

**PacOnline<sup>®</sup>**

# Accelerate Your Packaging Business!



**PacOnline<sup>®</sup>**: Web-based collaboration platform  
for Artwork Life Cycle Management of printed  
packaging materials

# Accelerate Your Packaging Business!

PacOnline is a path-breaking Artwork Life Cycle Management solution for world-wide, process-integrated artwork creation or change over the full packaging life cycle.

The conceptual development of PacOnline as a user-driven, efficiency-enhancing and reliable software solution has been achieved by packaging experts. The software is targeted to satisfy the needs of users, more particularly industrial corporations handling high volumes of packaging. PacOnline opens the way to considerable cost-savings, faster time-to-market cycles, a simplification of all decision-making processes and optimization of quality assurance.

## Integrated Solution **PacOnline®: Artwork Life Cycle Management**

PacOnline is an integrated software system reliably satisfying even the highest demands of the Artwork Life Cycle environment. Valid and practice-driven document management

coupled with dependable process control are geared to supporting all those involved in the creation of new artwork.

The introduction of PacOnline is

achievable in a standard launch process at minimum cost and risk.

### Data and Processes **PacOnline**

In PacOnline, business events in artwork management are authentically modeled in a software environment

Product launches and changes are controlled and documented within the system. All process data and all documents from first-issue to final version, are logically stored and archived.

In the data storage system thus put together, co-workers are able to re-

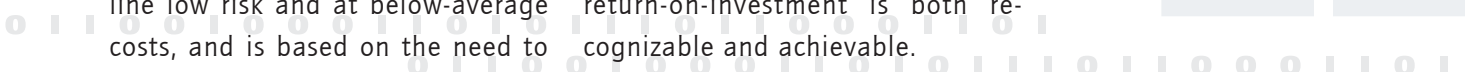
cognize the logic of their corporate product environment and are able to execute searches simply and easily. PacOnline looks after all IT system requirements in relation to validation. This closes the data processing gap in the packaging process supply chain, also in the pharmaceutical sector.



### Standard Launch Process **Standard**

The corporate launch of PacOnline is achievable in a standard launch process. This process is aimed at making the introduction of PacOnline low risk and at below-average costs, and is based on the need to

give the customer assurance at an early stage that PacOnline will be able to satisfy his company's corporate objectives. The benefit of a fast return-on-investment is both recognizable and achievable.



## Documents and Artwork

Key to the successful administration of large quantities of data is structuring a data storage system so as to take full account of the application context.

PacOnline relates artwork documents to product parts lists. These are administered via feature structures, thus reducing the risk of re-

dundant document contents. In this way, finding the relevant product information in a corporate-wide archive becomes simple, fast and reliable. To ensure data validity, data are versioned and both the access to and application of these data is documented.



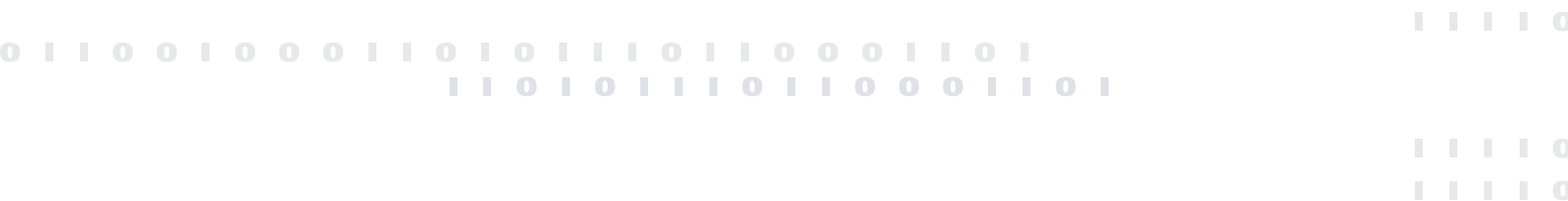
## Process Control

As the Life Cycle Management System for artwork, PacOnline provides a platform for controlled workflows enabling decentralized and sequential processing of artwork by remote working groups. The process model applied in PacOnline offers users the flexibility required for close-to-actual-practice chain involving the specification, processing, proofing and release of artwork.

By assigning the execution of tasks to the appropriate users, PacOnline

enables a system in which successful and valid execution of all processes is structured and ensured. Process trackability is recorded by PacOnline in change histories, which users can search in simply and online. The audit trail in application complies to CFR 21 part 11 of the FDA.

Task initiators as well as task executors are kept up-to-date via an optimized overview of all pending deadlines.



# PacOnline®: Areas of Application

# Industries

## Pharmaceutical sector

Pharmaceutical companies typically use a very wide range of packaging items for which the requirements are strictly defined. This artwork is subject to frequent changes and, at the same time, demands the satisfaction of high quality standards. PacOnline provides a web-based operating platform for process control and Life Cycle Management of the artwork management tasks which need to be completed. Automatic generation of artwork via application of a PacOnline extension is a further option.

## Food & Cosmetic sector

Artwork development for product packaging is a key part of the supply chain in the food and cosmetic industry. A great many benefits are achievable for companies needing to raise a wide range of product packaging. These include cost-savings, fast time-to-market and quality assurance in the artwork development process.

## Consumer goods

In the consumer goods sector, fast development times for packaging artwork is very important in meeting product launch deadlines. PacOnline is the ideal working platform for the efficient and reliable achievement of tasks of this kind.

# PacOnline®: The Corporate Solution

# Users

## Artwork Management

Through process organization and trackability, PacOnline maintains optimum transparency in the artwork process. While supporting existing competencies and corporate structures, the system allows throughput times in the artwork process to be radically cut, i.e. by up to two-thirds. The artwork process is simultaneously underpinned by GMP-compliant data storage, which enables the reduction of errors. By having the option of searching for documents in a central archive, the daily work of all those involved in the process is greatly simplified.

ing gap in the packaging process supply chain, while at the same time ensuring that process through valid data and access control. This ensures compliance to GMP. The clear definition of responsibilities and processes in PacOnline supports better adherence to set deadlines, transparency and trackability. The resulting rationalization of manpower deployment prepares the way for handling larger work volumes in the future.

## Marketing

Thanks to process organization and trackability in the handling of product launches and changes, the system provides optimum transparency.

on time and during searches for data (of special significance in the execution of changes).

## Quality Assurance

PacOnline supports the artwork process through valid data storage, which is one feature of automatic documentation. This aids in achieving adherence to the process command chain. The system has been developed in compliance to GMP guidelines and, besides meeting the technical and content requirements of a wide range of different industrial sectors, also satisfies current approval conditions for validatable computer systems (e.g. FDA 21 CFR part 11).

## Supply Chain

PacOnline closes the data proces-

efficiently completing all processes

- Packaging and artwork-related business logic aligned to product evolution
- MediaWareHouse centrally structured according to product, components, relevant basis documents and process data including automatic versioning
- Online proofing and release per electronic signature plus automatic change histories
- Generation of standard reports
- Workflow control via integrated standard processes with status and deadline management
- Electronic audit trail for the artwork process, including release and data storage in compliance with FDA CFR 21 part 11
- Web-based, world-wide operating platform accessed via Internet browser and requiring no further client-side installation

Optionally extendable to automatic artwork generation with die-cut and barcode generation within the integrated system.

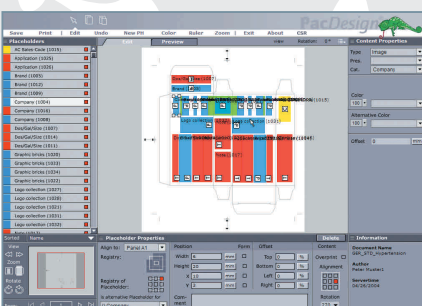
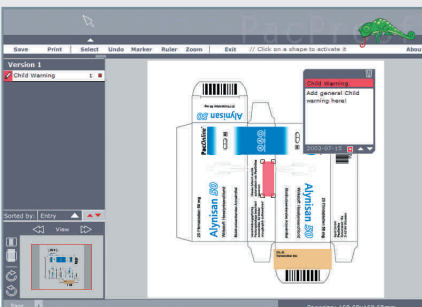
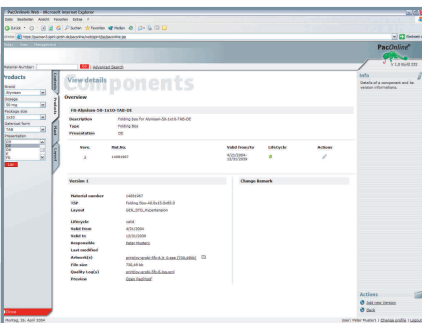


## PacOnline® – The Artwork Life Cycle Management System

PacOnline is a system solution based on standard software and a standard launch process, both aligned to the corporate requirements of artwork management. The software closely models the cor-

porate operating environment and therefore requires minimum adaptation ahead of its launch. The standard launch process quickly provides customers with an overview as to how the system will satisfy his requi-

rements. This is achieved by providing customers with a pre-configured system at the outset.



## PacOnline®: The Benefits

### Direct and Indirect Economies

- Enhanced process efficiency enables optimized deployment of co-workers
- Harmonization of artwork ranges results in reduction of superfluous variants
- Reduction of costs for freight and courier services
- Across-the-board digitization cuts archiving costs
- Cuts out individual hardware and software installations
- Automatic artwork generation enables expenditure on sub-contracted artwork to be drastically reduced
- Resources set free can be used for managing increasing future workloads, thus cutting out the need to spend more on extra resources

### Time-saving

- Production data searches significantly simplified
- Artwork process throughput times cut by up to two-thirds
- Waiting times shortened by elimination of physical movement

### Quality enhancement

- Compliance to legal and organizational guidelines (GMP) is ensured by standardized processes with automatic control

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