

Precise™ for BW

User Guide

Version 9.7.0

PRECISE™

Precise™ for BW User Guide

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Overview

This section includes the following topics:

- [About Precise for BW](#)
- [Features of Precise for BW](#)
- [Pre-installation requirements](#)
- [The Precise for BW user interface](#)

About Precise for BW

Precise for BW has been specifically designed to enable you to easily troubleshoot BW performance problems. Precise for BW provides more visibility into the following key BW components:

- ETL (Extract, Transform, Load) operations
- Process Chains and their respective Processes

Often you encounter slow ETL processes and want to examine these operations with a full end-to-end perspective. Support for Process Chains from the data source (Source System) to the BW system including full correlation and execution time breakdown helps you troubleshoot slow ETL operations.

The value of the Precise for BW solution comes from combining BW statistics and technical content with Precise metrics. A logical and easy to use user interface is provided to show you where slowdowns or SLA breaches have occurred, guiding you step-by-step to the root cause of the problem.

The Precise solution supports production applications and provides end-to-end visibility for Process Chains. Other areas addressed by the Precise solution are slowdowns caused by load/query conflicts (leading to database locking situations) and application server overload situations caused by running too many Process Chains at the same time.

About common terms used in this manual

The following table describes common terms used in this manual:

Alerts	Alarms raised by Precise for failed Process Chains or breaches/near-breaches of the SLA. The Alerts table, at the bottom of the main screen, displays all alerts raised by Precise.
CCMS	Central Control and Monitoring System.
Drilling down in context	Drilling down in context means that you can display additional information on a selected item by drilling down to another tab or view. The filter settings you define — for example, your selected BW instance and your selected time frame — are carried over to the other view or tab to allow you to continue analyzing the same subject from a different perspective. In other words, the information displayed when drilling down in context is always related to your original selection's settings.
InfoPackage	An InfoPackage specifies when and how to load data from a given source system.
InfoProvider	Generic term for BW objects into which data is loaded or that display views of data. This data is analyzed using queries. An InfoCube is a type of InfoProvider.
MTE	Monitoring Tree Element. In CCMS Alerts, Monitors contain MTEs and MTEs contain Objects.

Process Chain	A sequence of background scheduled processes that are waiting to be triggered by an event. Process Chains are used for centrally controlling and monitoring processes.
Process	Building block of a Process Chain with a defined beginning and end. Processes are synchronized one to another within the Process Chain definition.
Source System	An operational system that is used as the source or input to the ETL process. The source system can be either a SAP or a non-SAP system.

Features of Precise for BW

The following is a list of Precise for BW features:

- Provides a comprehensive view of BW performance without having to access multiple data sources separately
- Enables you to identify and resolve performance problems in the BW system before they impact user or business productivity
- Optimizes performance management from start to finish—from proactive monitoring and problem detection to problem isolation, analysis, and resolution
- Provides long-term historical data and trending for Process Chains
- Provides a logical and easy to understand user flow along with end-to-end data correlation and support, in particular for data load Process Chains
- Provides visibility into single processes — see associated background jobs running on the BW side and on the Source System
- Provides execution time broken down from database to database, including storage, so that bottlenecks can be quickly identified
- Provides a consistent user interface and user flow as well as drill-downs and correlated data
- Provides alerts in the form of email, specifying details of failures or SLA breaches
- Provides visibility into ETL breakdown
- Provides in context links launching to Precise for SAP (ABAP), Precise for DB, job logs, or Trend Analysis
- Integration with CCMS and Solution Manager
- Enables root cause analysis for slow/failed chains
- FLEX based user interface

Pre-installation requirements

For pre-installation requirements, see the *Installing SAP Tier Collector* section in the *Precise™ Installation Guide*.

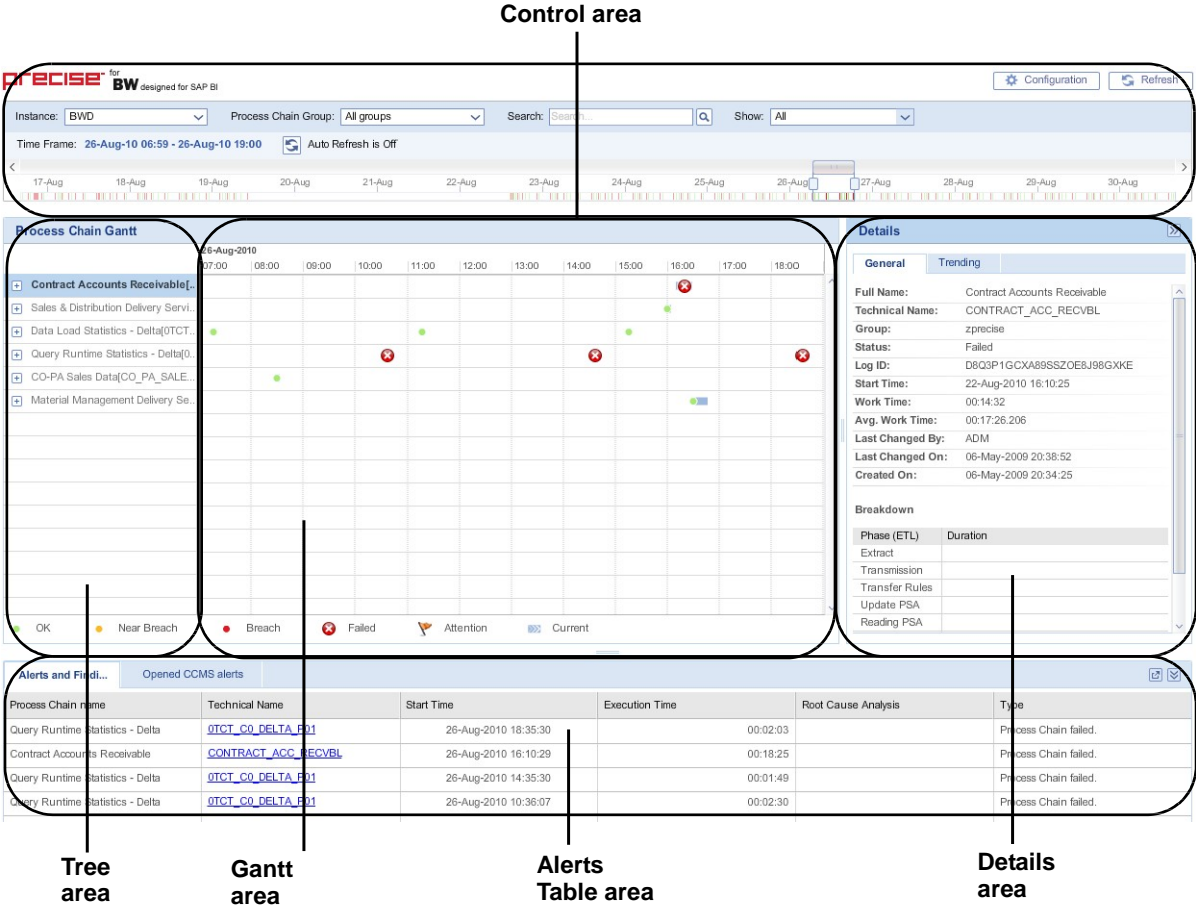
The Precise for BW user interface

Precise for BW allows you to easily troubleshoot BW performance problems by providing visibility into key BW components (e.g., ETL operations, Process Chains, Processes).

The following sections describe the Precise for BW user interface and its respective areas:

- [About the Control area](#)
- [About the Tree area](#)
- [About the Gantt area](#)
- [About the Details area](#)
- [About the Alerts Table area](#)

Figure 1-1 The Precise for BW user interface



About the Control area

The Control area includes elements that allow you to select the amount and type of information to display. It is in this area that you define the time frame to be displayed. Filters and search options give you further control over the scope of the information to be displayed and analyzed.

The Control area includes the following elements:

- Configuration button
- Refresh button
- Filters
- Search – Process Chains search box
- Time Frame
- Auto Refresh button
- Slider and Slicer

Configuration button

Click the Configuration button to open the Configuration dialog box. You can configure the following settings here:

Table 1-1 Configuration dialog box options

Option	Description
Auto Refresh	Check to auto refresh, clear to disable auto refresh.
Refresh Rate (minutes)	Enter refresh rate in minutes (default is 10 minutes).
Overall time range (last X weeks)	Enter number of weeks (default is 4 weeks).
Slider time frame width (x weeks)	Enter the number of weeks you want to display on the Gantt area (default is 2 weeks).
CCMS Alerts	Select the check box to show only MTEs with CCMS alerts. Clear the check box to show all MTEs (default is selected).

NOTE SLA and Email Alert settings are configured in the Precise AdminPoint. For more information, see the *Configuring Precise for BW* section in the *Precise™ Administration Guide*.

Refresh button

Located on the upper right-hand side of the screen. Click this button to refresh the information displayed and to update the Last Update time indicator.

Filters

The Control area of the screen includes three filters which affect both the Gantt and Alerts Table displays. The following table provides a short description of each of these filters:

Table 1-2 Filter definitions

Filter	Description
Instance selector	Enables you to select the BW instance whose information you want to analyze. By default, the first Precise for BW instance on the list is selected.
Select Process Chain Group selector	Enables you to select Process Chains by their BW group.
Show: All/Processes with alerts selector	Enables you to select whether to display all executions (All Process Chains) or only executions with alerts (Only Process Chains with alerts).

Search – Process Chains search box

Enables searching for specific Process Chains within the defined Overall time range. It includes a text box for specifying the search string (allows both friendly and technical Process Chains names). The text box supports only the * wildcard patterns (e.g., *abc*, A*b, *c). The Tree, Gantt, and Alerts Table areas display only the list of Process Chains executions that match the search criteria.

Time Frame

Three time frames have been defined to allow you maximum flexibility in viewing and analyzing the information. The following table describes each of them.

Table 1-3 Definition of the timeframes

Name	Functionality	Default value
Overall time range	<p>Defines the full extent of data to be displayed by the application. All data displayed on the screen will be within the selected Overall time frame. The scroll arrows to the left and right of the Slider let you scroll back or forward respectively within those dates.</p> <p>The Overall time range can be configured using the Settings button located on the upper right-hand side of the screen.</p> <p>See Configuration button.</p>	4 weeks
Slider time frame	<p>The Slider is located at the bottom of the Control area. It displays the amount of weeks defined in the Slider time frame setting.</p> <p>The Slider time frame can be configured using the Settings button located on the upper right-hand side of the screen.</p> <p>See Configuration button.</p>	2 weeks
Slicer time frame	<p>The Slicer time frame determines the date range of information displayed in the visible Gantt area. The Slicer width can be expanded or contracted by dragging its arrows to the left or right. The Slicer position on the Slider can be changed by panning it left or right. This last action will not affect the defined date range (width) of the Slicer.</p> <p>See Slider and Slicer.</p>	12 Hours

Auto Refresh button

Turns Auto Refresh On/Off. Same functionality as the Refresh button but offers you the choice to automatically refresh or not.

Slider and Slicer

The Slider and Slicer are part of an over time bar located at the bottom of the Control area. They are designed to give you maximum visibility and flexibility in viewing the analyzed data. The Slider enables you to scroll through the Overall time range from beginning to end. The Slicer determines what 'slice' of time you choose to display on the Gantt area. In other words, the wider the Slicer setting, the more information (timewise) that is displayed on the Gantt. Additionally, the Slider displays the status of Process Chains as follows: Green if OK, Red if more than one Process Chain is red, Yellow if more than one Process Chain is yellow, and no color if there are no active Process Chains.

About the Tree area

The Tree area is located on the left side of the screen in front of the Gantt area. It has two levels: the first level displays Process Chains and the second level displays Processes. By default, only the first level or Process Chains are displayed.

Expanding a Process Chain to display its Processes is accomplished by clicking the arrow on the left side of the icon. Expanding a Process Chain also expands the Gantt to display all Process executions.





About the Gantt area

Each Process Chain/Process execution is represented by a bar on the Gantt. Currently executing Process Chains are displayed if they are active during the Gantt timeframe.

About conventions used

Process Chains, as well as their Processes, are sorted by the end time of the last execution in descending order. Current Process Chain's end time is now, thus they will be on top.

The color of Process Chain icons is determined by the SLA status of its execution:

	OK
	Near-Breach
	Breach
	Failed

A red flag icon calls your attention to information you need to be aware of.

An icon at the end of an execution bar differentiates a currently executing Process Chain from a completed Process Chain.

A light blue bar indicates the Process Chain execution's duration. When a Process Chain has breached or near-breached, a vertical line is displayed indicating the breach point. Bars in the Gantt are selectable and affect the Details area. For more information, see [About the Details area](#).

If you hover with the mouse over an icon in the Gantt area, a tooltip is displayed indicating its name, SLA value (for Process Chains only), start and end time, and its duration. By default, the Gantt area displays the latest data.

NOTE A legend at the bottom of the Gantt area displays all the icons used in the Gantt.

Viewing individual executions

You can view information on individual executions by either hovering over the execution bar or by clicking on it. Hover over the bar to view general information (displays a ToolTip with the Process Chain's Full Name, Start and End times, Near-Breach and Breach settings, Log ID, and Duration). Click on the bar to view detailed information in the Details area.

About the Details area

The Details area is located on the right side of the screen at Gantt level. It is a context sensitive area displaying details of the selected Process Chain execution or Process execution.

The Details area can be either enlarged or reduced by dragging the Details area resizer to the left or right respectively. This action will accordingly scale down or up the Gantt display without affecting the Slicer size or the data being displayed.

You can also hide the Details area by clicking the >> button on its upper right-hand corner.

Content

The following table describes the content displayed in the Details area according to the Process Chain or Process selected in the Gantt.

Table 1-4 Details area content

Process Chain Selected	Process (not loading) selected	Process (loading) selected
<p><u>General tab:</u></p> <ul style="list-style-type: none"> ■ Full Name: ■ Technical Name: ■ Group: ■ Status: (OK, Failed) ■ Log ID: ■ Start time: ■ Work time: (hh:mm:ss) ■ Avg. Work Time: ■ Last Changed By: ■ Last Changed On: ■ Created On: <p>Breakdown</p> <ul style="list-style-type: none"> ■ ETL Phase (graphical breakdown of selected run): <ul style="list-style-type: none"> Extract: Transmission: Transfer Rules: Update PSA: Reading PSA: Update Rules: Update: Non-ETL <p><u>Trending tab:</u></p> <ul style="list-style-type: none"> ■ SLA Breakdown for all executions ■ Trending <ul style="list-style-type: none"> Analyze Trends 	<p>General tab:</p> <ul style="list-style-type: none"> ■ Full Name: ■ Variant: ■ Status: (OK, Failed) ■ Start Time: ■ Work time: (hh:mm:ss) ■ Avg. Work Time: (hh:mm:ss) <p>Analyze (Launches to Precise for SAP with context of the BI job)</p> <p>View Job Log (Displays the BI job log for the selected process)</p>	<p><u>General tab:</u></p> <ul style="list-style-type: none"> ■ Full Name: ■ Technical Name: ■ Source System Name: ■ Status: (OK, Failed) ■ Error message: (if status is Failed) ■ Start time: ■ Work time: (hh:mm:ss) ■ Avg. Work Time: (hh:mm:ss) <p><u>ETL Breakdown tab: (Graphical)</u></p> <p>ETL Breakdown</p> <p>This table displays the duration of each phase of the ETL process. additionally, it provides links to additional information.</p> <ul style="list-style-type: none"> ■ Extract <ul style="list-style-type: none"> Analyze (Launches to Precise for SAP with context of the job in the Source System) View Job Log (Displays the Source System job log for the selected process) ■ Transmission ■ Transfer Rules ■ Update PSA ■ Reading PSA ■ Update Rules ■ Update ■ Maintenance <ul style="list-style-type: none"> Analyze (Opens the BI Activity popup screen – Details below) View Request log (Displays the log of the executed request) ■ BI Job <ul style="list-style-type: none"> Analyze (Launches to Precise for SAP with context of the job in the BI system) View Job Log (Displays the BI job log for the selected process) <p><u>InfoProviders tab:</u></p> <ul style="list-style-type: none"> ■ Displays a table of all InfoProviders that are loaded. The table columns include the InfoProvider name, type, and the number of records updated. <p>BI Activity pop-up screen:</p> <p>Displays a 3 column (Component, Duration, and Link) table with two rows:</p> <p>First row: Application.</p> <p>Component column: Request Time in BI.</p> <p>Duration: Total request duration as measured in Precise for SAP.</p> <p>Link: To Precise for SAP (for the request).</p> <p>Second row: Database time (one line for each program identified)</p> <p>Component column: Program name</p> <p>Duration: Duration of program as measured by Precise for DB.</p> <p>Launch: To Precise for DB for that particular program.</p>

Launches

Launches are represented by links labeled 'Analyze'. Launches open in a new window. If components are missing for the launch, a popup screen informs you that the given component is not monitored by Precise. To enable the launch you must configure Precise to monitor the component(s).

Logs

Links to Logs open a pop-up window containing a table with a Timestamp column and a Message Text column. You can either copy the log to the clipboard for future pasting or you can print it directly.

If important messages in the log were identified, a flag is displayed next to the link. We recommend you read the log messages marked with this flag.

If the message information is truncated because of the column width, hover over it with the mouse and a ToolTip will display the complete information.

About the Alerts Table area

The Alerts table is displayed at the bottom of the screen. The vertical space it occupies on the screen can be either expanded or reduced by dragging the Alerts table resizer up or down respectively. This action will accordingly scale up or down the Gantt display without affecting the data being displayed.

The Alerts table includes two tabs: The Alerts and Findings tab and the CCMS Alerts tab.

Alerts and Findings

Precise Alerts raise an alert for any failed Process Chain or any breaches or near-breaches of the SLA. The table displays all alerts raised by Precise.

The time frame for the Alerts table is the Gantt timeframe. The Precise Alerts table displays the following columns:

- Process Chain Name – The name of the Process Chain.
- Technical Name – Process Chain Technical Name (Link). Clicking the name on this column triggers a scroll on the Gantt view to focus on the relevant execution.
- Start Time – The Process Chain start time.
- Execution Time – Execution time of the Process Chain.
- Root Cause Analysis – If available, clicking the link on this column displays a popup window with a root cause analysis description.
- Type – SLA breach, Near-breach, or Exception.

Clicking on a column header will sort the column. The table's default sort is by the Alerts timestamp in descending order.

CCMS Alerts

Precise for BW displays CCMS alerts for the monitored instance. Only CCMS Monitors defined in a configuration file are displayed. The default monitors are:

- BI Accelerator Monitor
- BI Key Performance Indicators
- BI Monitor

To add more Monitors, see the Configuring Precise for BW section in the Precise™ Administration Guide.

The left side of the CCMS Alerts tab displays a tree showing a list of active monitors. The right side displays a table showing all the Alerts for the selected entity (monitor) in the tree.

The CCMS Alerts table displays the following columns:

- Status – Warning or failed.
- Timestamp – Time of the alert.
- Context – Context in which the alert was raised.
- Alert text – Text of the alert.
- Object name – Name of the object.
- Short name – Short name of the monitored instance.

Clicking on a column header sorts the column. The default sort is by the alerts timestamp, in descending order. Filtering is allowed. If enabled, only nodes that have alerts are displayed. If not, all nodes are displayed. The filter is enabled by default. See [Configuration button](#).

If there are no alerts in the entire tree, a message is displayed. Clicking on a node in the tree displays all the alerts for that node in the tree area. Expanding a node in the tree displays the children of that node in the tree. No change will occur in the table area. Only open alerts are displayed. Time frame settings have no effect on the list. Closing an Alert or changing its settings from the user interface is not supported.

Pulling alerts from a Central Monitoring instance is supported. This is configured by indicating the instance name in the configuration file. For more information, see the *Configuring Precise for BW* section in the *Precise™ Administration Guide*.

Working with Precise for BW

This section includes the following topics:

- [Logging in](#)
- [Configuring Precise for BW](#)
- [Investigating BI performance problems](#)

Logging in

Perform one of the following actions to login to Precise for BW.

Launching Precise for BW

There are three options for launching Precise for BW. To launch Precise for BW:

1. Insert the following URL into the Address bar of your browser and press Enter:
`http://<server>:<port>/ux/sapbw/start.do`
The Precise for BW Login screen is displayed. The Login screen provides secure access to Precise for BW.
2. Enter your authorized role name and password. By default, both role name and password are **admin**. For more information about role names, see the *Precise™ Administration Guide*.
3. Click Login. The Precise for BW user interface opens.

NOTE Alternatively, you can launch from Precise StartPoint by clicking the **Exports TPM** button and select **BW**.

Configuring Precise for BW

For information on configuring Precise for BW, see the *Configuring Precise for BW* section in the *Precise Administration Guide*.

Investigating BI performance problems

There are three different approaches you can use to investigate your performance problems:

- Focusing on a specific Process Chain or Process in the Gantt area (See [Gantt area approach](#).)
- Following Alert links in the Alerts Table area (See [Alerts Table approach](#).)
- Following Email Notification links (See [Email Notification approach](#).)

Gantt area approach

The following procedure describes how to investigate BI performance starting from the Gantt area.

To start your analysis from the Gantt area, follow these steps:

1. In the Tree area, select the Process Chain you want to investigate. If you also want to investigate the selected Process Chain's processes, click on the '+' sign to the left of the Process Chain name to display all the Process Chain's processes.
2. Pan the Gantt area to display the dates you want to investigate. If necessary, adjust the width of the Slicer to display more/less days on the screen.
3. Click on the execution you want to investigate. View its details and ETL breakdown on the Details tab on the right side of the screen.
4. To view information for all executions, click the Trending tab. An SLA breakdown for all executions is displayed as a pie chart. To view more pie chart details hover with the mouse over the different sections of the pie and view the ToolTip displayed for each.
5. To analyze the trends, either click on the trending graph or on the Analyze Trends link.

To analyze non-loading processes:

1. In the Gantt area, click the Process Chain's process you want to investigate. View its general information on the General tab in the Details area.
2. To view the job log, click the respective link.
3. To launch to Precise for SAP, click the respective link.

To analyze loading processes:

1. In the Gantt area, click the Process Chain's process you want to investigate. View its general information on the General tab in the Details area.
2. To view the ETL breakdown by phase, click the ETL Breakdown tab. For more information on this tab and using the links provided, see the Details area content table. The yellow flag to the right of some of the log links calls your attention to errors you should look into.
3. To view the number of rows that were loaded, click the InfoProviders tab.

Alerts Table approach

The following procedures describe how to investigate BI performance starting from the Alerts Table area. From this area you can analyze both Precise Alerts and CCMS Alerts.

Precise Alerts

To start your analysis of Precise Alerts, follow these steps:

1. In the Alerts Table area, select the Alerts and Findings tab.
2. Click the desired link in the Technical Name column. The Tree, Gantt, and Details areas change to display information related to the selected Process Chain.
3. If the Root Cause Analysis column contains a link, you may follow it to further investigate the cause of the problem.
4. Follow the previously described procedures to respectively analyze non-loading and loading processes.

CCMS Alerts

The Central Control and Monitoring System (CCMS) alerts on significant events in the SAP system. CCMS metrics are grouped into functional sets known as Monitors. Each Monitor in turn contains a hierarchical set of Monitoring Tree Elements (MTE) and each MTE contains a group of items also known as Objects.

NOTE Only the CCMS Monitors specified in the Precise registry are shown. To add more Monitors, see the *Configuring Precise for BW* section in the *Precise™ Administration Guide*.

To start your analysis of CCMS Alerts, follow these steps:

1. In the Alerts Table area, select the CCMS Alerts tab.
2. Click the '+' icon to the left of the monitor you want to investigate.
3. Either click on the MTE you want to view information on or click the '+' icon to drill further down.
4. Look for the Object you want to investigate and click it. The table to the right will be populated with alerts relative to the selected entity.

NOTE If you only want to view MTEs with alerts, verify that the CCMS check box in the Settings dialog, is clear.

Email Notification approach

The following procedure describes how to investigate BI performance starting from an email notification. Note there are three prerequisites for receiving email notifications:

- The Alert metric must be on
- Email alerts must be enabled
- A Process Chain failure or SLA Breach/Near-breach has occurred

You may set up specific email addresses to be notified if Process Chain failures or SLA breaches have occurred. The email message text will contain the same information that is displayed in the Alert Monitor, that is:

- The Process Chain full name and technical name
- The date and time at which the problem occurred
- The severity of the alert
- A link to further investigate the cause of the problem

When you receive an email notification, select the Process Chain you want to investigate further and click the corresponding link. The Precise for BW user interface will be opened in the context of the selected Process Chain.

For further information on how to setup and enable Alert metrics and email alerts, see the *Configuring Precise for BW* section in the Precise™ Administration Guide.