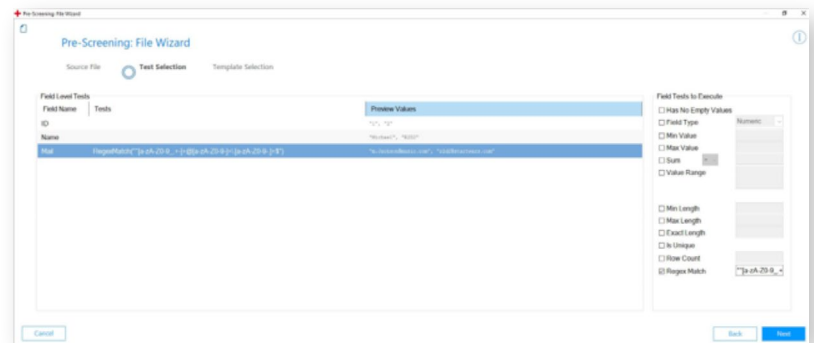# Tricentis

Tosca 2024.1: Cutting-Edge Features for Enhanced Data Integrity

The latest release of Tosca 2024.1 brings powerful new features designed to improve data integrity testing, streamline processes, and support more complex data environments. These enhancements are crucial for staying ahead in data-driven decision-making and ensuring that your data is accurate, consistent, and reliable.

Key Features and Benefits

Pre-screen Regular Expression Support

❯ **Technical Overview:** Introduces "Regex Match" in the Pre-Screening File Wizard and Metadata Tests, enabling format checks like SSN, dates, and phone numbers.

❯ **Benefits & Uses:** Enhances test coverage across various scenarios by delivering high-quality pre-screening and metadata tests.
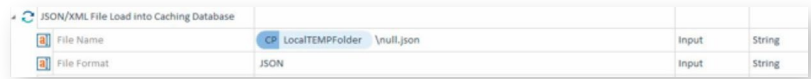

Support for Date & Time Comparisons

❯ **Technical Overview:** Simplifies date and time comparisons, allowing for tolerances and reducing the steps needed to author tests.

❯ **Benefits & Uses:** Makes it easier to compare dates and times in different formats, ensuring accurate data validation in less time.
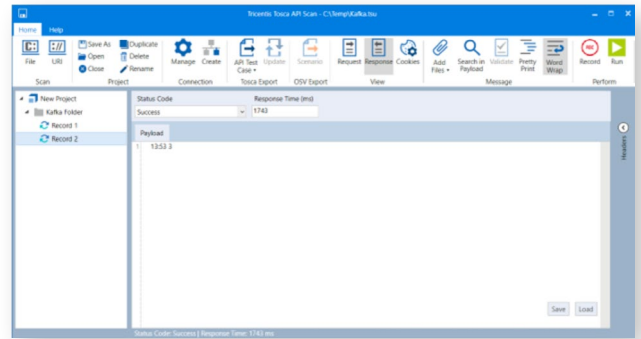
Expanded JSON Coverage for Null vs Existence Scenarios

➤ **Technical Overview:** Distinguishes between non-existing and null values in JSON objects, improving JSON handling during data loading.

➤ **Benefits & Uses:** Increases the accuracy and coverage of JSON-driven data integrity tests, especially in complex data synchronization tasks.
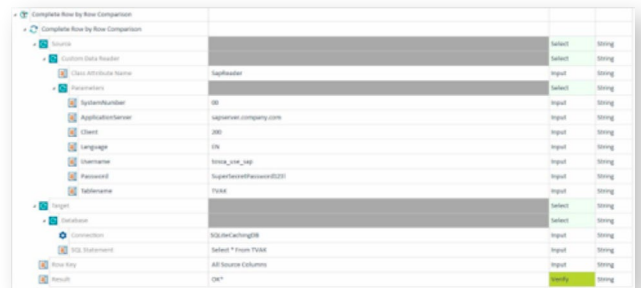

Support for Kafka (API Team Collaboration)

➤ **Technical Overview:** Leverages Kafka's "offsetbytimestamp" feature to search for offsets by timestamp, aligning tests with message windows.

➤ **Benefits & Uses:** Enhances the integration experience and expands the scope of data-driven tests related to Kafka partitions.

Native SAP Connection & Ingestion Support

➤ **Technical Overview:** Provides direct connectivity to SAP's application layer using RFC, eliminating security concerns associated with database-level connections.

➤ **Benefits & Uses:** Boosts data integrity testing coverage, satisfying security policies and accelerating SAP data testing.

Why It Matters

These new features in Tosca 2024.1 are designed to meet the growing demands of modern data environments. By expanding capabilities across formats, improving integration with leading technologies like Kafka and SAP, and simplifying complex data comparisons, Tosca 2024.1 ensures your data integrity processes are robust, secure, and mitigate risk.