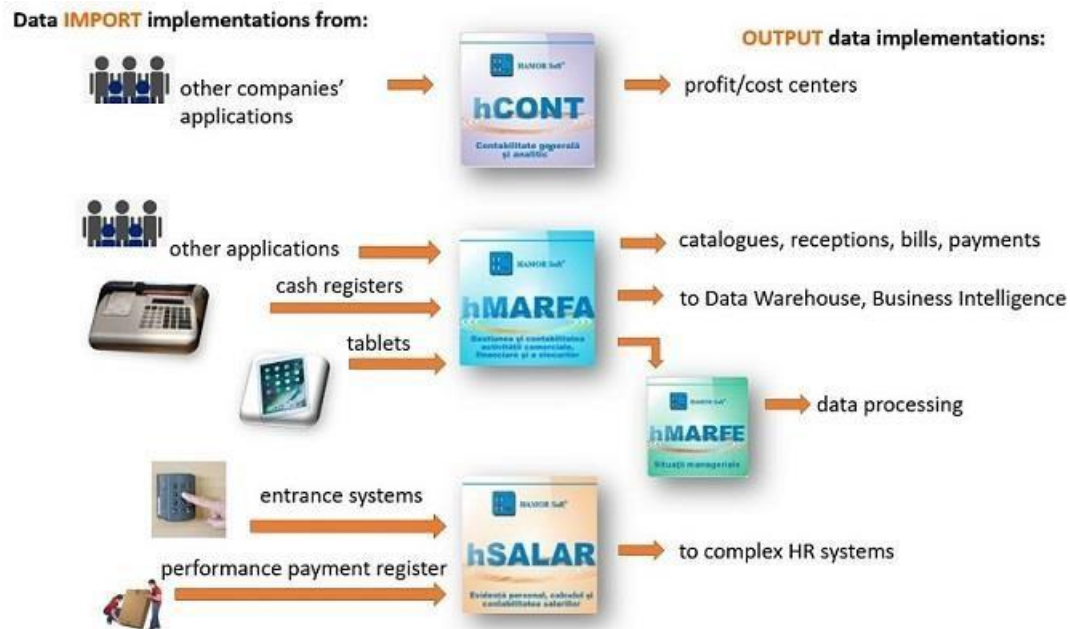


# Connecting HAMOR Soft's programs to other applications

Our programs can be connected to applications produced by other companies:



## Requirements for the interface between HAMOR Soft's programs and other applications:

- Usually there is a need for a separate interface to import initial data and transactions later on. It is worth examining if a common interface can be developed for the two operations.
- The description of the interface must contain the code, the name, the detailed description, the format and the length of each field. It is recommended to indicate the default value, the list of possible values, the mandatory fields and the dependencies between fields.
- Usually we accept any kind of data format: CSV, XLS, XLSX, XML, JSON, TXT, SQL (variants). If it is possible, it is indicated to use ANSI or UTF-8 types of characters.
- The specification should include:
  - whether the character fields contain character codes over 7F(127) (for national characters)
  - the type of decimal separator: .(dot) or ,(comma). If possible a 1000 separator should not be present.
  - the structure of date fields: dd/mm/yyyy, yyyy.mm.dd, yyyymmdd, mm-dd-yyyy, etc.
  - sample field values
  - the procedure used for exporting data, the mechanism through which the required transactions will be selected. It can be marked, if a transaction was already exported and if so, in what package it was exported.
  - the procedure used for importing data, the way how failed transactions are going to be handled, the method used to restart a transfer in case of incidents, which transactions were already processed, the way you can delete a partially or completely finished import etc.

The imported transaction must contain an identifier indicating the package which it comes from.

- Due to coherencial aspects, the source and the target databases should be kept independent
- The independency of the source and target databases should apply for read operations as well (version compatibility aspect)! If this cannot be avoided, the database should be opened in ReadOnly mode, also in case of a version change, the compatibility of the reading procedure should be analysed.
- The interface files must be kept in a separate folder, fully dedicated for the transfer.
- A version change should not affect the structure and the content of the interface. If it is required, the interface file can contain a version identifier.

In application hCONT there is a standard, fully defined interface. For hMARFA interface exists a separate description and there are import and export sample scripts. Based on them one can write scripts for specific interfaces. In the applications hSALAR, hIMOB, hSTOC, hPROD (written in the hMET2 technology) in simple cases you just have to configure the export. Imports and complex exports are going to be implemented via separate scripts.