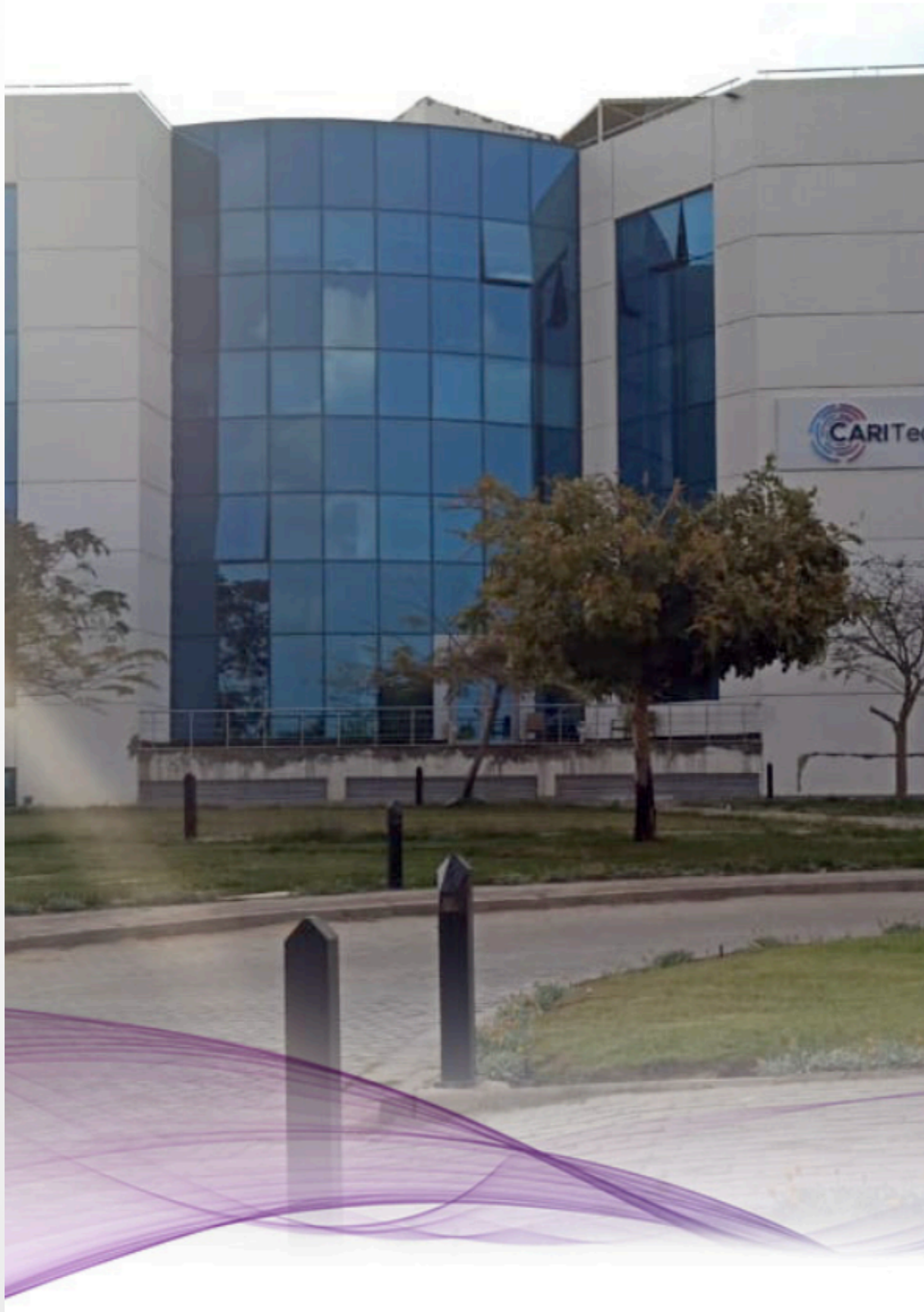


DATUM
Data Audit
Data Obfuscation
Data Conversion
Data Analytics





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Abbreviation and Jargon

COVID-19	C orona V irus D isease of 20 19
TSP	T echnology and S ervice P rovider
CSV	C omma S eparated V alues
On-prem	O n p remises
SaaS	S oftware a s a S ervice
DB	D atabase
ETL	E xtract, T ransfer, L oad
API	A pplication P rogramming I nterface
GDPR	G eneral D ata P rotection R egulation

Product Overview

Given the impact of COVID-19 and the rapid adoption of digital transformation, it is sensible for businesses to operate under the assumption that the new norm is increasing use of digital technologies.

In today's digital era, the volume of data generated by organizations is growing exponentially. During the journey to becoming more digitally ready, most organizations will need to replace obsolete systems, upgrade, and introduce new technologies. As a result, effective data management has become a critical aspect of running a successful business. One of the key challenges that organizations face is ensuring the accuracy, integrity of their data during the process of data transfer, conversion, and storage and adhering to GDPR.

This is where DATUM Data Management Solution comes into play, offering comprehensive modules and tools for data audit, conversion, obfuscation and analytic. Taking into consideration different deployment models including on perm or online or SaS based on the institutions' needs.





Product

At CARITech, “we strive to empower institutions to manage their main assets “their DATA” with the ability to easily handle and audit their data transfer between different systems” while complying to regulations and ensuring data integrity and accuracy .

Data Audit

Empower the audit team to ensure monitoring, controlling and tracking all changes made to the organization’s data when moving data from one system to another or upgrading the systems.

Data Conversion

A feature that allows you to easily convert your data into different formats, making it easier to work with, and applying the needed business logic.

Data Obfuscation

A feature that helps to protect sensitive information by replacing it with fake data while maintaining the integrity of the solution. It would help the organizations keep their data secure and efficient while adhering to GDPR.

Data Analytics

A feature that follows the discipline that applies logic and mathematics to data, provides organizations with valuable insights into their data

High Level Technical Features

Datum has been visioned taking into consideration that it will be used by any institution for data management to automate the Audit operations with respect to the Converted/transferred data initially, convert data from system to system or obfuscate data for testing purposes.

Datum designed to:

Include a pre-defined template/model for converting and auditing data related to major solutions providers versions like Temenos Transact, Finastra, etc..

Handle different size of data (depending on the size of the organization like a bank or an SME and different types of systems like core banking system or payroll system)

Datum has a user-friendly interface design with enhanced User Experience, support the diverse of operations that could be used to link between the data from the legacy system and the new system, and provide the audit results in multiple formats.



Datum runs on Desktop (performance), Web based and mobile based interfaces and allow utilizing the AI (Artificial Intelligence) and Data Analytics to handle the relation between the data from the legacy system and the related one from the new system.

Understanding DATUM - Data Audit



DATUM aims to provide organizations with the ability to easily **audit** their converted data between different systems, ensuring accuracy and efficiency.

With powerful services at a reasonable cost and an intuitive user interface powered by Artificial Intelligence (AI), Datum enables institutions to conduct data audit activities with the highest level of accuracy, in the shortest amount of time, and with minimal effort.

Institutions and businesses often need to transfer or convert data from one system to another. During this process, it is crucial to verify and audit the accuracy of the data transfer or conversion

based on the agreed-upon mapping rules. However, this verification process can be time-consuming, prone to human errors, and costly. The lack of a robust data audit system can impact the overall quality of verification and customer satisfaction.

To address these challenges, Datum Data Management Solution offers a comprehensive data audit feature. This feature allows organizations to monitor and track all changes made to their data, ensuring that they are always aware of any modifications. Whether it's moving data from a legacy system to a new system or upgrading existing systems, the data audit feature provides organizations with the necessary insights to ensure data accuracy and compliance.

Key Features - Data Audit

User User-Friendly Interface

Datum Data Management Solution prioritizes user experience by offering a user-friendly interface design. The intuitive interface makes it easy for users to navigate the solution and access the various features and modules.

This user-centric approach ensures that organizations can maximize the benefits of Datum without needing extensive technical expertise.

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Multiple Formats for Audit Results

Datum Data Management Solution provides organizations with the flexibility to receive audit results in multiple formats. Whether it's generating reports, exporting data, or integrating with other systems, Datum ensures that organizations can access audit results in the format that best suits their needs.

Business Features - Data Audit



- Audit summary of the conducted audit sessions,
 - Audit Coverage % (# audited vs. # converted) of both columns and records
 - Facility to verify the audit coverage percent
 - Audit Exclusion Criteria (in case if some records are decided not to be converted/audited)
 - Facility to verify the excluded records
 - Audit summary (Count&Percent) of converted records per data column and overall (Total, Pass, Fail, Duplicate, etc.)
 - Comparison between the current audit summary and the previous one.
 - Audit Exceptions/Deviations per record (Legacy Value vs. Converted Value) with deviation-related hints.
 - Audit Hardcoding List/Criteria, if any
 - Facility to verify the hardcoded values
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- **For financial data conversion**, balancing (Debit vs. Credit, Balance sheet, Income Statement, etc.).
 - Facility to verify the converted values that are generated based on calculations or equations.
 - Verify the accuracy of the raw/converted data extraction process.
 - Ensure that the manual intervention in the audit preparing/conducting/reporting is very minimal.
 - Ensure that the audit inputs (data source, mapping lists, etc.) are secured in the audit tool.
 - Facility to set and review the audit rules/logic.
 - Facility to set and review the mapping lists (Control Files).
 - Facility to verify the versioning of the audit inputs (data extract, control file, mapping document, etc.).
 - Facility to view/print the details of the audit result of sample records.
 - Facility to save soft copy of the audit reports (i.e., PDF format).
 - Facility to export part of the audited data from the audit tool to Excel sheets.

The role of Data Obfuscation

In today's data-driven world, organizations deal with a vast amount of sensitive information. Protecting this data from unauthorized access is of paramount importance, especially with the introduction of regulations like the General Data Protection Regulation (GDPR). Data obfuscation is a technique that helps organizations protect sensitive information by replacing it with fake data while maintaining the integrity of the solution.

Datum Data Management Solution offers a robust data obfuscation feature, which helps organizations keep their data secure and efficient while adhering to GDPR guidelines. By obfuscating sensitive information, organizations can test their systems for compliance with GDPR without the risk of exposing real data. This feature provides a layer of protection and ensures that organizations can confidently handle sensitive data while minimizing the risk of data breaches.



Conclusion

Data audit and obfuscation play a vital role in ensuring the accuracy, security, and compliance of organizations' data. Datum Data Management Solution offers a comprehensive set of tools and modules that enable institutions to manage their data effectively. By providing features such as data audit, data obfuscation, data conversion, and data analytics, Datum empowers organizations to make informed decisions, protect sensitive information, and streamline their data management processes. With its user-friendly interface and powerful services, Datum is a reliable solution for institutions looking to optimize their data management practices.

