and -portNumber to match your environment.

5. Save the file.

6. From the command line, run the file.

Results

The operational metadata for the specified run or runs is deleted from the repository.

Related concepts:
[“Operational metadata” on page 1]

Operational metadata describes the events and processes that occur and the objects that are affected when you run a job that was created in IBM InfoSphere DataStage and QualityStage.

Related tasks:
[“Importing operational metadata” on page 8]

You can import operational metadata into the repository by running the Run Importer utility.

Finding the activity IDs of job runs

You can create a list of the activity IDs of all job runs in the repository so that you can delete the operational metadata for specific job runs.

About this task

An activity ID is the combination of job name and time stamp.

Procedure

1. In a text editor, open the file GetJobRuns.bat on Windows operating systems, or GetJobRuns.sh on UNIX or Linux operating systems. This file is in the directory IBM\InformationServer\ASBNode\bin on Windows and in the directory opt/IBM/InformationServer/ASBNode/bin on UNIX or Linux, on the IBM InfoSphere Information Server engine.

2. Near the end of the text in the file, after the -getJobRuns option, type the file name and path for a text file to hold the list of activity IDs, for example, -getJobRuns C:\temp\job_run_IDS.txt.

3. Change the values for -user and -password to the credentials for a user who has the role of Operational Metadata Analyst or Operational Metadata Administrator.

4. If necessary, change the default values for -hostName and -portNumber to match your environment.

5. Save the file.

6. From the command line, run the file.
Results

A list of activity IDs for all job runs is written to the specified text file.

What to do next

You must specify the activity ID of a job run when you delete a specific job run from the repository.

Related concepts:

“Operational metadata” on page 1

Operational metadata describes the events and processes that occur and the objects that are affected when you run a job that was created in IBM InfoSphere DataStage and QualityStage.
Appendix A. Product accessibility

You can get information about the accessibility status of IBM products.

The IBM InfoSphere Information Server product modules and user interfaces are not fully accessible. The installation program installs the following product modules and components:

- IBM InfoSphere Business Glossary
- IBM InfoSphere Business Glossary Anywhere
- IBM InfoSphere DataStage
- IBM InfoSphere FastTrack
- IBM InfoSphere Information Analyzer
- IBM InfoSphere Information Services Director
- IBM InfoSphere Metadata Workbench
- IBM InfoSphere QualityStage

For information about the accessibility status of IBM products, see the IBM product accessibility information at [http://www.ibm.com/able/product_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html).

**Accessible documentation**

Accessible documentation for InfoSphere Information Server products is provided in an information center. The information center presents the documentation in XHTML 1.0 format, which is viewable in most Web browsers. XHTML allows you to set display preferences in your browser. It also allows you to use screen readers and other assistive technologies to access the documentation.

The documentation that is in the information center is also provided in PDF files, which are not fully accessible.

**IBM and accessibility**

See the [IBM Human Ability and Accessibility Center](http://www.ibm.com/able/) for more information about the commitment that IBM has to accessibility.
Appendix B. Contacting IBM

You can contact IBM for customer support, software services, product information, and general information. You also can provide feedback to IBM about products and documentation.

The following table lists resources for customer support, software services, training, and product and solutions information.

Table 1. IBM resources

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description and location</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Support Portal</td>
<td>You can customize support information by choosing the products and the topics that interest you at <a href="http://www.ibm.com/support/entry/portal/Software/Information_Management/InfoSphere_InfoSphere_Information_Server">www.ibm.com/support/entry/portal/Software/Information_Management/InfoSphere_InfoSphere_Information_Server</a></td>
</tr>
<tr>
<td>Software services</td>
<td>You can find information about software, IT, and business consulting services, on the solutions site at <a href="http://www.ibm.com/businesssolutions/">www.ibm.com/businesssolutions/</a></td>
</tr>
<tr>
<td>My IBM</td>
<td>You can manage links to IBM Web sites and information that meet your specific technical support needs by creating an account on the My IBM site at <a href="http://www.ibm.com/account/">www.ibm.com/account/</a></td>
</tr>
<tr>
<td>Training and certification</td>
<td>You can learn about technical training and education services designed for individuals, companies, and public organizations to acquire, maintain, and optimize their IT skills at <a href="http://www.ibm.com/software/sw-training/">http://www.ibm.com/software/sw-training/</a></td>
</tr>
</tbody>
</table>
Appendix C. Accessing and providing feedback on the product documentation

Documentation is provided in a variety of locations and formats, including in help that is opened directly from the product client interfaces, in a suite-wide information center, and in PDF file books.

The information center is installed as a common service with IBM InfoSphere Information Server. The information center contains help for most of the product interfaces, as well as complete documentation for all the product modules in the suite. You can open the information center from the installed product or from a Web browser.

Accessing the information center

You can use the following methods to open the installed information center.

• Click the Help link in the upper right of the client interface.

  Note: From IBM InfoSphere FastTrack and IBM InfoSphere Information Server Manager, the main Help item opens a local help system. Choose Help > Open Info Center to open the full suite information center.

• Press the F1 key. The F1 key typically opens the topic that describes the current context of the client interface.

  Note: The F1 key does not work in Web clients.

• Use a Web browser to access the installed information center even when you are not logged in to the product. Enter the following address in a Web browser: http://host_name:port_number/infocenter/topic/com.ibm.swg.im.iis.productization.iisinfsv.home.doc/ic-homepage.html. The host_name is the name of the services tier computer where the information center is installed, and port_number is the port number for InfoSphere Information Server. The default port number is 9080. For example, on a Microsoft® Windows® Server computer named iisdocs2, the Web address is in the following format: http://iisdocs2:9080/infocenter/topic/com.ibm.swg.im.iis.productization.iisinfsv.nav.doc/dochome/iisinfsrv_home.html.

A subset of the information center is also available on the IBM Web site and periodically refreshed at http://publib.boulder.ibm.com/infocenter/iisinfsv/v8r7/index.jsp.

Obtaining PDF and hardcopy documentation

• A subset of the PDF file books are available through the InfoSphere Information Server software installer and the distribution media. The other PDF file books are available online and can be accessed from this support document: https://www.ibm.com/support/docview.wss?uid=swg27008803&wv=1.

• You can also order IBM publications in hardcopy format online or through your local IBM representative. To order publications online, go to the IBM Publications Center at http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss.

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Providing comments on the documentation

Your feedback helps IBM to provide quality information. You can use any of the following methods to provide comments:

- To comment on the information center, click the Feedback link on the top right side of any topic in the information center.
- Send your comments by using the online readers' comment form at www.ibm.com/software/awdtools/rcf/
- Send your comments by e-mail to comments@us.ibm.com. Include the name of the product, the version number of the product, and the name and part number of the information (if applicable). If you are commenting on specific text, include the location of the text (for example, a title, a table number, or a page number).
- You can provide general product feedback through the Consumability Survey at www.ibm.com/software/data/info/consumability-survey
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