What's New in

Analytics

April 2022

Table of Contents

Release Highlights

Analytics

Analytics » Quick Reports API Endpoints

Quick Reports can be configured to display an Analytics Data Service API endpoint that can be used to retrieve Quick Report data and consume it through other tools or applications for the further data exploration and analysis. Particularly in a cloud hosting environment, where ADS data store may not be available for direct access, Quick Report data APIs and RESTful web APIs can be consumed as a data source, e.g. through Microsoft Power BI, or Quick Report data can be downloaded as json file through APIs.

When retrieving data, query options can be used to set criteria for the data needed, and the report columns that should be returned.

To sum up, Quick Reports' data API endpoints allows users to:

- Accesses Quick Report data through RESTful web API supported OpenAPI
- Looks up and obtains Quick Report endpoint URI from web

> **The topic related to this feature is given below:**
>
> Analytics Web Front End

Analytics » Analytics API Gateway

A dataset query API endpoint that supports asynchronous string data streaming was included as part of the Analytics Data Service in R22. The asynchronous steam API alleviates memory demands on Analytics Data Service hosting server. Consuming the asynchronous stream API requires a programming language that builds an API client to support the asynchronous stream, or a tool that can interact with the asynchronous steam API.

The Analytics API Gateway service was introduced to ease the client application

by storing query results in formatted files, which currently rely on json format (other formats, such as csv support will be added in the future product enhancements). Users can download these files through FTP service when API Gateway is hosted in cloud, or directly from local file system when on-premises hosting is used.

The Analytics API Gateway includes the following functionalities:

- As its name suggests, it serves as gateway that provides a single-entry point not only for Analytics Data Service, but also for other components' APIs, such like TDH APIs, if required.
- Minimizes the number of requests and network traffic by assembling multiple query results into one response
- It reduces cross-cutting concerns by providing data transformation, dynamic request dispatching to Analytics Data Service, and/or TDH API if needs. It reuses existing authentication, and/or authorization provided by Analytics Data Service when a user accesses those services that do not implement authentication, or internal APIs.
- It improves Analytics Data Service's resilience, as well as other services', by adding Circuit breaker, Retry, Timeout patterns to the gateway service.

> **The topic related to this feature is given below:**
>
> Analytics API Services

Analytics » Analytics Web Connection Settings

The Connection Settings screen is a maintenance screen of the Analytics application's web UI, made available after the deployment of this application is completed. It allows users to set up and manage the connection settings to all services and databases used by the Analytics application, including both its web interface and its API services, e.g. the connection strings to the Analytics Data Store, to the Snapshot Data Store etc.

This screen includes the following functionalities:

- Allows users to maintain application services and database connections through the Analytics web UI. This is especially useful when application is hosted in Temenos Cloud where client doesn't have direct access to InsightSystem database, where all configuration settings for the Analytics applications are stored.
- Allows users to self-manage settings and connections to those services and databases that are hosted beyond Temenos Cloud.

> **The topic related to this feature is given below:**
>
> Analytics Web Front End

Analytics » Application-level data access security

This enables application-level data access or row-based security on the Analytics web UI by filtering data using login username at the Dataset or Quick Report definition level. However, it does not extend it to queries directly executed in the Analytics Data Store or when Auth02 is applied.

The data level security enforced by a Dataset is also supported when any of the following contents is built on the dataset:

- Quick Reports
- Information Tiles
- KPIs
- Pivot Reports

> **The topic related to this feature is given below:**
>
> Analytics Web Front End

TDE Designer » Performing Delete Operations in RDBMS

Banks can now delete records in RDBMS based on the mapping of input table column to target table. To enable this operation, delete components are introduced for MySQL, MsSQL, Azure SQL, Oracle, PostgreSQL and NuoDB.

> **The topic related to this feature is given below:**
>
> RDBMS Delete Components

Reconciliation » Scheduling Reconciliation Process

Banks can now schedule the Reconciliation process to run at regular intervals by setting a specific frequency (daily, weekly, and so on). When reconciliation is scheduled, the process triggers a reconciliation pod which is containerized in the TDE portal. Banks must configure the mailing parameters in the **Mailer Configuration** tab to receive notifications regarding the scheduled reconciliation job status from TDE.

> **The topic related to this feature is given below:**
>
> Level 1 and Level 2 Reconciliation

TDE - Administrator » Optimizing TDH

Extract Data Store (EDS), Operational Data Store (ODS) and Snapshot Data Store (SDS) processes are optimized to enhance the performance of Transact Data Hub (TDH), improving its transaction per second (TPS). Also, banks can

now configure Spark parameters using the **Spark Configuration** tab for each process.

> **The topic related to this feature is given below:**
>
> Configure Spark Parameters

Metadata Management » Supporting Metastore Database in any Database

In addition to MySQL database, banks can now create and manage Metastore database in any target database such as Oracle, PostgreSQL, Azure SQL, MSSQL or MySQL. The Object Relational Mapping (ORM) framework is implemented in ODS, SDS, EDS and ADS modules for Metastore tables. All operations on the Metastore tables are exposed as REST APIs.

> **The topic related to this feature is given below:**
>
> Metastore – DB Agnostic

AWS Support for TDH/AWS Installation » AWS Support for TDH

As part of Temenos Data Engineering, Transact Data Hub (TDH) products now support Amazon Web Service (AWS) across all layers such as ODS, SDS, ADS and EDS. Banks can deploy and provision TDH in its entirety with AWS managed services.

The topics related to this feature are given below:

AWS Installation

AWS Support for TDH