

# SIP™ De-Identifier

*Protect your Customer's Non-Public Personal Information*

## Easily De-Identify Data, Create Business Intelligent Test Data, Ensure Client Data Confidentiality

### The SIP™ De-Identifier (SIP D-I)

quickly and easily de-identifies your client's data, creates business intelligent test data and ensures Non-Public Personal Information (NPPI) confidentiality, thereby eliminating timely manual data scrubbing and speeding application testing or demonstration. SIP D-I is a component of the SIP™ Enterprise Suite of products for data and information management.

With the advent of the Internet and in response to global governmental regulations like the Gramm-Leach-Bliley (GLB) Act for financial services and the Health Insurance Portability and Accountability Act (HIPAA) for healthcare, businesses now understand that they must secure the privacy of their client's NPPI not just for compliance, but to earn their client's trust, as well.

The need for data privacy significantly impacts existing application testing environments, their processes and procedures, because the data used to produce valid tests must be as realistic as production data to be useful, yet must not reveal any information considered client confidential. If the data is not de-identified, your company could face stiff data privacy violation penalties. SIP D-I protects client privacy and makes compliance simple. SIP D-I takes the hassle out of creating business intelligent test data because it systematically masks or transforms the data elements that could be used to identify an individual. SIP D-I provides developers and testers with a quick and simple way to create meaningful test data and the ease of mind that the test results they produce are valid and comply with privacy protection rules.

### Features and Benefits of SIP™ D-I

#### Random Data Generator

The Random Data Generator is a sophisticated feature of SIP D-I that intelligently creates random test data, including names, addresses, social security numbers, dates, constants, etc. saving you and your team from the tedium and error-prone process of it. Data Validation reduces rework and ensures that data is clean for testing.

#### Business Intelligent Data

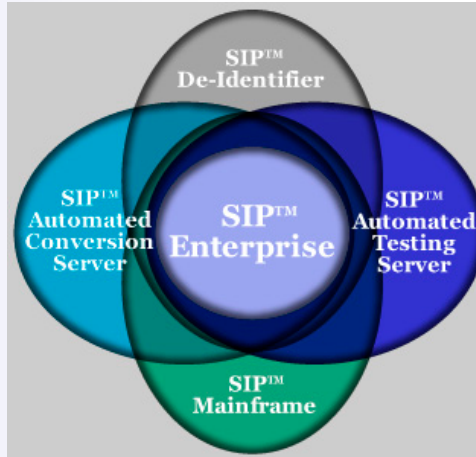
SIP D-I can create business intelligent test data because it understands the business processes and logic with which the data must remain consistent. As a result, business intelligent test data is one step above intelligent test data, in that it further minimizes the time and effort required by your developers and QA testers to create test data and ensure accurate results.

#### Masking Key

Authorized personnel using SIP D-I can specify a Masking Key to mask data using a one- or two-way algorithm. SIP™ D-I will then use the Masking Key to scramble Key fields, therefore ensuring consistency of the masking algorithm across data sets.

#### Security

Only authorized users can create masking keys to de-identify or mask data.



#### Automated Data Creation

At the touch of a button, all masking tasks can be automated so your test data is ready for use whenever you need it.

#### Business Wizards

Business intelligent wizards automate tasks such as fund splitting, enrollment processing and loan processing to save you time and effort.

#### Rules-based Engine and Translation Tables

User customizable business rules and Translation Tables allow simple mapping of data elements and are easily incorporated into SIP™ D-I so that data creation conforms to your application testing needs, saving you time and effort during processing.

#### User-defined Functions and Customizable Templates

With SIP D-I, you can create re-usable functions and templates to automate business procedures that you use repeatedly or to automate recurring projects. They will ensure consistent results, increase efficiency and eliminate rework because they save your team from having to constantly reinvent the wheel.

#### Maintain Database integrity

SIP™ D-I preserves the referential relationships of Parent and Child data, links between key fields.

#### Extensive Database and File Connectivity

SIP™ D-I is format agnostic. You can import from any format of source data (including ASCII, Binary, XML, databases and spreadsheets). We also support any OLE DB and ADO connectivity standards. Plus, SIP D-I provides you the flexibility to import from many sources simultaneously and export to a single or multiple destinations.

#### Wide Range of Embedded Business Functions

In one click, SIP™ calculates loan balances, splits or combines funds, plus many more, so that all of your tedious and timely calculations or data corrections can now be performed in seconds.

#### Scalable, Flexible Architecture

SIP™ Enterprise is supported in a variety of client-server and mainframe environments to meet your scalability and performance requirements.

#### Easy to use

SIP D-I requires little or no ramp-up time. It has simple English language selection criteria which are user-customizable and "Soundex" (sounds-like) algorithms to optimize data searches.

#### World-class support, 24x7 availability

REF provides a full range of flexible industry-leading support options to meet your needs and ensure your success.

## SIP™ De-Identifier.

- Easily comply with data privacy regulations.
- Increase data security.
- Ensure client data confidentiality.
- Better QA and application testing results.
- Faster production cutover.
- Improve testing accuracy and performance.

Business Intelligent SIP™ De-Identifier

We know your business



## The SIP™ Enterprise Suite

The SIP™ Enterprise Suite of products is specifically designed to give business professionals greater control of their data and to reduce the time and effort normally spent for data integration, conversion or testing. The Suite includes the flagship business-intelligent product, SIP™ Enterprise (SIP™) and four functional components that complement SIP™.



Together, they enhance and extend the power and functionality of SIP™ to simplify and speed data testing and creation, conversion, and data mining. If your IT department is struggling to meet your business-specific data demands, the SIP™ Enterprise Suite is the answer.

## SIP™ Enterprise

The core component of the Suite, SIP™ Enterprise, is a powerful, rules-based business software product, designed to help non-technical business professionals better utilize, transform, and control their data — faster and more easily.

The uniqueness and power of SIP™ comes from business-specific knowledge embedded in Business Intelligent Modules (BIMs). With BIMs, SIP™ automatically identifies and validates data from any source to any target, using a unique *patent-pending* technology, developed by experts with decades of hands-on industry experience. This technology is the key to enabling your business to streamline, simplify and improve your data management. With SIP™, you will produce more useful and accurate information — quicker, easier, and at a lower cost. SIP™ clients have reported a greater than 400% increase in productivity, dramatically improving profitability.

## Designed for use by Business Professionals

SIP™ can work alone or in concert with an existing Extract, Transform, and Load (ETL) tool. It is different in that it operates at the *business* level. Since SIP™ is specifically designed for *non-technical business personnel*, not programmers, SIP™ can transform you into your own IT department, giving you the control over your data that you never had before. It is easy-to-use and provides unparalleled speed and data integrity. Put an end to the frustration and complexity of your data integration project.

With SIP™, your data headaches are truly a thing of the past.

## Other SIP™ Enterprise Suite Components

**SIP™ Enterprise Automated Conversion Server (SEACS)** unleashes the power of SIP™ to automatically validate, alter and transfer large volumes of business data and perform scheduled conversions or data feeds without any user intervention. SEACS provides advanced reporting and conversion notification and is especially well suited for converting periodic files or feeds. SEACS consists of three major components: the Dispatcher, Monitor, and Conversion Executor.

**SIP™ Enterprise Automated Testing Server (SEATS)** is a regression testing *control center* that automates mainframe application testing from the desktop and integrates easily with Rational and test automation tools. SEATS uses a collection of quality assurance services to provide access to needed mainframe functionality from anywhere in the enterprise. Wrapper functions, written in Rational SQABasic®, allow easy integration with Rational Robot® and other testing environments — and, they can be used by other applications as well, through the COM interface. In addition, SEATS leverages the full complement of powerful SIP™ Enterprise functionality. For instance, SEATS extends SIP™'s ability to easily embed complex business rules to provide a powerful data-testing environment for testing client data.

**SIP™ Mainframe** is the SIP™ Enterprise Suite component that enables SIP™ to execute data conversions on your mainframe. This is particularly valuable when extremely large data conversions are performed or when constraints, time or otherwise, prohibit downloading mainframe-resident data. SIP™ Mainframe takes advantage of the SIP™ Enterprise data processing engine and powerful SIP™ functionality such as data mining, on-demand data warehousing, the single view of enterprise data, business rules -driven data validation and flexible user defined reporting. Using SIP™ Mainframe, mainframe data is as close as your desktop.



## About REF:

**REF Computer Corporation** is a leading provider of quality financial software. Since 1982, industry leaders in the world of 401(k), finance, banking, and brokerage have turned to REF to help them solve a wide array of complex business problems.



17 Squadron Boulevard  
New City, New York 10956  
Toll Free: 888-REF-1114  
Fax: 845-634-8339

For more information or to schedule a demonstration,  
Please email us at: [sales@refcomputer.com](mailto:sales@refcomputer.com)  
or visit us at: [www.refcomputer.com](http://www.refcomputer.com)