

## Original Software & Euronet:

### Empowering software quality within your Euronet ITM implementation

With Euronet's flexible *Integrated Transaction Management* (ITM) deployment architecture, each implementation is custom-configured with different components, each having unique customer specific data.

However, customers of the ITM suite are challenged by the need to adequately test new releases of ITM before releasing them to production. This critical testing is needed to ensure installation specific configuration and data works as expected, to validate data integrity, and to document and communicate issues with Euronet. Failure to test is **RISKY**. Failure to test securely is **PERILOUS** to your business.

#### Data Privacy Concerns

Customers rely on you to secure and protect the personal information stored and managed in the ITM application suite. Since nearly 70% of all data breaches in the industry today are "inside jobs" (as opposed to external "hackers") it is important that your organization is not exposed to the risk of lawsuits, loss of reputation, and loss of customers by neglecting to secure and de-identify ITM data when testing new ITM releases. In this era of heightened sensitivity to the security of personal information, it is critical to ensure that the data used for testing purposes is properly **de-identified**.

By complying with the new PCI regulations Euronet has resolved the credit/debit card side of the equation. However, your organization is exposed to significant additional risk as it relates to names, addresses, SSN's, account numbers or other data that identifies a person.

The **ITM Test Compliance Kit from Original Software** provides an automated means to create smaller, easy to manage, de-identified test data that is specific to each installation. An optional extension to this kit allows for quick resets of data to known checkpoints, facilitating regression testing.

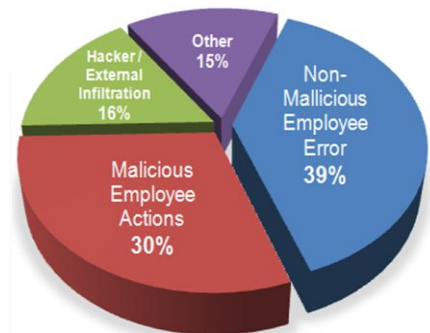
#### Staging Environments

The key foundation for properly testing your unique ITM environment so as to ensure proper functionality is to implement and manage a staging (test) environment that contains **sufficient data cases** representing needed scenarios, but not filling up the database with repetitive scenarios. This is known as **data sub-setting**.

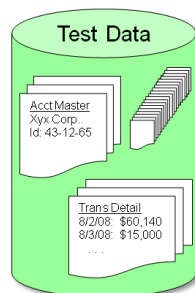
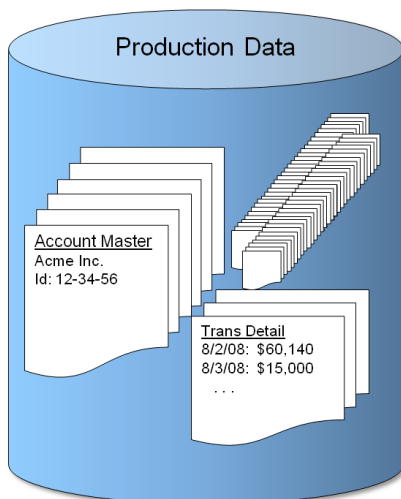
To address the need to de-identify the collected data, this solution uses sophisticated algorithms to scramble the test data while keeping it readable and maintaining proper data integrity. This enables the testing team to work without exposing the organization to undue risk.

Since Euronet uses this same offering for their own internal testing, they have provided an ITM specific configuration to this bundle. This allows your test data environment to be small and easy to manage while ensuring the customer's personal information is kept secure.

When it's necessary to send data to Euronet to facilitate reproduction and resolution of a problem with your ITM deployment, this smaller, de-identified dataset can be transmitted or copied to tape and shipped to Euronet without concern.



Ponemon Institute  
"Data Security Tracking Study"



## Test Data Environment Management

The cornerstone of the **ITM Test Compliance Kit from Original Software** is **Original Software's Extractor for iSeries / Compliance Edition**. This solution dramatically simplifies creation and extraction of data subsets from live database with greater efficiency, full referential integrity, and no program compilations.

With this solution, create multiple subset variations for specific project needs. Reduce data to manageable volumes and enable operation within hardware constraints. It provides the flexibility to control and amend data during extraction. It can also extract data from remote sources. Test data maintenance becomes simple and efficient. Ensure data integrity – for any purpose –including training, testing, data warehousing, and archiving development.

### Database Analysis

Powerful file scanning technology analyzes your live database structure and key relationships automatically. Even inconsistent naming standards are manageable. Extractor automatically creates a highly visible, documented file relationship tree structure allowing for ease of maintenance and selection definitions. All definitions are stored so the extraction can be repeated at any time as needed.

The analysis for the Euronet ITM application is provided in the ITM Test Compliance Kit accelerating your time to value. Additionally, if your organization would like to leverage this remarkable solution for other applications, you have the technology to do so.

- Database structure analysis and replication
- Precise format and content control
- Remote data extraction capability
- Data sampling, updating and archiving
- Full data quantity, content and balance control
- Simple – but comprehensive - data maintenance
- Structure analysis and extraction reporting
- Maximize integrity and usability of data
- Minimize time to create a test database

### Automatic data extraction

Flexible selection enables precise definition of the data requirement. Automatic creation of objects in a specified library, include data areas, physical & logical files, constraints and triggers. Inverted structure; record output controls and much more for total extract process management. Referential integrity is assured through intelligent 'tree structure' processing providing maximum flexibility with minimum effort.

### Maximum data control

New data case types enable the data to be amended as it is moved to the target file – or deleted from the source file as it is moved. The data sampling facilities allows for control the quantities and balance of the data being extracted, meeting your exact business needs. All definitions and changes are stored so the data extraction can be repeated, reviewed and audited at any time. Data subsets can be retrieved from remote sources quickly and efficiently using the Extractor Remote module.

## Test Planning, Execution, and Reporting

With your testing environments properly configured and secured, leverage **Qualify** to track, manage, and report on progress of your testing activities. **Qualify** comes pre-loaded with ITM release specific test plan outlines. It promotes efficiency, communication and structure, enabling the testing process to mature and draw from past information and experience. Better organized testing means fewer errors and less effort in reaching higher quality. Ultimately, this makes better use of company resources-- saving valuable time and money.

When executing your tests with the revolutionary **TestDrive-Assist**, all your testing activities are automatically captured, stored and made available for reporting. This simple yet powerful tool records and analyzes functional tests in the background unobtrusively. It is also possible to "pause" while testing to annotate the tests with descriptions of defects or design flaws. The analysis and reports generated by **TestDrive-Assist** can be quickly sent to Euronet's support team to accurately and fully document the issues in question. TestDrive-Assist is also capable of documenting User Acceptance Test activities.

## About Original Software

**Original Software** offers next generation automated software testing and quality assurance solutions that deliver tangible benefits across a wide range of IT and application environments. As a recognized innovator, Original Software's goal is to reduce business risk and improve application time to market for IT departments through the development of class leading automated solutions.



For more information please visit  
[www.origsoft.com/euronet/index.htm](http://www.origsoft.com/euronet/index.htm)

