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Feature Scope Description for SAP Signavio Process Intelligence

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1 Feature Scope Description for SAP Signavio Process Intelligence

This document outlines which features are provided with SAP Signavio Process Intelligence.

About This Document

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2 SAP Signavio Process Insights and Intelligence Package

The key features listed here are provided with the SAP Signavio Process Insights and Intelligence package.

The features listed here are also the features available to the following customers, unless otherwise indicated:

- Standard customers with the sandbox environment for SAP Signavio Process Insights and Intelligence package
- SAP partners with a cloud test and demonstration license for SAP Signavio Process Insights and Intelligence package

2.1 Administration and Configuration

Administration and configuration features are provided with the SAP Signavio Process Intelligence package.

SAP Signavio Process Intelligence supports two types of analysis with different data integration methods:

- **Out-of-the-box process analysis**, which is based on data collected using standardized data integration for business content defined and delivered by SAP, ready for immediate use. This SAP-defined business content covers a range of end-to-end processes and lines of business, providing you with a holistic overview of your organization's performance.
- **Custom process analysis**, which is based on data integrated using custom source data sets and data pipelines. It can be used to precisely control and customize your data analysis.

Out-of-the-Box Process Analysis

Key Feature	Use
Industry selection	Enables you to specify your industry so you can get industry-specific innovation recommendations instead of general cross-industry recommendations only.
System configuration	Enables you to do the following: • Get an overview of all connected source systems, including information about the system type, the connection type, and other technical details. * • Configure, when supported for the navigation type, how users can navigate to business object instances in the connected SAP on-premise source systems. *

Key Feature	Use
Data collection configuration	Enables you to do the following: • Specify how many data collection runs are to be stored for process flows and performance indicators. * • Get an overview of the data collection runs that have been completed to transfer data from your source systems. • Configure the default activation status to be applied to new performance indicators so you can define for each source system whether all new performance indicators are active or deactivated by default. * • Configure which performance indicators are to be active or inactive for specific source systems. * • Delete performance indicator data for one or all source systems. *
Access configuration	Enables you to do the following: • Specify which users can access data from specific source systems or system/client combinations. • Configure whether user access to data in specific system/client combinations is to be restricted based on organizational attributes.

* This applies only to the SAP Signavio Process Insights and Intelligence package and not to the packages for the following customers:

- Standard customers with the sandbox environment for SAP Signavio Process Insights and Intelligence package
- SAP partners with a cloud test and demonstration license for SAP Signavio Process Insights and Intelligence package

Custom Process Analysis

Key Feature	Use
Integration of analysis workflows	Enables you to integrate SAP Signavio Process Intelligence with SAP and non-SAP systems. Analysis workflows can then send SIGNAL query results to these systems.

2.2 User Management and Authorization

User management and authorization features are supported by the SAP Signavio Process Intelligence package.

Out-of-the-Box Process Analysis

Key Feature	Use
User management	Leverages the capabilities of SAP Signavio Process Transformation Suite and SAP Cloud Identity Services for user management.
Authorization for features or data	Leverages the capabilities of SAP Signavio Process Transformation Suite for authorization management based on feature sets. Feature sets provide predefined collections of permissions that allow you to restrict access to specific features, such as administration features, or to specific data, such as data for monetary values or personal data. For other types of access that can be configured for out-of-the-box process analysis, see Administration and Configuration [page 4].

Custom Data Integration and Process Analysis

Key Feature	Use
Authorization for features	Leverages the capabilities of SAP Signavio Process Transformation Suite for authorization management based on feature sets. Feature sets provide predefined collections of permissions that allow workspace administrators to manage access to features centrally.
User management	Leverages the capabilities of SAP Signavio Process Transformation Suite for user management.
Role-based access to and within the data management directory	Enables authorized users to grant other users access to the data management directory or individual folders in the data management directory based on roles. The data management directory is the central storage for objects such as custom data connections, source data sets, and data pipelines.
Role-based access to data and actions in analysis configurations	Enables authorized users to grant other users access to data defined in an analysis configuration and to the specific actions that can be applied to the data, for example, creating, viewing, or editing. Access is granted using roles.
Access to data based on process views in analysis configurations	Enables you to create process views for use in analysis configurations. Process views are used to define the data that other users access by filtering and hiding attributes to restrict data visibility. They let you also grant dashboard access to specific users or groups.

Key Feature	Use
Access to dashboards and investigations	Enables you to choose an access level for dashboards and investigations. Access levels define whether other users can view and edit the dashboards and investigations you've created.

2.3 Data Integration

Data integration features are provided with the SAP Signavio Process Intelligence package.

SAP Signavio Process Intelligence supports two types of data integration:

- **Standardized data integration** involves sending process performance data for SAP-defined business content from supported source systems to your SAP BTP tenant of SAP Signavio Process Intelligence at predefined intervals.
- **Custom data integration** lets you use data pipelines to extract data using the configuration in source data sets and transforms data at custom intervals.

Standardized Data Integration

Key Feature	Use
Data ingestion	Enables you to have data sent from supported source systems to your SAP BTP tenant of SAP Signavio Process Intelligence based on your subscription. **Note** • If you have the SAP Signavio Process Insights and Intelligence package, data is sent to your tenant periodically on an ongoing basis. • If you're an SAP partner with a cloud test and demonstration license, data collection runs once only.
OData APIs	Enables you to integrate process performance data from your SAP BTP tenant of SAP Signavio Process Intelligence into other data analytics solutions.

Custom Data Integration

Key Feature	Use
File-based data provision	Enables you to do the following: • Upload CSV, XES, or zipped files containing event logs and case attribute data manually to an analysis configuration. • Upload CSV, XES, or zipped files containing event logs and case attribute data to an analysis configuration using the data upload API.
Pipeline-based data provision	Enables you to define which customizable data connections, source data sets, and transformation rules (data modeling) are used to extract data from source systems and how to transform and load the data into an analysis configuration.
Customizable data connections	Enables you to create custom data connections to establish a link between various types of supported source systems (SAP and non-SAP systems) and SAP Signavio Process Intelligence using standard connectors. You can do the following: • Connect to SAP and non-SAP cloud systems such as SAP Ariba, SAP ERP (RFC), Microsoft SQL Server, and ServiceNow. • Connect to SAP and non-SAP on-premises systems such as SAP Ariba, SAP ERP (RFC), Microsoft SQL Server, and ServiceNow. • Connect to ABAP systems using the standard SAP ERP through RFC function module, RFC_READ_TABLE, to extract data from the SAP database tables. You can use the RFC function module for ABAP systems with SAP Basis component version 7.40 and above. • Synchronize data with replication flows in SAP Datasphere.
Data extraction configuration	Enables you to create source data sets to define which data to extract from a connected source system. You can do the following: • Define which tables and columns to extract from a source data set. • Set partition strategies for efficient data extraction. • Apply delta filters for incremental data updates. • Configure standard or scripted data extraction as needed. • Manage data retention policies for source data. • Pseudonymize data from source systems at the column level in source data sets. The corresponding data from the source systems is then replaced with artificial pseudonyms during the extraction phase.
Ingestion API	Enables you to ingest data collected from any source systems via custom implementations into SAP Signavio Process Intelligence using data integration tools.
SIGNAL OData API	Enables you to export data collected through OData views from custom process analysis, without exposing the underlying data model.

2.4 Data Modeling

Data modeling features are provided with the SAP Signavio Process Intelligence package.

SAP Signavio Process Intelligence supports two types of data integration: standardized and custom data integration. The features listed here are available only for custom data integration. You can use them to create data pipelines that extract raw data from source systems into SAP Signavio Process Intelligence, transform the data into an event log, and prepare it for custom process analysis.

Key Features

Key Feature	Use
Data transformation configuration	Enables you to create and configure case-based and object-based pipelines for data transformation. You can do the following: • Define transformation rules using SQL scripts. • Share pipeline configurations across workspaces using import and export options. • Establish deterministic sorting rules when multiple events share the same timestamp, ensuring consistent and predictable event sequence analysis in your data pipeline. • Use data pipelines templates that are available in the value accelerator library for SAP Signavio solutions to set up data pipelines faster. • Define and manage data views for reusable transformations.
Data extraction with source data sets	Enables you to connect a data pipeline with source data sets, which define the data to extract from a connected source system.
Object-based data models	Enables you to create an object-based data model once and use it to define multiple process perspectives through case scopes, allowing the same data to support multiple object-centric process analyses. You can do the following: • Create objects with key fields and attributes. • Create attribute and event collectors for objects. Collectors are SQL scripts that extract data from the source system for each object. • Establish relationships between objects. • Link events across multiple interconnected objects, enabling end-to-end visibility of complex processes. • Visualize data models with entity relationship diagrams. • Include or exclude objects and their relationships within process semantic views. • Download event logs for external analysis.

Key Feature	Use
Case-based data models	Enables you to do the following: • Create business objects with case attributes and event collectors. • Configure process data models with context relations. • Include or exclude business objects and collectors from the event log. • Connect case-based pipelines to an analysis configuration for custom process analysis. • Download event logs for external analysis.
Data pipeline running and monitoring	Enables you to do the following: • Run case-based data pipeline flows with extract, transform, and load operations. • Run object-based data pipeline flows with extract and transform operations. • Schedule automatic data pipeline runs. • Monitor runs of data pipelines and process semantic views through logs that display extraction, transformation, and load phase details.
Data pipelines validation	Enables you to run data pipeline health checks to identify configuration issues. You can do the following: • View errors, warnings, and informational messages. • Navigate directly to problematic configurations from health check results. • Validate SQL syntax and data type compatibility. • Ensure that mandatory columns are present in collectors.
Enhancing event logs with context	Enables you to configure context analyzers, which use AI to enhance event logs with context data surrounding business processes. You can do the following: • Enhance the event log with sentiment data to identify what drives customer satisfaction or dissatisfaction and to measure how operational changes impact emotional responses. • Match free-text data to corresponding events in the event log to identify which process steps correlate with customer feedback. • Identify recurring topics in free-text data and enhance the event logs with this contextual information. You can analyze how these topics relate to customer feedback, process behavior, and outcomes.
Process semantics definition	Enables you to create multiple process perspectives from a single object-based data pipeline. You can visualize the data model by showing the relationships and structures of all objects and their events.

2.5 Analysis Configuration

Analysis configuration features are provided with the SAP Signavio Process Intelligence package.

SAP Signavio Process Intelligence supports two types of analysis with different data integration methods: out-of-the-box and custom process analysis. The features listed here are available only for custom process

analysis. You can use them to configure the analysis scope, for example by defining which data, custom attributes, and customizable metrics are available for analysis in dashboards, investigations, and value cases.

Key Feature	Use

Data provision	Enables you to do the following:
	• File-based provision of data:
	  • Upload event logs and case attribute data manually.
	  • Upload event logs and case attribute data using the data upload API.
	• Pipeline-based provision of data:
	  • Connect the analysis configuration to a data pipeline.
	  • Connect the analysis configuration to a case scope.
	• Specify source system types to allow for metric recommendations.
	• Define merge strategies for data uploads.

Access to data with process views	Enables you to define at the column level in event logs which users can use which data for custom process analysis. You can also use process views to grant dashboard access to specific users and user groups.
Volume tracking	Enables you to view the number of analysis configurations, cases, and events in the data store.
Data access via APIs	Enables you to generate and manage API tokens for access through external systems.
Analysis configuration connections	Enables you to connect analysis configurations to multiple dashboards, value cases, analysis workflows, and more.
Customizable metrics	Enables you to do define the individual set of customizable metrics for each analysis configuration. You can do the following: • Use predefined metric templates from a built-in library that are categorized and recommended based on the source system and process type to create the metrics needed for process analysis. • Create your own metrics from scratch. • Configure variables for metrics to support reusability. • Write SIGNAL queries in code editor for custom-tailored metrics. • Track metric progression over time. • Set thresholds for metrics to indicate whether they meet the targets defined in your organization. • Export and import metrics across analysis configurations.

Key Feature	Use
Process atoms	Enables you to define, validate, and monitor process conformance by identifying deviations, inefficiencies, and compliance violations. You can do the following: • Use process atoms as dimensions and measures in dashboard widgets, to measure the compliance and conformance split of your cases. • Use process atoms as dashboard filters to narrow down conformant or non-conformant data. • Drill down data in chart widgets using process atoms, if process atoms relevant to the chart data exist. • Reference process atoms in metrics to measure the conformance impact.
Custom attributes	Enables you to add your own attributes without changing original event log data, enabling new dimensions or measures for analysis. For example, you can use custom attributes to count occurrences, measure the duration between timestamps, or create advanced calculations with the help of SIGNAL language functions.
OData views	Enables you to share SIGNAL query results with external systems using the OData API.

2.6 Process Analysis

Process analysis features are provided with the SAP Signavio Process Intelligence package.

SAP Signavio Process Intelligence supports two types of analysis with different data integration methods:

- **Out-of-the-box process analysis**, which is based on data collected using standardized data integration for business content defined and delivered by SAP, ready for immediate use. This SAP-defined business content covers a range of end-to-end processes and lines of business, providing you with a holistic overview of your organization's performance.
- **Custom process analysis**, which is based on data integrated using custom source data sets and data pipelines. It can be used to precisely control and customize your data analysis.

Out-of-the-Box Process Analysis

Dashboards

Key Feature	Use
Standardized dashboards	Enables you to do the following: • Display a predefined dashboard that includes widgets showing your favorite and most relevant SAP-defined business content for a source system. You can filter the data shown by predefined end-to-end processes or lines of business. • Create dashboards that include widgets showing your favorite and most relevant SAP-defined business content, as well as data visualizations that show the performance of individual metrics. You can configure widgets on a dashboard to show data from multiple source systems.
Improvement opportunities	Enables you to do the following: • Display a list of predefined dashboards that allow you to immediately analyze typical business challenges. • Select the source system for data shown on the dashboards. • Filter the list of dashboards by predefined lines of business, value levers, and value drivers. • Duplicate dashboards to your standardized dashboards to customize.

Process Flows

Key Feature	Use
Overview and favorites	Enables you to do the following: • Select from a predefined set of process flows based on the performance indicators implemented as process flows. You can filter the list by predefined end-to-end processes or lines of business • Add or remove a process flow to or from your favorites and get an overview of your favorite process flows.

Key Feature	Use
Visualization	Enables you to see the process performance for typical business processes based on data collected from a connected source system. You can do the following: • Get an overview of the main phases of a process with an indication of the lines of business and business objects associated with each phase. • View the progression of business object instances through each stage of a process phase. • Get metrics based on a baseline set of business object instances in a specific time period that indicate how many instances reached different stages and the average time this took. • Get additional information and metrics that provide more context or highlight any blockers identified. • View date information that indicates the date range from the oldest to the newest business object instances in the data collected and how recent the data is. • Choose a link to go to more information about each process flow.
Data selection and drilldown	Enables you to do the following: • Select the source system for data collected for process flows. • Select the date of the data collection that you want to analyze so you can get insights into performance for different timeframes. You can select a date when data from multiple data collection runs is available. • Access a filtering option for a single process flow that allows you to filter the information visualized to a specific information subset by selecting filters and filter values based on predefined attributes for that specific process flow. You can also save your filters for later use and share them with others in your organization. • Select individual boxes or lead times within a process flow to drill down into more details, including a detail list of the business object instances for that process stage, frequent blocker, or box with other information. • From a detail list, access a direct link to business objects instances for supported business objects in your SAP on-premise source system or download the list of business objects instances in CSV format.
Execution variants	Enables you to do the following: • Visually analyze and compare different execution paths of a process flow that's enabled for event logging, based on impacted business object instances, cycle time, or monetary value. • Analyze process performance based on selected execution variants. • View and analyze execution variants associated with a frequent blocker or other contextual information within a process flow.

Standard Performance Indicators

Key Feature	Use
Standard performance indicators	Enables you to get process performance metrics based on data collected from a connected source system and allows you to do the following: • Select the source system for data collected for standard performance indicators. • Display an overview of standard performance indicators, which you can filter by predefined end-to-end processes or lines of business, and category. You can also get information about the number of business object instances or entities for which an indicator is relevant and what type of business object it involves. • Select a specific standard performance indicator to drill down into further details, which include a link to more information and a detail list of the business object instances impacted. • From a detail list, access a direct link to business objects instances for supported business objects in your SAP on-premise source system or download the list of business objects instances in CSV format. • Select the date of the data collection that you want to analyze so you can get insights into performance for different timeframes. You can select a date when data from multiple data collection runs is available. • Access a filtering option for a standard performance indicator that allows you to drill down into its details by selecting filters and filter values based on predefined attributes for that specific performance indicator. You can also save your filters for later use and share them with others in your organization. • Add a performance indicator to your favorites.

Benchmarks

Key Feature	Use

Company benchmarks	Enables you to compare performance across entities within your organization:
	• Company benchmarks for process flows enable you to visually compare performance across predefined entities internally within your organization. You can compare the following:
	  • Completion rates for stages of the process
	  • Lead times to transition between stages of the process
	  • Metrics for frequent blockers or other information shown as boxes within a process flow
	• Company benchmarks for standard performance indicators enable you to visually compare performance across predefined entities internally within your organization. What you can compare depends on the category of the standard performance indicator.

Key Feature	Use
Industry benchmarks	Enables you to compare your organization's performance with that of industry peers: • Industry benchmarks for process flows enable you to access industry benchmarking information in process flows for which external benchmarking information is available. This lets you compare your organization's performance to that of industry peers. These benchmarks are available for the days to completion and completion rate metrics as well as for many of the frequent blockers in process flows. • Industry benchmarks for standard performance indicators enable you to access industry benchmarking information for standard performance indicators for which external benchmarking information is available so you can compare your organization's performance to that of industry peers.

Trends

Key Feature	Use
Trends	Enables you to access a trend analysis chart to visually analyze trends and monitor process performance over time for the following: • Frequent blockers in process flows for which trends are available • Standard performance indicators for which trends are available

Recommendations

Key Feature	Use
Correction recommendations	Enables you to do the following: • Select the source system for data collected for collection recommendations. • Display a list of correction recommendations that outline steps your organization can take in your source system to resolve process performance issues identified. • Filter correction recommendations by predefined end-to-end processes or lines of business. • Select a specific correction recommendation to get more information. The information includes a detail list of the business object instances for which the recommendation is relevant and access to a more detailed description of the recommended action your organization can take in your source system. • Access a filtering option for a correction recommendation that allows you to drill down into the details by selecting filters and filter values based on predefined attributes for that specific performance indicator. You can also save your filters for later use and share them with others in your organization. • From a detail list, access a direct link to business objects instances for supported business objects in your SAP on-premise source system or download the list of business objects instances in CSV format. • Add a correction recommendation to your favorites.

Key Feature	Use

Innovation recommendations	Enables you to do the following:
	• Display a list of innovation recommendations that your organization can use to plan long-term strategic improvement using SAP solutions and applications. You can do the following:
	  • Select the source system for data relevant for innovation recommendations.
	  • Filter innovation recommendations by predefined end-to-end processes or lines of business.
	  • Choose from various categories of recommendations.
	  • See what end-to-end processes or lines of business a recommendation is related to.
	  • Filter recommendations by end-to-end processes or lines of business.
	• Select a specific innovation recommendation to display more information from other information sources outside the solution.

Recommendations linked to stages or frequent blockers in process flows	Enables you to do the following with correction recommendations for stages and frequent blockers in process flows: • Display a list of available correction recommendations relevant for a specific stage or frequent blocker. • Select a specific correction recommendation to get more detailed information about the recommended action to take to implement the recommendation. Enables you to do the following with innovation recommendations for frequent blockers in process flows: • Display any available innovation recommendations for a specific frequent blocker. • Select a specific innovation recommendation to get more detailed information about it from other information sources outside the solution.

Recommendations linked to standard performance indicators	• Correction recommendations for standard performance indicators enable you to do the following:
	  • Display a list of correction recommendations relevant for a specific standard performance indicator.
	  • Select a specific correction recommendation to get more detailed information about how to act on the recommendation.
	• Innovation recommendations for standard performance indicators enable you to do the following:
	  • Display the available innovation recommendations for a specific standard performance indicator.
	  • Select a specific innovation recommendation to get more detailed information about it from other information sources outside the solution.

Monetary Values

Key Feature	Use
Monetary values for some standard performance indicators	Enables authorized users to view the accumulated total value of documents or items in their preferred currency. This information is available in the details displayed for a standard performance indicator when this monetary information is available.
Monetary values in process flows	Enables authorized users to toggle between the number of business object instances and their accumulated total value in their preferred currency. Values can only be shown in process flows when this monetary information is available.
Monetary values in filters	Enables users to toggle between the number of business object instances and their accumulated total value in their preferred currency in the filter values shown when this monetary information is available.

Cloud Transformation

Key Feature	Use
SAP S/4HANA Cloud transformation planning	Enables you to plan your transformation journey to SAP S/4HANA Cloud. You can do the following: • Select from predefined lists of end-to-end processes and lines of business as your entry point for planning. • Navigate to relevant solution process flows for SAP S/4HANA Cloud, private edition, or public edition in SAP Signavio Process Explorer. This allows you to compare your organization's current processes with best practice processes available in SAP Signavio Process Explorer as solution process flows. • Navigate to performance indicators or correction recommendations to analyze and remove legacy data.

Custom Process Analysis

Analysis Language

Key Feature	Use
SAP Signavio analytics language (SIGNAL)	Enables you to run tailored analysis with SAP Signavio analytics language (SIGNAL), a specialized query language for process analysis.

Data Visualizations

Key Feature	Use
Dashboards	Enables you to monitor metrics and KPIs on dashboards, with data visualizations that update automatically whenever new data is uploaded. You can do the following: • Use pre-built dashboard templates that are available in the value accelerator library for SAP Signavio solutions or create your dashboards from scratch. Dashboards include widgets that display your favorite and most relevant data. • Monitor metrics and KPIs in near real time, with data visualizations in widgets that update automatically whenever new data is uploaded to the linked analysis configuration. • Visualize, consolidate, and group data in widgets for in-depth process analysis. • Add, arrange, resize, and reposition widgets through intuitive drag-and-drop functionality. • Use an AI-assisted capability that helps to create widgets based on natural language prompts. • Filter your data analysis scope across a dashboard or a dashboard page, at both case and event levels. For example, you can filter by activities, date ranges, attributes, behaviors, and advanced SIGNAL queries. • Switch between process views for different analytical perspectives.
Investigations	Enables you to monitor metrics and KPIs on investigations, with data visualizations that update automatically whenever new data is uploaded. You can do the following: • Use existing investigations to arrange and analyze your favorite and most relevant business process data. • Visualize, consolidate, and group data in widgets for in-depth process analysis. • Move widgets up and down. • Use an AI-assisted capability that helps to create widgets based on natural language prompts. • Filter your data analysis scope across an investigation or an investigation chapter, at both case and event levels. For example, you can filter by activities, date ranges, attributes, and behaviors. • Use process views to switch between different analytical perspectives.

Key Feature	Use

Widgets	Enables you to do the following:
	• Use graph widgets to compare actual execution paths against designed models, explore process variants, and understand the most common workflows in your business processes. You can do the following:
	  • View process models generated from event log data.
	  • Analyze conformance, cycle times, and activity sequences.
	  • Explore process variants and their distribution.
	  • Identify entry and exit points in processes.
	  • Compare the actual process flow with planned models.
	• Use widgets that visualize data in charts or tables, or display aggregated values, for example, to highlight patterns and trends, and identify bottlenecks and risks. You can do the following:
	  • Create visualizations in widget builder interactive mode with drag-and-drop functionality for attributes and metrics.
	  • Write SIGNAL queries in a code editor for advanced analysis.
	  • Customize visual appearance including colors, sorting, and data labels.
	  • Set thresholds for aggregated values and data in charts and tables.
	  • Export widget data as CSV files.
	  • Share Live Insights shapes from widgets to BPMN diagrams, value chains, journey models, and navigation maps.
	• Filter your data analysis scope per widget, at both case and event levels. For example, you can filter by activities, date ranges, attributes, behaviors, and advanced SIGNAL queries.

Findings Management and Collaboration

Key Feature	Use
Algorithm-based insights generation	Enables you to automatically detect unusual patterns and correlations in your data using integrated algorithms, and record these findings as insights. You can do the following: • Document your process findings through automated generation, allowing you to capture insights at any point in time. • Visualize and share your discoveries, making it easier to communicate findings across your organization. • Customize the insights generation scope by using metric and attribute filters that are applied at case level.
AI-assisted insights generation	Enables you to use an AI-assisted capability that helps to discover meaningful patterns and trends in your data through natural language. You can do the following: • Select valid metrics and attributes from the event log by entering natural-language queries. • Generate relevant insights automatically from query findings. • Save generated insights and share them with stakeholders.

Key Feature	Use
Manual insights capture	Enables you to capture data analysis findings and record these discoveries at any point in time. You can do the following: • Create insights to capture findings on investigations, dashboards, and widgets. • Generate insight descriptions automatically with AI. • Preserve the exact state of your data at the time the insight is created. • Associate insights with multiple initiatives to maintain visibility across different improvement efforts. • Automatically store any filters applied during insight creation. • Share insights with stakeholders to enable collaboration.

Workflows

Key Feature	Use
Analysis workflows	Enables you to do the following: • Automatically query business process data based on conditions, which can range from data anomalies to thresholds and are defined using SIGNAL queries. • Define actions such as sending emails, messaging in platforms, or starting processes in other systems whenever specified conditions within the process data are met. • Send SIGNAL query results to SAP and non-SAP systems. A workspace administrator must have integrated these systems. • Schedule workflows to run at custom intervals or when data is uploaded. • Receive notifications about new results for an analysis workflow that you created or are assigned to.

Root Cause Analysis

Key Feature	Use
Root cause analysis	Enables you to identify and understand the underlying factors that drive your process performance. You can do the following: • Automatically analyze your data to identify subgroups and behavioral patterns that affect metric performance. • Quantify how specific subgroups within your analysis configuration affect overall metric performance. • Access AI-assisted interpretations and diagnoses. • Receive AI-driven actionable recommendations.

Value Analysis

Value analysis brings together metrics from out-of-the-box and custom process analysis, letting you analyze the potential value of process improvements within a consolidated view.

Key Feature	Use
Value analysis	Enables you to see how much your organization can gain by optimizing its processes. You can do the following: • Create and manage value cases based on standard performance indicators, frequent blockers in process flows, or customizable metrics to make informed decisions about where to focus your process improvement investments. • Access predefined value cases for standard performance indicators and frequent blockers in process flows, complete with industry benchmarks and calculation formulas. • Create custom value cases for customizable metrics, defining your own formulas, assumptions, and improvement targets to address your business requirements. • Create custom value cases for standard performance indicators or frequent blockers in process flows, to adapt default improvement targets or SAP-suggested assumptions, while keeping the predefined formula unchanged. • Access a filtering option for a value calculation that allows you to drill down into the details by selecting filters and filter values. • Monitor your progress towards achieving the potential value for each performance indicator or frequent blocker in a process flow.

Search

A global search is available for out-of-the-box and custom process analysis.

Key Feature	Use
Global and object-specific search capability	Leverages the capabilities of SAP Signavio Process Transformation Suite to enable you to do the following: • Use the search in the top bar of the solution to find analysis configurations, customizable dashboards, and investigations based on key terms when you're interested in custom process analysis. • Use the search in the top bar to run an AI-based semantic search for SAP-defined business content based on key terms. • Search on overview pages to find objects of the same type. • Use the breadcrumb search to find related objects.

2.7 Data Privacy Management

Features for data privacy management are provided in SAP Signavio Process Intelligence.

SAP Signavio Process Intelligence supports two types of process analysis: out-of-the-box and custom process analysis. The features listed here are available only for out-of-the-box process analysis, which is based on data

collected using standardized data integration for business content defined and delivered by SAP, ready for immediate use.

Data for Out-of-the-Box Analysis

Key Feature	Use
Retrieval of records containing personal data	Enables authorized users to search for instances of personal data stored for a data subject.
Download of records containing personal data	Enables authorized users to download the records of personal data retrieved.
Deletion of fields containing personal data	Enables authorized users to delete fields containing personal data in the records retrieved.

3 SAP Signavio Process Intelligence Legacy Package

The key features listed here are provided with any of the SAP Signavio Process Intelligence legacy packages.

3.1 Administration

Administration features for process analysis are provided with the SAP Signavio Process Intelligence legacy package.

Key Feature	Use
Integration of analysis workflows	Enables you to integrate SAP Signavio Process Intelligence with SAP and non-SAP systems. Analysis workflows can then send SIGNAL query results to these systems.

3.2 User Management and Authorization

User management and authorization features are supported by the SAP Signavio Process Intelligence legacy package.

Key Feature	Use
Authorization for features	Leverages the capabilities of SAP Signavio Process Transformation Suite for authorization management based on feature sets. Feature sets provide predefined collections of permissions that allow workspace administrators to manage access to features centrally.
User management	Leverages the capabilities of SAP Signavio Process Transformation Suite for user management.
Role-based access to and within the data management directory	Enables authorized users to grant other users access to the data management directory, its folders, customizable data connections, source data sets, data pipelines, and on-premises extractors based on assigned roles.
Role-based access to data and actions in analysis configurations	Enables authorized users to grant other users access to data defined in an analysis configuration and to the specific actions that can be applied to the data, for example, creating, viewing, or editing. Access is granted using roles.

Key Feature	Use
Access to data based on process views in analysis configurations	Enables you to create process views for use in analysis configurations. Process views are used to define the data that other users access by filtering and hiding attributes to restrict data visibility. They let you also grant dashboard access to specific users or groups.
Access to dashboards and investigations	Enables you to choose an access level for dashboards and investigations. Access levels define whether other users can view and edit the dashboards and investigations you've created.

3.3 Data Integration

Data integration features are provided with the SAP Signavio Process Intelligence legacy package.

Key Feature	Use
File-based data provision	Enables you to do the following: • Upload CSV, XES, or zipped files containing event logs and case attribute data manually to an analysis configuration. • Upload CSV, XES, or zipped files containing event logs and case attribute data to an analysis configuration using the data upload API.
Pipeline-based data provision	Enables you to define which customizable data connections, source data sets, and transformation rules (data modeling) are used to extract data from source systems and how to transform and load the data into an analysis configuration.
Customizable data connections	Enables you to create custom data connections to establish a link between various types of supported source systems (SAP and non-SAP systems) and SAP Signavio Process Intelligence using standard connectors. You can do the following: • Connect to SAP and non-SAP cloud systems such as SAP Ariba, SAP ERP (RFC), Microsoft SQL Server, and ServiceNow. • Connect to SAP and non-SAP on-premises systems such as SAP Ariba, SAP ERP (RFC), Microsoft SQL Server, and ServiceNow. • Connect to ABAP systems using the standard SAP ERP through RFC function module, RFC_READ_TABLE, to extract data from the SAP database tables. You can use the RFC function module for ABAP systems with SAP Basis component version 7.40 and above. • Synchronize data with replication flows in SAP Datasphere.

Key Feature	Use
Data extraction configuration	Enables you to create source data sets to define which data to extract from a connected source system. You can do the following: • Define which tables and columns to extract from a source data set. • Set partition strategies for efficient data extraction. • Apply delta filters for incremental data updates. • Configure standard or scripted data extraction as needed. • Manage data retention policies for source data. • Pseudonymize data from source systems at the column level in source data sets. The corresponding data from the source systems is then replaced with artificial pseudonyms during the extraction phase.
Ingestion API	Enables you to ingest data collected from any source systems via custom implementations into SAP Signavio Process Intelligence using data integration tools.
SIGNAL OData API	Enables you to export data collected through OData views from custom process analysis, without exposing the underlying data model.

3.4 Data Modeling

Data modeling features are provided with the SAP Signavio Process Intelligence legacy package.

Key Feature	Use
Data transformation configuration	Enables you to create and configure case-based and object-based pipelines for data transformation. You can do the following: • Define transformation rules using SQL scripts. • Share pipeline configurations across workspaces using import and export options. • Establish deterministic sorting rules when multiple events share the same timestamp, ensuring consistent and predictable event sequence analysis in your data pipeline. • Use data pipelines templates that are available in the value accelerator library for SAP Signavio solutions to set up data pipelines faster. • Define and manage data views for reusable transformations.
Data extraction with source data sets	Enables you to connect a data pipeline with source data sets, which define the data to extract from a connected source system.

Key Feature	Use
Object-based data models	Enables you to create an object-based data model once and use it to define multiple process perspectives through case scopes, allowing the same data to support multiple object-centric process analyses. You can do the following: • Create objects with key fields and attributes. • Create attribute and event collectors for objects. Collectors are SQL scripts that extract data from the source system for each object. • Establish relationships between objects. • Link events across multiple interconnected objects, enabling end-to-end visibility of complex processes. • Visualize data models with entity relationship diagrams. • Include or exclude objects and their relationships within process semantic views. • Download event logs for external analysis.
Case-based data models	Enables you to do the following: • Create business objects with case attributes and event collectors. • Configure process data models with context relations. • Include or exclude business objects and collectors from the event log. • Connect case-based pipelines to an analysis configuration for custom process analysis. • Download event logs for external analysis.
Data pipeline running and monitoring	Enables you to do the following: • Run case-based data pipeline flows with extract, transform, and load operations. • Run object-based data pipeline flows with extract and transform operations. • Schedule automatic data pipeline runs. • Monitor runs of data pipelines and process semantic views through logs that display extraction, transformation, and load phase details.
Data pipelines validation	Enables you to run data pipeline health checks to identify configuration issues. You can do the following: • View errors, warnings, and informational messages. • Navigate directly to problematic configurations from health check results. • Validate SQL syntax and data type compatibility. • Ensure that mandatory columns are present in collectors.
Process semantics definition	Enables you to create multiple process perspectives from a single object-based data pipeline.

3.5 Analysis Configuration

Analysis configuration features are provided with the SAP Signavio Process Intelligence legacy package.

Key Feature	Use

Data provision	Enables you to do the following:
	• File-based provision of data:
	  • Upload event logs and case attribute data manually.
	  • Upload event logs and case attribute data using the data upload API.
	• Specify source system types to allow for metric recommendations.
	• Define merge strategies for data uploads.

Access to data with process views	Enables you to define at the column level in event logs which users can use which data for custom process analysis. You can also use process views to grant dashboard access to specific users and user groups.
Volume tracking	Enables you to view the number of analysis configurations, cases, and events in the data store.
Data access via APIs	Enables you to generate and manage API tokens for access through external systems.
Analysis configuration connections	Enables you to connect analysis configurations to multiple dashboards, value cases, analysis workflows, and more.
Customizable metrics	Enables you to do define the individual set of customizable metrics for each analysis configuration. You can do the following: • Use predefined metric templates from a built-in library that are categorized and recommended based on the source system and process type to create the metrics needed for process analysis. • Create your own metrics from scratch. • Configure variables for metrics to support reusability. • Write SIGNAL queries in code editor for custom-tailored metrics. • Track metric progression over time. • Set thresholds for metrics to indicate whether they meet the targets defined in your organization. • Export and import metrics across analysis configurations.
Custom attributes	Enables you to add your own attributes without changing original event log data, enabling new dimensions or measures for analysis. For example, you can use custom attributes to count occurrences, measure the duration between timestamps, or create advanced calculations with the help of SIGNAL language functions.
OData views	Enables you to share SIGNAL query results with external systems using the OData API.

3.6 Process Analysis

Process analysis features are provided with the SAP Signavio Process Intelligence legacy package.

Analysis Language

Key Feature	Use
SAP Signavio analytics language (SIGNAL)	Enables you to run tailored analysis with SAP Signavio analytics language (SIGNAL), a specialized query language for process analysis.

Data Visualizations

Key Feature	Use
Dashboards	Enables you to monitor metrics and KPIs on dashboards, with data visualizations that update automatically whenever new data is uploaded. You can do the following: • Use pre-built dashboard templates that are available in the value accelerator library for SAP Signavio solutions or create your dashboards from scratch. Dashboards include widgets that display your favorite and most relevant data. • Monitor metrics and KPIs in near real time, with data visualizations in widgets that update automatically whenever new data is uploaded to the linked analysis configuration. • Visualize, consolidate, and group data in widgets for in-depth process analysis. • Add, arrange, resize, and reposition widgets through intuitive drag-and-drop functionality. • Use an AI-assisted capability that helps to create widgets based on natural language prompts. • Filter your data analysis scope across a dashboard or a dashboard page, at both case and event levels. For example, you can filter by activities, date ranges, attributes, behaviors, and advanced SIGNAL queries. • Switch between process views for different analytical perspectives.
Investigations	Enables you to monitor metrics and KPIs on investigations, with data visualizations that update automatically whenever new data is uploaded. You can do the following: • Use existing investigations to arrange and analyze your favorite and most relevant business process data. • Visualize, consolidate, and group data in widgets for in-depth process analysis. • Move widgets up and down. • Use an AI-assisted capability that helps to create widgets based on natural language prompts. • Filter your data analysis scope across an investigation or an investigation chapter, at both case and event levels. For example, you can filter by activities, date ranges, attributes, and behaviors. • Use process views to switch between different analytical perspectives.

Key Feature	Use

Widgets	Enables you to do the following:
	• Use graph widgets to compare actual execution paths against designed models, explore process variants, and understand the most common workflows in your business processes. You can do the following:
	  • View process models generated from event log data.
	  • Analyze conformance, cycle times, and activity sequences.
	  • Explore process variants and their distribution.
	  • Identify entry and exit points in processes.
	  • Compare the actual process flow with planned models.
	• Use widgets that visualize data in charts or tables, or display aggregated values, for example, to highlight patterns and trends, and identify bottlenecks and risks. You can do the following:
	  • Create visualizations in widget builder interactive mode with drag-and-drop functionality for attributes and metrics.
	  • Write SIGNAL queries in a code editor for advanced analysis.
	  • Customize visual appearance including colors, sorting, and data labels.
	  • Set thresholds for aggregated values and data in charts and tables.
	  • Export widget data as CSV files.
	  • Share Live Insights shapes from widgets to BPMN diagrams, value chains, journey models, and navigation maps.
	• Filter your data analysis scope per widget, at both case and event levels. For example, you can filter by activities, date ranges, attributes, behaviors, and advanced SIGNAL queries.

Findings Management and Collaboration

Key Feature	Use
Algorithm-based insights generation	Enables you to automatically detect unusual patterns and correlations in your data using integrated algorithms, and record these findings as insights. You can do the following: • Document your process findings through automated generation, allowing you to capture insights at any point in time. • Visualize and share your discoveries, making it easier to communicate findings across your organization. • Customize the insights generation scope by using metric and attribute filters that are applied at case level.

Key Feature	Use
Manual insights capture	Enables you to capture data analysis findings and record these discoveries at any point in time. You can do the following: • Create insights to capture findings on investigations, dashboards, and widgets. • Generate insight descriptions automatically with AI. • Preserve the exact state of your data at the time the insight is created. • Associate insights with multiple initiatives to maintain visibility across different improvement efforts. • Automatically store any filters applied during insight creation. • Share insights with stakeholders to enable collaboration.

Workflows

Key Feature	Use
Analysis workflows	Enables you to do the following: • Automatically query business process data based on conditions, which can range from data anomalies to thresholds and are defined using SIGNAL queries. • Define actions such as sending emails, messaging in platforms, or starting processes in other systems whenever specified conditions within the process data are met. • Send SIGNAL query results to SAP and non-SAP systems. A workspace administrator must have integrated these systems. • Schedule workflows to run at custom intervals or when data is uploaded. • Receive notifications about new results for an analysis workflow that you created or are assigned to.

Root Cause Analysis

Key Feature	Use
Root cause analysis	Enables you to identify and understand the underlying factors that drive your process performance. You can do the following: • Automatically analyze your data to identify subgroups and behavioral patterns that affect metric performance. • Quantify how specific subgroups within your analysis configuration affect overall metric performance.

Value Analysis

Key Feature	Use
Value analysis	Enables you to see how much your organization can gain by optimizing its processes. You can do the following: • Create custom value cases for customizable metrics, defining your own formulas, assumptions, and improvement targets to address your business requirements. • Access a filtering option for a value calculation that allows you to drill down into the details by selecting filters and filter values.

Search

Key Feature	Use
Global and object-specific search capability	Leverages the capabilities of SAP Signavio Process Transformation Suite to enable you to do the following: • Use the search in the top bar of the solution to find analysis configurations, customizable dashboards, and investigations based on key terms. • Search on overview pages to find objects of the same type. • Use the breadcrumb search to find related objects.

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