### Gap analysis on existing CMMS data quality and devising improvement plans

Gap analysis helps organizations to understand the requirements and to analyze data quality for setting up a more meaningful and efficient database, especially when migrating from legacy system to the proposed new system.

Gap analysis broadly covers:

* Adequacy of legacy data structure and its definition and suitability to the proposed system’s environment
* Quality of the data residing in the legacy system
* Identification of data migration requirement
* Developing the way forward to bridge the data gap

### Support services for CMMS/ERP implementation

The advantages of implementing ERP/CMMS in an organization are:

* Increased equipment availability due to better planning
* Increased equipment reliability through the identification of repetitive faults
* Better stock control, giving reduced inventory levels and fewer stock-outs
* Better cost control in stock maintenance
* Improved safety by providing detailed standard job procedures

**Hofincons will assist in:**

* Selection of the best ERP/CMMS depending upon the budget and usage.
* Review business processes and suggest customization of the ERP/CMMS.
* Aggregation, organization and migration of relevant data to ERP/CMMS, including data cleansing and data enrichment services.
* Training users in data input for future upgrading/expansion.

**Benefits of outsourcing ERP/CMMS implementation:**

* Error-free and relevant feeding of data into the system.
* Being novice implementers, most organizations are facing difficulties in understanding the functional requirement of data into the system. Hofincons provides expertise on proven data extraction methodologies for a smooth implementation.
* Hofincons has been ERP/CMMS implementation for the last 25 years across industrial domains ranging from refineries to textiles.
* Hofincons is having a rich experience in the implementation of SAP, Maximo, Oracle EAM, JD Edwards etc.

### Development of asset register

Plant asset register is a basic building block for asset management systems such as CMMS/ERP. Using asset information data, the life cycle of an asset can be traced from its installation and operational life time to its disposal.

The tag number represented in the plant asset register is structured in accordance to the tagging standard of the organization. Asset register includes typical asset related information such as functional description, where it fits in, manufacture related information, etc.

### Functional analysis using Functional Block Diagrams (FBD)

FBDs represent the interaction between various systems of a complex manufacturing/processing facility in a systematic way. Higher the complexity and the interaction between systems, higher is the usefulness of FBDs. The functional models shall assist in identifying the functional boundaries in terms of “Process”, or functional characteristics.  This approach helps to identify the equipment that supports a common function.

Development of FBD helps SAP Asset Multi-dimensional structure by:

* Establishing a vertical hierarchy structure of the asset register
* Creating a horizontal structure represented by the object network

Functional block diagrams developed using the KBSI AIØ WIN 7 (IDEF0) software tool helps to indicate the input, output and constraint mechanisms at each functional level. The top-level functions are progressively drilled-down into sub-functions explaining all interdependencies.

**Benefits**

* Establishment of inter-relationship and improved visibility of functions, which will facilitate functional criticality analysis
* Driving of equipment hierarchy development
* Object linking helps to define the effect of shutting down of supply systems on individual objects

### Equipment hierarchy

* For the preventive maintenance routines to be efficient, each asset in an operating plant is to be arranged in a hierarchical fashion, with clearly defined parent–child relationship.
* Hofincons proprietary software, Hi Build, helps to organize the maintenance function in an efficient way, giving an overall perspective of the requirements.
* Aided by a well-defined hierarchy build, maintenance planning and scheduling becomes much more organized, efficient and effective, especially in a computerized maintenance management environment.

**Benefits**

* Establishment of the parent–child relationship for all plant equipment devices, which will facilitate roll-up and drill-down cost analysis.
* Providing the basis for maintenance group allocation, to help in optimized issues of PM work orders.

### Vendor master development

The vendor master database caters information to both Purchasing and Accounting functions. It contains all vendor data that a company conducts business with, to serve an efficient procurement process.

The vendor master requirement will differ from company to company depending on the software used. Hofincons will study the existing system and develop a structured vendor master that suits the opted materials management software. Hofincons classifies and groups the vendors by material supplied, country, prefix, etc.

**Benefits of vendor master**

* Creating of a sourcing document for procurement
* Providing an approved vendor list
* Minimization of internal procurement lead-time
* Facilitating right and prompt purchase
* Paving the way to vendor rating and supply chain concepts

### Service master development

Service master is a repository of description of all services which serves as source of data for creating service specification/requirements. Its implementation will improve consistency, reduce errors and save time and effort of tailor-made service specifications.

Hofincons provides the following services:

* Development of service master records
* Development of model service specifications
* Data migration, standardization and normalization of service specifications