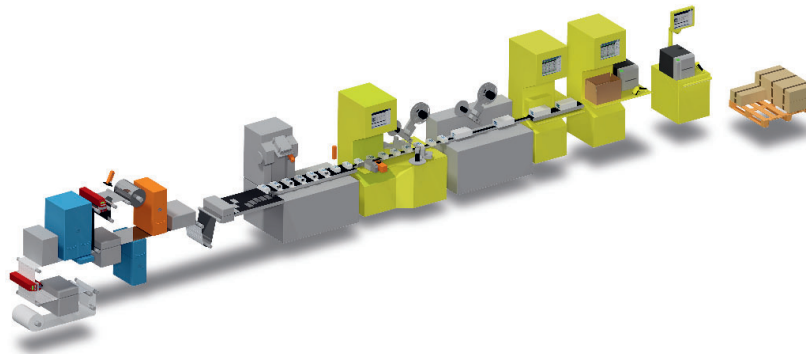


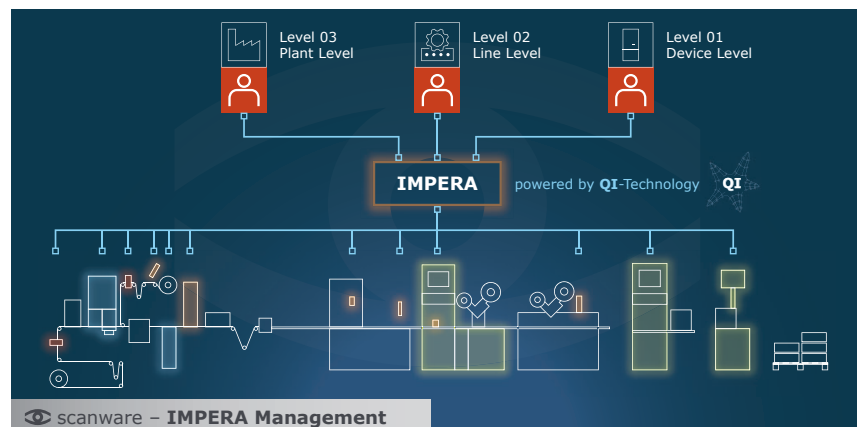
MANAGEMENT



IMPERA Line Management

■ Description

IMPERA Line Management is an encompassing software ideal for packaging lines. It monitors processes and controls all devices involved in these processes, e.g. printers, hand scanners and inspection systems. Visualization, operation and control of the components take place on the GUI. Operation is easy and clear due to close alignment of system functions and processes under production conditions in practice. All settings and inputs are made on a touch screen, via selection buttons, on which the user is escorted by an interactive dialogue through the menu.



Further **IMPERA Line Management** undertakes all data transfers between the manufacturer's data base and the devices. In detail it imports data from the producer's data base, processes it and re-transfers it after completion. This makes the system ideal to fulfill serialization requirements which are mandatory for European pharma companies as well as contract packagers as defined in the Pharma Directive EU/2011/62 ("Falsified Medicines Directive").

With **IMPERA Line Management**, complex and multi-level data connections can be made in order to provide information to ensure traceability of all steps in the process.

The application software supports common international code standards and is modularly built so that the customer can configure the software according to his project-specific requirements and upgrade it if desired.

Communication occurs via VDMXML protocol, XML and CSV files.

■ Highlights

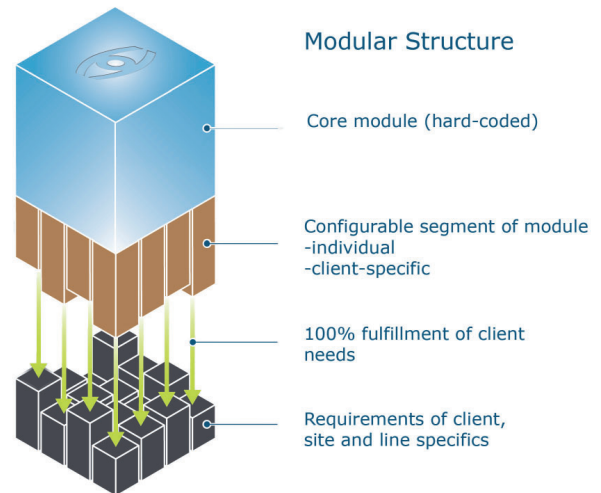
- Modular and upgradable
- Functionality can be reduced to fundamental modules
- Individually configurably user interface
- Compatible with all scanware products
- Combination of decentral real-time data communication and centralised management of batch data
- Easy operation over scanware's GUI client
- Supports common code standards
- Job-related and intuitive graphical interface
- Fulfilment of customer-specific requirement profiles
- Flexible level 3 connection

■ Area of Application

- Line Management
- Machine and Device Control on Packaging Lines
- Serialisation, Aggregation and Deaggregation
- Mark & Verify on primary and secondary packaging

■ Modules

The modular structure of IMPERA Line Management is designed so that any possible components and requirements, the scanware Management functions can be adapted to match. This enables a tailored fit to client's needs.



The modules can be grouped as follows:

CORE SYSTEM

This includes modules for higher level functions, such as communication, data transfer and storage of data in real-time.

- **Broker**
- **Process Handler**
- **Database**
- **Real-Time Interface**

INTERACTION & CONFIGURATION

Modules which handle process-related data, such as expiry date, lot details, the audit trail, statistics and article information. Further to that, modules that control serialisation and aggregation processes as well as batch management are grouped together.

- **Variable Data Manager**
- **Report Server**
- **Article Manager**
- **Event Manager**
- **Batch Management Module**



APPLICATION MODULE

All modules that undertake immediate work processes are grouped together, including central user management as well as different types of aggregation and rework.

- **Log-In-Server**
- **Aggregation, including:**
 - Fully automatic Aggregation e.g. Casepacker
 - Half-automated aggregation i.e. capturing data of all units within a larger group
 - Manual aggregation
- **Rework-Modul, for example deaggregation und sampling**

INTERFACE

All modules impacting the display of functionality on the graphic user interface are grouped together. This includes the module for installation on different operating systems, level 3 interfaces and connection to devices.

- **Visualisation Client**
- **Im-/Export Interface**
- **Software Interface**

■ Module Highlights

Every single module is created for highest flexibility and functionality:

- Components at any time can request process information from **Broker** in real time
- Intuitive operation thanks to flexible configuration in the **Visualisation Client**
- **Process Handler** takes over data handling without affecting the network
- The **Article Manager** includes country-specific information and conventions
- Within **Event Manager**, sequences are combined with article and print data and the process is visualised for the user
- The **Batch Management Module** maps all batch states
- The **Aggregation** modules map the aggregation procedure for example for blisters, folding boxes, bundles, cases and pallets
- **Rework** allows deaggregation for example to remove samples and re-route products into the production cycle. This is supported by a visualisation on the graphical interface
- The **Software** module contains all interfaces to the devices used on the packaging line from scanware or any other provider
- **Im-/Export Interface** enables control of the entire line at a higher level



■ Technical Data

Level 3 interfaces



Implemented Coding Standards	all int. standards like: GS1, IFA, CIP 13, ITS, Bollino, IPZS, Royal Vignette Belge, Lot- and Date-Control
Interfaces / Communication	VDMA-XML-protocoll, XML-files, CSV-Data
IMPERA system hardware	
Housing Construction	19", 42 TE, 4 HE, IP20
Bussystem	CompactPCI Serial
CPU	Intel Core-i7, 2,1 GHz
RAM	8 GB
UPS	SITOP UPS 500S
Hard drive	240 GB SSD
Operating system	QNX®
I/O Modul	Wago TCP Modbus DIO16
Nominal Voltage	24 VDC

■ Quality is visible.

- Modular build for a multitude of installation options
- Real-time operating system QNX® for security and speed
- Uniform graphical interface and easy-to-follow menu structure
- Hard- and software are expandable and upgradable
- Fully 21 CFR Part 11 compliant
- Wear-free, electronically controllable scanware W-LED illumination
- Easy to install on all common packaging machinery
- Communication with machine via a VDMAXML_P or OPC UA protocol
- Simultaneous use of numerous inspection parameters
- Variety of statistical tools
- Development of special tasks and requirements on your request
- Availability of all parts guaranteed for 10 years
- Service offering solutions and support within 24 hours



Management



Packaging



Blister & Products



Codes, Text & Graphics



Track & Trace



Support



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