**Step 1: Defining the client’s requirements**

Our clients’ needs can range from testing the suitability of the proposed software to sharing knowledge within the client’s organisation. The proof of concept accordingly aimed to deliver three scenarios:

* Embed transforms within near real-time message handling, particularly WITSML
* Data migration converting to LAS files to and from the client’s PPDM-based system
* Data migration converting to DLIS files to and from the client’s PPDM-based system.

**Step 2: Defining the client’s input**

In any project, we clearly define the requirements from the client before starting work. In this example, the items required before the proof of concept began included:

* Business rules to define the required mappings, such as details of field mappings, lookups and error handling
* Samples of the data to be extracted, such as well header and log curve data
* Any relevant information about the source and target models, such as local choices in the use of PPDM
* Sample files in the required format, including LAS 2.0 and 3.0.

**Step 3: Action planning**

Our action plan followed a similar path to our previous proofs of concept. It was followed through to implementation and included:

* A review of the information received from the client:
  + Each source and target data model, including format, connection options and sample data
  + Validation rules
  + Mapping rules
* Design of the workflow of the data through the integration process:
  + Document flow of data
  + Document the decisions made
* Design the integration for implementation within our Transformation Manager software
* Implement the integration within Transformation Manager, including testing
* Demonstrate the results to the client (see Step 4 for more details)
* Describe the process and usage of Transformation Manager to the user
* Create a report describing the concepts, outcome and potential usage within future projects.

**Step 4: Proof of concept delivery**

In the petroleum data management example mentioned above, our team delivered:

* A final, tested, Transformation Manager deployment pack which delivered the data transformation to the client’s specification
* A licensed version of Transformation Manager for internal evaluation
* A proof of concept report as described above
* Knowledge transfer to the client, including the use of Transformation Manager, a review of its capabilities and an overview methodology
* A presentation and demo showing key processes, outcomes and future options.

The result was a software component which can efficiently deploy the client’s data to a range of the most popular petroleum data management file formats.