



# Healthcare Data De-identification

## Generation of High-utility, Low-risk De-identified Data

Clinical information is an essential requirement for comparative effectiveness studies, policy assessment, life sciences research and other key use cases in healthcare. However, sharing of PHI data by healthcare organizations is governed by the HIPPA Privacy Rule, which limits the possible uses and disclosures. Data de-identification is a necessary and mandated process for any organization that wants to leverage clinical data for business. The challenge for healthcare organizations is to process massive volumes of clinical data efficiently and accurately, while ensuring patient data privacy.

CitiusTech's Healthcare Data De-Identification tool provides simple and flexible approach to eliminate identifiers from health information and mitigate privacy risks associated with secondary use of data.

The tool offers an end-to-end process for creating, optimizing and managing de-identified data sets, with the ability to choose from two methods in accordance with HIPAA - Safe Harbor and Expert Determination.

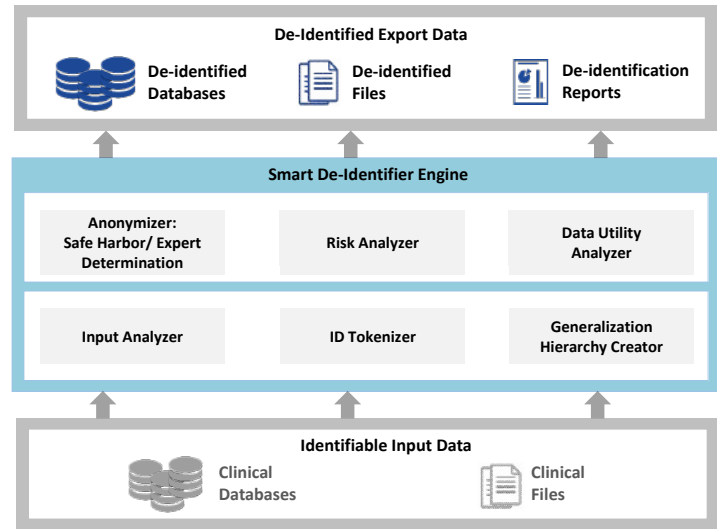
## Key Advantages

- Out-of-the-box support for both safe-harbor and expert determination methods
- Detailed and graphical insights to compare raw input and de-identified output
- Automated risk and data utility analysis
- Centralized dashboard to view summary of previous tasks
- Multiple data input format, including CSV, database connection, etc.
- Multi-batches processing mode with optional linkage switch(tokenization)
- Auto-creation and customization of generalization rules

The Data De-identification tool gives data management teams unparalleled flexibility to address a variety of business needs, with features such as:

- Choice of input
- Configuration of generalization methodology
- Parameters for privacy criteria
- Choosing which columns to retain, remove or de-identify
- Automated risk and utility scores
- Recommendations on the best batch from historical runs, based on optimum values

The tool ensures consistent and fast-paced turnaround with maximum utility and minimum re-identification risk, unlocking the value of healthcare data for secondary purposes.



Healthcare Data De-identification: Architecture

## About CitiusTech

CitiusTech is a specialist provider of healthcare technology services and solutions to healthcare technology companies, providers, payers and life sciences organizations. With over 4,000 professionals worldwide, CitiusTech enables healthcare organizations to drive clinical value chain excellence - across integration & interoperability, data management (EDW, Big Data), performance management (BI / analytics), predictive analytics & data science and digital engagement (mobile, IoT). CitiusTech helps customers accelerate innovation in healthcare through specialized solutions, platforms, proficiencies and accelerators. With cutting-edge technology, world-class service quality and a global resource base, CitiusTech consistently delivers best-in-class solutions and an unmatched cost advantage to healthcare organizations worldwide.

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