

# What's New in Analytics

R24 AMR

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## Analytics

### Transact Data Hub ⇒ Setting TDH Log Level

Available from: **202306**

Transact Data Hub is enhanced to maintain the TDH log levels in each module and is defaulted to either INFO, ERROR, WARN, or DEBUG based on the requirements.

The user can add or set a log level in the `tde_chart > values.yaml` file.

Externalizing the log level allows the user to

- Change the INFO, WARN, DEBUG, and ERROR logs to WARN or ERROR logging levels.
- Default the logging levels to WARN only.

The topic related to this feature is given below:

❖ [Setting TDH Log Level](#)

### Extract Data Store ⇒ Handling Exceptions while Processing Records in Extract Data Store

Available from: **202306**

TDH is now enhanced to capture all the exceptions while processing records in EDS and store them in the metastore database. All errors and failed records are logged in the **EDS\_EXCEPTION** table, along with error codes and messages.

The topic related to this feature is given below:

❖ [EDS Exception Handling](#)

### Transact Data Hub ⇒ Landing Exception Handling

Available from: **202306**

The landing exception feature is now introduced to capture all the exceptions while processing records in the landing process. Any failure records during the landing process are stored in the metastore database of TDH.

The topic related to this feature is given below:

❖ [Landing Exception Handling](#)

### Analytics Web Runtime ⇒ Pivot Report

Available from: **202307**

Pivot Report runtime filter provides user the capability to filter the Pivot Report data when the report's data source is the Dataset.

When the Pivot Report's data source is the Dataset, it is desired to filter report data but still be able to share the same Dataset

among other reports. Previously it would need to create one dataset for each Pivot Report that requires the filter.

When a Pivot Report's data source is Dataset,

- One or multiple filters can be applied to the report data to limit report data retrieved from the reporting database.
- When executing report, user can select different value to filter the report data
- When defining the report layout, only top 1000 report records are loaded when layout window is launched, but there is a dropdown option to show more or all report data.

#### Installation and Configuration Notes

InsightSystem database requires schema migration. Schema changes are available in 2023.07 installation pack.

The topics related to this feature are given below:

- ❖ [Using Runtime Filters within Pivot Reports](#)
- ❖ [Configuring Runtime Filters](#)

### Transact Data Hub ⇒ Optimisation Techniques

Available from: **202308**

Transact Data Hub is enhanced with the following optimisation techniques:

- **Scalable Spark Process:** Allows a smaller number of cores, that is, fractions in the new fields, such as *executorRequestCores*, *driverRequestCores*, and *fractionEnabled* of the **values.yaml** file.
- **Iterative Read Cost Reduction:** Allows to read the data in Landing at the defined interval in the new field called *Trigger Interval*.

The topic related to this feature is given below:

- ❖ [Optimisation Techniques](#)

### Temnos Monitoring ⇒ Configuring TemnMonitor

Available from: **202309**

Previously, TemnMonitor supported images using FileBeats within a container. It is now integrated with TDE to view the dataflows in the dashboard by using FileBeats as a separate container that runs alongside an application container in a Kubernetes pod (helper application for portal pods).

The topic related to this feature is given below:

- ❖ [Configuring TemnMonitor](#)

### Transact Data Hub ⇒ UBI Base Image Integration

Available from: **202309**

Temenos base images are standardized images that comprise of Operating System and essential third-party software and packages required to build the product containers. These images are scanned for vulnerabilities and required exclusions are done by the Security team. The CVE Exclusion release notes are bundled along with the image kits, and product docker packages from distribution which are added to the exclusion list in the target scanning registry. The packages are primarily bundled with base images and the same can be consumed by the product docker containers.

- ARG BASE\_REPO
- ARG BASE\_TAG

Temenos Data Engineering (TDE) package is now enhanced with the BASE\_REPO and BASE\_TAG values that can be passed by the customer when they start building the product images and the same are consumed by the product docker containers.

**The topic related to this feature is given below:**

❖ [UBI Base Image Integration](#)

### Semantic Query Layer ⇒ Supporting GC with SSL and Keycloak

Available from: **202309**

Semantic Query Layer now supports connectivity to GCMS set with Keycloak and SSL.

**The topics related to this feature are given below:**

- ❖ [GC Details in On-Prem](#)
- ❖ [GC Details in Azure](#)
- ❖ [GC Details in OpenShift](#)
- ❖ [GC Details in AWS](#)

### Transact Data Hub ⇒ Supporting OutBox Events from Transact

Available from: **202310**

Temenos Data Engineering (TDE) now partially supports the OutBox events from Transact. Events are not stored in tables and DES dependency is removed using Outbox thereby reducing the IO operations and improving the overall performance.

**The topic related to this feature is given below:**

❖ [OutBox](#)

### Transact Data Hub ⇒ Temenos KeyVault Integration with TDH

Available from: **202310**

Transact Data Engineering is enhanced with the Temenos Vault application to pull the Secrets from the Key Vault or any other Cloud service and add them in a secure manner as a part of product security.

**The topic related to this feature is given below:**

❖ [Temenos KeyVault Integration with TDH](#)

### **Transact Data Hub ⇒ User Externalisation**

Available from: **202310**

TDH now supports user externalization, any external user with proper roles can now access TDE application without being created or maintained in the TDE application.

Any external user (through OKTA or Keycloak) with proper roles can now:

- Access TDE application without being created or maintained in the TDE application.
- Execute ODS APIs passing the access token

**The topic related to this feature is given below:**

❖ [User Externalisation](#)

### **Analytics Web ⇒ Dataset OData URL Display Option**

Available from: **202402**

The OData API endpoints were initially introduced before the REST Open API in Analytics application, functioning without data streaming capabilities, and constrained by a 2GB data size limit. Many applications that once solely accepted OData have now support Open API. To streamline the user experience, Temenos Analytics has introduced the options to hide the OData URL by default on content definitions in the Web UI, encouraging users to leverage the more efficient REST Open API for data retrieval.

Users can now set visibility of Dataset OData URL, prioritizing the REST API to ensure the handling of larger dataset queries by leveraging its data streaming capabilities.

**The topic related to this feature is given below:**

❖ [System Settings](#)

### **Analytics Web ⇒ Dataset CSV Data Download**

Available from: **202402**

Temenos Analytics expanded its Data Service APIs features to include CSV download alongside the existing JSON format through Data Service CSV Data Query API.

All CSV downloads support streaming for large dataset retrieval.

**The topics related to this feature are given below:**

- ❖ [Temenos Analytics Overview](#)
- ❖ [Introduction to Analytics API Services](#)
- ❖ [System Settings](#)
- ❖ [Datasets Design](#)

**Analytics Web ⇒ Quick Report CSV Data Download**

Available from: **202402**

Temenos Analytics expanded its Quick Report's features to include CSV download alongside the existing JSON format through Quick Report data CSV download.

All CSV downloads support streaming for large dataset retrieval.

**The topics related to this feature are given below:**

- ❖ [Temenos Analytics Overview](#)
- ❖ [Introduction to Analytics API Services](#)
- ❖ [Quick Reports](#)
- ❖ [Quick Reports Design](#)

**Transact Date Hub ⇒ Integrating Outbox and TDE**

Available from: **R24AMR**

It is now possible to stream the Outbox events to TDE.

- Temenos Data Engineering (TDE) supports the Outbox events from Transact.
- Events are not stored in tables and DES dependency is removed using Outbox, hence it reduces the IO operations and improves the overall performance.

**The topics related to this feature are given below:**

- ❖ [Introduction to Outbox](#)
- ❖ [Configuration](#)
- ❖ [Schema Processing](#)
- ❖ [Data Processing](#)
- ❖ [Schema Change Processing](#)
- ❖ [Performing ILP](#)

**ADS Masking ⇒ ADS Masking**

Available from: **R24AMR**

The ADS Masking module allows the user to convert the incoming row of data into masked data based on the predefined masking configuration given in the Param table. This is a standalone architecture that can be installed in any data flow such as ADS and CDIC.

The topic related to this feature is given below:

❖ [ADS Masking](#)

### Analytics Web ⇒ Quick report runtime parameter selection enhancement (Associated Column)

Available from: **R24AMR**

This new feature complements the existing runtime filtering facility of Quick Reports in the Analytics web UI. It allows to enable multi-column selections on the value column when setting up a Dataset type runtime parameter at design time. The value column is defined as runtime filter while the extra columns, called associated columns, are used to provide additional information about the value column selected. These associated columns are only available to dataset-type parameters.

The adoption of associated columns enables the use of more meaningful columns for selection than using non-meaningful columns such as the id column or account number column at the runtime. E.g., if Company Id is selected as runtime filter (value column), columns such as Company Name and Region (associated columns) can be added to the values dropdown to provide further context around the list of companies that can be used as filters.

The topics related to this feature are given below:

- ❖ [Quick Reports](#)
- ❖ [Quick Reports Design](#)

### DW Export ⇒ Reconciliation Mechanism

Available from: **R24AMR**

During streaming of offline or real time data, a reconciliation mechanism is introduced to reconcile data by sending the data in micro-batches (which can be configured from one record). This micro-batches contain having meta-data with the reconciliation information.

#### Installation and Configuration Notes

- Set the Enable to Yes in 'STREAM.RECON.MESSAGES' record of **DW . ADVANCED . SETTINGS**.
- Set the Enable to Yes in 'UPDATE.ONLINE.RECON.TABLE' record of **DW . ADVANCED . SETTINGS**.

The topics related to this feature are given below:

- ❖ [Extraction](#)
- ❖ [Advanced Settings](#)

## **Temenos Data Hub** ⇒ **Creating ODS API using Workbench**

Available from: **R24AMR**

Semantic Query Layer (SQL) is a framework that helps you to retrieve Temenos Transact Data from various data stores (external databases) such as Operational Data Store (ODS), and Analytical Data Store (ADS) using APIs. Temenos Workbench was previously deployed on the Kony Fabric server to retrieve data from the data stores, whereas ODS Workbench was a separate tool.

SQL is now enhanced with ODS Workbench integrated with Temenos Workbench to create new APIs and amend default out-of-box APIs to retrieve data from the ODS data store.

### **The topics related to this feature are given below:**

- ❖ [ODS API in Semantic Query Layer](#)
- ❖ [SQL Architecture in Azure](#)
- ❖ [SQL Architecture in an On-premises](#)
- ❖ [SQL Architecture in OpenShift](#)
- ❖ [SQL Architecture in AWS](#)

## **Transact Data Hub** ⇒ **Outbox Integration - TAP**

Available from: **R24AMR**

Wealth Front Office Model can now be replicated in TDH. TDH consumes Wealth cloud events through Outbox and replicates in Relational structure in ODS and SDS data stores in near real time.

### **The topic related to this feature is given below:**

- ❖ [Outbox Integration – TAP](#)

## **Analytics Web** ⇒ **Analytics Web Front End Application**

Available from: **R24AMR**

The Analytics Web application introduces new configuration options to enhance flexibility within the ASP .NET OpenID Connect (OIDC) Single Sign-On (SSO) implementation. The Analytics application deployment now has the ability to specify values to override defaults of the RedirectUrl option, which is used to define a custom callback URL for redirection following successful authentication by the OIDC provider, and of the SecurityPolicy option, which allows to specify the security policy to use for the OIDC SSO implementation.

### **The topic related to this feature is given below:**

- ❖ [Appendix – Helm Chart Values Options](#)

## **Corporate Pack Catalogue** ⇒ **Corporate Content Pack**

Available from: **R24AMR**

Temenos Analytics enhanced the existing Corporate Content Pack catalogue by including new Trade Finance data relationships and datasets, used to populate an improved catalogue of corporate banking visuals and reports. Corporate KPIs were completely redesigned.

**The topic related to this feature is given below:**

❖ [Corporate Pack Catalogue](#)

### **Retail Pack Catalogue** ⇒ **Retail Content Pack**

Available from: **R24AMR**

Temenos Analytics enhanced the existing Retail Content Pack catalogue by including new Customer- and Collateral-related datasets and by crafting a new set of Company-, Branch- and Date-related data relationships and datasets aimed to the enhancement of Quick Report performances. These are used to feed the already extensive catalogue of reports and dashboards, which includes some new information tiles and enhanced KPIs.

**The topic related to this feature is given below:**

❖ [Retail Pack Catalogue](#)

### **Financial Pack Catalogue** ⇒ **Financial Content Pack**

Available from: **R24AMR**

Temenos Analytics enhanced the existing Financial Content Pack catalogue by including a new set of data relationships and datasets that expose the GLConsolidatedObject from the Analytics Data Store and also Company-, Branch- and Date-related datasets aimed to the enhancement of Quick Report performances. The new datasets expose financial data to the rich, pre-existing catalogue of reports and dashboards, with some enhanced visuals.

**The topic related to this feature is given below:**

❖ [Financial Pack Catalogue](#)