DC21 WMS at a Glance!
Features:

- Mapping of all relevant intralogistic processes:
  - Goods receiving
  - Quality assurance
  - Order handling incl. consolidation
  - Order picking (single-/multiple stage, sequential/parallel)
  - Batch management
  - BBD-management
  - FiFo, LiFo
  - Dangerous goods management
  - Packing and shipping
  - Inventory
  - Reporting
  - Crossdocking
  - Returns handling
  - Replenishment control
- Multi-client capability
- Multi-stock capability
- Multilingualism
- Standardized host interfaces: SAP, Navision, etc.
- Connection to all host systems possible
- Man-to-machine, machine- to-man
- Just-in-time, just-in-sequence
- Temperature-controlled storage
- High-speed picking
- Lift-truck control system
- Integration of pick-by-light/pick-by-voice systems
- Automatic warehouse reorganization
- Connection to shipping systems possible
- Reporting incl. performance information by means of MIS (management information system)
- Material flow computer for controlling automated systems
- Adaptations to your needs by targeted customizing
- Administration of the system via web browser
- Optimum cooperation with Klinkhammer conveyor components, but also with other conveyor components possible

Would you like to know more about us?
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What is the difference between a good solution and an excellent solution? The perfect interaction of all components. The Klinkhammer Group offers to its customers an extensive package of services – from analysis and planning, through strategy to the intelligent software and the appropriate technology. This means a maximum degree of quality and flexibility for the companies. Whether conveyor systems, individual order picking solutions, automated small parts warehouse or order consolidation buffer, sophisticated warehouse management system, complete logistics center, project planning, retrofit or extension of an existing system – the scale of the task is not an issue. Reliability, commitment and speed will be always convincing.

This is made possible by the philosophy of the Klinkhammer Group: a mid-sized company with lean structures, fast decision-making and a thriving partnership between management and employees, between company, customers and partners. Welcome to friends.

DC21 – Warehouse-Management-System

The Intelligent Software Solution For Your Warehouse

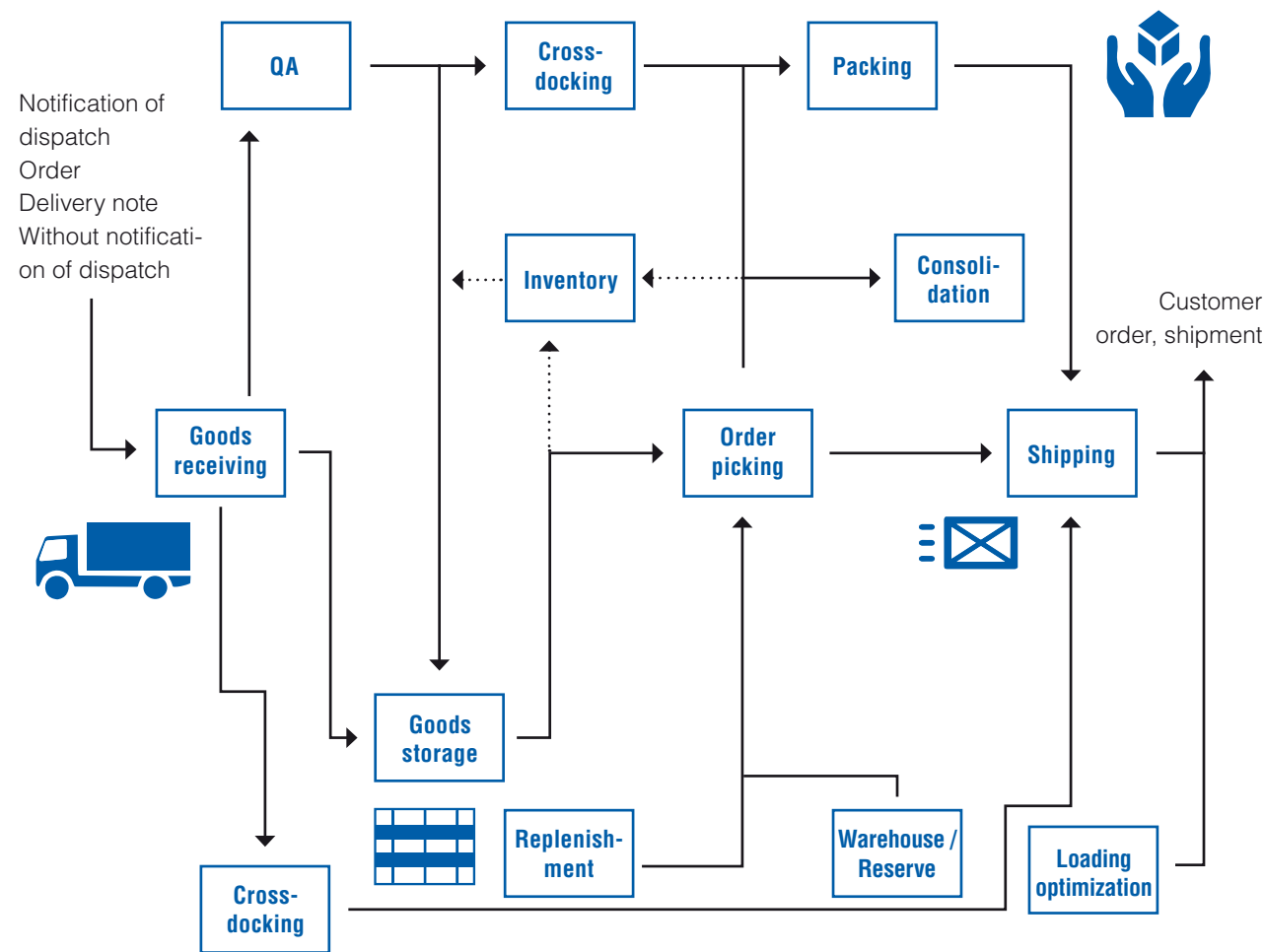WWW.KLINKHAMMER.COM   WAREHOUSE-MANAGEMENT

DC21: Warehouse Management and Material Flow Control – The Simple Answer to Complex Processes

DC21 is a software system especially developed to meet the requirements of modern warehouse management and material flow control. It has been used successfully in many systems of the Klinkhammer Group for years, continuously enhanced and adapted. Whether in trade, industry, pharmaceutical industry or mechanical engineering – with DC21 a modern, highly flexible and future-oriented software system through consequent integration of the .NET-Framework is available to your company. The annual validation by the Fraunhofer-Institute for Material Flow and Logistics emphasizes its performance and quality.

A web-based system is employed for administration and for evaluations and reports. It covers a substantial part of the inquiries and reference information.
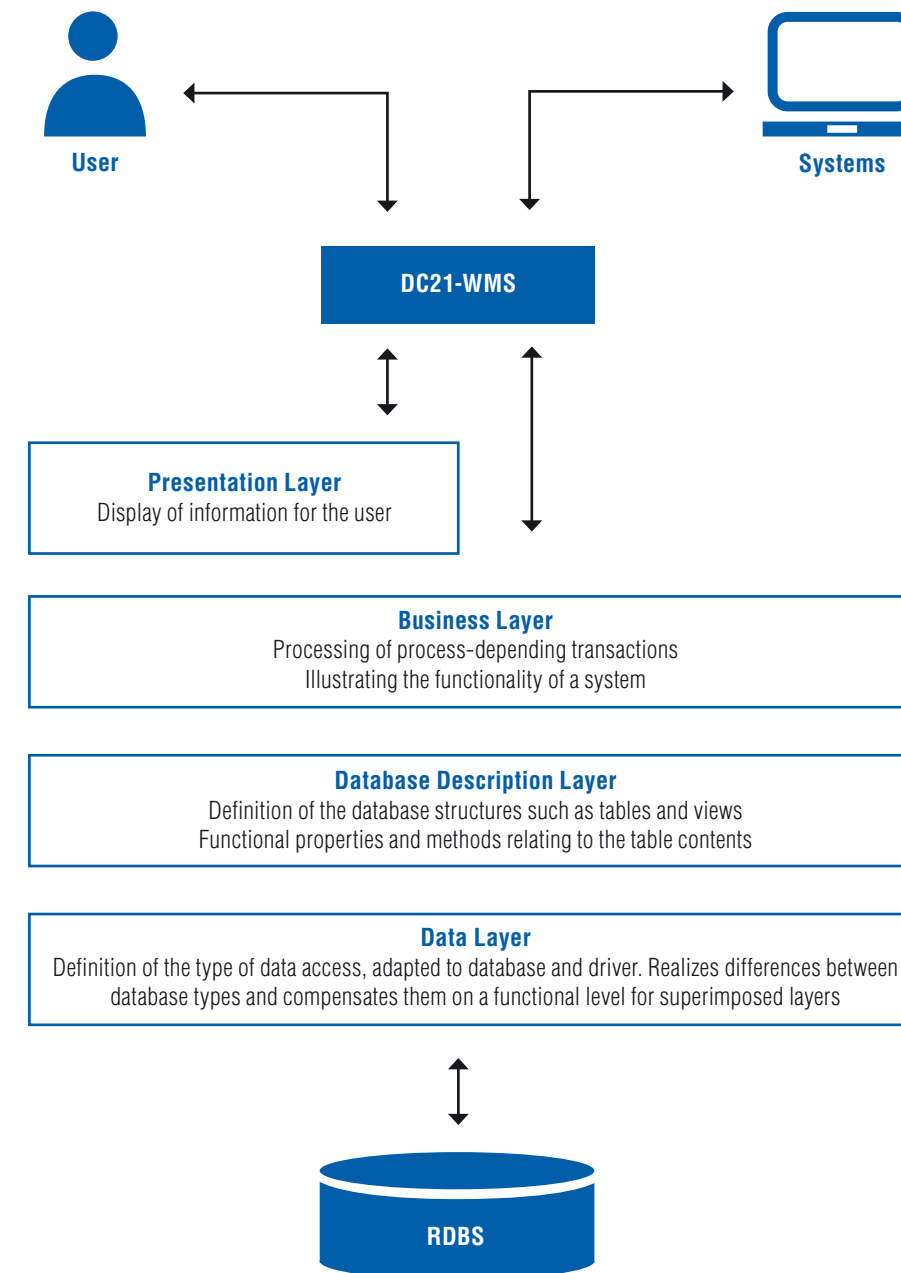
This is what DC21 offers

Order management	Resource management	Value added service	Transport management	Material flow computer	Reporting

Notification of dispatch
Order
Delivery note
Without notification of dispatch

Customer order, shipment

QA — Cross-docking — Packing
Inventory — Consolidation
Goods receiving — Order picking — Shipping
Goods storage
Cross-docking — Replenishment — Warehouse / Reserve — Loading optimization

System Architecture Excellent Performance and Sustainability

DC21 is a modular system that processes transactions in an object-oriented manner. The Microsoft.NET product family serves as basis for this. It provides the development- and runtime environment. Hence, DC21 is compatible to all Windows operating systems. This also ensures excellent performance and sustainability.

The system defines itself by processes which retrieve methods and properties of classes from libraries. These can be services, work station applications, mobile or web applications. Depending on the process, the DC21 layer concept takes effect. Flexible, customized and nevertheless – e.g. with the interfaces and the modular structure – standardized – this is DC21. The optimum solution for your intralogistic processes.

User

Systems

DC21-WMS

Presentation Layer
Display of information for the user

Business Layer
Processing of process-depending transactions
Illustrating the functionality of a system

Database Description Layer
Definition of the database structures such as tables and views
Functional properties and methods relating to the table contents

Data Layer
Definition of the type of data access, adapted to database and driver. Realizes differences between database types and compensates them on a functional level for superimposed layers

RDBS

In addition to the applications, DC21 defines itself by the databases. Here, the structures for data storage are saved which are used in the processes. Databases of various manufacturers can be employed; parts of the processing are done directly in these databases by means of saved procedures, functions and triggers.

By partnering with Microsoft, Oracle, Psion etc. we offer our customers always up-to-date solutions using the most recent products.

DC21 – Overview of the Most Important Functionalities

- Control station

- Telegram traffic to higher and lower level systems

- Controlling highly complex materials handling processes and techniques such as
  - Distribution carts
  - Storage and retrieval cranes
  - Order consolidation buffers
  - Palletizers …

- Customizing via "user exits" – parameters and rules are accessible to the user

- Control management

- Intralogistic transport management based on
  - Status
  - Capacity
  - Priority …

- Intelligent reporting point and destination list procedures

- Routing models for target tracking as well as alternative routes and alternative target selection

- Transport goods identification via
  - RFID
  - Barcode
  - Tracking …

- Error handling of materials flow

- Management information system (MIS)