

## Data Integration and MapX

### The Problem MapX Solves:

The solution to the consistency problem in the financial sector starts with the right data. This cannot be fixed by adding another database to the already existing data warehouses, data marts, data super-markets, data lakes or however the data mess is called.

If AnalytX is combined with SolitX, the data problem never comes up, since SolitX and AnalytX are based on ACTUS which makes data warehouses superfluous. However, we still need a solution where AnalytX is used in a classical legacy world with a plethora of core banking and transaction processing systems in place. The solution for this problem is MapX.

### Solution:

MapX is an optimized ETL (Extract Translate Load) for mapping data from any source into the ACTUS standard. In the ETL process, the *Extract* step is a purely technical issue. More critical are the next two steps.

MapX supports the *Translate* step by guiding the user step by step towards a valid ACTUS contract. It indicates for example which attributes are most important to map, which default values are used in case attributes are not mapped and so on.

Within the *Load* step, MapX performs all the necessary ACTUS internal and user defined consistency checks. Inconsistent contracts will be rejected with the corresponding error message supporting thus the programmers to find the error and improve the process.

Once consistent, the data can be loaded into AnalytX. This can be done with or without *Aggregation*. Aggregation can be necessary in order to optimize the efficiency of the analytic process. The aggregation routine of MapX supports this process.

Beyond this, Ariadne has unmatched sources of experience with the ACTUS standard and its associated data. Four members among the founding team alone combine together close to hundred man years of experience. This knowledge base is the reason why we can tackle with high confidence any real world problem.

### Benefits:

MapX supports the mapping process for AnalytX and ACTUS in general. It reduces the need for programming and can be used by the analyst. It guides the analyst optimally thus shortening the process and guaranteeing the maximal quality of the data. It also supports and performs the necessary aggregation steps.