

# Incanto - Data Migration and Data Transformation

## The Challenge

Data migration and transformation are two increasingly necessary tasks, in a world where we work with complex systems and a wide variety of data sources. The goal is to deliver the right data, of the right quality, into the right place at the right time, and however the problem is approached the process must ensure the availability, security and recoverability of the data. If migration/transformation goes badly wrong you can face issues ranging from lost productivity to breach of commercial legislation.

Migration and transformation are made more difficult by the increasing rafts of legislation and regulation being applied to commercial practices. The result is that migration/translation rule sets have become larger and more complex. A migration rule set typically includes rules for; data cleansing, compliance enforcement, retention management, audit controls, state management, and migration process management. These, of course, must all work in concert to provide the desired result. Complexity issues are magnified when data from disparate systems are being merged into new data structures.

Coupled with the management of complexity is the issue of performance. However complex the migration it must be performed in time frames which ensure business continuity. Failure to meet performance requirements can lead to system downtime and systems being out of sync. If migration tasks are not performed quickly a new raft of processes are often needed to manage the discontinuity.

In summary successful data migration/transformation requires the ability to manage complex rule sets, delivered in high performance transformation engines operating in an automated environment with verification at every stage to ensure that the quality, place and time paradigm is met.

## How can Incanto help?

In three main areas -

1. **Incanto** allows management of large complex rules sets, these may include rule sets containing many thousands of rules
2. **Incanto** has the performance ability that allows these complex rules to be applied within time frames required for business continuity. **Incanto** performance is measured in thousands of records transformed per second
3. **Incanto** provides the testing facilities that ensures that the right data gets to the right place

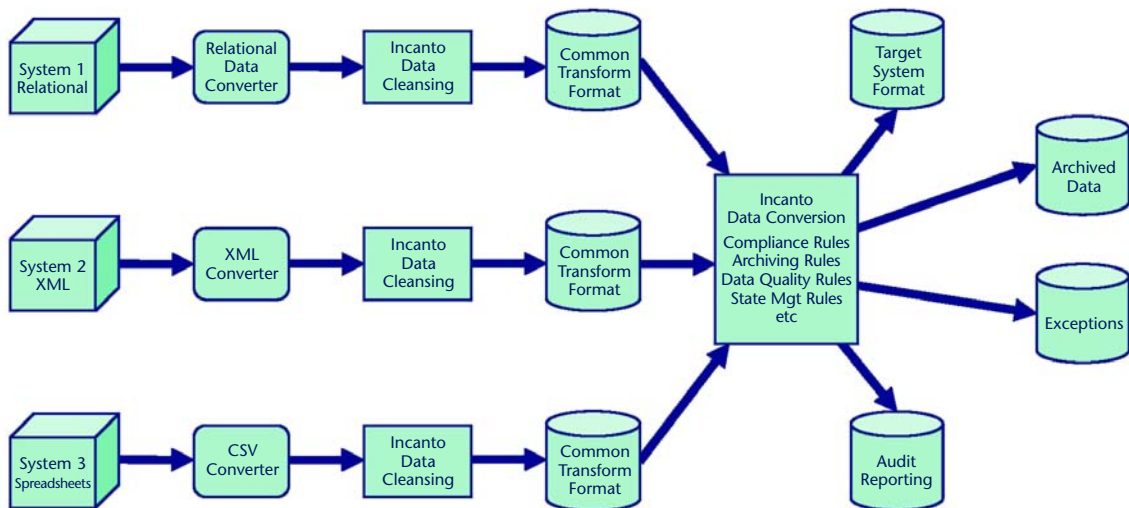
### Additionally, Incanto:

- makes it easy to apply transformation rules at the required level, eg from rules that govern migration, down to rules that manipulate strings.
- allows automated decision processing to deal with unexpected data, null data, and other exceptions
- helps manage one to many and many to one transformation rules, for example, to handle different levels of cardinality across systems
- can handle the merging of data from a variety of source systems, or splitting data to be used in separate processes
- allows the transformation from one state to another to be achieved quickly through high performance processing
- handles audit reporting as an integral part of a run with minimal performance impact
- has integral test tools which provide verification, and produce and handle large volumes of generated test data
- includes interactive feedback and debugging facilities to help ensure the migration process delivered operates to specification

## The Incanto Process

A typical conversion process is illustrated in the diagram, demonstrating where **Incanto** fits and the kind of operations it can perform. **Incanto** can also be used to provide the rules to automate the process run.

### Incanto Multi Format Data Conversion



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