Informatica Proactive Monitoring for PowerCenter Governance (Version 3.0)

Release Guide
This product includes software licensed under the Academic Free License (http://www.opensource.org/licenses/afl-3.0.php), the Common Development and Distribution License (http://www.opensource.org/licenses/cddl1.php) the Common Public License (http://www.opensource.org/licenses/cpl1.0.php), the Sun Binary Code License Agreement Supplemental License Terms, the BSD License (http://www.opensource.org/licenses/bsd-license.php), the new BSD License (http://opensource.org/licenses/BSD-3-Clause), the MIT License (http://www.opensource.org/licenses/mit-license.php), the Artistic License (http://www.opensource.org/licenses/artistic-license-1.0) and the Initial Developer's Public License Version 1.0 (http://www.firebirdsql.org/en/initial-developer-s-public-license-version-1-0/).

This product includes software copyright © 2003-2006 Joe Walnes, 2006-2007 XStream Committers. All rights reserved. Permissions and limitations regarding this software are subject to terms available at http://xstream.codehaus.org/license.html. This product includes software developed by the Indiana University Extreme! Lab. For further information please visit http://www.extreme.indiana.edu/.

This product includes software Copyright (c) 2013 Frank Balluffi and Markus Moeller. All rights reserved. Permissions and limitations regarding this software are subject to terms of the MIT license.

This Software is protected by U.S. Patent Numbers 5,794,246; 6,014,670; 6,016,501; 6,029,178; 6,032,158; 6,035,307; 6,044,374; 6,092,086; 6,208,990; 6,339,775; 6,640,226; 6,789,066; 6,823,373; 6,850,947; 6,895,471; 7,117,215; 7,162,643; 7,243,110; 7,254,590; 7,281,001; 7,421,458; 7,496,588; 7,523,121; 7,584,422; 7,676,516; 7,720,842; 7,721,270; 7,774,791; 8,065,296; 8,150,803; 8,166,048; 8,166,071; 8,200,622; 8,224,973; 8,271,477; 8,327,419; 8,388,435; 8,392,440; 8,453,159; 8,458,230; and RE44,478, International Patents and other Patents Pending.

DISCLAIMER: Informatica Corporation provides this documentation “as is” without warranty of any kind, either express or implied, including, but not limited to, the implied warranties of noninfringement, merchantability, or use for a particular purpose. Informatica Corporation does not warrant that this software or documentation is error free. The information provided in this software or documentation may include technical inaccuracies or typographical errors. The information in this software and documentation is subject to change at any time without notice.

NOTICES
This Informatica product (the “Software”) includes certain drivers (the “DataDirect Drivers”) from DataDirect Technologies, an operating company of Progress Software Corporation (“DataDirect”) which are subject to the following terms and conditions:

1. THE DATADIRECT DRIVERS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT.
2. IN NO EVENT WILL DATADIRECT OR ITS THIRD PARTY SUPPLIERS BE LIABLE TO THE END-USER CUSTOMER FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES ARISING OUT OF THE USE OF THE ODBC DRIVERS, WHETHER OR NOT INFORMED OF THE POSSIBILITIES OF DAMAGES IN ADVANCE. THESE LIMITATIONS APPLY TO ALL CAUSES OF ACTION, INCLUDING, WITHOUT LIMITATION, BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, STRICT LIABILITY, MISREPRESENTATION AND OTHER TORTS.
# Table of Contents

Preface ................................................................. 3
Informatica Resources .................................................. 3
   Informatica My Support Portal ................................... 3
   Informatica Documentation ....................................... 3
   Informatica Web Site .............................................. 3
   Informatica How-To Library ....................................... 3
   Informatica Knowledge Base ...................................... 4
   Informatica Support YouTube Channel ......................... 4
   Informatica Marketplace ......................................... 4
   Informatica Velocity .............................................. 4
   Informatica Global Customer Support ........................... 4

Part I: Version 3.0 ....................................................... 1

Chapter 1: New Features and Enhancements (3.0) .................... 2
Version 3.0 ............................................................. 2
   Installer ............................................................ 2
   Managing Objects from the Proactive Monitoring for PowerCenter Management Console ....... 2
   Exporting Alert Summary ........................................ 4
   Migrating Objects from Version 2.6 to 3.0 ...................... 4

Part II: Version 2.6 ....................................................... 5

Chapter 2: New Features and Enhancements (2.6) .................... 6
Version 2.6 ............................................................. 6
   Reports ............................................................ 6
   On-Demand Reports ............................................. 6
   Manage PMPC SQL Source Services from the Proactive Monitoring Management Console .... 7
   Manage Monitored Folders from the Proactive Monitoring Management Console ............. 7
   SNMP Alerts ....................................................... 7
   Recover Workflows Option ....................................... 7

Part III: Version 2.5 ....................................................... 8

Chapter 3: New Features and Enhancements (2.5) .................... 9
Version 2.5 ............................................................. 9
   Support to Monitor Multiple Repository within a Single PowerCenter Domain .................. 9
   Pre-defined PMPC Services ...................................... 9
   Pre-defined SQL Analytics ...................................... 10
   Proactive Monitoring Management Console .................. 10
   Rules for Governance ............................................ 10
Preface

The Proactive Monitoring for PowerCenter Release Guide is written for administrators who are responsible for installing and configuring the Proactive Monitoring solution. This guide assumes that you have knowledge of the features for which you are responsible. The Proactive Monitoring for PowerCenter Release Guide lists new features and enhancements and behavior changes between versions.

Informatica Resources

Informatica My Support Portal

As an Informatica customer, you can access the Informatica My Support Portal at http://mysupport.informatica.com. 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.

Part I: Version 3.0

This part contains the following chapter:

- New Features and Enhancements (3.0) . 2
This chapter includes the following topic:

- **Version 3.0**

**Version 3.0**

This section describes new features and enhancements in version 3.0.

**Installer**

In version 3.0, you use a single integrated installer to install Proactive Monitoring for PowerCenter. The executable installer integrates RulePoint, Real-Time Alert Manager, and the Proactive Monitoring for PowerCenter configurations. The simplified installer helps you quickly set up the system, without the need to install each of the Proactive Monitoring for PowerCenter components separately.

The installer installs and configures the RulePoint schemas and RTAM as part of RulePoint installation. The installer then installs Proactive Monitoring for PowerCenter on RulePoint, installs the Proactive Monitoring for PowerCenter Management Console, and configures the objects and tables required for monitoring PowerCenter. You have the option to create Windows services to start or stop RulePoint instances.

The installer starts the RulePoint and Proactive Monitoring for PowerCenter instances during installation. It also imports the predefined objects for monitoring PowerCenter based on the installer type, Governance or Operations.

**Managing Objects from the Proactive Monitoring for PowerCenter Management Console**

You can view and manage Proactive Monitoring for PowerCenter topics, watchlists, sources, and rules from the Manage Objects tab. You can view events generated for monitored topics and rule activations. You can also perform various tasks for the monitored rules, topics, sources, and watchlists.

**Manage PMPC SQL Sources**

You can deploy, undeploy, or redeploy the PMPC SQL sources from the Proactive Monitoring for PowerCenter Management Console. When you deploy objects, the objects are processed in the application services in RulePoint to fetch events, process events, and dispatch alerts.
View the status and details for the following categories of PMPC SQL sources:

- Governance. Lists the predefined source services that are available by default after you install Proactive Monitoring for PowerCenter Governance.
- Operations. Lists the predefined source services that are available by default after you install Proactive Monitoring for PowerCenter Operations.
- Common. Lists the predefined source services that are common to both Operations and Governance. These sources are available by default when you install Operations, Governance, or both.

Manage Monitored Events

You can view the statistics of the events generated for a source for a specified timeline from the Proactive Monitoring for PowerCenter Management Console.

View the event count, status, and details of a topic for the following categories of monitored events:

- Governance. Lists the predefined topics that are available by default after you install Proactive Monitoring for PowerCenter Governance.
- Operations. Lists the predefined topics that are available by default after you install Proactive Monitoring for PowerCenter Operations.
- Common. Lists the predefined topics that are common to both Operations and Governance. These topics are available by default when you install Operations, Governance, or both.
- Custom. Lists the topics that you create for Operations and Governance.

Manage Monitored Objects

You can view the status and details, and edit monitored watchlists from the Governance, Operations, or Custom category from the Management Console. PowerCenter Monitored Folders is a predefined watchlist available under Monitored Objects.

View the status and details for the following categories of monitored objects:

- Governance. Lists the predefined watchlists that are available by default after you install Proactive Monitoring for PowerCenter Governance.
- Operations. Lists the predefined watchlists that are available by default after you install Proactive Monitoring for PowerCenter Operations.
- Monitored Folders. Lists the predefined PowerCenter Monitored watchlist in Operations or Governance that is available by default after you install Proactive Monitoring for PowerCenter Operations, Governance, or both. The watchlist is predefined and contains the list of folders that you want to monitor. You can add folders to the monitored folders list or remove folders from the monitored folder list.
- Custom. Lists the watchlists that you create for Operations and Governance.

Manage Rules

You can manage Governance, Operations, or Custom template rules from the Management Console. Create, edit, copy, delete, deploy, undeploy, and redeploy template rules from the Management Console. You can also view the statistics of a rule activation.

View the status and details for the following categories of rules:

- Governance. Lists the predefined rules that are available by default after you install Proactive Monitoring for PowerCenter Governance.
- Operations. Lists the predefined rules that are available by default after you install Proactive Monitoring for PowerCenter Operations.
- Custom. Lists the rules that you create on custom templates for Operations and Governance.
Exporting Alert Summary

You can export alerts generated for the current day or the alert history for a specified period to a .csv file or to an .xlsx file on your machine. The exported report summary contains the alert records for each rule category.

You can export alerts for the following categories:

- Operations. Export the current and historical execution failure alerts in the PowerCenter environment.
- Governance. Export the current and historical best practice deviation alerts in the PowerCenter environment.

Migrating Objects from Version 2.6 to 3.0

You can migrate objects from Proactive Monitoring for PowerCenter 2.6 to 3.0. Before you can migrate the objects, you must run the installer to upgrade Proactive Monitoring for PowerCenter from version 2.6 to 3.0.

The migration tool creates an XML file containing the specified objects that you can import into the PMPC project in version 3.0. When you migrate an object, you must include the supporting objects for a successful migration.

You can transfer new and edited default objects, such as topics, templates, advanced and template rules, watchlists, sources, responders, analytics, and responses from 2.6 to 3.0 as part of the migration. To migrate sources, responders or analytics, the migration tool first creates the corresponding connections that are supported by 3.0 and then migrates these objects along with the connections. To export custom sources, responders, and analytics, you need to create a RulePoint 6.1 counterpart for your custom service, and then map the objects in 3.0.
Part II: Version 2.6

This part contains the following chapter:

- New Features and Enhancements (2.6), 6
CHAPTER 2

New Features and Enhancements (2.6)

This chapter includes the following topic:

• Version 2.6

Version 2.6

This section describes new features and enhancements in version 2.6.

Reports

You can use the Proactive Monitoring Reports to monitor the Repository Services, Integration Services, and hosts within a single PowerCenter domain. You can view the best practice violations, and execution failures that occur over a period of time from the Reports dashboard in the Proactive Monitoring Management Console. Use the Proactive Monitoring Reports to view and analyze the current and historical alerts. You can compare resource usage on nodes for better troubleshooting.

The Reports dashboard consists of the following tabs:

• Overview. Monitor the Repository Services, Integration Services, CPU statistics, and memory statistics for the hosts and nodes in a domain.
• Operations. Monitor the execution failures in the PowerCenter environment and drill down into current and historical alerts.
• Governance. Monitor the best practice deviations in the PowerCenter environment and drill down into current and historical alerts.

On-Demand Reports

You can create on-demand reports in Proactive Monitoring for PowerCenter Governance to query or check the workflow, session, and transformation attributes. Use the On Demand Reports View in the Proactive Monitoring Management Console to create and save on demand reports, edit the save reports and run on demand reports.

When the reports are run it retrieves information on instances of sessions, transformations and workflows for an attribute value as defined in the report. For example, you can create an on demand report to retrieve all sessions in which commit interval is set to 100.
Manage PMPC SQL Source Services from the Proactive Monitoring Management Console

You can start or stop the PMPC SQL source services from Proactive Monitoring Management Console.

You can view the status and details for the following categories of PMPC SQL source services:

- **PMPC Governance.** The PMPC Governance source service lists the predefined source services that are available by default after you install Proactive Monitoring for PowerCenter Governance.
- **PMPC Operations.** The PMPC Operations source service lists the predefined source services that are available by default after you install Proactive Monitoring for PowerCenter Operations.
- **Common.** This is the list of the predefined source services that are common to both PMPC Operations and PMPC Governance.

Manage Monitored Folders from the Proactive Monitoring Management Console

PowerCenter Monitored Folders is a predefined watchlist that is available after you install Proactive Monitoring for PowerCenter Governance, Proactive Monitoring for PowerCenter Operations, or both. You can manage the monitored folders from the Managed Objects tab in the Proactive Monitoring Management Console.

You can add folders to the monitored folders list or remove folders from the monitored folder list. Use the filters to sort the folders in the monitored list by Repository Service or folder name.

SNMP Alerts

You can use the PMPC solution to send alerts as SNMP traps in addition to email and RTAM alerts. PMPC solution supports SNMP v2 only. The SNMP alerts can be sent to an external SNMP Manager system that can receive SNMP v2 traps like the HP Network Node Manager.

The PC_S7 SNMP Notification rule, SNMPv2Responder, and SNMPv2Response are available with RulePoint installation. Configure the SNMP rule, responder service, and response to send alerts as SNMP traps. By default, the SNMP rule, responder, and response are disabled. Activate and configure SNMP rule, responder service and response to send alerts as SNMP traps.

Recover Workflows Option

You can use the operation type recoverWorkflow that is available with the ‘PowerCenter Web Service Hub Workflow Control Response’ response to recover workflows. The recoverWorkflow operation is available as a default option in the response.
Part III: Version 2.5

This part contains the following chapter:

- *New Features and Enhancements (2.5)*, 9
This chapter includes the following topic:

- Version 2.5, 9

Version 2.5

This section describes new features and enhancements in version 2.5.

Support to Monitor Multiple Repository within a Single PowerCenter Domain

Effective in version 2.5, you can use the Proactive Monitoring for PowerCenter Governance solution to monitor a single PowerCenter domain with multiple instances of PowerCenter Repository Service deployed on one or more nodes.

You can monitor a single PowerCenter domain with multiple PowerCenter Repository Services running on multiple nodes that consists of a single primary and multiple backup setup.

Pre-defined PMPC Services

The Proactive Monitoring for PowerCenter Governance solution contains the following predefined source service:

**PMPC SQL Source**

The PMPC SQL Source is a custom-built SQL source for the Proactive Monitoring solution. The source can connect to multiple repository databases and run SQL queries in parallel. In addition, the PMPC SQL source includes queries relevant to the database types, such as Oracle, IBM DB2, and Microsoft SQL Server.

All PMPC SQL Source services use the repository configuration provided through the Proactive Monitoring Management Console to connect to the PowerCenter repository databases. The solution includes multiple instances of PMPC SQL Source that run predefined SQL queries against the configured PowerCenter repository databases at regular intervals.
Pre-defined SQL Analytics

The Proactive Monitoring solution contains predefined SQL analytics that are used in rule processing. As part of rule processing, the SQL analytics run predefined queries against the Proactive Monitoring repository database or configured PowerCenter repositories on demand.

Proactive Monitoring Management Console

Proactive Monitoring Management Console is a web-based application that you can use to configure the Proactive Monitoring solution. The Management Console simplifies product installation and setup, and also enables configuration of Global Settings and Alert Recipients.

The console allows you to add details of PowerCenter hosts, nodes, grids, and the PowerCenter Repository Service for monitoring purposes. The Management Console allows you to change the monitoring solution settings and the mode of alert delivery, such as email or RTAM.

Rules for Governance

Effective in version 2.5, the Proactive Monitoring for PowerCenter Governance solution supports Worklets and Maplets of PowerCenter.

Version 2.5 contains the following additional predefined rules and templates over version 2.0 for Maplets, Worklets, Sessions, and Workflows:

Proactive Monitoring for PowerCenter Governance Rules

PC_GM8 Mapping Name should end with _DEV
PC_GMP2 Check whether the mapplet is not valid
PC_GMP3 Mapplet Name should end with _DEV
PC_GS20 Session Name should end with _DEV
PC_GW13 Workflow Name should end with _DEV
PC_GWK2 Check whether the worklet is not valid
PC_GWK3 Worklet Name should end with _DEV

Augmented Alerts

Effective in version 2.5, alerts in Proactive Monitoring solution are now augmented with category and artifact information and stored in the ALERT History Table.

The alerts history table is extended to include categorization columns, such as product, artifact_type, and rule group. The data is in addition to rulename, keyval, delivery, domain, rs, alert_time, recipient, subject, and body already recorded in the alert history table.

Proactive Monitoring for PowerCenter Governance Rule Group

The rules of Proactive Monitoring for PowerCenter Governance are grouped under the following categories:

G1 Best practice violations
G2 Duplicate artifacts
G3 Invalid artifacts
G4 Naming convention violations
G5 Disabled artifacts
G6 Hardcoded values in artifacts
G7 Illegal values in artifacts
G8 Frequent changes to artifacts
G9 Attribute checks for artifacts

Additional PAM Support

Effective in version 2.5, the Proactive Monitoring solution supports the following operating systems and software:

Solaris 10 and 11
PowerCenter 9.5.0

Support for Upgrade From Version 2.0 to 2.5

Effective in version 2.5, you can use the installer to upgrade from Proactive Monitoring for PowerCenter Governance 2.0 to 2.5.
Part IV: Version 2.0

This part contains the following chapter:

- New Features and Enhancements (2.0), 13
New Features and Enhancements (2.0)

This chapter includes the following topic:

- Version 2.0, 13

Version 2.0

Proactive Monitoring for PowerCenter Governance 2.0 offers the following new and enhanced capabilities:

Updates to descriptions of all services of Proactive Monitoring for PowerCenter Governance

Effective in version 2.0, the descriptions of all rules, templates, sources, analytics, responders, responses, watchlists, and topics are updated for clarity and readability.

Reorganization of the topics in RulePoint

Effective in version 2.0, the topic trees of Proactive Monitoring for PowerCenter Governance has been reorganized to enhance usability. The rules and templates are renamed to enhance search results. All rules follow standard guidelines and naming conventions.

Detailed setup instructions to create pc_rp and pcrs_readonly users

Effective in version 2.0, you can get detailed instructions to create RulePoint database user and PowerCenter repository read-only database user. The instructions are in the create_pc_user.txt and create_rp_user.txt files. You can get the files in the resources directory of the installer package.

Installer

Effective in version 2.0, you can use the installer to install Proactive Monitoring for PowerCenter Governance in graphical or console mode.

Cache Duration

Effective in 2.0, the cache duration for pc_get_email and pc_get_rtam analytics is set to 3600 seconds. Previously, the cache duration was set to a sub-optimal value of 0.

Support for versioned PowerCenter repository

Effective in version 2.0, Proactive Monitoring for PowerCenter Governance supports versioned PowerCenter repositories. The latest version of PowerCenter objects are considered in rule evaluations in case of versioned repositories.

Previously, while using a versioned PowerCenter repository, you found duplicate entries in repository tables.