



QPR ProcessAnalyzer 2025.7 – New features

Next generation AI Root Causes analysis built on Snowflake Top Insights



- *Snowflake Top Insights* provides new methods to analyze features for root causes:
 - Analyzes combination of different features (e.g., attribute A is B and attribute C is D)
 - Analyzes combination of feature values (e.g., attribute value is A or B)
 - Analyzes numeric and date value ranges (e.g., attribute is greater/less than)
 - Analyzes inverse of values (e.g., attribute value is not A)
- Following features are analyzed as potential root causes:
 - Case attribute values
 - Event attribute values
 - Case has specific event type
 - Case has specific flow
 - Starting and ending event
 - Variation
 - Case duration
- Any numerical measure can be set as weight for the cases (called *metric* in Top Insights)

docs.snowflake.com/en/user-guide/ml-functions/top-insights

A screenshot of the Snowflake Top Insights configuration interface. It shows a series of dropdown menus and checkboxes. Two arrows from the text 'Following features are analyzed as potential root causes:' point to the 'Case attribute' and 'Event attribute' sections. Another arrow from 'Any numerical measure can be set as weight for the cases' points to the 'Metric' dropdown.

Analyzed objects
Snowflake Top Insights

Metric
Case attribute

Attribute
Cost

+ Column Filter

Analyze case attributes
Product Group, Region, Supplier

Analyze event attributes
Work type, Event Type

Analyze top event attribute values
10

Analyze top flows
50

☒ Analyze first and last event

☒ Analyze variation

☒ Analyze case duration

Presets for AI Root Causes analysis



- AI root causes presets added:
 - AI Root causes for case attributes
 - AI Root causes for case attributes weighted by case attribute
 - AI root causes using all features
- Filters can be created to drill down to the root cause cases
- Performance is improved with sampling cases and the sampling effect is compensated in the case counts
- Both "classic" QPR root causes contribution and Snowflake Top Insights contribution are available
- Selection to find root causes is automatically removed from analyzed features to avoid correlation to itself
 - Top Insights tends to stop when it finds strong contributors
 - Tip: If there are strong correlations, remove the strongly correlating features to identify weaker correlations
- If desired to analyze numeric attribute as distinct categories, convert it to text

wiki.onqpr.com/pa/index.php/AI_Root_Causes

Root cause	Total cases #	Selected cases #	Selected cases %	Contribution #	Contribution %
(All cases)	10,489 cases	482 cases	4.6 %		
Cost is greater than 1,558.5	281 cases	281 cases	100.0 %	268 cases	55.7 %
Cases flowing through Sales order received → Sales order changed, Cost is ...	107 cases	102 cases	95.1 %	92 cases	19.1 %
Cost is less than or equal 248.0, Case duration is greater than 147 days	107 cases	99 cases	92.2 %	86 cases	17.9 %
Cost is less than or equal 1,558.5, Case duration is greater than 147 days	250 cases	99 cases	39.5 %	34 cases	7.1 %
Cases flowing through Sales order received → Sales order changed, Cost is ...	406 cases	102 cases	25.1 %	21 cases	4.3 %
Cases not flowing through Sales order received → Sales order changed, Co...	9,552 cases	0 cases	0.0 %	0 cases	0.0 %
Cases flowing through Sales order received → Sales order changed, Cost is ...	299 cases	0 cases	0.0 %	0 cases	0.0 %
Cost is less than or equal 1,558.5, Case duration is less than or equal 147 d...	9,958 cases	102 cases	1.0 %	-4 cases	-0.8 %
Cost is less than or equal 1,558.5	10,208 cases	200 cases	2.0 %	-5 cases	-1.1 %

Selector component to quickly filter date and number ranges



- **Range Filter** is a new dashboard component to add any filter rules for date and number ranges
- Works also when selecting only the start or end value
- Menu to quickly select common date periods
 - Possible to quickly go period-by-period forward and backward
- Component works two-ways, so start and end are filled automatically based on changed filter rules
- Cases and event filtering is possible
- Component can be bound to the *DashboardFilter* variable to create hidden filter rules
- Input boxes layout is horizontal or vertical depending on component dimensions in dashboard

wiki.onqpr.com/pa/index.php/Range_Filter

Sales Order created

Start date
07/01/2025

End date
09/30/2025

Lead time from order to delivery

Value from
20

Value to

days

Remove filter

Quarter before (Q2 / 2025)

Quarter after (Q4 / 2025)

Last year

Last quarter

Last month

Last week

Yesterday

This year

This quarter

This month

This week

Today

Next year

Next quarter

Next month

Next week

Tomorrow

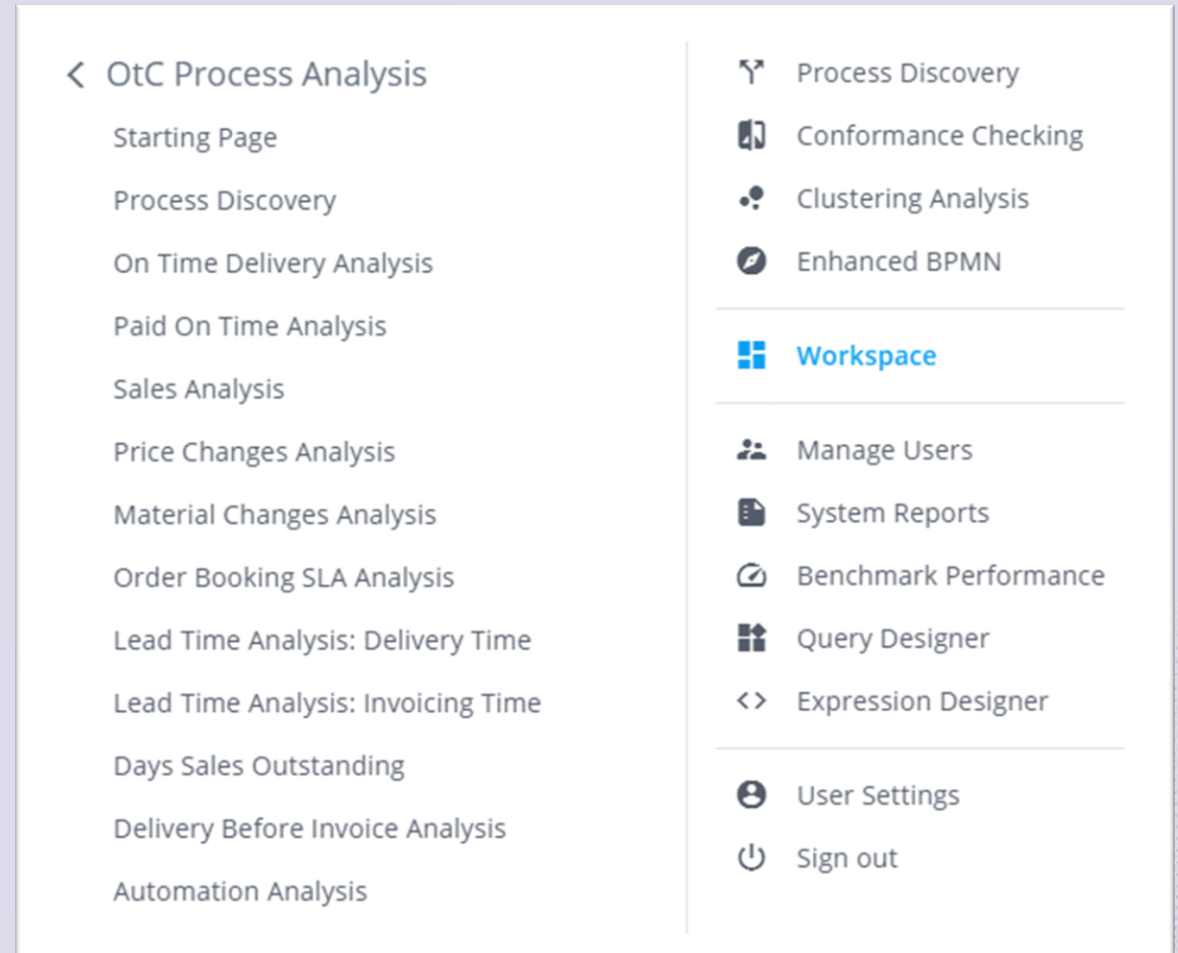
Projects can be browsed directly in navigation menu to access all dashboards



- Navigation menu is organized into two columns: dashboards on the left and system functions on the right
 - With the new layout, system functions are always visible
- Any dashboard can be opened using the navigation menu: click the project name to open project's hierarchy
 - Only projects that have dashboards are shown, and also projects that have child projects with dashboards
- Order of dashboards can be adjusted with the **SortOrder** variable if alphabetical order is not desired
- Dashboards can be hidden with the **HiddenInNavigation** variable
 - E.g., drilldown/detail dashboards can be hidden

wiki.onqpr.com/pa/index.php/Navigation_Menu

wiki.onqpr.com/pa/index.php/Dashboard_Variables#Dashboard_Variables



Several security improvements for HTTP headers etc.



- When QPR ProcessAnalyzer is embedded to another website, SAML authentication is performed in a separate tab for more robust operation
 - Popups need to be enabled in the browser for automatic login
 - Clicking the embedded frame will initiate the login with popups disabled

wiki.onqpr.com/pa/index.php/Embed_to_Website

- Content-Security-Policy HTTP header has been changed to more secure by removing following directives:
 - script-src 'unsafe-eval'
 - img-src blob:
- Added security related HTTP headers:
 - X-Permitted-Cross-Domain-Policies: none
 - Cross-Origin-Embedder-Policy: require-corp, Cross-Origin-Opener-Policy: same-origin, Cross-Origin-Resource-Policy: same-origin
 - Referrer-Policy: same-origin
 - Permissions-Policy: accelerometer=(), camera=(), geolocation=(), gyroscope=(), magnetometer=(), microphone=(), payment=(), usb=()

wiki.onqpr.com/pa/index.php/QPR_ProcessAnalyzer_Security_Hardening#HTTP_Response_Headers

- AI Agent uses language model in the Snowflake account where selected QPR ProcessAnalyzer model is located
 - Prompt datasets can originate from different Snowflake accounts and language model different



QPR

Founded

1991

Corporate headquarters

Helsinki, Finland

Customers

Over 2000

Stock symbol

QPR1V:
Nasdaq, Helsinki

Licenses sold

Over 1 million
worldwide

Products

The Process Intelligence Suite:
QPR ProcessAnalyzer
QPR EnterpriseArchitect
QPR ProcessDesigner
QPR Metrics

Industry recognitions

Gartner® Magic Quadrant™ for Process Mining Platforms
2023, 2024 & 2025
Everest Group: Process Mining Products PEAK Matrix®
Quadrant Knowledge Solutions:
SPARK Matrix for Process Mining
Forrester Research, Ventana Research, Palladium