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Preface

The Proactive Monitoring for Data Quality Solutions Guide describes the solution provided for proactively monitoring Data Quality operations. This guide also contains how to install and configure Proactive Monitoring for Data Quality.

The Proactive Monitoring for Data Quality Solutions Guide is written for data quality developers, analysts, and system administrators. This guide assumes that you have an understanding of data quality concepts, flat file and relational database concepts, and the database engines in your environment to install and deploy Proactive Monitoring for Data Quality 2.0.

Informatica Resources

Informatica My Support Portal


The site contains product information, user group information, newsletters, access to the Informatica customer support case management system (ATLAS), the Informatica How-To Library, the Informatica Knowledge Base, Informatica Product Documentation, and access to the Informatica user community.

Informatica Documentation

The Informatica Documentation team takes every effort to create accurate, usable documentation. If you have questions, comments, or ideas about this documentation, contact the Informatica Documentation team through email at infa_documentation@informatica.com. We will use your feedback to improve our documentation. Let us know if we can contact you regarding your comments.

The Documentation team updates documentation as needed. To get the latest documentation for your product, navigate to Product Documentation from http://mysupport.informatica.com.

Informatica Web Site

You can access the Informatica corporate web site at http://www.informatica.com. The site contains information about Informatica, its background, upcoming events, and sales offices. You will also find product and partner information. The services area of the site includes important information about technical support, training and education, and implementation services.
Informatica How-To Library

As an Informatica customer, you can access the Informatica How-To Library at http://mysupport.informatica.com. The How-To Library is a collection of resources to help you learn more about Informatica products and features. It includes articles and interactive demonstrations that provide solutions to common problems, compare features and behaviors, and guide you through performing specific real-world tasks.

Informatica Knowledge Base

As an Informatica customer, you can access the Informatica Knowledge Base at http://mysupport.informatica.com. Use the Knowledge Base to search for documented solutions to known technical issues about Informatica products. You can also find answers to frequently asked questions, technical white papers, and technical tips. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team through email at KB_Feedback@informatica.com.

Informatica Support YouTube Channel

You can access the Informatica Support YouTube channel at http://www.youtube.com/user/INFASupport. The Informatica Support YouTube channel includes videos about solutions that guide you through performing specific tasks. If you have questions, comments, or ideas about the Informatica Support YouTube channel, contact the Support YouTube team through email at supportvideos@informatica.com or send a tweet to @INFASupport.

Informatica Marketplace

The Informatica Marketplace is a forum where developers and partners can share solutions that augment, extend, or enhance data integration implementations. By leveraging any of the hundreds of solutions available on the Marketplace, you can improve your productivity and speed up time to implementation on your projects. You can access Informatica Marketplace at http://www.informaticamarketplace.com.

Informatica Velocity

You can access Informatica Velocity at http://mysupport.informatica.com. Developed from the real-world experience of hundreds of data management projects, Informatica Velocity represents the collective knowledge of our consultants who have worked with organizations from around the world to plan, develop, deploy, and maintain successful data management solutions. If you have questions, comments, or ideas about Informatica Velocity, contact Informatica Professional Services at ips@informatica.com.

Informatica Global Customer Support

You can contact a Customer Support Center by telephone or through the Online Support.

Online Support requires a user name and password. You can request a user name and password at http://mysupport.informatica.com.

Chapter 1

Introduction to Proactive Monitoring for Data Quality

This chapter includes the following topics:

- Proactive Monitoring for Data Quality Solutions Overview, 1
- Solution Capabilities, 1

Proactive Monitoring for Data Quality Solutions Overview

Informatica Data Quality and Informatica Analyst users can proactively monitor and identify data quality issues to ensure the consistency and completeness of data.

The Proactive Monitoring for Data Quality solution identifies data that differ from the expected trend by a certain percentage or deviation. A set of pre-configured, prepackaged sources, rules, and alert rules are provided with this solution. These rules perform completeness and conformity checks on data used by Informatica Analyst Tool for column profiling. When RulePoint detects events that match the conditions specified in a rule, it sends alerts to the users specified in Real-Time Alert Manager.

The proactive monitoring and alert operation is performed by the complex event processing products, Informatica RulePoint and Informatica Real-Time Alert Manager.

For more information about Informatica RulePoint and Real-Time Alert Manager, see the documentation for these products.

Solution Capabilities

Data analysts can automate monitoring tasks for Informatica Data Quality.

When incorrect or poor data is used in profiling and analyzing large sets of data, the downstream processes that rely on the data will generate inaccurate results. Manual checking or custom scripts to check for problems with data quality is time consuming and labor intensive.

Proactive monitoring contains extensible rules and templates that you can modify to meet your data quality requirements. The data analyst or business user will receive an alert when data that matches the rule is detected. Alerts include a link to the Informatica Analyst with the details of the data quality issue.
The proactive monitoring solution offers the following advantages for an Informatica Data Quality analyst:

**Accelerate Data Quality deployment**

You can augment and accelerate your Informatica Data Quality deployment with proactive data quality monitoring capabilities. The monitoring solution delivers alerts for faster responses when data quality thresholds are exceeded. It is a cost-effective method to mitigate the negative impact of poor or questionable data on your applications and processes.

**Proactively monitor thresholds**

The solution monitors and sends alerts if the data quality values exceed a certain threshold. For example, the monitoring solution evaluates the null count against a specified threshold, percentage of uniqueness against a supplied minimum threshold percent, and the count of unique patterns against a supplied maximum pattern count threshold.

**Improve data quality continually**

You can monitor various data quality metrics and compare historical values to improve data quality continually and operate more efficiently.

**Customize templates and rules**

You can define new template rules using the existing templates based on your monitoring requirements. The monitoring solution contains pre-built rules for self-service editing and tuning, along with the tools for creating new-rules, which helps organizations scale and manage rules consistently.
CHAPTER 2

Monitoring a PowerCenter Environment

This chapter includes the following topics:

- Introduction to Complex Event Processing, 3
- Solution Architecture, 4

Introduction to Complex Event Processing

Proactive Monitoring for Data Quality leverages complex event processing product, Informatica RulePoint, to process and analyze Informatica Analyst profiling events. RulePoint can monitor or listen in near-real time to data across diverse sources.

RulePoint is a complex event processing software platform that you can use to identify patterns in real-time event flows and batch data to proactively alert people, systems and processes.

You can integrate multiple types of data sources seamlessly with RulePoint. Data sources are exposed to rule writers as topics. RulePoint users can use multiple modes, from simple templates to advanced rules that describe patterns that they want identified.

When events match the specified patterns, RulePoint sends alerts based on the configured responses. Responses are delivered to recipients through email or dashboards and into systems. The responses contain details of the error or event. You can customize additional sources and responses through the SDK.

RulePoint Architecture

RulePoint monitors specified data streams for predetermined events and then acts on those events with the configured rules.

RulePoint uses services, which are configurable interfaces that link to another software system, to collect information from relevant streams of data flowing from different data sources. Each piece of information is
referred to as an event. These events are published into RulePoint and grouped into categories familiar to and defined by users, which are referred to as topic.

RulePoint then uses other services to coordinate responses to those events based on user-defined event processing rules. A rule encapsulates the business logic of analyzing event data from multiple sources to detect specific events based on logical conditions, and then responds to the appropriate party with the proper information.

Users can create and modify rules themselves, ensuring that an organization’s responsiveness to changing conditions is not hindered by the traditional software development cycle.

When RulePoint detects events that match the conditions specified in a rule, it executes the response specified in the rule. These responses can be simple, such as sending an email, instant message, or text message, or complex, such as updating a database, triggering a web service, initiating other processes across the enterprise, or creating new events used by other rules.

Solution Architecture

The proactive monitoring solution works with your Informatica Analyst environment with minimum configuration requirements. Predefined RulePoint services integrate with the Profiling Warehouse.

The proactive monitoring solution is a RulePoint application which runs on a Java application server. The application server and RulePoint are installed on a machine, separate from the Informatica Data Quality
installation. Through a Web browser, you can access and manage data sources, users, rule writing, and alert definitions.

The following illustration shows the solution architecture:

![Solution Architecture Diagram]

The proactive monitoring solution runs on a RulePoint instance and connects to the Profiling Warehouse to collect profiling statistics and scorecard data.

The alert information is displayed in the Real-Time Alert Manager dashboard.

**Solution Contents**

The proactive monitoring solution contains RulePoint objects, and database scripts, to quickly configure and monitor the Informatica Data Quality Profiling Warehouse.

The installation program installs the required components on the specified RulePoint instance and configures all RulePoint objects, such as pre-defined sources, topics, connections, templates, advanced rules, template rules, SQL analytics, watchlists, responders, and responses.

The following users are configured by default with the proactive monitoring solution:

**dquser**

Any data quality user or subject matter expert.

**dqmonitor**

Any user who receives alerts for data quality issues detected by the monitoring solution.
This chapter includes the following topics:

- Installation and Configuration Overview, 6
- Before You Install, 6
- Installing Proactive Monitoring for Data Quality, 7
- After You Install, 9
- Validating the Installation, 9
- Configured Channels in Real-Time Alert Manager, 10

Installation and Configuration Overview

You can install the Proactive Monitoring for Data Quality 2.0 on a Windows, Linux, Solaris, or AIX machine. Complete the pre-installation tasks to prepare for the installation.

Before You Install

Before you install Proactive Monitoring for Data Quality, ensure to meet the minimum software and hardware requirements.

Complete the following prerequisites before you install Proactive Monitoring for Data Quality:

- Install RulePoint 6.1 in $RULEPOINT_HOME.
  
  $RULEPOINT_HOME is the path of the RulePoint installation directory.
Verify System Requirements

The following table lists the platforms supported by Proactive Monitoring for Data Quality:

<table>
<thead>
<tr>
<th>Domain</th>
<th>Supported Platforms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Systems</td>
<td>- Windows</td>
</tr>
<tr>
<td></td>
<td>- Linux</td>
</tr>
<tr>
<td></td>
<td>- Solaris</td>
</tr>
<tr>
<td></td>
<td>- AIX</td>
</tr>
<tr>
<td>Database Servers</td>
<td>- Oracle</td>
</tr>
<tr>
<td></td>
<td>- IBM DB2</td>
</tr>
<tr>
<td></td>
<td>- Microsoft SQL Server</td>
</tr>
<tr>
<td>Recommended Hardware Requirements</td>
<td>- 64-bit Intel or AMD-compatible, Xeon equivalent or</td>
</tr>
<tr>
<td></td>
<td>better, 1.7 Ghz minimum CPU</td>
</tr>
<tr>
<td></td>
<td>- 12-16 GB RAM</td>
</tr>
<tr>
<td></td>
<td>- 5-10 GB application disk space</td>
</tr>
<tr>
<td></td>
<td>- 1 GB Ethernet network connection</td>
</tr>
<tr>
<td>Informatica RulePoint</td>
<td>RulePoint 6.1</td>
</tr>
<tr>
<td>Informatica PowerCenter</td>
<td>Informatica PowerCenter 9.1.0 and above</td>
</tr>
</tbody>
</table>

For more information about product requirements and supported platforms, see the Product Availability Matrix on the Informatica My Support Portal:
https://mysupport.informatica.com/community/my-support/product-availability-matrices

Installing Proactive Monitoring for Data Quality

You can install Proactive Monitoring for Data Quality on Windows, Linux, Solaris, or AIX.

1. Create a database user for Informatica Analyst Service Profiling Warehouse with read-only permission.
   The installation package has the database scripts to create the Profiling Warehouse read-only user with the required privileges for the databases. The database administrator must run these scripts.
   Use one of the following files to create the read-only user, and grant privileges according to the database repository:
   - Oracle: ..\DQPM\ddl\oracle\create_user_dis_wh_ro.ddl.sql
   - IBM DB2: ..\DQPM\ddl\db2\create_user_dis_wh_ro.ddl.sql
   - Microsoft SQL Server: ..\DQPM\ddl\mssql\create_user_dis_wh_ro.ddl.sql

2. Create views and synonyms on the repository database.
   The installation package has the scripts to create the views and synonyms. The database user must run these scripts.
   a. Log in as dis_wh_ro or the selected user.
b. Use one of the following files to create views and synonyms according to the repository database type:
   - **Oracle:** ..\DQPM\ddl\oracle\dis_wh_ro.ddl.sql
   - **IBM DB2:** ..\DQPM\ddl\db2\dis_wh_ro.ddl.sql
   - **Microsoft SQL Server:** ..\DQPM\ddl\mssql\dis_wh_ro.ddl.sql

3. Import the XML files to RulePoint.
   You need the XML files to import the custom services of Proactive Monitoring for Data Quality to RulePoint. Import the RulePoint objects using one of the following XML files for the Profiling Warehouse that you want to monitor:
   - **Oracle:** ..\DQPM\exports\rulepoint\PMDQ_oracle_v2_0.xml
   - **IBM DB2:** ..\DQPM\exports\rulepoint\PMDQ_db2_v2_0.xml
   - **Microsoft SQL Server:** ..\DQPM\exports\rulepoint\PMDQ_mssql_v2_0.xml

To import the XML files to a project in RulePoint, perform the following tasks:
   a. Log in to RulePoint using the administrator credentials.
   b. From the **Actions** menu on the **Design** tab, create a project, PMDQ.
   c. On the **Administration** tab, click the **Import** view.
   d. Select the PMDQ project in the left pane, and then click **Upload File**.
   e. In the **Available Files** view in the contents panel, select the uploaded file, and click **Start Import** from the **Actions** menu on the upper-right pane to import the objects into the PMDQ project.
   f. In the **Import** dialog box, select **Update** to overwrite the properties of objects on collision.
   g. Click **Import**.
      A message appears that indicates successful import.
   h. Click **OK**.
      You can view the import status of the file in the **Import History** view.

4. To edit the SQL connection in RulePoint, perform the following tasks:
   a. On the **Design** tab, click the **Connections** view.
   b. Select pmdq_connection, and then select **Edit** from the menu.
   c. Update the **Connection URL** field with the JDBC connection URL that connects to the profiling warehouse.
   d. Update the user name and password of the database user with read-only permissions for Informatica Analyst Service Profiling Warehouse.
   e. Click **Save**.

5. To configure the rules for alert hyperlink and Real-Time Alert Manager users, perform the following tasks:
   a. On the **Design** tab, click the **Rules** view.
   b. Select the rule in the contents panel, click **Edit**, and then change the following parameters of the rule, if applicable, to suit the alert mechanism you configured:
      - **Profile Name**
      - **Field Name**
      - **Field Value**
      - **Profile URL**
6. To configure new rules, perform the following tasks:
   a. On the **Design** tab, click the **Template** view
   b. Select the template in the contents panel, and select **Create Template Rule** from the menu.
   c. In the **Details** section, provide a name for the rule.
   d. In the **Parameters** section, edit the configurations as required.
   e. Click **Save**.

7. To change the value of the `tstamp` parameter to the current time of installation in the SQL source, perform the following tasks:
   a. On the **Design** tab, click the **Sources** view.
   b. Select the SQL source in the contents pane, and then select **Edit** from the menu to set the `tstamp` parameter to the current time.
   If you set the `tstamp` parameter value to an earlier value, a lot of unwanted events generated for profiling from that time might enter RulePoint. The format of `tstamp` is *yyyy-mm-dd hh:mm:ss*.

8. To deploy the SQL source and connected objects, perform the following steps:
   a. On the **Design** tab, click **Actions > Deploy > Rules, Sources & Responder**.
   b. In the **Deploy Rules, Sources & Responders** dialog box, select the objects that you want to deploy, and then click **Deploy**.
   The supporting objects associated with the rule, source, and responder are also deployed. The state of the source, rule, responder, and the supporting objects changes from Draft to Deployed. You can view the activations on the **Dashboard** tab.

### After You Install

After installation, configure the environment for the new installation. Perform the post-installation tasks to ensure that the Proactive Monitoring for Data Quality runs properly.

- Log in to Real-Time Alert Manager with each of the following two user IDs. You log in with the IDs to configure Real-Time Alert Manager to receive alerts for each of the users.

The following table provides the list of user IDs and passwords to log in to RTAM:

<table>
<thead>
<tr>
<th>User Name</th>
<th>Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>dquser</td>
<td>dquser123</td>
</tr>
<tr>
<td>dqmonitor</td>
<td>dqmonitor123</td>
</tr>
</tbody>
</table>

### Validating the Installation

If the installation is successful, you can view events and responses on the dashboard after you deploy the objects.

1. Log in to RulePoint.
2. On the Dashboard tab, view the events generated. Perform the following tasks:
   a. To view the statistics for the SQL source, select the source controller on the left pane.
      The contents panel displays the sources and topics deployed in that source controller. It also
      displays the number of events generated for the SQL source and its properties. The lower panel
      displays the state, aggregate count, and a graph depicting the number of events that occurred per
      second.
   b. To view specific events and their properties, click the Topics view in the contents panel, select the
      topic, and then select View Topic from the Actions menu on the Activity and Status pane.
      The topic details for the source displays the details of the event, such as the event name, the source
      type, and the timestamp of the event.

3. To view responses, perform the following tasks:
   a. Click the responder controller on the left pane.
   b. Click the Responses view in the contents panel.
      The contents panel displays the number of alerts generated for the RTAM responder.
   c. Select the RTAM response, and click View Responses from the Actions menu on the Activity and
      Status pane.
      The details for the RTAM response type sent from the source to an administrator, the time stamp,
      and the property of the response are displayed.

Configured Channels in Real-Time Alert Manager

Channels are used to group Real-Time Alert Manager alerts into logical categories. These are logical groups
that associate a set of alerts to a common theme.

The following channels are predefined in Proactive Monitoring for Data Quality:

- Completeness
- Conformity
- Value Count
Template Rules

You can create rules from these templates by specifying parameter values based on the requirements.

The following table lists the predefined template rules that are available by default when you install Proactive Monitoring for Data Quality:

<table>
<thead>
<tr>
<th>Template Rule Name</th>
<th>Description</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQ_PT1 Number of patterns in the profiled column name</td>
<td>Checks if the number of patterns in the profiled column name exceeds the</td>
<td>- Topic: dq_profile_patterns</td>
</tr>
<tr>
<td></td>
<td>threshold</td>
<td>- Sources: Data Quality column pattern frequency</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Analytics: -</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Response: Data Quality Real-Time Alert Manager alert</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Channel: Conformity</td>
</tr>
<tr>
<td>DQ_PT2 Number of NULL values for the profiled column</td>
<td>Checks if the number of null values for the profiled column exceeds the</td>
<td>- Topic: dq_profile_details</td>
</tr>
<tr>
<td></td>
<td>threshold</td>
<td>- Sources: Data Quality column profiling statistics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Analytics: -</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Response: Data Quality Real-Time Alert Manager alert</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Channel: Completeness</td>
</tr>
<tr>
<td>DQ_PT3 Number of occurrences of the value in a profiled</td>
<td>Checks if the number of occurrences of the value in a profiled column</td>
<td>- Topic: dq_profile_values</td>
</tr>
<tr>
<td></td>
<td>exceeds the threshold</td>
<td>- Sources: Data Quality column data frequency</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Analytics: -</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Response: Data Quality Real-Time Alert Manager alert</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Channel: Value Count</td>
</tr>
</tbody>
</table>
Advanced rules do not have parameters. You can extend these rules once you are comfortable with the functioning of these rules.

The following table lists the predefined advanced rules that are available by default upon installing Proactive Monitoring for Data Quality:

<table>
<thead>
<tr>
<th>Rule Name</th>
<th>Description</th>
<th>Properties</th>
</tr>
</thead>
</table>
| DQ_P1 Number of occurrences of a pattern in the profiled column name TIER exceeds 2 | Checks if the number of patterns in the profiled column name exceeds the threshold. | - Topic: dq_profile_patterns  
- Sources: Data Quality column pattern frequency  
- Analytics: -  
- Response: Data Quality Real-Time Alert Manager alert  
- User to be alerted: dqmonitor |
| DQ_P2 Number of NULL values for the profiled column PHONE exceeds 40 | Checks if the number of NULL values for the profiled column PHONE exceeds 40. | - Topic: dq_profile_details  
- Sources: Data Quality column profiling statistics  
- Analytics: -  
- Response: Data Quality Real-Time Alert Manager alert  
- User to be alerted: dqmonitor |
| DQ_P3 Number of occurrences of the value I in the profiled column STATUS exceeds 100 | Checks if the number of occurrences of the value I in the profiled column STATUS exceeds 100. | - Topic: dq_profile_values  
- Sources: Data Quality column data frequency  
- Analytics: -  
- Response: Data Quality Real-Time Alert Manager alert  
- User to be alerted: dqmonitor |
Source Services

The source services fetch data from Data Quality profile warehouse that eventually triggers the predefined rules.

The following table lists the predefined source services that are available by default upon installing Proactive Monitoring for Data Quality:

<table>
<thead>
<tr>
<th>Source Service Name</th>
<th>Description</th>
<th>Properties</th>
</tr>
</thead>
</table>
| Data Quality column profiling statistics | Retrieve the profiling statistics of the profiled columns. | - Type: SQL  
- Topic: dq_profile_details  
- Connected to: Data Quality Profile Warehouse  
- Default: 10 minutes |
| Data Quality column data frequency    | For each profiled column, retrieve the number of times a value occurs and its percentage. | - Type: SQL  
- Topic: dq_profile_details  
- Connected to: Data Quality Profile Warehouse  
- Default: 10 minutes |
| Data Quality column pattern frequency | For each profiled column, retrieve the number of patterns that occur in the profiled columns. | - Type: SQL  
- Topic: dq_profile_details  
- Connected to: Data Quality Profile Warehouse  
- Default: 10 minutes |
The response is where you define how you want responses if the rule’s event matches the rule condition. You can configure a response to function like an action.

You can configure to send responses to a single user or groups of users through the Real-Time Alert Manager user interface.

The following table lists the predefined responses that are available by default upon installing Proactive Monitoring for Data Quality:

<table>
<thead>
<tr>
<th>Response Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Quality RTAM alert</td>
<td>This response sends alerts to Real-Time Alert Manager.</td>
</tr>
</tbody>
</table>
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