



**MODULE
BOOK**



Profit from our knowledge everyday

Our customers are our best reference



1,000
Customers



32
Countries



11
Offices



16
Languages



50
Partners



9
Awards

Module Book

	Customized opportunities for your smart factory	6
#08		
Common Modules	Base Data Management	9
	Bill of Materials Management	11
	Routing Management	13
#16		
Environment	Business Process Management	17
	Balanced Scorecard Management	19
	Collaboration Management	20
	Development Tools & System Administration	22
	Document Management	26
	Electronic Data Interchange	28
	Enterprise Risk Management	30
	Knowledge Management System	32
	Mail Application Management	33
	Business Intelligence and caniasIQ	34
	SMS Management	36
	Web Services	38
#39		
E-Transformation	E-Archive	40
	Electronic Account Reconciliation	41
	Electronic Book Management	42
	E-Delivery Note	43
	E-Invoice	44
	E-Producer Receipt	45
	General Data Protection	46
	Message Management System	48
#49		
Financial Management	Asset Management	50
	Financial Consolidation Management	51
	Financial Accounting	53
	Financial Management	55
	Financial Report Management	56
	Legal Reporting Management	57
	Budget Management	58
	Sub-Group Cost Management	60
	Standard Cost Management	61
	Cost Center Accounting	62

#65			
Human Resources Management	Career Management		66
	Personnel Management		67
	Self Service Management		70
	Training Management		71
#75			
Logistics	Travel Management		72
	Quality Management		76
	Service Management		78
	Sub-Group Customer Management		80
	Opportunity Management		81
	Survey Management		82
	Customer Relationship Management		83
	Issue Management		85
	Sub-Groups Inventory Operations Management		87
	Inventory Cost Management		88
	Inventory Management		89
	Transfer Management		92
	Warehouse Management		93
	Sub-Groups Material Planning		96
	Demand Forecasting		97
	Material Requirements Planning		98
	Sub-Groups Purchase Operations Management		101
	Import Management		102
	Purchase Management		104
	Shipment Management		106
	Invoice Verification		107
	Sub-Groups Sales Operations Management		110
	Commission Management		111
	Campaign Management		111
	Export Management		112
	Packaging Management		113
	Retail Management		114
	Sales Management		116
#121			
Project and Production Management	Sales Targets		119
	Activity Management		122
	Automation		123
	Capacity Management		124
	Maintenance Management		126
	Production Cost Management		128
	Production Management		130
	Production Intelligence		133
	Project Management		134

Customized opportunities for your smart factory

canias4.0 is a comprehensive business solution that combines IoT and Big Data with your ERP solution. It is designed for business application development and includes all structures and subsystems that can be individually selected, optimally adapted to your company's needs and added as needed at any time.

ERP

canias4.0 offers software solutions that are independent of industrial sectors and can fully adapt to any company structure. canias4.0 has a compatible structure for all sectors such as textile, furniture, automotive, metal, mining, service, packaging, printing, defense, construction, retail etc.

Our solutions, which are fully integrated and flexible for companies of all sizes, can be used for all processes such as sales, customer relations, finance, project and document management, corporate development map, as well as all processes in planning, procurement, material management and production. canias4.0 technologies, which can meet all the needs of your company with its standard version, can also be easily shaped according to your special needs.



IOT

The canias4.0 IoT solution is simple to install and configure and is therefore ready for use in just a few steps. Communication is provided with simple basic settings without complicated configuration settings.

The infrastructure is compatible with current technologies. This makes it easier to support new communication protocols, which is one of the biggest challenges in automation systems. In different sectors, machines and production lines can vary considerably and change over time. This is no problem with canias4.0.

BIG DATA

iasDB is an advanced database management system optimized for handling big data and ERP processes. It also supports handling of object oriented data. An enhanced version of well known, proven and widely used database engine PostgreSQL is utilized at the core of iasDB. In addition to all the features of PostgreSQL, iasDB provides many more advanced features for canias4.0 and the other applications.

iasDB, offers various ways to archive and replicate the primary database for backup, high- availability, and load balancing scenarios.

TROIA

caniasERP system is based on 3+ tier architecture in which client, application server and data warehouse layers are separated. All business logic operations and computations are done by the application server layer and client layer is only responsible for the presentation of the application to the end user. This approach has many advantages such as improved performance, maintainability, reliability, and scalability. Beyond this user-friendly approach, we also make it a priority to offer you a secure product.

Easy to learn with less technical details

Employees without a software and computer engineering background can learn the system quickly.

Rapid development and maintenance

Developers can carry out development and maintenance jobs more quickly and efficiently.

Subsystems and structures included

Largely eliminates the need for third party systems and programming languages.

Easy to integrate in various systems

Easy integration of automation systems, mail servers, telephone exchanges or FTP servers.



Common Modules

Module Group

Base Data Management

The caniasERP Base Data Management (BAS) module is the most important part of the ERP software as it constitutes the software's foundation.

CHECK TABLES AS THE FOUNDATION OF THE SYSTEM

caniasERP is based on the check tables that are brought together in the Base Data Management module. For example, check tables are used for field selections determining the material types, document types, procurement types, locations of product groups or warehouses. There are hundreds of check tables in the module managing various controls similar to these.

Changes made in check tables become effective instantly. When a check table setting or parameter is created, changed, or deleted, the results of the relevant change can be seen through the system right away.

Most customer demands can be met by configuring check tables. Thus, the caniasERP system fulfills various requirements in different sectors through check tables.

MANAGEMENT OF CUSTOMER AND VENDOR BASE DATA

Maintenance of base data related to vendors, customers and potential customers is performed in this module. In the Base Data Management module, it is possible to save parameters that present and audit the use of user related information found in the fields throughout the system. Starting from the creation of customer, vendor and potential customer data in customer / vendor base records, it provides many advantages to the user through its fully integrated structure with other modules.

// For instance, the classification of the customers or the configuration of the customer/price list group, which allows company specific pricing—related to caniasERP Sales and caniasERP Purchase modules.

// Saving payment and bank information in order to create a case specific auto accounting record—related to caniasERP Financial Accounting module.

// Management of desired number of companies' addresses through multiple invoice and delivery address definitions.

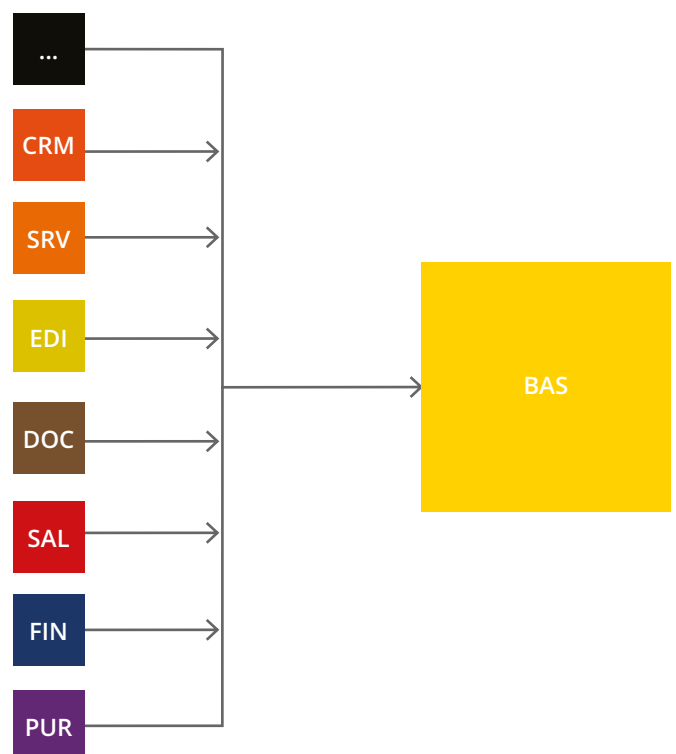
// Determination of currency, correspondence language and other standards.

// A direct link between the different system components and the company address book in the Base Data Management module offers benefits as well; It is possible to assign previously created contacts to a company, or to automatically transfer contacts assigned to a company to the address book.

// In addition to these, it is possible to store the partner vendors' certificate information showing their competence in order to maintain a healthier supply management.

MANAGEMENT OF MATERIAL BASE DATA

Similar to the customer and vendor base data, material base data is also created and managed in this module. The concept of 'material' here is used as a broad term for products, semi products, consumables, auxiliary materials, maintenance, spare parts or commercial products. Material Base Data serves as



Img. 1. Integration of BAS-Module in the System

a central storage location for all such 'material types' and is very important for data integrity.

Here are a few examples of the basic configuration properties of a material:

- // Definition of authorized warehouse addresses
- // Determination of material requirement planning data by production or purchase departments for re-supply.
- // Saving data to use as default information in other modules if required. Data from Service Management, Maintenance Management, Sales Management and Purchase Management modules, VAT and income account determination indicators in the Financial Accounting module, pricing information, stock valuation parameters of a material etc.
- // Quality control definitions for material quality control.

The units of measure (Units, meters, hours, pallets, etc.) to be used for the materials are also assigned in the Base Data Management module. Here, the user can define a relationship between the measurement units for each material. (e.g. a pallet can be set to be 100 pieces, or a dose can be equal to 4 liters.) Automatic calculation can be carried out according to the common quantity relationships saved in the check tables as well. (e.g. 1 ton = 1000 kilograms)

The availability of a material is controlled by the material statuses in the system (active, blocked, at the design stage, etc.). The standard procurement channel is controlled by procurement type, such as production, purchase or external operation.

Material Base Data provides all the adaptable structures required in caniasERP modules. For example, material texts can be defined in multiple languages according to the purpose of use in the enterprise. (In-company, procurement, sales, production, etc.) Additionally, if the material has customer-specific and / or vendor-specific codes, they can be assigned on this module. In this way, Material Base Data can be centrally managed according to the content needed in all caniasERP modules

MANAGEMENT OF WORK CENTERS

Work centers where production and project operations are carried out are defined and managed under this module. Defined work centers are first associated with route operations and thus form the base data for production orders to be created. The same work centers can be used in project activities if desired as well. Machine and personnel capacities and cost activities in work centers are important in terms of capacity planning and production costs. Working hours and capacity of work centers directly affect the scheduling and cost of production orders. The facto-

ry calendar can be used for all work centers and the work schedule of each work center can be customized. In work centers, important definitions such as preparation group, person-in-charge (responsible), cost center, special working days or holidays and quality specifications to be used in process quality control can be made.

Work centers that perform similar jobs can be grouped under a 'Capacity Group' and capacity demands can be distributed according to work centers in the group during operation scheduling. This feature allows the operation to be carried out in the fastest way by evaluating the possibility that the operation can be done not only in the designated work center but in any work-center included in the group. A work center can become a member of more than one capacity group according to its capabilities. In addition, it is also possible to use the defined work centers as a tool or an equipment in the projects.

CLASS MANAGEMENT

Companies may have extra information that they may want to keep for some base data, depending on their business or corporate identity. The ability to store special data, such as the cylinder diameter of the films used in printing in packaging production or the unit weight of paper in paper production, can easily be achieved with Class Management. Due to the 'Class' defined for a specific group of materials, such special data can be tracked without any need for customization and can be used as search criteria for easy access to materials. This function can be used similarly for other base data, such as fixed assets, customers / vendors, personnel.

OTHER CONFIGURATION POSSIBILITIES

Other configuration possibilities are also provided for the user to install and use the system customized. These configurations include:

All contact persons (Employees / Partners / Customers / Vendors / Potential Customers etc.) can be registered in the address book. With the necessary authorizations, it is also possible to create personal address books that other people cannot access.

General variant definitions can be created for later use with variant management. Here, the variant properties and their possible options can be saved. (E.g. 'color' as a feature and 'red', 'green', and 'blue' as possible options.) These variants are assigned to the relevant materials and are effective in all modules using the relevant material when necessary, such as BOM Management, Routing Management, Production Management, Inventory Management, Sales Management, Purchase Management. A large number of features and a large number of options depending on this feature can be easily managed throughout the

system with single Material card, BOM, and Route base data. Other variables with variable options such as length, thickness or volume can also be defined and managed as variants.

It is possible to define the cost centers as a main cost center, auxiliary cost center, bulk cost center or distributed cost center. In the meantime, settings related to Financial Accounting can also be made. (For instance, belonging to a business area, confirmation for charging an expense center directly, etc.)

The Product Configurator transaction is used to manage the production process from the design stage to the confirmation stage for the businesses that work based on order. After designing a new product, costs can be calculated, and an offer can be submitted to the customer. During the offer, the product and its sub-items do not have to be registered in the system. Pricing is possible depending on the properties of the product or the materials used in the production. After the prices are finalized, the material card registration, BOM and route information can be created for the product and its sub-items.

Features

Overview

- // Central configuration
- // Easy & purpose-oriented authorization
- // Separation of process data and base data within the application
- // Determining parameters in check tables and adjusting and editing all workflows
- // Applying different business solutions for each company in check tables
- // Copying check tables from one company to another
- // Bulk modification features (E.g., for material texts)
- // Auto-Updating exchange rates.
- // Country-specific definitions (E.g., value-added tax identification numbers)
- // Management of Customer and ' Vendor data
- // Material Base Data management
- // Management of class info
- // Management of Address Book
- // Management of variants
- // Management of Work Centers
- // Management of Cost Centers
- // Product Configurator

#NEXT

Bill of Materials Management

The caniasERP Bill of Materials Management (BOM) module is used to display and manage the information about the materials used in production. A bill of materials, which is a list of materials, can be considered as (to be added) a recipe defining the hierarchical structures and quantities of semi-products and/or raw materials required to produce a product. This module allows BOMs to be created, copied, modified and controlled.

With this module, the BOMs can be combined into hierarchical and multi-level BOMs depending on the complexity of the product (the number of semi-products required for its production) to be produced. If

there is a common semi-product used in the production of more than one product in the enterprise, a single BOM record can be created for this common semi-product and then be associated with the prod-

ucts to be used. Variant Management enables the materials saved in the system to be differentiated in terms of user-specified properties. For example, one of the variant features of a shirt to be produced can be the body size of the shirt, and the options of this feature may be Small, Medium, Large. These variant configurations apply to every module as well as the Bill of Materials Management module. In this way, a large number of features and a large number of options depending on the feature can easily be managed throughout the system with a single material card, BOM and route base data. Options such as length, thickness or volume—which can have different values in each transaction—can also be defined and managed as variants.

BOMs, which are used as a reference in the calculation of the semi-products and raw material requirements to be determined for the Material Requirements Planning module, is also used effectively in processes such as external procurement. In this process, the relevant materials in the BOM can be sent from stock to subcontractors for use.

In conjunction with the Routing Management module, the system creates a production network and displays this network graphically when prompted. Thus, even complex BOMs and routes can be created clearly at different levels. Copying the components of an existing BOM into new BOMs makes workflow easier. Similar materials or structures can be created more easily by referring to the defined BOMs.

VALIDITY DEFINITION

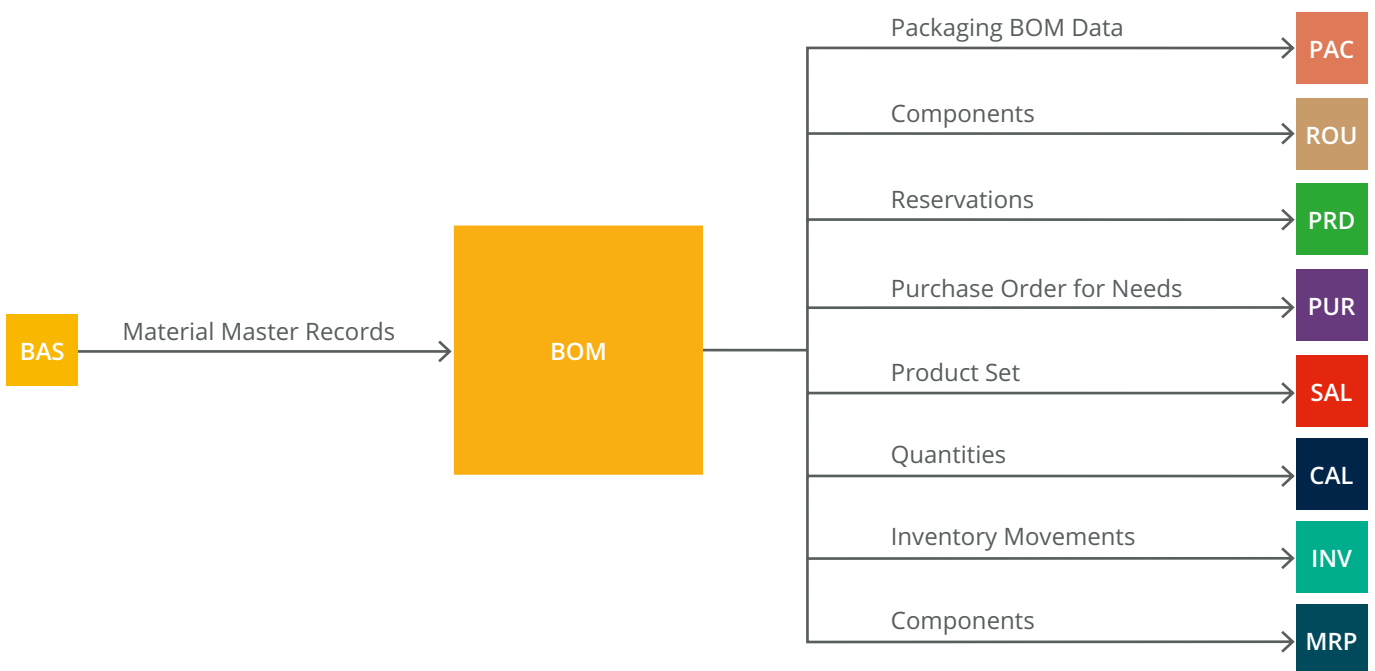
Each BOM created in the Bill of Materials Management Module is valid under the conditions defined

for it. For example, the components that make up the product are required to be used according to (depending on) the batch size to which the product is to be produced. Thus, various components can be used for different production batches. Time limits can be made to define the desired structures for specific periods. There may be more than one way of production of a manufactured product within an enterprise. These different types of manufacturing can be defined in the system as production alternatives.

The BOM can be used not only for production but also for sales. The product sets, which are formed by combining more than one product, can be defined as BOMs; They can be sold by entering only the BOM title. Even after the start of production, the relevant BOMs can be changed and these changes can be reflected in open production orders. Thus, product design and production processes can be executed together, if desired.

AUDITING & CONFIGURATION IS AVAILABLE AT ALL LEVELS OF PRODUCTION

A wide range of configuration options are available in the BOM Management Module is not limited to only the level. In fact, configurations can be maintained for each component level. Item types that can be defined freely allow the user to manage each material individually. The components in a BOM that will be used in production and design should have different properties. Thanks to the predefined component properties specified in the module, the separation of these components can be easily done when configuring a BOM. It is possible to define the input quantity for each component. For example, for each X product quantity unit, the Y component quantity unit is required. The



Img. 2. Integration of BOM-Module in the System

units do not have to be the same here. There is also the option to determine the amount of consumption for the components according to the defined formulas. Flexibility in component management also applies to by-products that may occur during production. By-products may be identical or completely different from the product, and cost-sharing features can be determined accordingly.

COMPREHENSIBLE STRUCTURE - EASY TO USE

The Bill of Material Management module is a very effective tool to work comfortably on complex structures within production. Ergonomic applications with important functions provide ease of use and advantages. Bulk change of components in multiple or all BOMs simultaneously, presence of components in all or department-specific BOMs, or addition of new components to the desired data records are only a few of these advantages.

The open structure of the caniasERP system also enables communication with external systems (e.g. a CAD software). Thus, BOMs and even materials can be created and modified in an external system. This interaction is done through the Electronic Data Interchange module.

INTEGRATION

The Bill of Material Management module, which can be integrated with other processes in the caniasERP

system, plays a key role in basic manufacturing processes with integration to other production modules such as Routing Management and Production Management; It also creates the basis for Material Requirements Planning, Sales Management, Purchase Management, Inventory Management, and Standard Cost Management modules.

Features

Overview

- // Complete integration into production plans and production
- // Validations based on time and lot size
- // Component-level control
- // Expandable BOMs
- // Co-production
- // Alternative BOMs
- // Dismantling (Disassembly) BOMs
- // Variant Management
- // Different measurement units
- // Determination of quantity based on formulas
- // Ergonomic use (Batch updates)
- // Sales & procurement BOMs (Product sets)

#NEXT

Routing Management

The steps required to complete production, assembly or disassembly activities and the resources required in these steps are defined on the system with the caniasERP Routing Management (ROU) module. This module handles the information on which operations to perform in which order and which tools and work centers to use in addition to which materials will be used in which operation.

The work centers where the operations within the scope of the Routing Management module are carried out, the machine and personnel capacities in these work centers, the cost/cost types of the machines and the personnel are extremely important in terms of capacity planning and production costs. Working hours and the capacity of work centers directly affect the scheduling and cost of production orders. In this module, the factory calendar and work schedule can

be used for all work centers, and each work center can be customized.

BOM AND VARIANT MANAGEMENT

The Bill of Material Management module, which can be used parallel to the Routing Management module, where lists of components to be used in production processes are defined. In the route definition, these

components and related operations are mutually combined. The detailed planning in the module allows the components to be assigned to the relevant operations. This assignment then forms the foundation of precise and accurate material requirement planning. Material supply can be planned to take place at the start of production or as a special process. This data is also used in all other stages of production up to purchase.

With the 'Variant Option Matching' feature, the operations that should be included in the relevant configuration can be planned in detail depending on the specified characteristics of a material. The production times of these planned operations (Preparation, Machine, and Labor) can be determined separately for each Variant Configuration of the product.

WORKFLOW TIME AND SCHEDULING

The operations of each route have a production time planned by the user. In this context, deadlines are planned according to the availability of work centers in production management, material requirements planning and capacity management modules and supply of materials/services. Transition times between operations can be configured with Standby, Move, and Overlap times. All these definitions can be customized depending on the validity date and the lot sizes. A production order is scheduled based on the operation level and the formulas recorded in the system. The most used production time formulas are presented to the user as a standard, but these formulas can be modified to be specific to the businesses by using the information defined on the operations.

'Capacity Groups' can be defined for work centers used in operations. In this way, the Work Centers that do the same work can be grouped and the capacity demands during the operation schedule can be distributed according to the work centers in the group. This feature allows the operator to be carried out in the fastest way by evaluating the possibility that the

operation is done not only in the designated work center but in any work-center included in the group.

CONVENIENCE AND FLEXIBILITY

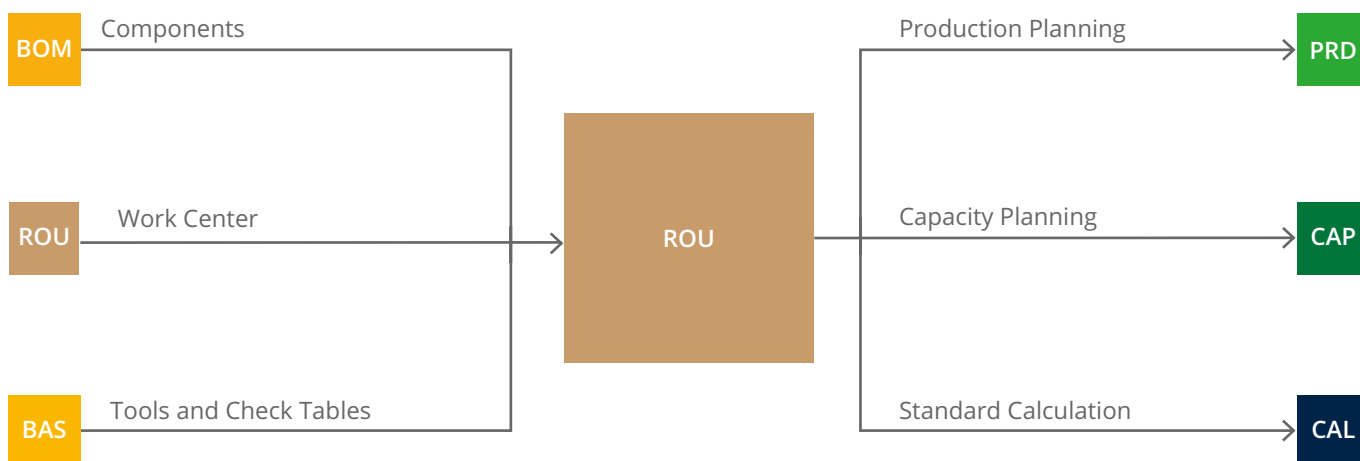
The module allows easy and flexible management of routes in the system.

When a BOM is changed, the relevant route definition for it can also be changed accordingly. Production orders which have not yet been confirmed during this process can also be updated upon request. In the Routing Management module, the history of all routes can be kept, and different versions of the route can be stored. Creating alternatives offers general freedom of choice. In addition, these alternatives allow for a certain amount to be produced on other machines under certain conditions, in connection with particular lot sizes.

INTEGRATION

Thanks to the integration with the Base Data Management and Bill of Material Management modules, the route information easily generated in the Routing Management module is the main component of the production plans created in the Material Requirements Planning module and the production orders generated in the Production Management module. Scheduling of production plans and orders in the Capacity Management module is done with these data. In addition, quality control plans defined in the Quality Management module can be associated with operations.

The data, which is used as the base data to determine the production costs, is transferred to the Standard Cost Management module and, through production orders, to the Production Costing modules. Route definitions can also be made in relation to (with) Service Management and Maintenance Management modules.



Img. 3. Integration of ROU-Module in the System

Features

Overview

- // Base creation for production plans and production orders
- // Alternative route management
- // Operation matching in line with product variants
- // Configurable operation durations
- // Consecutive Loading
- // Parallel Processing

- // Tools and Template Management
- // Adding work centers that do the same jobs into a single Capacity Group
- // Enterprise specific production formulas
- // Activity types to cost on demand included
- // Updating work center calendar based on capacity data

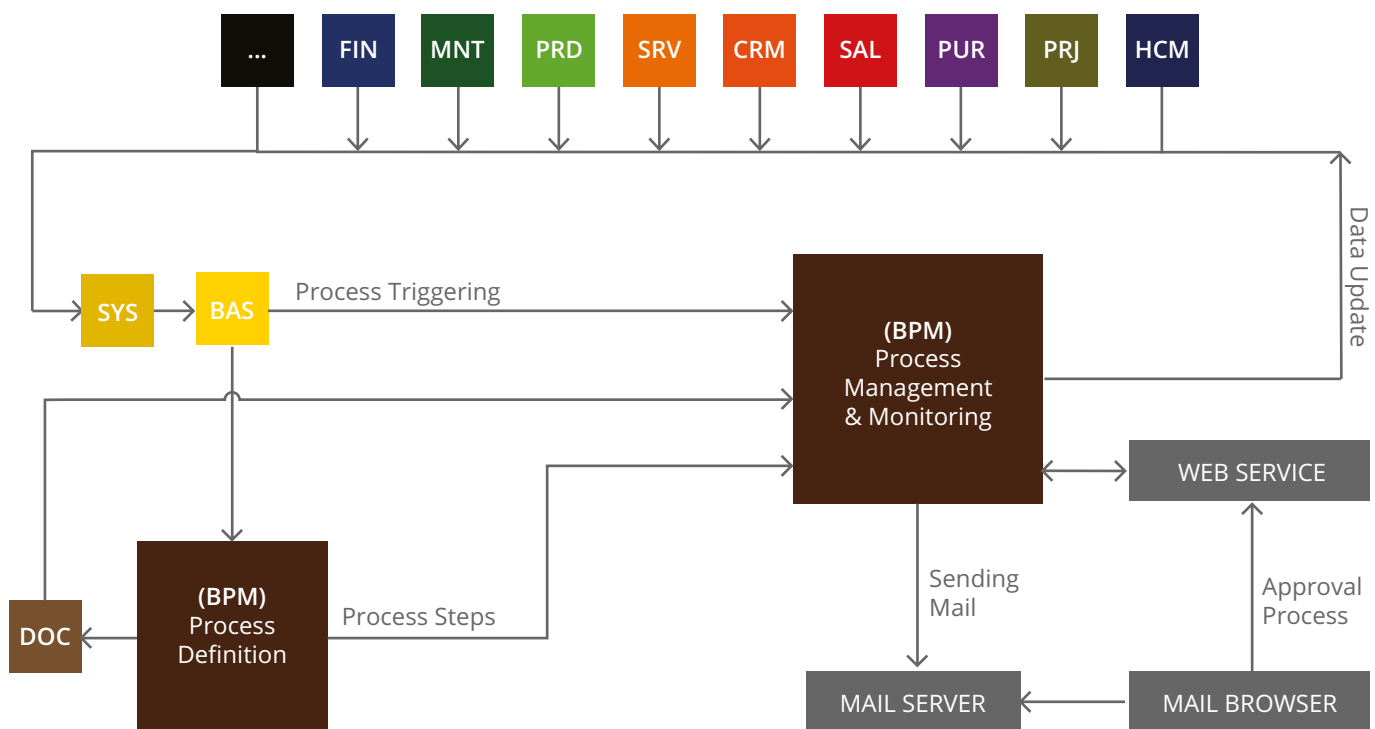
ENV

Environment

Module Group

Business Process Management

caniasERP Business Process Management (BPM) module supports the user in modeling, automatically initiating, then auditing the processes within the company with less cost and effort. Thus, workflows with the complex and heterogeneous structures are optimized and efficiently executed from the beginning. The objective of the BPM module is to organize the different processes in the company or related companies in a flexible and fast way, to minimize the risk of potential errors in the processes and to make business processes more effective, efficient and standardized.



Img. 4. Integration of BPM-Module in the System

The processes performed in the ERP system can be customized by the authorized user in accordance with the specific needs of the company through this module, allowing the processes to become standardized and completed quickly and accurately. This ensures that user errors are minimized, productivity is increased, and process costs are reduced. This module is fully integrated into the caniasERP system and can, therefore, be used for all workflows in the relevant functional areas.

EFFICIENCY

The purpose of this module is to automate your core processes to achieve higher efficiency. The user can adjust and expand and integrate the workflow for all

the relevant departments. No external programming is required for this. Thanks to this module, company-specific needs are met to a great extent and a high level of integration is achieved.

PROCESS MODELING

The caniasERP Business Process Management module assists the user with all project relations to help organize and maintain their organizational and structural characteristics using a set of standard rules. With defined procedures in place, a framework is drawn up for the process task or step that employees will take. During business process modeling, the users can access predefined activities and incorporate them into processes according to (in line with) the needs:

- // Confirmation or Rejection (by one person)
- // Review (by one person)
- // Decision (by the system according to (based on) recorded criteria)
- // Voting (between multiple people or departments)
- // Other freely configurable activities (conversion via TROIA code)
- // Transactions (by one person)
- // Sub Process (The results that will return from the defined sub-processes)
- // Wait (Triggers from other processes associated with the type of event defined)
- // Mail (by the system according to (based on) the configuration made)

As a rule of thumb, the user interactive activities and the ones to be executed automatically should be separated from each other most of the time in this module. Each activity has its own characteristics besides being user interactive or automatic. In addition to the activity selection, standard design processes are offered to give the user insight into the system. They can be used directly by process developers or resent as sub-processes at related points. Thus, company-wide integrity is ensured and the potential for errors is reduced. During the creation of workflows, protocols, drawings or model-based event-driven process chains (EPC) can be integrated. Well-structured automated workflows play an active role in improving process performance and, hence, company productivity.

PRACTICAL ROLE CONCEPT

The elaborately designed role concepts in the Business Process Management module allow logical tasks to be delivered to specific individuals, teams, or several departments for the relevant goals. For this purpose, certain roles can be assigned to the users through the module during the process modeling and authorization can be given for the execution of various activities. Roles such as 'Sales Manager' or 'Manager' can be defined completely freely. In addition, organizational charts defined in the Human Resources Management module can be used in this module. In the process step regarding these roles, which employees are involved, and which areas are in the responsibilities of the employees are regulated. The activity roles can be changed dynamically with configurations made in the process, and the activities can be assigned to a single user with the role. The assignment, maintenance and central control of roles are performed by a system administrator. Each user has the right to assign a representative for their areas of responsibility and transfer their authorizations for the respective functions to these representatives.

PROCESS INSPECTION AND TRACKING

The Business Process Management module, which allows centralized control of processes, has several criteria for each activity. In the activities that are user interactive, the person in charge of each employee-defined process should be defined. The process can be confirmed, rejected or assigned to another user. Similarly, automatic actions such as automatic emails can be configured to be sent when a specific event occurs. Another automated capability is the addition of Timeout Links during process modeling. Thus, if the user is not able to receive a response from the person assigned as the person in charge for the task until the defined time, they can determine to which representative should the task be forwarded. With the automation of workflows, the daily workload on the employees, costs, potential of errors are reduced, and efficiency is increased. Users are given the opportunity to access business processes and review related tasks during the working period. This gives an overview of the flow of logically interconnected process steps. Information about the current status of the process can be acquired as well. It is possible to see how a process that is confirmed or rejected in the inspection will continue. With this feature, the user can have a general view to design future activities. The module also provides a complete traceability for the entire process flow. This contributes to securing existing workflows and optimizing the future.

EMAIL USE

Draft templates are used in the email activity for the process design. Well-thought-out role concepts allow the task to be deployed to specific individuals, teams or several departments.

INTEGRATION

The Business Process Management module includes all the tools needed for process management and is a non-interface solution. The integration of process management components into the overall system and the presence of internal process connections with other modules provide users with numerous integration benefits. With the configurations made, the processes can be started in the desired event of the desired object.

Features

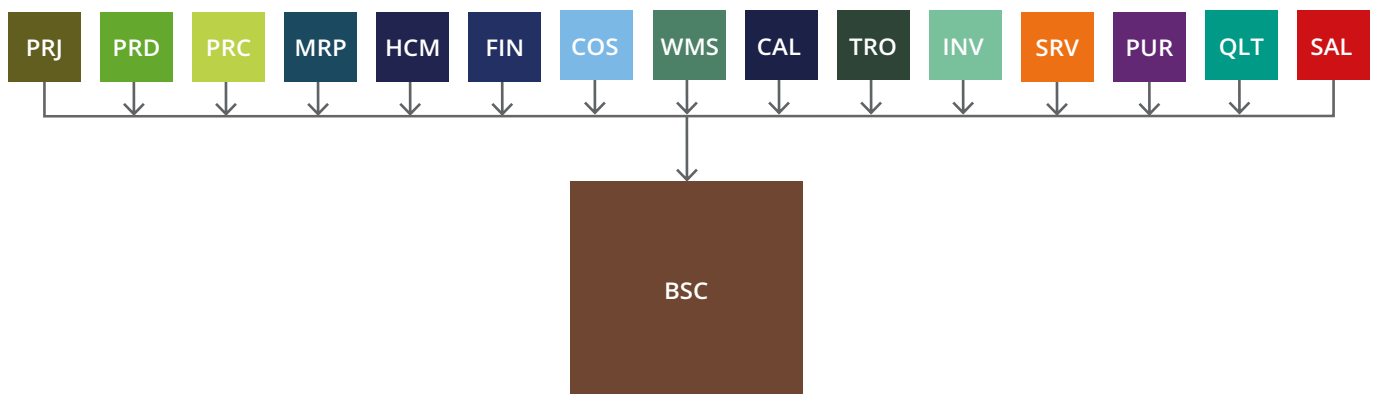
Overview

- // Independent adaptation of the ERP system with authorized users
- // Quick application
- // Easy task and responsibility assignment through roles
- // Assigning process activities to self or to other users/roles
- // Use defined mail and action templates in processes
- // The organization chart
- // Start processes with simple conditions in check tables
- // Utilize sample processes to have insight using templates and standardized sub-processes as 'Sub flow'
- // Automatically transfer the process responsibility to the representative (in case of timeout)
- // View modeled processes in different modes (e.g. flow diagram)
- // Flawless system integration, business-oriented planning capability from all modules in the caniasERP system

#NEXT

Balanced Scorecard Management

With the Balanced Scorecard Management (BSC) module, the vision and strategy of a company can be transformed into a set of consistent performance measurements and presented to managers by creating a comprehensive framework. Besides being a performance measurement system, Balanced Scorecard Management is also used as a management system for a strategic approach. This management system consists of four main perspectives: "Financial Perspective", "Customer Perspective", "Internal Process Perspective" and "Employee Perspective." New alternatives can be defined in the module in addition to these perspectives.



Img. 5. Integration of BSC-Module in the System

Strategic goals are defined in the Balanced Scorecard Management module and targets are set based on these objectives. These objectives are converted to measurable performance indicators. Thus, performance indicators are used to implement strategies while showing the current state of the companies. These strategic goals are gathered under scorecards. It is also defined which coefficient is effective in determining the value of the report. Separate scale and operating period can be specified for each target. Results are automatically calculated by the system.

REPORTING

When the defined scorecards are run at the specified times, the results are shown both in the report and in the tree structure defined in the diagram.

INTEGRATION

Balanced Scorecard Management module is integrated with all modules in caniasERP, therefore, all system data can be used in the scorecard calculations.

Features

Overview

- // Configurable module parameters
- // Identifying new perspectives
- // Flexible scale design
- // Practical scale multiplexing
- // Using data from each system module

#NEXT

Collaboration Managament

With the caniasERP Collaborator (CLB) module, personal and general deadlines can be managed through personal and company agenda, and address book management transactions. In addition, through the 'Summary' feature of the module, personal reports can be prepared by extracting data from applications within ERP.

COMPANY AGENDA

The agenda in the Collaborator module can be viewed as a personal view of the relevant user or as a company-wide overview. The period to be viewed can be selected individually. The desired search can be made in the interactive agenda using various display filters such as resources (company tools, space availability) or employee groups (Departments, teams, etc.). The creation of new events can be done manually or automatically through integrated processes. Additionally, important information such as payment or contract renewal dates in the ERP system can be followed through the calendar in the module.

TASKS AND EVENT MANAGER

The task and event manager in the module offer comprehensive functions for creating and managing tasks. Task and activity types that can be defined by

Features

Overview

- // Dynamic adaptive user console
- // Connection with caniasERP modules / processes or external data sources.
- // Task, event planning and management tool.
- // Personal or company calendar management.

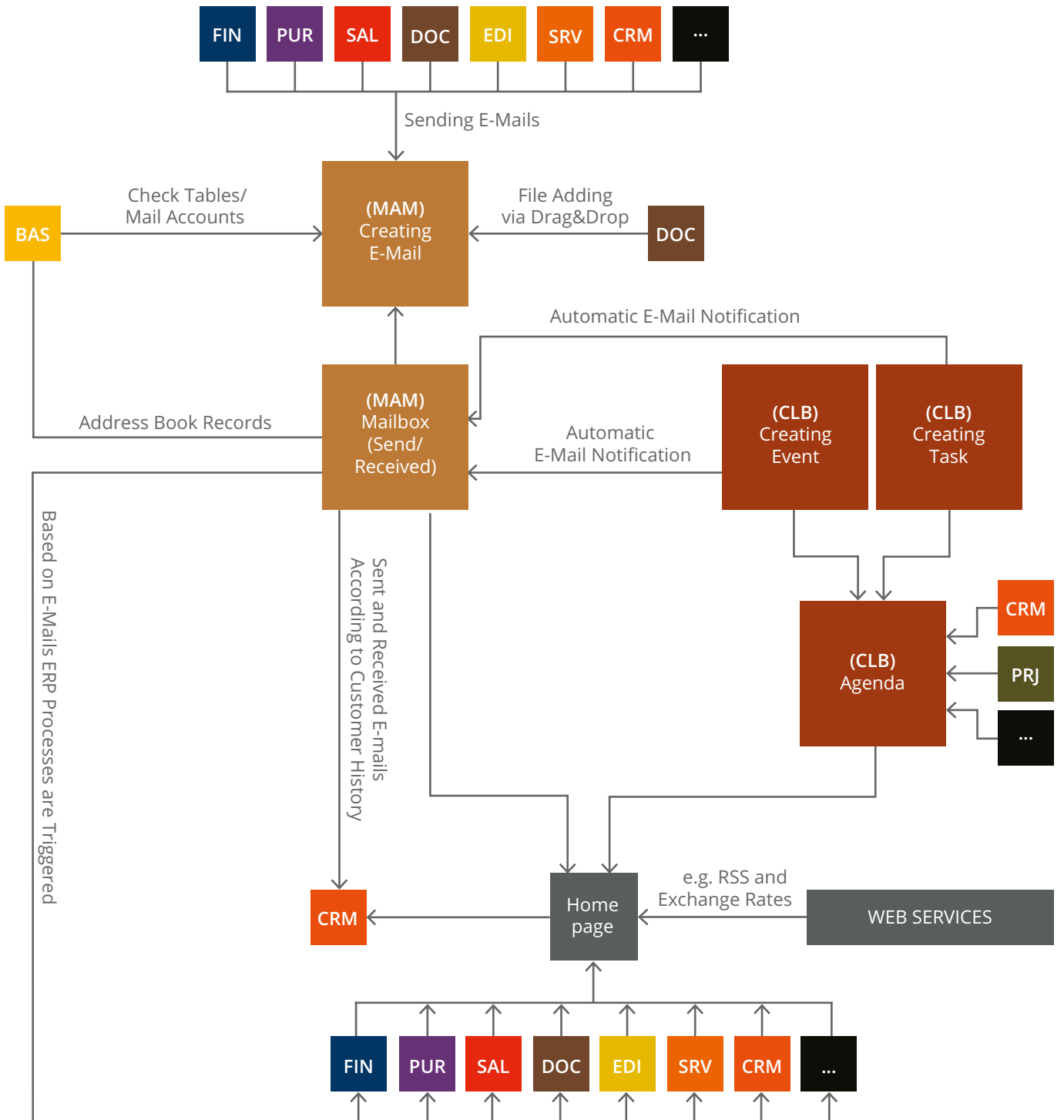
the user such as meeting at the customer site, internal activity can be used. Different statuses can be assigned to tasks or events here.

USER CONSOLE

The Collaborator module presents all important lists and figures specific to the relevant company, obtained from the entire caniasERP system, on the console. In addition, all desired indicators, including vacancies, roles and information from external sources, can be brought together into a user-specific summary view.

INTEGRATION

Collaborator module is an interactive communication solution that offers many possibilities to establish a personalized work order. Thanks to its structure that is fully integrated into the caniasERP system, it allows the initiation of a large number of processes as well as the establishment of desired individual connections.



Img. 6. Integration of CLB-Module in the System

Development Tools & System Administration

caniasERP runs on the TROIA software development platform developed by IAS. The ERP system comes with its source codes, TROIA Platform, and the interactive development environment (IDE). In other words, the customer gains access to all of the development and management tools of the TROIA Platform with caniasERP. This enables the customers to adapt and configure the system to fit their needs and requests in the enterprise. With an Operating System that is database independent and service-oriented architecture (SOA), TROIA platform and caniasERP, which have a %100 Java-based and three-tier structure, offer robust security and unlimited flexibility to the customers.

TROIA – PROGRAMMING LANGUAGE AND DEVELOPMENT ENVIRONMENT

Development and management of applications and profile-based user and authorization definitions can be made through TROIA Development Tools and System Administration. With detailed parameters to ensure that the management related to the overall system, including the log mechanism, is performed flawlessly.

Adaptations of the TROIA environment can be performed by IAS consultants or by trained company personnel. With this user-friendly platform, companies can significantly reduce their custom adaptation cost as the required programming cost can be performed exclusively with internal resources.

CANIASERP TECHNOLOGIES AND ADVANTAGES

caniasERP is platform independent

caniasERP works with all known operating systems on the server and client-side and is compatible with all known relational databases. This allows the system infrastructure to be used not according to (in accordance with) the design and limitations of the ERP solution, but to (with (this will be applied if “in accordance with” is preferred) to be used the meet the needs and limitations of the customer. In addition to commonly used platforms such as Microsoft, Oracle, and various Linux distributions, many open-source solutions such as PostgreSQL and MySQL are also supported. This added feature eliminates companies’ dependency on third parties’ resources which in turn allows for more efficient use of company assets.

caniasERP is open source and promotes cost saving

With unique technology, architecture, and development environment, TROIA offers its customers direct access to the source code of the application. As a result, companies can adapt and develop the existing solution in the most efficient way possible with high flexibility.

caniasERP offers multiple company support

caniasERP’s multi-company infrastructure enables multiple companies, that are legally independent of each other, to be created as separate units in a single software installation.

caniasERP supports interoperability

One of the many advantages of the TROIA programming language and its service-oriented architecture (SOA) is fast integration with external systems. Many protocols or technological infrastructure such as Web Services, HTTP, FTP, TCP, OPC, can be integrated with the ERP software without compromising security and communication.

caniasERP Is accessible worldwide

The caniasERP system can be accessed from any location that has internet access, therefore, allowing easy connection to field personnel, business partners, vendors, and other offices.

Also, this allows for multi-language support and unlimited localization options, including Unicode, caniasERP system to be used with a high degree of comfort from any location worldwide.

SYSTEM ADMINISTRATION (SYS) AND TROIA DEVELOPMENT TOOLS (DEV)

caniasERP Software Infrastructure

caniasERP works on the TROIA software development platform developed by IAS. The ERP system is delivered with the source codes, TROIA Platform, and development environment. This allows customers access to all development and management tools of the TROIA Platform together with caniasERP. Customers can adapt the system in the most applicable way to the needs of the enterprise and continue the configuration of their business needs.

Future and investment security

On the Java-based caniasERP platform, the operating system and the database on which the application and database server are used can be selected with virtually no restrictions. All JDBC compliant systems, including IASDB, IBM DB2, MySQL, Microsoft SQL-Server, Oracle, PostgreSQL and Sybase, can be used as the database system. An investment in caniasERP's flexible and open system architecture is not dependent on anyone's technology. This investment with its flexible infrastructure can be modified to meet changing business needs over time.

Location-independent use and management

Since caniasERP can be used from any location worldwide, technical processes such as managing or developing application servers can also be performed from any location. caniasERP application servers can be configured effortlessly with configuration files and changes take effect immediately without the need to restart the server.

Data and codes for business processes live on the application server. All updates are available immediately while backup, updates, and debugging are performed centrally.

The platform's log, optimization, and management infrastructure enable the system to be monitored at all times and from any location, analyzing various processes and quickly correcting or optimizing possible problems in system administration.

Data security

- // The 3-tier architecture allows the database to be separated from the user network and the internet.
- // The use of an optimized internal communication protocol makes unauthorized attempts to interfere with the application server harder.
- // The system's flexible and easy-to-use network architecture can easily incorporate firewalls.
- // Advanced authorization infrastructure prevents data and processes from being viewed and executed by unauthorized people.
- // The users' data is also protected against access over the internet through VPN and SSL.

High efficiency with three-tier architecture

The caniasERP system has a three-tier architecture consisting of a client, an application server, and a database. This three-tier structure offers the following performance features:

- // The client tier does not contain codes related to the business process. This tier is only responsible for using the user interface. Accordingly, the hardware requirements for the client are also low.

- // With the caniasERP Load Balancer, multiple application servers can run simultaneously. The distribution of load by Load Balancer guarantees a constant level of performance and safety.
- // The application server can be scaled for companies of all sizes.
- // Optimized communication algorithms reduce data traffic and provide a high transfer rate.

TROIA is a fourth-generation (4GL) programming platform and language for business applications developed on Java platform by IAS. The caniasERP system is developed with the TROIA programming language which makes it a Java-based ERP solution.

TROIA, an object-oriented command language, can be easily learned in a very short time by people with decent technical competence. TROIA is similar in many ways to modern programming languages such as Java and .NET. The system can be programmed in just a few steps with the most effective database-oriented applications and over 500 commands and can be immediately put into use.

The TROIA development environment is fully integrated into the caniasERP application. No additional software or tools are required to adopt or develop new applications. The source code created with TROIA is saved and managed in a relational database. The developments done using TROIA are transformed into binary (Binary) code and are interpreted by the application server and executed on the server in Java runtime environment.

Quick development of forms and reports

The forms (screens, dialogs) and reports used in the caniasERP system can be easily modified or re-created. New dialogs and reports can be created with the design tool in the TROIA IDE. Buttons, database fields, checkboxes, graphic elements, tables, images, etc. are the standard components in TROIA. These components can be easily positioned with a drag-and-drop feature on a dialog window screen. The business processes and the behavior of the components can be easily improved by the easy and flexible structure of the TROIA language and the automatic completion feature (Intellisense) and the help infrastructure of the TROIA IDE.

Effective development environment

The TROIA IDE and Hotline Management System support all steps in the software development process. All changes made under a development project are recorded through this system. TROIA allows detection of errors through its Code Trace system, profiles, and workflow monitoring (Debug), and contributes to the minimization of possible errors during the development of the application.

Individual report design

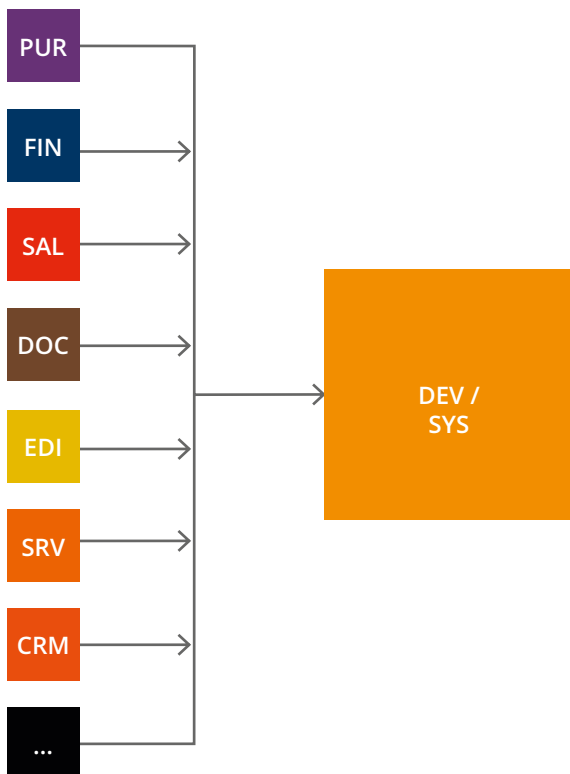
The report wizard, pivot, and graphical report design tools in the user interface and the report design tool in the development environment can be used to quickly generate reports that can be accessed by individual users or all users. These reports can be created in PDF, HTML, RTF, XLS, or plain text format and printed, sent by email, or saved to the Document Management module.

Multi-language support for worldwide use

An important feature of caniasERP software is the multi-language support provided by the integrated translation tool. With this tool, all screen texts and notifications can be translated to all other languages without redevelopment. All screens (dialogs), reports, and messages are displayed in the language selected by the end-user when logged in to the system. Likewise, all reports can also be printed in the desired languages. (Controlled by the language code.) On the platform, several languages are supported thanks to Unicode Support (UTF8 and UTF16), including non-Latin languages such as Chinese, Korean, Persian, and Arabic.

Adaptation of the standard application to company's needs

A customer with the caniasERP Maintenance Agreement has unlimited access to the entire source code of the application and can adjust the system to their own needs. Thanks to the concept of 'Cross' in TROIA,



Img. 7. Integration of Modules DEV / SYS in the System

the changes made affect the corresponding function derived from the standard code, and not the standard code itself. This ensures the consistency of the standard version, even when customer-specific, complex changes are made. In other words, customer-specific adaptations continue to remain after updates.

Platform independent database structure

Database components such as tables or table directories that are used in the application with Online Database Administration (ODBA) can be managed and edited with the help of visual tools. Other functions of ODBA are to transfer tables and data between the same database or between different database systems and execution of structure synchronization between the table definition and the actual table structure on the database.

Never drop behind with caniasERP

The gradual growth of a company increases the requirements of an ERP system. caniasERP has an open, scalable, and adaptive system architecture. Thanks to this architecture, unlimited flexibility is provided in the design and assembly of operational processes.

In addition to strong integration between applications and well-thought-standard modules, personalization, and customization possibilities provided by the system provides the fastest way possible to adapt the company to changing conditions in which the system is used.

Advantages Of Using TROIA

- // Open Source Code
- // Easy to learn and develop
- // A system architecture that supports remote development
- // Platform independence
- // Object-Oriented Programming Language
- // Easy to create user interfaces with the drag and drop design
- // Easy integration with other systems & interfaces
- // Instant transfer of developed applications to the runtime environment

Other Features

- // Report creation with no coding through Pivot and Chart properties
- // Report creation in formats compatible with office applications
- // Report creation in PDF, HTML, RTF, and plain text format

Benefits of integration

The features offered by the TROIA Platform and the flexible architecture of the caniasERP system enable easy integration with other systems:

- // Web pages can be connected with caniasERP using JSP and WAP connectors.
- // With its service-oriented architecture (SOA), the caniasERP system enables access to web services for external systems as well as access to other web services worldwide.
- // Electronic data interchange with business partners via XML and Electronic Data Interchange module allows better communication and flawless execution; Phone, fax, and data communications costs are reduced.
- // The ability to send and receive emails and SMS in caniasERP supports communication within and across companies.

Flexible Accessibility

caniasERP offers flexible features that allow users to connect with the system anytime and from anywhere. The user can connect to the caniasERP server with a laptop, tablet or smartphone and continue their work as if they are (were) in the office. Remote development and improvements to the live environment can be done through the TROIA IDE. Optimized data transfer algorithms and intelligent data compression capabilities ensure the highest performance even at the slowest connections. Companies can also integrate their customers, partners, and suppliers into the extended supply chain management system.

Safe user ID verification

caniasERP offers an easy to use, flexible, and secure user privilege management feature. Optionally, user authentication can also be supported through the SSO Gateway or directly with the Single-Sign-On feature in an Active Directory service. Smart cards or one-time password systems can be integrated into the application server. Thus, password piracy can be prevented with user authentication by hardware. A security server, in which the RADIUS (Remote Authentication Dial-In User Service) protocol is executed, can also be connected to the application server.

Hundreds of process documents and documentation special for customer

- // Process documents of more than 1500 processes on caniasERP supported with screenshots, prepared by IAS.
- // Process videos supporting the process documents
- // Option to create documents in every language with the multi-language support
- // Preparation of customer-specific processes' documentation with the same application
- // Video support in customer-specific processes
- // Automatically creating documents by saving screenshots with the Screenshot Recorder tool
- // Option to add any kind of file to process documents

Features

Overview

Three Tier Architecture

- // Minimization of system requirements and repair costs with low client requirements
- // Attractive price-performance relation with operating system-independent, scalable application server.
- // Low data traffic and high transfer rate with the optimized data transfer
- // Secure, user-friendly network infrastructure and SSL support
- // Centralized application server and distributed data storage, enabling access, development, and system administration from any location and from any computer

100% Java Based

- // Working on platform-independent JVM for both the server and client-side. (Reduces operating and repair costs.)
- // Database independence (Supports all known JDBC compliant DBs)

Flexible Access Options

- // Access to the server via Local Area Network (LAN), Wide Area Network (WAN), and Internet (landline, dial-up, ADSL, GPRS, UMTS, etc.)
- // Client options (tablet, smartphone, desktop, etc.) that offer the best user experience based on the client computer

- // XML and support for Electronic Data Interchange (EDI)
- // Integration possibilities over various protocols and technologies such as HTTP, IMAP, POP3, SOAP, FTP, TCP, OPC, RS232, PLC

Security Options

- // Separate database and clients with the three-tier architecture
- // Unique communication protocol
- // Secure authentication through RADIUS / LDAP protocol
- // Configurable VPN and SSL support
- // Advanced data access and authorization infrastructure
- // Advanced log support on all tiers

Internal TROIA Programming Language

- // Open source code
- // Object-oriented programming
- // Integrated and visual development environment

- // Easy updates for customer-specific codes
- // Quick and simple debugging with code tracing feature
- // Multi-language support
- // User-friendly report tool
- // User-friendly interface
- // Interactive support
- // Integrated optimization
- // Hotline (Development Tracking) System

System Administration & Configuration

- // Management of all application server and other server-side components via the web
- // Simple and clear configuration
- // Execution of all operations from the application server
- // Load distribution to multiple application servers with Load Balancer
- // Easy installation, update, and backup
- // Centrally updating all clients in a single transaction; no need for client-side backup and recovery thanks to web-based clients
- // Easy to use user privileges management
- // Expanded blocking mechanisms

#NEXT

Document Management

caniasERP Document Management (DOC) module manages and digitally saves all the different documents used by enterprises in daily processes. The purpose of this module is to centrally save and manage digitally saved documents. This module performs archiving in a single system as well as indexing and association with other documents. Some company data might have to be submitted to legal groups, such as tax auditors, in electronic formats. Considering the number of documents that a company might need to manage, the importance of having a document management system becomes obvious.

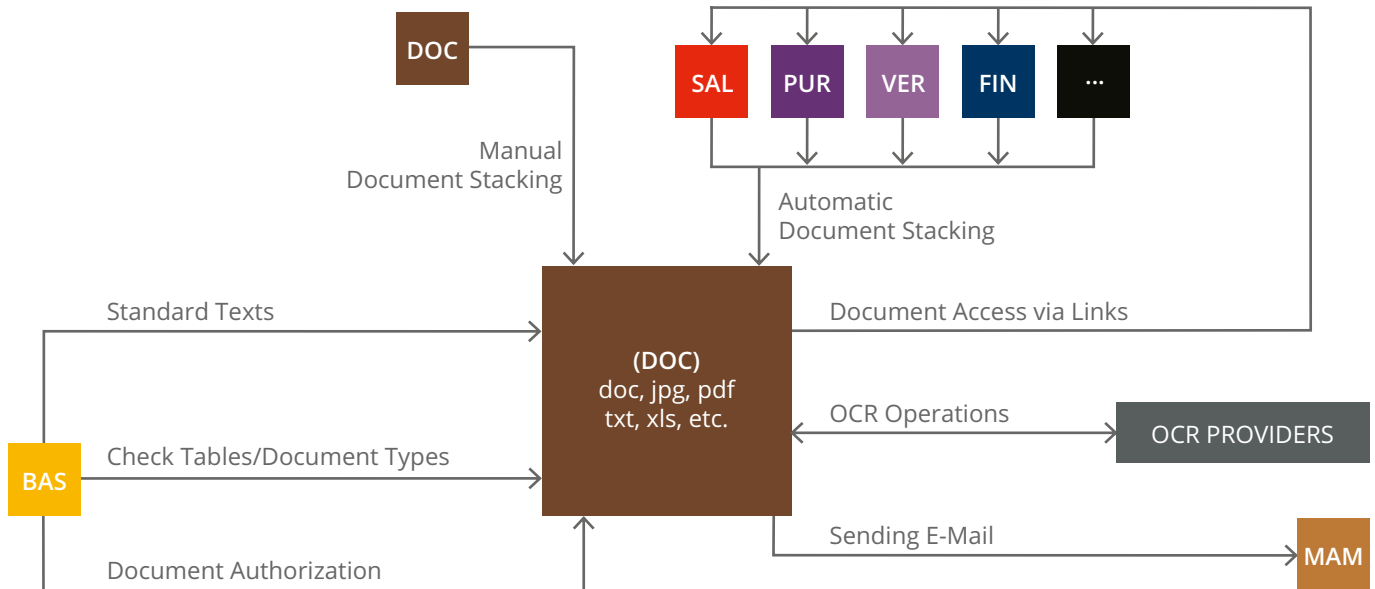
Archiving internal documents

The documents added to the system that are related to the sales, purchase, and distribution are automatically saved in the Document Management module. These automatically saved documents are easily accessible from other functional areas in the system as well. Thus, for example, it is possible to directly access

a vendor invoice created and saved in the Invoice Verification module through the connection established in the Financial Accounting module.

Archiving external documents

Any external file with an accepted format can be uploaded and saved in the folder structure.



Img. 8. Integration of DOC-Module in the System

Creating folders for documents

The modules indexing function helps the document-based organization of company processes. It guarantees that documents can be easily accessed again.

Revision-proof archiving

With the interface in the Document Management module, it is possible to archive documents with revision protection or in accordance with legal requirements. The user can store the originals of the documents in a way that can be accessed in the revisions history and set the desired revision as a valid document among the revisions created.

Document check-in/check-out

The document requested by the users can be checked out at the specified date range. Checked-out documents cannot be viewed by others. The changed document can be checked back in by the user.

Add to the favorites/create shortcuts

The users can add any document they want to their favorites. Documents added to the favorites will be displayed under the "Favorites" folder that is among the general folders. The desired documents can be moved with shortcuts to the created folders without having to be physically moved.

Label and hashtag use

Mandatory or optional labels that must be entered by the user for various document types are defined in the Document Management Module. These labels are filled in automatically or by the user when documents are saved. In addition to the labels, the hashtags for the document can also be defined. Defined labels and hashtags can be used as search criteria to find documents.

Notifications

The module's main screen lists the tasks assigned to the user and revision confirmation requests. The relevant documents can be accessed through notifications.

EFFICIENT DOCUMENT MANAGEMENT

Typically, multiple documents are created for most business transactions; These can be assigned in accordance with the relevant topic and stored in a document folder. These documents may be organized internally, externally or in different formats. Complete documentation of a transaction can be created, saved, and accessed quickly.

Documents are stored in a secure way against unauthorized access and can be protected by a password. The documents in the module can be grouped; This feature provides comprehensive user-configured operation. In addition, internal documents can be linked to their reason for the creation (e.g. with customer or vendor master data) and automatically stored in folders created for them, resulting in higher transparency. Notes and other documents can be added to all archived documents as well. Documents can then be e-mailed, faxed, printed, or saved to other data environments. The entire caniasERP system has a flexible user authorization system for managing documents. Different users can be granted authorizations through the system for viewing, adding, and modifying documents.

All the data archived in the Document Management module and associated with a customer can be accessed in the Customer Relationship Management module and used for sales or marketing purposes. For example, HTML templates or documents can be

used for email submissions. There is an HTML repository with templates that are populated with dynamic parameters for the relevant e-mail delivery in the module for this.

INTEGRATION

Centralized archiving of documents along the value chain has become a part of the daily work routine.

Fully integrated into the overall ERP solution, the Document Management module plays a central role in consistently storing data and optimizing information processes. The flawless integration of the Document Management system eliminates the need to create costly interfaces and to link documents with external systems. Thus, interruptions in communication/information decrease, data quality and transparency increase, and workflows accelerate.

Features

Overview

- // Archive internal and external documents
- // Support for all formats (text, image, sound, drawing, etc.)
- // Quickly saving new documents with drag'n'drop
- // Adding tags to documents, easy search with tags and keywords
- // Creating a user-specific or public folder structure
- // Document Check-in, Check-out function
- // Storing documents with password
- // Document history tracking
- // User Task and Approval notifications
- // Associating with other documents and establishing logical connections
- // Indexing
- // Easy to execute additional operations
- // Direct emailing
- // Printing
- // Faxing
- // Saving to other data environments
- // Personalized access protection (user privileges for each document/document folder)
- // Automatic notification to users in case of file update or archive
- // Revision-protected archiving with external software in accordance with IDW PS 880
- // Flawless integration with other modules and work processes

#NEXT

Electronic Data Interchange

caniasERP Electronic Data Interchange (EDI) module ensures the electronic data interchange, which exceeds the system and company boundaries with its structure integrated to the whole system. All the data found in the system can be fully exported to external environments via standard or freely defined protocols such as EDIFACT, VDA, ODETTE, ANSI ASC X12 or in the same way, the data from external environments can also be transported to the caniasERP system completely without any problems. It is also possible to trigger the desired caniasERP process before or after data is imported/exported.

INTEGRATED PROCESS WORKFLOW

In the Electronic Data Interchange module, electronic data interchange can be initiated and executed by defining business processes or events. For example, automatic and electronic delivery of purchase orders to vendors when they are saved or the automatic generation and delivery of the relevant documents to customers/vendors when there's a sales/purchase process are done through this module. In addition, the module can be used to create production orders without the need of manual intervention; In case of dropping below the minimum storage amount, it is also possible to automatically generate and transfer a purchase order to the suppliers. In addition, this module can be used to transfer information generated as a part of the execution of intercompany business transactions.

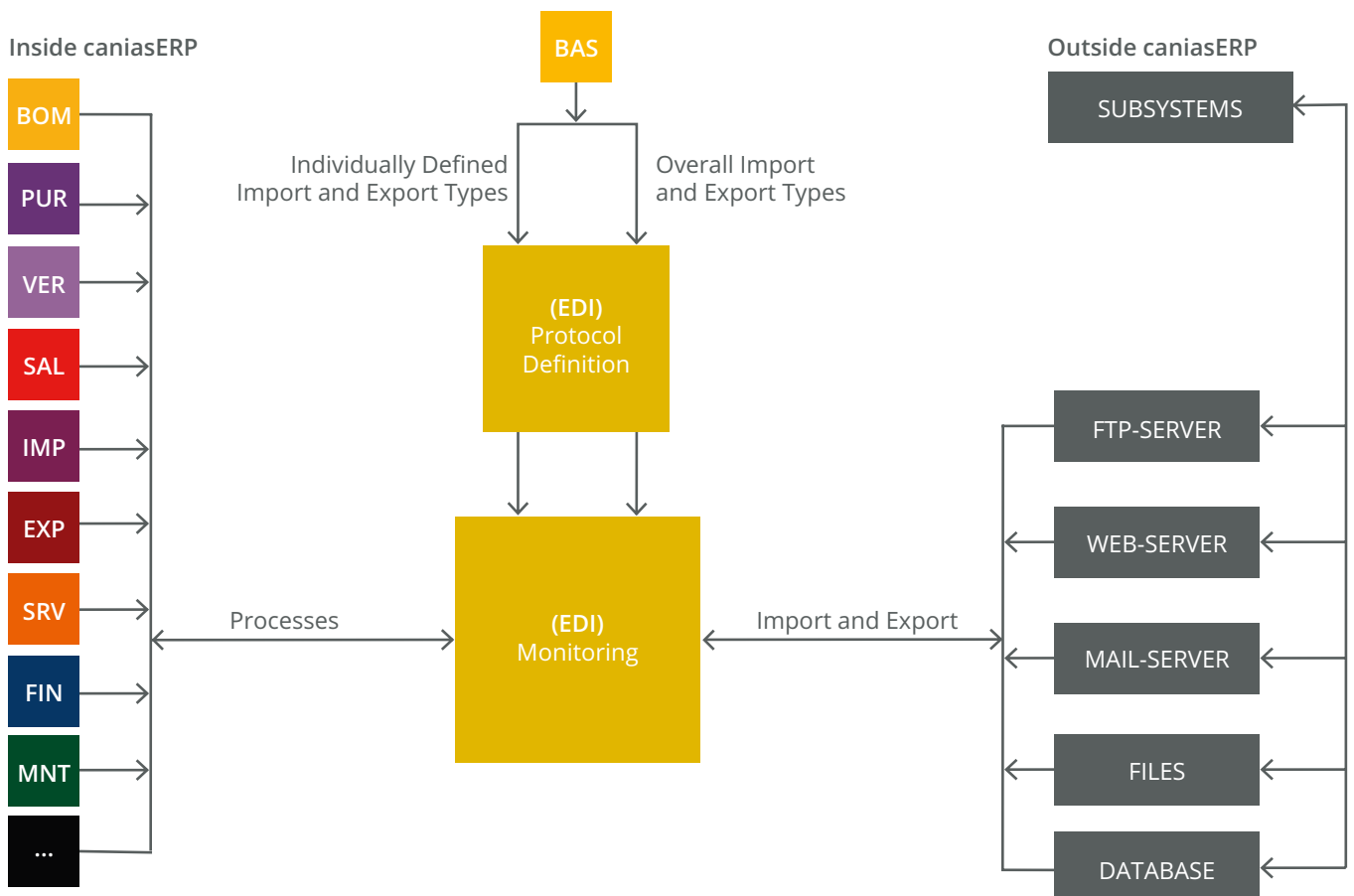
FREE PROTOCOL DEFINITION

In addition to standard protocols in the module, free protocol definitions can also be made for business-specific case solutions. Here, the target format can be defined as XML-based, CSV format, Excel file or other formats. It is possible to transfer data from different formats both to the system and from the system. The desired storage locations can be scanned at defined intervals to find and import the newly included protocol files. Through module's fully integrated structure, the next steps are not limited to the actual

use of the protocol. If relevant documents (e.g. invoice list for bulk invoices) need to be provided for Electronic Data Interchange supported communication, they can be freely defined and included in the process flow. The next possible steps may be storing in the file system, storing in the Document Management module, or sending an automatic mail or fax. In addition, all the save operations in the caniasERP can initiate the export process in the Electronic Data Interchange module. Thus, an order can be confirmed automatically via this module.

CREATIVE USABILITY

Through the Electronic Data Interchange module, data can be imported and exported for external systems used correspondingly. For example, connection with a CAD software system for material and BOM changes received and processed through the module can be established. Thus, the changed properties and data of material in the design stage can be automatically adjusted with by updating the data records in the caniasERP, and new control plans, drawing versions or change indexes can be specified if necessary. Through the protocol's adaptability and flexibility in matching (linking of data structures in the protocol and system), the data structure problems that may occur due to the changes in the software versions used by the data interchange parties are quickly revised.



Img. 9. Integration of EDI-Module in the System

COMPLETE CONTROL OVER PROCESSES

All data transfers via electronic data interchange are displayed on dedicated screens, and a log is created accordingly. Thus, continuous monitoring can be performed. In this way, a logging mechanism can be created for all data transfers, operations performed and errors that may occur, whether imported or exported. With its features such as evaluating, resending/retrieving data with errors and creating a logging mechanism for these errors, the Electronic Data Interchange module is a high-performance and reliable utility. Combined with other modules within the system, an ERP system that perfectly matches the needs of the company is created.

INTEGRATION

By using the module's flexible data transfer and process triggering feature, it is possible to interact with all the modules within the system. With protocols prepared for creative use, two-way data transfer can be achieved, and processes can be triggered by interacting various modules such as: Sales Management, Purchase Management, Invoice Verification, Production Management, Inventory Management, Human Resources Management, Customer Relationship Management. ument can be checked back in by the user.

Features

Overview

- // Support for all standard electronic data interchange protocols (e.g. EDIFACT, VDA, ODETTE, ANSI ASC X12 ...)
- // Ability to use non-standard custom protocols
- // Detailed monitoring of all Electronic Data Exchange processes
- // Logging for errors and causes
- // Tracking import directories in the file system
- // Automatically transfer documents to the file system or archive documents in the Document Management module
- // Intercompany transactions
- // Data transfer with web service
- // Two-way data transfer with mail servers
- // Triggering process after bidirectional data transfer

#NEXT

Enterprise Risk Management

Enterprise Risk Management (ERM) module enables a systematic and detailed process to identify critical risks, measure potential impacts, and implement integrated risk management practices to maximize companies' economic values. The institutional risk management process, which is carried out in order to determine, measure and minimize the risk factors that may adversely affect the workability of an institution or an organization and the profitability of commercial establishments, can be managed in an effective way through this module, which is designed in accordance with international risk management standards.

Economic and technological developments have brought about complex business structures, where many activities are carried out in a long period of time with a large number of people and hierarchical organizational arrangements are constantly evolving. This situation has made the operations of the enterprises unobservable by simple control methods. COSO (The Committee of Sponsoring Organizations), which con-

sists of five independent professional organizations in the USA, led to the transformation of internal control environment, risk assessment, control activities, information, communication and monitoring into a standardized structure in enterprises. The COSO internal control model is structured around the effectiveness and efficiency of business activities, the reliability of financial reports, and compliance with

applicable laws and regulations. Then, with the ISO 31000 Risk Management System Standard, the risk management standards have been determined. ISO 31000 Risk Management System Standard recommends organizations to develop a framework that aims to integrate the risk management process with all management, strategy and planning, management, reporting process, policies, values and culture of the company.

Enterprise Risk Management (ERM) module has been created in compliance with these standards.

GENERAL OPERATION

There are four main risk groups in the Enterprise Risk Management module:

1. Strategic
2. Financial
3. Operational
4. Compatibility / Disaster

The following steps are taken to manage risks:

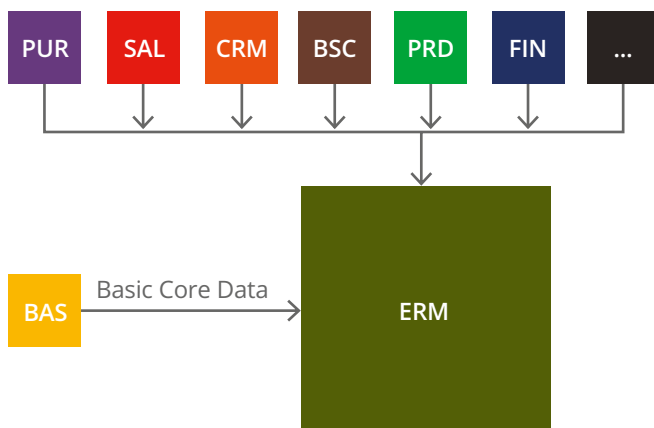
1. Identifying and specifying the risks and defining the group to which they belong.

Companies determine their risks by taking internal audit processes into consideration. Appoints responsible and managers for the risks. Determines the risk measurement periods and how the measurement is carried out.

2. Evaluation of risks

The main risk assessment methods used are:

- // Brainstorming
- // Scenario analysis
- // Profit / Cost analysis
- // Reason tree analysis
- // Error impact analysis
- // Result / Probability matrix



Img. 10. Integration of ERM-Module in the System

3. Running the risks, sorting the risks according to the results and determining the risk control methods

Risk control methods used:

- // Avoidance: enterprise terminates related activity
- // Prevention: Reduce the likelihood of risks
- // Protection: Reduce the impact of risks
- // Distributing: Distribution of activities so that all operations of the business are not harmed by risk
- // Transfer: ,of risks to third parties or institution

4. Selection, implementation & monitoring of risks

- // Configurable module parameters
- // Identifying additional risk group
- // Defining probability and effect scales
- // Defining flexible measurement period
- // Using data from each module in the system

REPORTING

When the risks defined in the module are run at specified times, the results are shown both graphically and as a report.

INTEGRATION

As the Enterprise Risk Management module is fully integrated into the system, it can use the information in any module of the system to measure risks.

Features

Overview

- // Configurable module parameters
- // Identifying additional risk group
- // Defining probability and effect scales
- // Defining flexible measurement period
- // Using data from each module in the system

Knowledge Management System

With the caniasERP Knowledge Management (KMS) module, the data in the whole system can be organized and then transferred to the knowledge management data warehouse. Access to these stored data is also provided through the inter-module access. This encourages the sharing of information and feedback from users, such as experience, by providing interfaces suitable to the habits of Internet users and allows for a more collective system.

KNOWLEDGE EXPLORER

The Knowledge Explorer is the knowledge management application used to search the data in the caniasERP system. With a single word or part of a word, the users can easily access the information they want to access by searching the Knowledge Management Data Warehouse. It is also possible to access the relevant applications of the caniasERP modules via links in the search results.

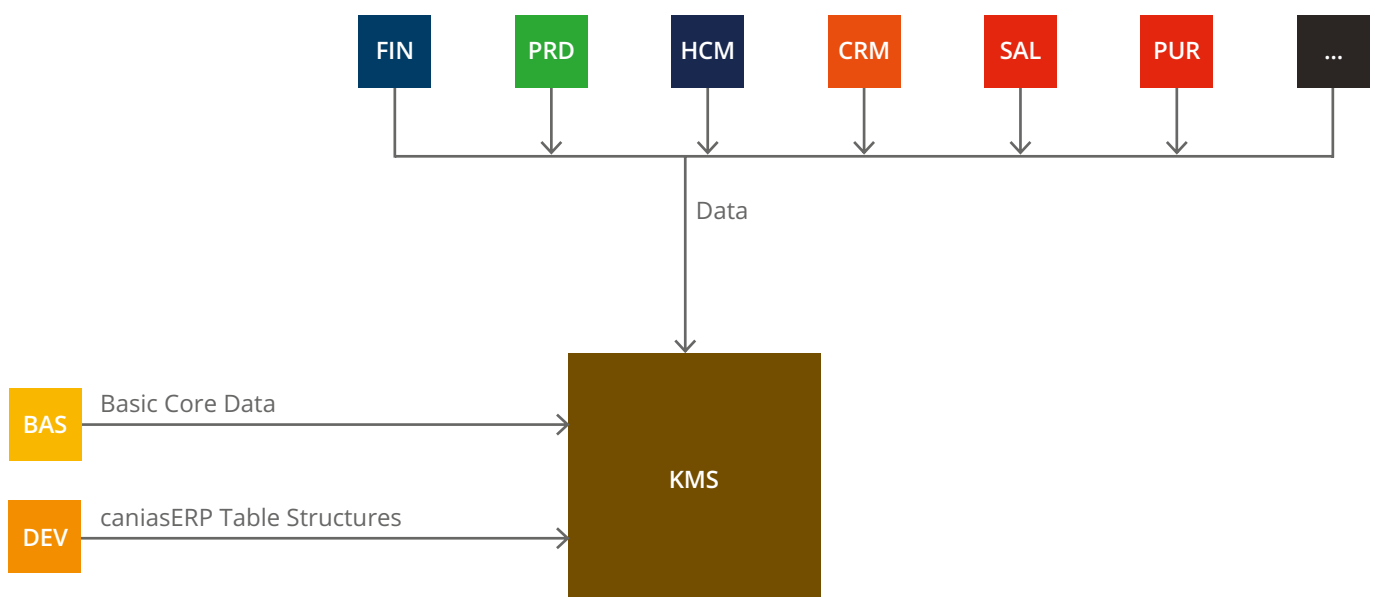
The Knowledge Explorer application has a user-friendly interface that is designed according to (in line with) users' habits on the Internet. The feedback mechanism, which is an essential of information management, is another feature of the application. Users have the ability to comment, like, dislike, score, and comment on the listed results. It is possible to optimize the searches, to prepare statistics and reports through the feedback.

Another important feature of Knowledge Management is that information in it is never lost. Revision

tracking of stored data can be found in the Knowledge Management Data Warehouse. The ability to search for older versions of information allows feedback for those versions as well.

KNOWLEDGE ENCYCLOPEDIA

This app collects data and categorizes it by catalogs under a specific title as articles. These articles, like an encyclopedia summary page, provide all the necessary information in a single frame. Thus, it becomes possible to see the bigger picture related to the data instead of just accessing the information. For example, it is possible to create a material catalog and then create a one-page article for each material code. In this summary article, base information of the material, production information, sales/supply information, etc. can be shown together. Similar to the Knowledge Explorer application, the Knowledge Encyclopedia application is also an ideal way to access summary data as it presents a template in accordance with today's e-Encyclopedia designs.



Img. 11. Integration of KMS-Module in the System

KNOWLEDGE MODERATOR MANAGEMENT

In this application, the management of items is done by the administrator, who has full control of any information entered into the system and is able to approve or reject any item. Items with approval mechanisms cannot be displayed on the search screens unless the administrator approves them.

INTEGRATION

The Knowledge Management module has integration with all modules in the caniasERP system, mainly in Base Data Management and TROIA Development Tools modules.

Features

Overview

- // User-friendly interface
- // Integration with modules in the system
- // Implicit information input
- // Feedback mechanism
- // Flexible catalog design
- // Revision tracking
- // Categorization of data
- // Approval mechanism for the shares made

#NEXT

Mail Application Management

caniasERP Mail Application Management (MAM) module offers the opportunity to send emails from all transactions in the system as well as email exchange inside and outside the company. e-mails can be sent and received (using PoP3 or Imap protocols) through the email client integrated in the module. It is also possible to manage multiple e-mail accounts simultaneously with this module.

EMAIL SIGNATURE

Through "Company Signature" as well as a personal signature definition, all in-house signatures can be centrally managed.

emails can be sent from all modules. With a Document Management integration attachments of the relevant transaction can be also integrated into email.

EMAIL RULES

With the Mail Application Management (MAM) module, it is possible to define email rules to be collected or deleted in different folders. An unlimited number of rules can be defined.

ADDRESS BOOK INTEGRATION

The information of all persons registered in the address book can be easily accessed. These people can be contacted via email, telephone or fax integration.

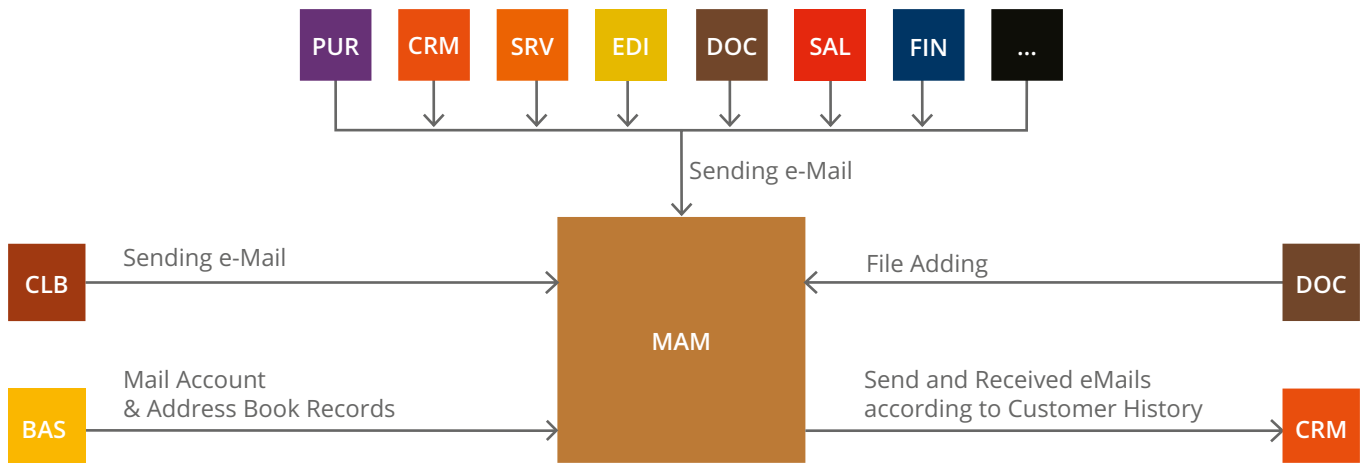
INTEGRATION WITH OTHER MODULES

With the Mail Application Management module,

Features

Overview

- // Connection with caniasERP modules / processes or external data sources.
- // Sending email from all modules.
- // Integrated email and address book management with Customer Relationship Management module.
- // Instant message and SMS service.



Img. 12. Integration of MAM-Module in the System

#NEXT

Business Intelligence and caniasIQ

Business Intelligence (IQ) module provides the required data for the strategic decisions to be taken throughout the company, making the analyzes as fast as possible, evaluating the data in a multidimensional way and preparing it visually. In this process, it aims to minimize user intervention and to make reporting as automatically as possible. Developed in cooperation with Qlik, one of the world's leading business intelligence firms, the Business Intelligence module provides an integrated business intelligence system for all its users in caniasERP.

USE OF DATA RESOURCES

Business Intelligence module is a homogeneous structure that is fully integrated into the system. Without the need for a third-party ETL (Extract-Transform-Load) tool, ERP data is passed through the ETL process and transferred to the OLAP tables in the Data Warehouse Management module. Thus, data can be analyzed in a centralized manner and collected independently from the resources. As a result, decisions that are critical to enterprises can be given smartly and effectively.

MULTI-DIMENSIONAL VIEW ON DATA AND FLEXIBILITY

The module formats the company's critical data in a standardized and structured way and provides the users with multi-dimensional capabilities for efficient analytical inquiry. Thanks to the OLAP tables created using the Data Warehouse Management module, data can be viewed multidimensionally in horizontal

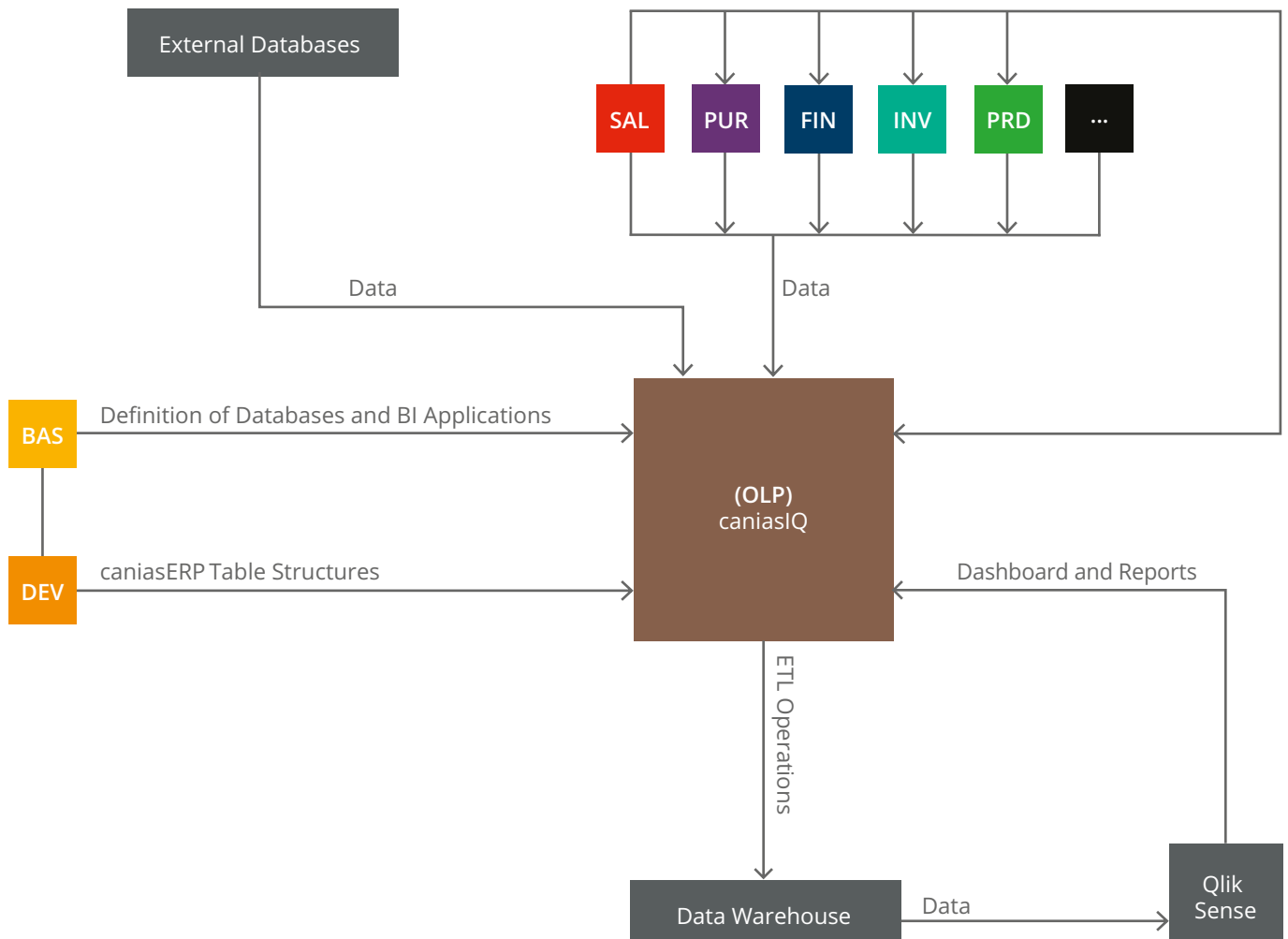
and vertical axes in the Business Intelligence module. A multidimensional view at data gives flexibility to prepared reports and provides unlimited cross-reporting.

FAST INFORMATION TRANSMISSION

The module also provides the opportunity to view large volume data of commercial activities of companies from multidimensional horizontal and vertical axes. Visualization tools like Dashboard can be used in the module. Thus, decision-making processes of companies are supported easily and automatically.

READY-TO-USE REPORTS

Analysis of data can be started instantly with ready-to-use reports as soon as the module is installed.



Img. 13. Integration of OLP-Module in the System

EASY REPORTING

OLAP tables are designed to meet the requirements and automatically establish relationships between tables without the need to design OLAP cubes.

Association technology in the Business Intelligence module allows analysis in the way the human brain thinks and offers the user a highly flexible inquiry. As a result of keeping the data available in the association, the results of other analyzes that may be related at the same time may be reflected on the screens, apart from the questions asked.

CUSTOMIZATION

With the self-service feature, users can make changes to existing dashboard displays, analyzes or create new screens from scratch.

FLEXIBLE REPORTING WITH TROIA

While creating the reports you want, you can benefit from all the features of the TROIA development language, and you can create the most comprehensive and detailed reports from any available data thanks to its flexible structure. With the structural features of

the TROIA language, you have an endless perspective on the data to be used or the reports to be created.

IN-MEMORY ANALYSIS

Business Intelligence module's in-memory working technology keeps all the data set in the analysis in memory and reduces the time required to analysis into mere seconds to speed up the processes. In other words, it returns the result of the inquiry made by the user over the data set previously stored in memory before going to the source (database) of that data. Given the large data sets with millions of rows of data from data sources, such technology makes a big difference to the instant calculations that the user needs in terms of speed.

INTEGRATION

Business Intelligence module has perfect integration with all modules in the caniasERP system, especially with the Data Warehouse Management module. The dashboard and other reports prepared on the module can be accessed directly without the need for third-party applications. Through the developed bi-directional integration, Business Intelligence re-

ports can be accessed via caniasERP modules, as well as using the links defined on Business Intelligence dashboards, and the details of an important situation or record can also be accessed with one-click through the caniasERP modules.

REAL TIME ANALYSIS

All processes in the caniasIQ module are also automated and structured within the system. Unlike conventional OLP business intelligence systems, it also offers the opportunity to follow and analyze data live. With the new business intelligence module, the data generated while the business processes continue to run is instantly sent to the data area by the system and reflected on the analysis reports and screens as soon as possible. The results in the analysis and reports are always displayed in the most up-to-date form possible. In this way, you can reach the most realistic and consistent results as soon as possible and will have option to analyze the most up-to-date data and reports through the system.

Features

Overview

- // Summarization of variable OLAP tables
- // Ready for instant analysis with ready-to-use reports as soon as the module is installed
- // In-memory working technology
- // Association technology
- // Direct access to dashboards and reports via caniasERP
- // Direct access to caniasERP records via Dashboards
- // Multi-dimensional overview feature
- // No limits in dimensions and groupings
- // Unlimited cross-reporting capability
- // Detailed or summarized overview
- // Unlimited display of data
- // Comparative overview feature
- // Real-time evaluations

#NEXT

SMS Management

The text message receiving and sending feature in caniasERP supports communication inside and between companies. Thanks to the integrated structure of the caniasERP SMS module, centrally recorded data is managed in an integrated manner with all modules. Its main features include keeping SMS information by adapting it to individual needs, responding instantly to inquiries and sending text messages at a certain time interval. Without any extra labor, caniasERP SMS module automatically extracts the data generated as a result of the daily work of other modules in the information pool and sends the desired data as an SMS.

INSTANT AND SCHEDULED SMS

With the help of the SMS infrastructure integrated into the system, instant text messages can be sent during the workflows of all modules in the caniasERP system. Additionally, text messages can be sent to users or user groups on the dates and times defined in the system and in desired periods.

Some examples include;

// Financial reminder for companies not to skip any payments or collections. (For checks, bills, letters of credit, insurance policies, etc., information and reminders can be provided with special reports, on the dates and times defined by text messages, at desired periods)

- // Daily, weekly, monthly sales amounts, order information can be accessed automatically.
- // Stock status of materials can be queried.
- // Production stops can be notified via SMS.
- // Information about quality control results can be provided.
- // With BPM integration, approval mechanism can be supported by text message.

AUTO-REPLY

It is possible to send queries to the caniasERP system via a text message and get a reply via text message.

caniasERP SMS Module takes into account the keywords in the text messages sent to the system, triggers automatic queries and sends the results back to the requesting person via text message.

With the easy configuration of the automatic reply feature, any data on the system can be easily queried with a text message.

USER CONSOLE

The caniasERP SMS module has a user document tracking screen that brings the results of text message sending and receiving in the entire caniasERP system to the user in an easy and understandable way. The details of outgoing and incoming, daily and total text messages are brought together as a user-specific summary view and presented to the user.

INTEGRATION

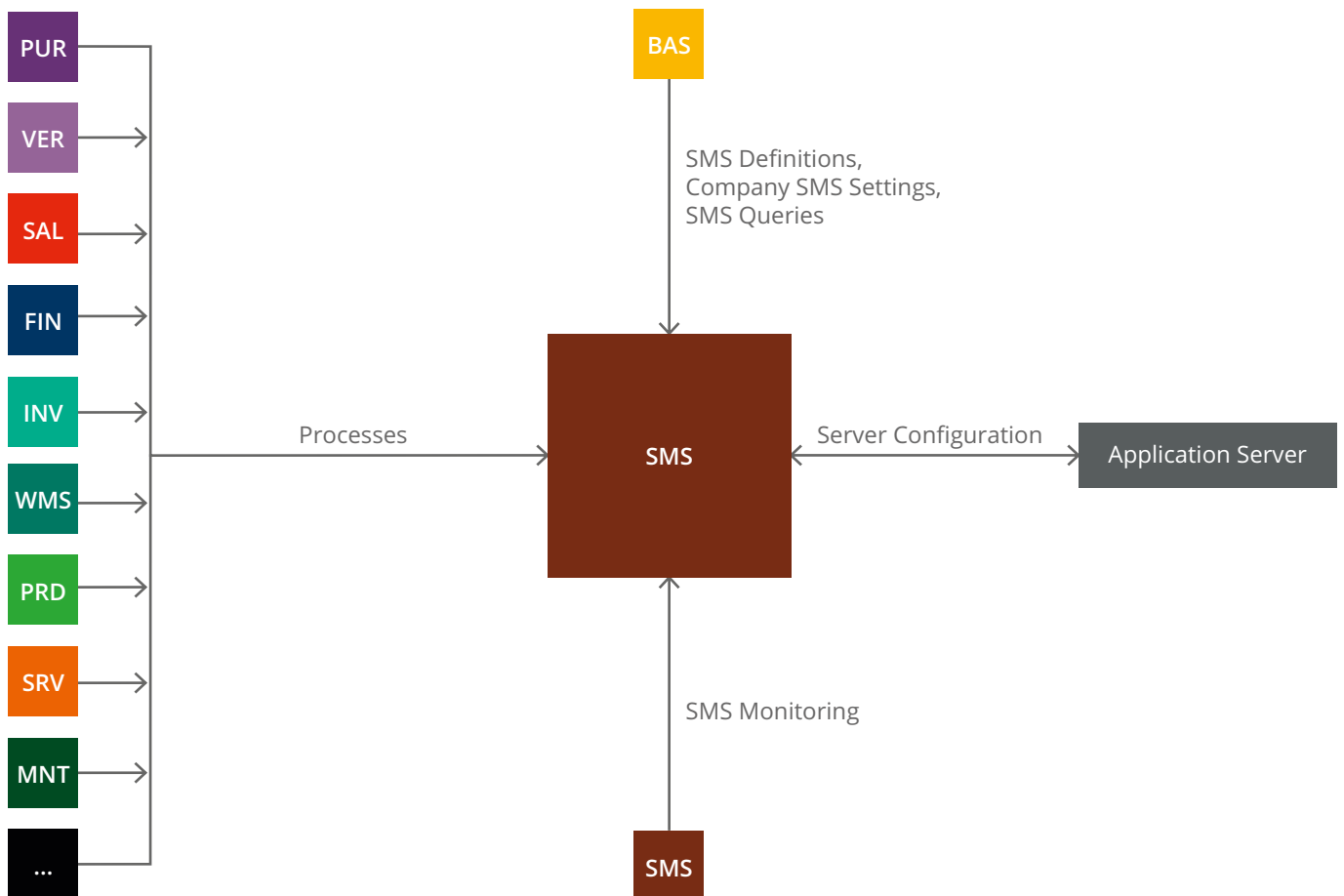
With the caniasERP SMS Module, the data received from different modules are collected in the information pool and sent when requested.

Through the BPM integration, it can be integrated with all the workflows and the results can be sent as a text message. Confirmed / Cancelled transactions can be sent via text message.

Features

Overview

- // Storing and reporting incoming and sent SMS messages
- // Dynamic adaptive user console
- // Connection with caniasERP modules / processes
- // Sending SMS from all modules
- // Defining SMS templates to be sent
- // Sending instant or scheduled SMS
- // Sending any information in the system via SMS at defined dates and times, at desired periods
- // Sending SMS to the system and receiving automatic reply with the configurations associated with the keywords defined in the system



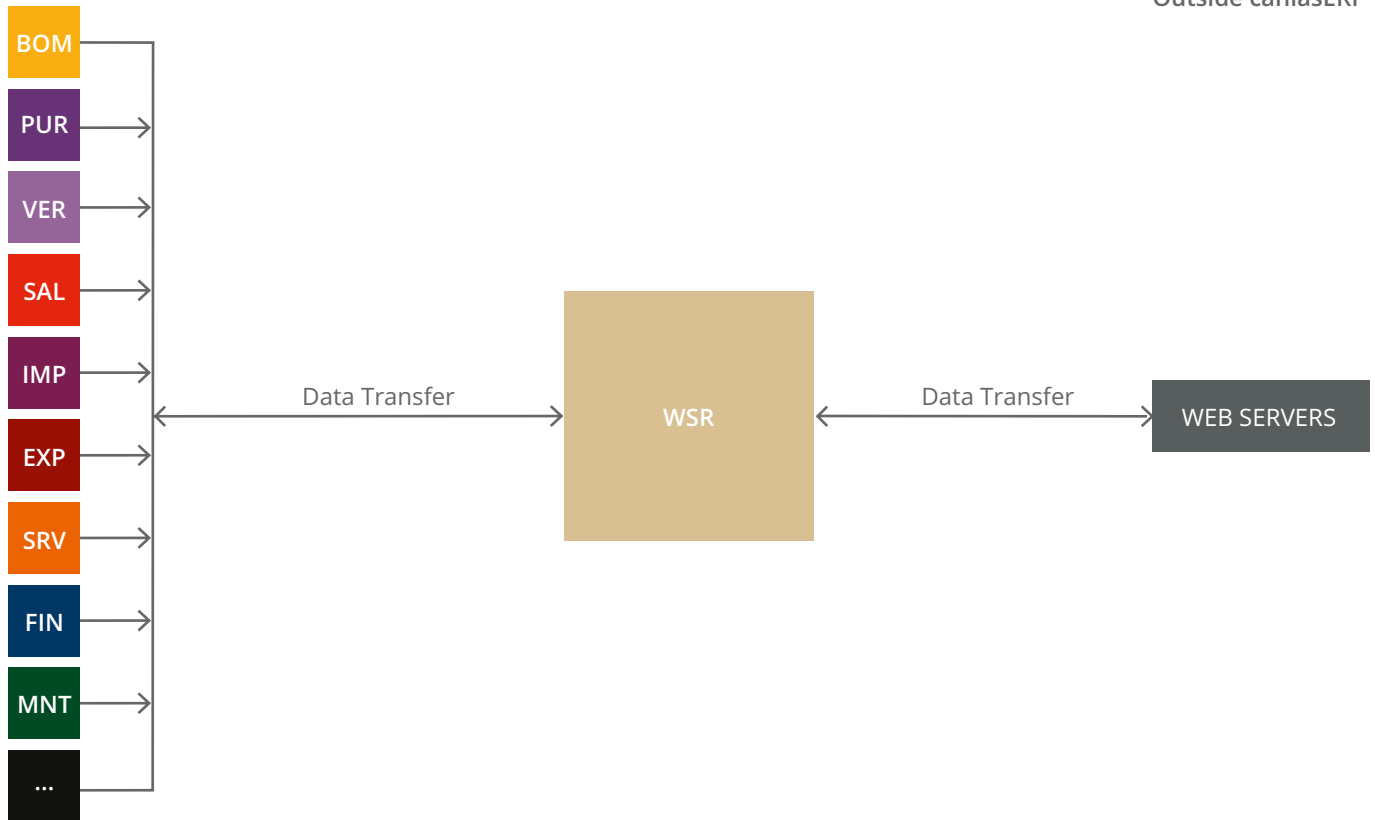
Img. 14. Integration of SMS-Module in the System

Web Services

With the caniasERP Web Services (WSR) module, information can be exchanged with other systems or within the same system, and all data can be exported or imported regardless of the platform.

Inside caniasERP

Outside caniasERP



Img. 15. Integration of WSR-Module in the System

With TROIA's flexible structure, web service calls can be easily made with all modules in the system. Through web services, a fully integrated environment that allows the management of all the data can be created by integrating both within the system and with different systems. For example, transactions such as accounting invoice registration, transferring orders to the system, exporting production orders, creating material records can be done using web services. With the applications in the web services module, web service definitions can be made, and user-based authorizations valid for a certain date range can be defined for defined web services.

Features

Overview

- // With the flexible structure of TROIA, web service communication can be established from each module.
- // Platform independent data communication
- // Web service definitions
- // Web service user authorization feature

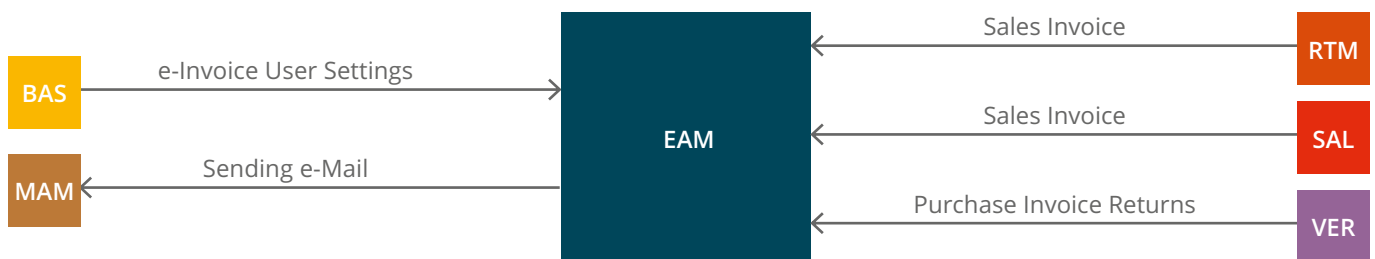
ETR

E-Trans- formation

Module Group

E-Archive

With the caniasERP e-Archive Management (EAM) module, users can easily transfer all e-archive documents they have created during their sales and purchasing processes to the Revenue Administration (RA) system via the transaction. Thanks to the e-Archive Management, the e-archive document is instantly provided with data entry to the Revenue Administration and the transaction is reported to both the RA and the counterparty. As soon as the company performs a transaction, it can instantly follow the opposite partner transaction. Thanks to the integration of the caniasERP Mail Application Module, the e-archive document created can be sent to the other party via e-mail.



Img. 16. Integration of EAM-Module in the System

E-ARCHIVE USER SETTINGS

Thanks to user-based system settings, features such as defining additional information that will appear in the invoice printout, e-Document number ranges and prefix assignments according to system document types, 2/3-digit prefix assignment, xslt definition according to system document types can be defined on a user basis.

E-ARCHIVE CUSTOMIZATION

With the e-Archive customization feature, the system offers to add / remove new tags into UBL (Universal Business Language) or change tag values according to e-invoice document types.

INTEGRATION

e-Archive Management has an integrated structure with other modules in caniasERP. Sales Management, Purchasing Management, Invoice Verification, Customer Relationship Management, Financial Accounting, Document Management are among the main modules it is integrated into.

Features

Overview

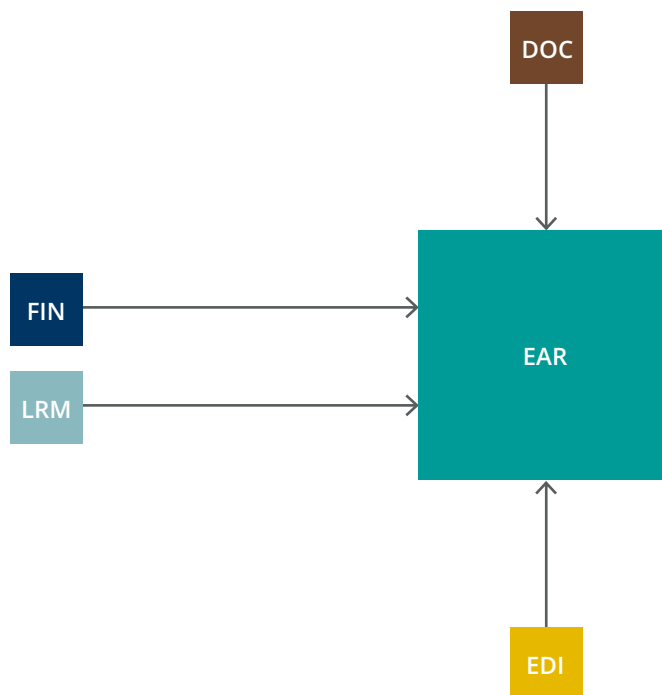
- // Control of invoices through a single central system
- // Facilitating control & management of the ongoing process with paper documents
- // Contributing to the protection of the natural environment by reducing paper consumption and transportation needs.
- // Acceleration of business processes
- // Automation in cash and payment management
- // Reducing the collection period to much shorter periods
- // Elimination of mailing costs and length of delivery times
- // Providing instant control of invoice information
- // Shortening of error detection and objection periods
- // Minimizing the possibility of error with instant & automatic data flow

Electronic Account Reconciliation

With the caniasERP Electronic Account Reconciliation (EAR) module, users can manage their reconciliation processes in a flexible, easy, and integrated way. Companies can now easily send their agreements with the companies they work with electronically instead of time-consuming transactions such as mail, telephone or fax, and can record their answers electronically in their systems.

INTEGRATION

EAR module has integration with Financial Accounting, Legal Reporting Management, Document Management and Electronic Data Interchange modules.



Img. 17. Integration of EAR-Module in the System

Features

Overview

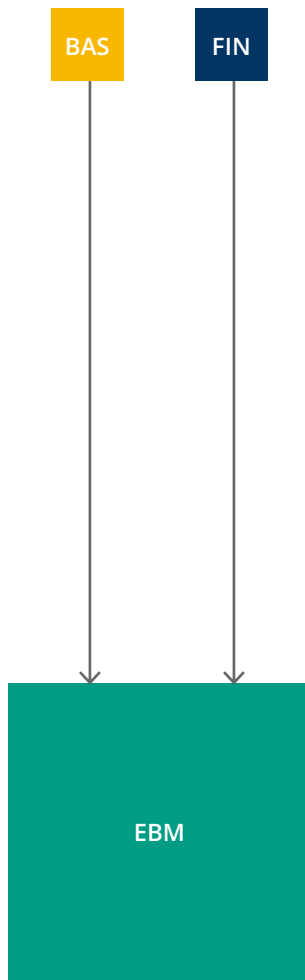
- // Company-specific reconciliation post format can be arranged.
- // Different web page and settlement address can be defined on company basis.
- // Reconciliation can be made in a foreign language
- // Provides the opportunity to reconcile in the transaction currency, account currency or a specific currency
- // Account transactions can be sent as an option in the reconciliation e-mail.
- // Responses to the consensus are automatically recorded in the system.
- // Can be sent to user or user group
- // Approval and authorization mechanism can be used in reconciliation sending
- // Provides the option to add explanation in addition to the approval or rejection status during the reply of the agreement
- // Detailed status and history follow-up for reconciliation transactions.

Electronic Book Management

With the caniasERP Electronic Book Management (EBM) module, the books that must be kept in accordance with the Tax Procedure Law and the provisions of the Turkish Commercial Code are electronically signed, guaranteed immutability and stored electronically.

INTEGRATION

The caniasERP EBM module has integration with the Financial Accounting (FIN) module.



Img. 18. Integration of EBM-Module in the System

Features

Overview

- // Numbering transactions of journal articles
- // Creation of a journal, general ledger, journal certificate, journal certificate and journal report certificate
- // Ability to create books and certificates on branch or company basis
- // Electronic signing of the created books and certificates with the financial seal
- // Using timestamp in the signing phase
- // Schema and schematron controls by the system
- // Checking compliance with e-ledger document type and e-ledger payment method rules
- // Collective control possibility before creating control reports and books
- // Notifying the user of situations that may cause incompatibility during the creation of the ledger at the time of the transaction.
- // Book creation process can be done within the authority
- // Schema and schematron checks during the upload of the approved certificates to the system after the approval of the certificates created by the Revenue Administration.

E-Delivery Note

With caniasERP e-Delivery Note (EDN) module, users can easily transfer all inventory movements they follow in processes such as sales, purchasing and transfer to the Revenue Administration (RA) system via the transaction. Through the e-Delivery Note module, data entry to the Revenue Administration system can be done instantly through the e-Delivery Note document, and the transaction is reported to both the RA and the counterparty. As soon as the company performs a transaction, it can instantly follow the counterparty transaction. With the integration of the caniasERP Mail Application Management Module, the e-Delivery Note documents created can be sent to the other parties via e-mail. Likewise, the e-Delivery Notes sent to the company can be received with this transaction and can be transferred to the relevant modules without the need for manual data entry thanks to its integration with other modules.

E-DELIVERY NOTE USER SETTINGS

User-based system settings can be made to define additional information that will appear in the delivery note, e-Document number ranges and prefix assignments according to the system document types, 2/3-digit prefix assignment, xslt definition according to the system document types.

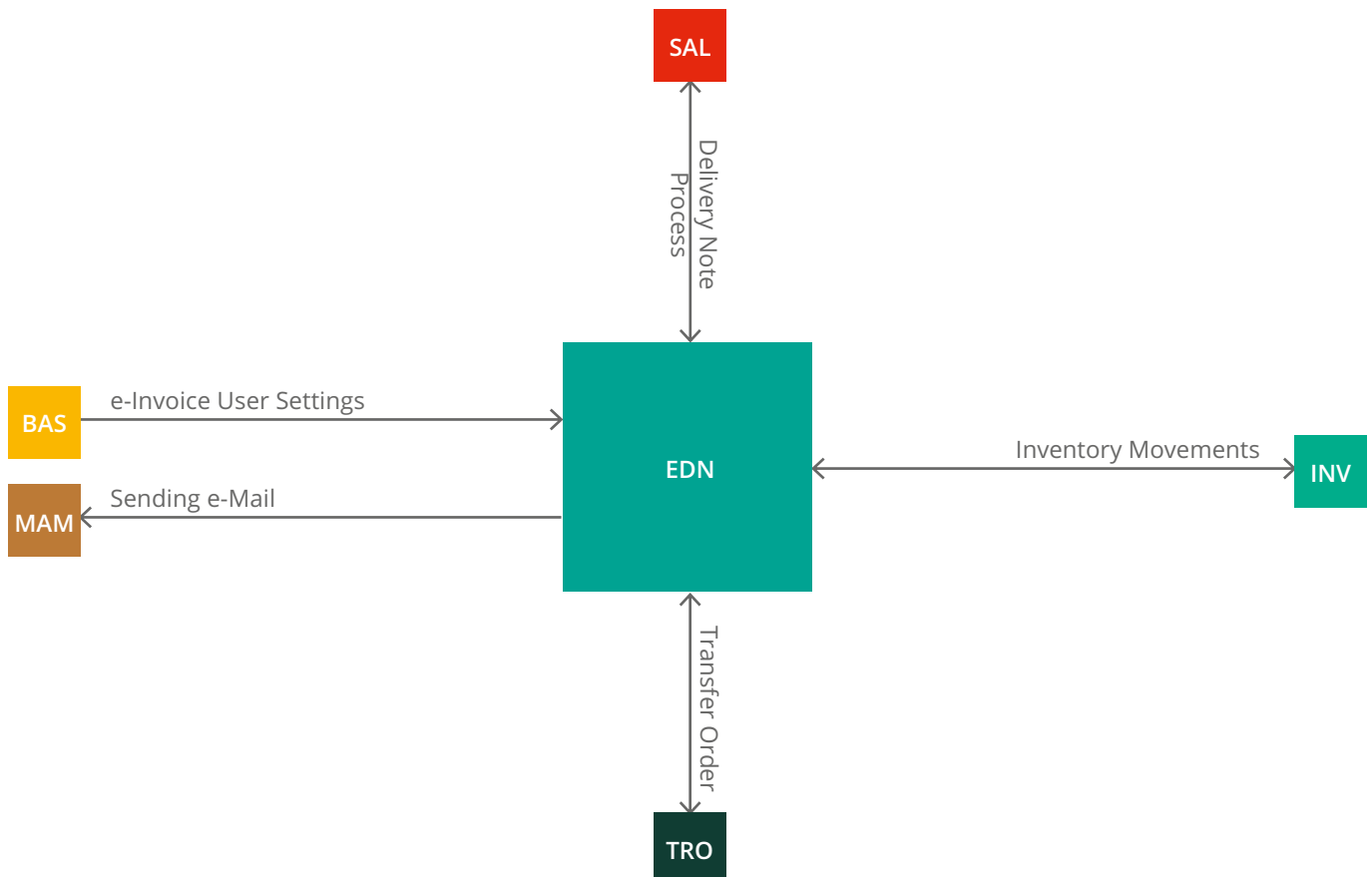
E-DELIVERY NOTE CUSTOMIZATION

Thanks to the e-Invoice customization feature, the system offers to add / remove new tags into UBL

(Universal Business Language) or change tag values according to e-waybill document types.

INTEGRATION

e-Delivery Note Module has an integrated structure with other modules in caniasERP. Sales Management, Purchasing Management, Customer Relationship Management, Inventory Management, Transfer Management, Quality Management, Document Management are among the main modules that it is integrated with.



Img. 19. Integration of EDN-Module in the System

Features

Overview

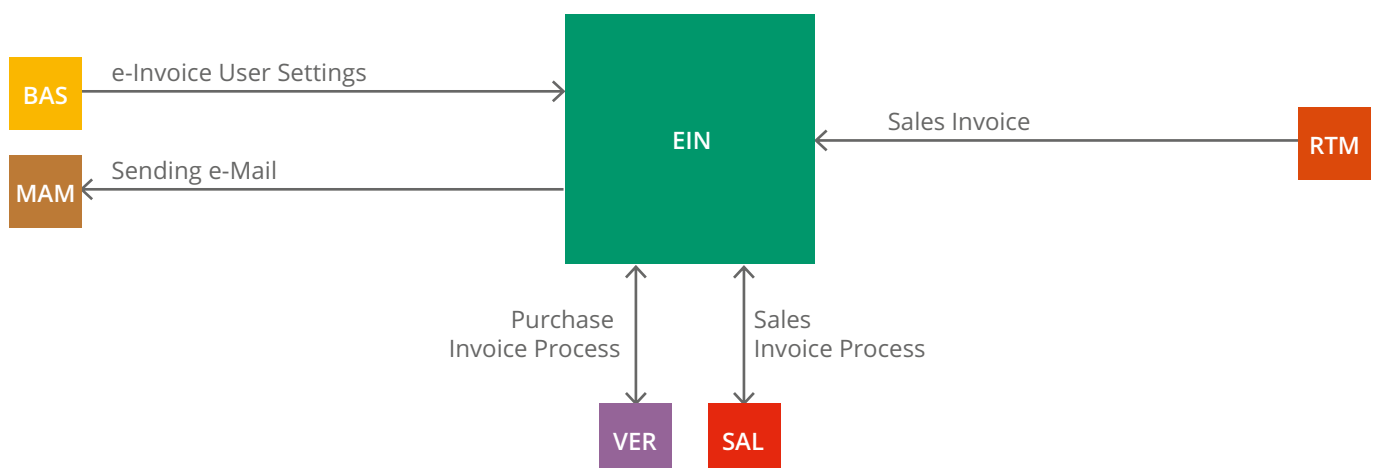
- // Waybill Creation (export)
- // Return Waybill (export) to supplier
- // Incoming Waybill Import (import)
- // Returns Receipt Import (import)
- // Create Batch Reject Response (export)
- // Import Batch Reject Response (import)
- // Transfer Document Creation (export)
- // Transfer Document Import (import)
- // Sending e-Delivery Note to Virtual Users (non-e-Delivery Note Payer) (export)
- // Inventory Documents - e-Delivery Note Matching
- // Updating the e-Delivery Note User Member list
- // Control of waybills through a single central system
- // Facilitating control & management of the on-going process with paper documents
- // Contributing to the protection of the natural environment by reducing paper consumption and transportation needs.
- // Acceleration of business processes
- // Elimination of mailing costs and length of delivery times
- // Providing instant control of waybill information
- // Shortening of error detection and objection periods

#NEXT

EIN

E-Invoice

The caniasERP e-Invoice (EIN) module allows users to easily transfer all the e-Invoice documents they create in their sales and purchasing processes to the Revenue Administration (RA) system via the transaction. With the e-Invoice module, the e-invoice document is instantly entered into the RA, and the transaction is reported to both the RA and the counterparty. As the company performs a transaction, the counterparty transaction can be followed instantly. Thanks to the integration of caniasERP Mail Application Management Module, the e-invoice document created can be sent to the other party via e-mail. Likewise, the e-invoices sent to the company can be received with this transaction and can be transferred to the relevant modules without the need for manual data entry thanks to its integration with other modules.



Img. 20. Integration of EIN-Module in the System

E-INVOICE USER SETTINGS

User-based system settings can be made to define additional information that will appear in the invoice printout, e-Document number ranges and prefix assignments according to system document types, 2/3-digit prefix assignment, xslt definition according to system document types.

E-INVOICE CUSTOMIZATION

With the e-Invoice customization feature, the system offers the opportunity to add / remove new tags into

UBL (Universal Business Language) or change tag values according to e-invoice document types.

INTEGRATION

e-Invoice Module has an integrated structure with other modules in caniasERP. Sales Management, Purchase Management, Invoice Verification, Customer Relationship Management, Accounting, Document Management are among the main modules that it is integrated into.

Features

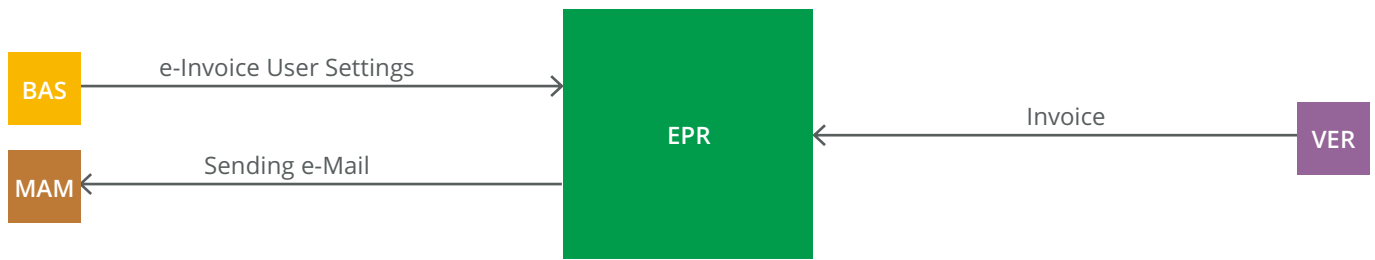
Overview

- // Sales Invoices (export)
- // Approval and Rejection of Sales Invoices (import)
- // Sales Invoice Returns (import)
- // Purchase Invoices (import)
- // Approval and Rejection of Purchase Invoices (export)
- // Purchase Invoices Returns (export)
- // Purchase Invoices - e-Invoice matching
- // Sales Return Invoices - e-Invoice matching
- // Updating the e-Invoice User Member list
- // Control of invoices through a single central system
- // Facilitating the control and management of the ongoing process with paper documents
- // Contributing to the protection of the natural environment by reducing paper consumption and transportation needs.
- // Acceleration of business processes
- // Automation in cash and payment management
- // Reducing the collection period to much shorter periods
- // Elimination of mailing costs and length of delivery times
- // Providing instant control of invoice information
- // Shortening of error detection and objection periods
- // Minimizing the possibility of error with instant and automatic data flow

#NEXT

E-Producer Receipt

With the caniasERP e-Producer Receipt (EPR) module, users can create the e-producer receipt document, which is called "commercial document that replaces invoices when purchasing goods from non-taxable persons," on the Purchasing Management screen and easily transfer it to the Revenue Administration (RA) system via the application. Thanks to the e-Producer Receipt Module, data entry is provided to the Revenue Administration and the transaction is reported to both the Revenue Administration and the counterparty. Through the integration of the caniasERP Mail Application Management Module, the e-producer receipt document can be sent to the other party via e-mail.



Img. 21. Integration of EPR-Module in the System

E-PRODUCER RECEIPT USER SETTINGS

User-based system settings can be made to define additional information that will appear in the producer output, e-Document number ranges and prefix assignments according to the system document types, 2/3-digit prefix assignment, xslt definition according to the system document types.

E-PRODUCER RECEIPT CUSTOMIZATION

The system offers the opportunity to add / remove new tags into UBL (Universal Business Language) or make changes in tag values, according to e-producer document types, thanks to its e-producer customization feature.

INTEGRATION

e-Archive Management has an integrated structure with other modules in caniasERP. Purchasing Management, Invoice Control, Customer Relationship Management, Accounting, Document Management are among the main modules it is integrated with.

Features

Overview

- // Auditing of receipts through a single central system
- // Facilitating control & management of the ongoing process with paper documents
- // Contributing to the protection of the natural environment by reducing paper consumption and transportation needs.
- // Acceleration of business processes
- // Automation in cash and payment management
- // Reducing the collection period to much shorter periods
- // Elimination of mailing costs and length of delivery times
- // Providing instant control of receipt information
- // Shortening of error detection and objection periods
- // Minimizing the possibility of error with instant & automatic data flow

#NEXT

General Data Protection

The caniasERP General Data Protection (GDP) module enables the necessary actions to be taken to ensure the privacy and protection of personal data and to prevent unauthorized use. In the module, there is an analysis report transaction for data analysis along with the management of general data protection operations.

GENERAL DATA PROTECTION RECORDS

Advertising preferences and personal data protection preferences of the persons in the address book are recorded in the system. While the last preferences of the persons can be displayed, all past records of the person can also be viewed. The date for which the approval is sent, how the person was contacted (mail, call, SMS, etc.) preference and date of the preference are recorded and this information can be easily accessed when requested.

MANAGEMENT PANEL

The module contains data of the people who have been sent approval requests and not sent approval requests through the management panel. With the management panel, people who have not been sent for approval can be easily listed and a collective approval request mail can be sent to these people from the management panel. Based on the duration of data retention and data deletion periods, information on how many days remain until the data retention and data deletion period of all data or, if this period has been exceeded, is included. Digital data destruction and data deletion can be done with the management panel. In addition, according to the advertisement preference, the e-mail preference of the relevant person in the customer relations module can be updated collectively with the management panel.

ANALYSIS REPORT

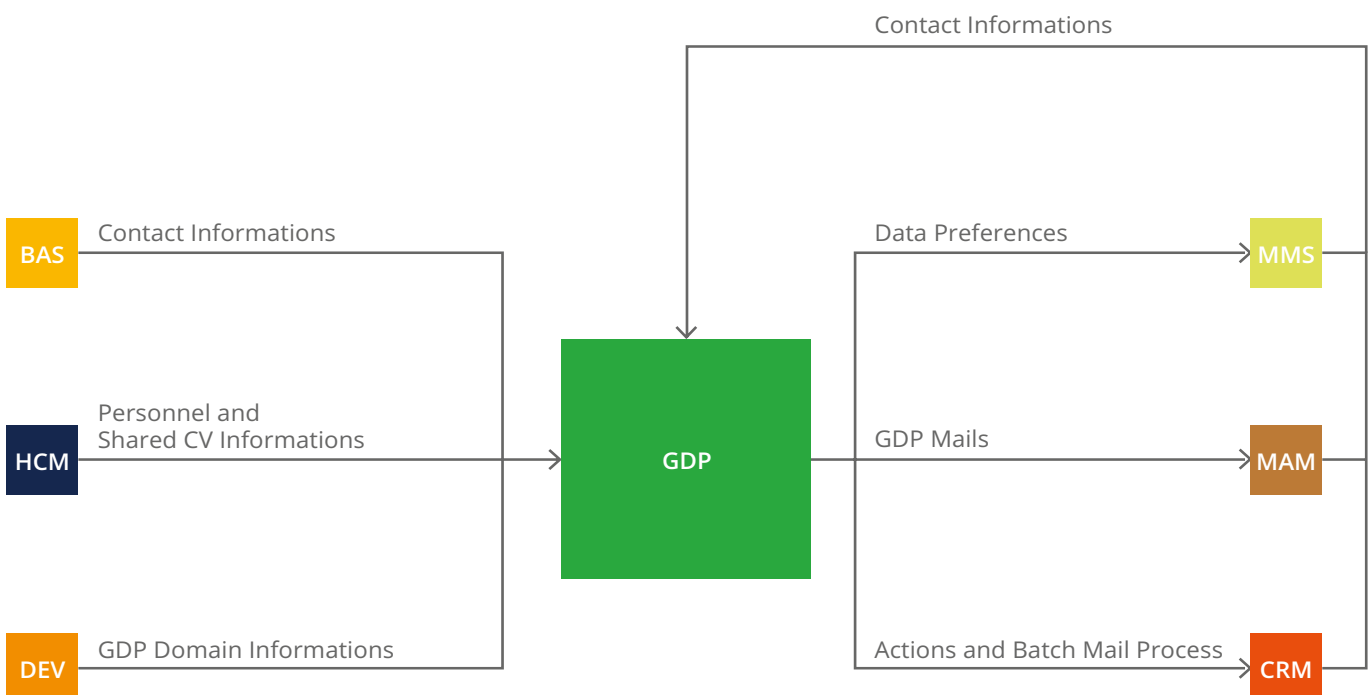
The analysis report provides summary information about the general status of data protection records.

In the report, data storage preferences, requests sent and received responses by month, data retention / deletion analysis and last interaction date analysis information are presented to users graphically. With the analysis report, it is also possible to list data protection records in line with the selected criteria

Features

Overview

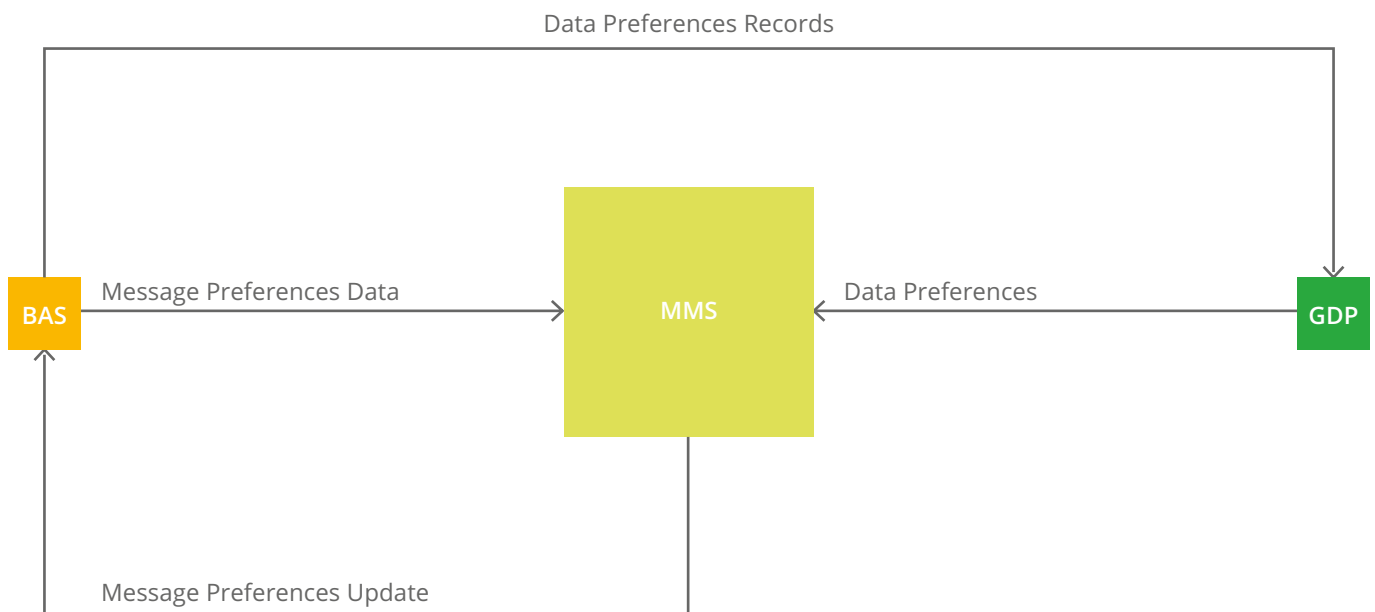
- // Easy and fast processes with the Management Panel
- // Analysis Report with data analysis and graphically supported general status tracking
- // Automatically sending approval request mail when creating a new contact record
- // Adding e-mails sent from the management panel to the customer as an action
- // Updating the last interaction date with customer action record
- // Integration with Bulk Letter / Mail / Action Management transaction
- // Integration with personnel registration card transactions
- // Integration with CV bank transactions



Img. 22. Integration of GDP-Module in the System

Message Management System

The caniasERP Message Management System (MMS) module allows the management and tracking of all commercial communication permissions (call, message, email). From this module, the approvals of whether or not the persons in the address book allow commercial communication can be tracked, their approval status can be updated or new records can be created.



Img. 23. Integration of MMS-Module in the System

MESSAGING PERMISSION MANAGEMENT

Via the Message Management System, commercial message receiving preferences can be managed, and if the relevant user does not approve, sending commercial electronic messages to the relevant person can be prevented until the approval is received again. Permissions can be viewed and modified separately as calls, messages and emails.

Features

Overview

- // Creating new approval records
- // Updating commercial message approval preferences
- // Disabling commercial messages for users who opted-out
- // Integration with modules that send commercial messages

FIM

Financial Management

Module Group

Asset Management

The caniasERP Asset Management (AST) module allows enterprises to carry out any transactions related to their assets which they hold for production or service offerings including machinery, equipment, land, buildings, facilities, and installations.

This module enables performing tasks easily, such as keeping records of fixed assets, calculating aging and costs, monitoring and reporting. In addition, the system is able to hold the details of depreciation, purchasing and insurance information and deductions applied in return of early payments. Fast and error-free calculating or processing of re-valuations, charging additional expenses and investments, accounting of monthly or daily basis depreciation, full or partial sales, preparing scrapping, formal or administrative reports, inventory checking and debiting.

Even small and middle-sized enterprises have thousands of fixed assets. These fixed assets, with their repetitive end-of-month operations, require perfect

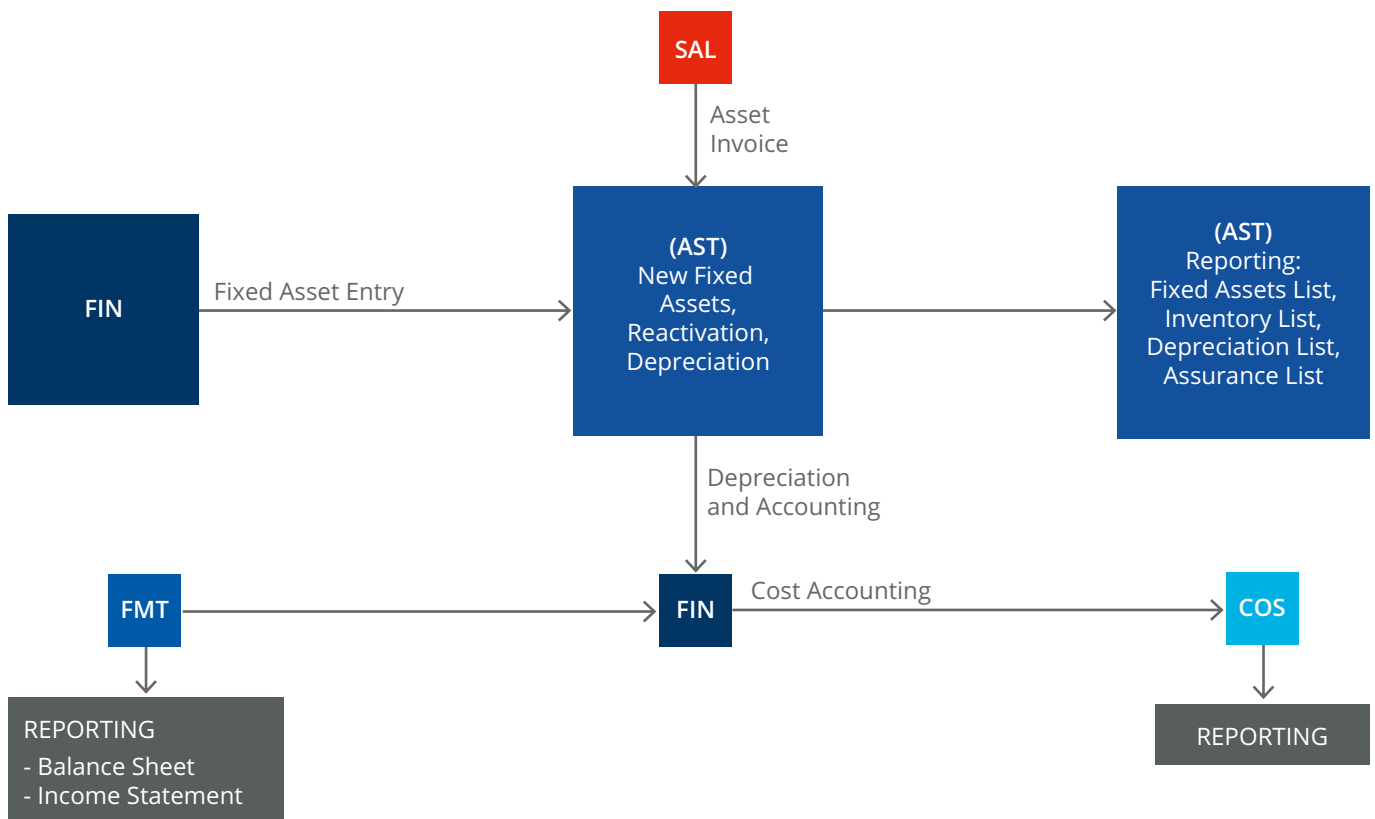
integration between the general accounting, cost accounting, and purchasing units. This module lightens the workload of these enterprises greatly by making it easy to manage fixed assets.

REPORTING

The Fixed Asset Management module provides easy to access reports to meet official and/or administrative needs. The reports listing the depreciation amounts can be taken with "Actualized", "Planned" or "All" options. In this way, the expense amounts or expected expenses can be analyzed. Reports can be generated in PDF or Excel files, with rich query parameters, various status settings, and detailed analysis.

Some examples of reports that can be taken with many different options:

- // List of Fixed Assets with details
- // Development of Fixed Assets (Becoming an active asset, discounts, expenses, revaluations, depreciation, and history)
- // Periodic developments report on fixed assets
- // Fixed assets depreciation amounts



Img. 24. Integration of AST-Module in the System

- // Fixed assets revaluation amounts
- // Fixed Asset specials lists

INTEGRATION

The Fixed Asset Management module is tightly integrated with Financial Accounting, Cost Centers Accounting, Human Resources Management, Purchase Management, and Invoice Verification modules.

Features

Overview

- // Multiple Accounting Standard (Multiple Books) support (Different depreciation methods for each fixed asset, defining times and accounting integration)
- // Creating monthly, quarterly or daily basis depreciation plans and accounting
- // "Straight-line", "Double Declining" or "Units of Production" depreciation methods support.
- // Automatic determination and purchasing of fixed assets, discounts, and expenses from accounting records, batch processing.
- // Calculating customized or exceptional depreciation
- // Pro-rata depreciation delayed pro-rata depreciation, book value and cost management after economic life.
- // Ability to create full or multiple partial sales, scrapping and related accounting records
- // Saving depreciation expenses to a different cost center or cost objects according to the given rates
- // Revaluation support
- // Ability to change the depreciation method automatically and collectively depending on the implementation. (Starting with decreasing and moving to the linear method when conditions are appropriate)
- // Monitoring of pre-activation expenses (Investment phase management)
- // Identification of five different depreciation methods and options for each fixed asset
- // Accounting as a non-operating part expense
- // Fixed asset purchase invoice, vendor, insurance, incentive information tracking
- // Verification of fixed assets (Physical counting, location / assigned person and status update)

#NEXT

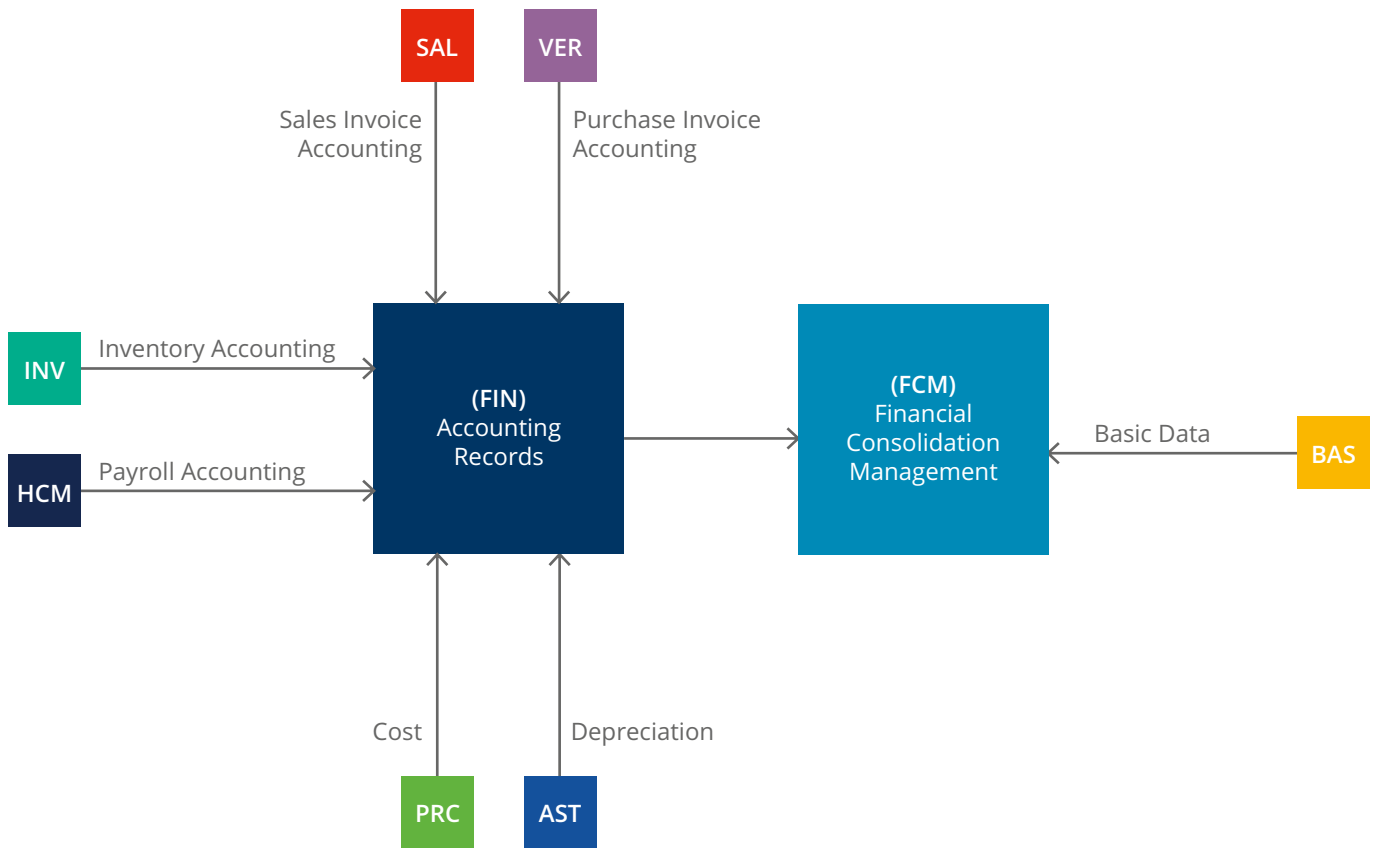
Financial Consolidation Management

The caniasERP Financial Consolidation Management (FCM) module has been developed to meet the formal or managerial consolidation needs of businesses that are structured in the form of a holding or a group of companies that produce or trade and provide services.

INTEGRATION

Financial Consolidation Management has seamless integration with Financial Accounting, Legal Reporting Management, Financial Management, Financial Reporting Management, Sales Management, Retail

Management, Invoice Verification, Fixed Asset Management, Human Resources Management, Production Cost Management, Cost Centers Accounting, Inventory Management, e-Book Management.



Img. 25. Integration of FCM-Module in the System

Features

Overview

- // Consolidation for different groups of companies affiliated to the holding
- // Defining group chart of accounts sets
- // Defining the currency and exchange rates specific to consolidation
- // Creating the accounting records in the specified date range as consolidation raw data in summary
- // Defining ownership rates among companies
- // Detailed analysis on raw data
- // Defining different data control sets for both before and after elimination
- // Detailed analysis as a result of data controls (Vertical Control)
- // Detailed analysis with consensus matrix (Horizontal Control)
- // Defining rule sets for automatic eliminations
- // Manual recording can be added after elimination, if desired
- // Detailed analysis on consolidation data
- // Rich, customizable ready reports and creating your own reports
- // Using footnotes in reports

Financial Accounting

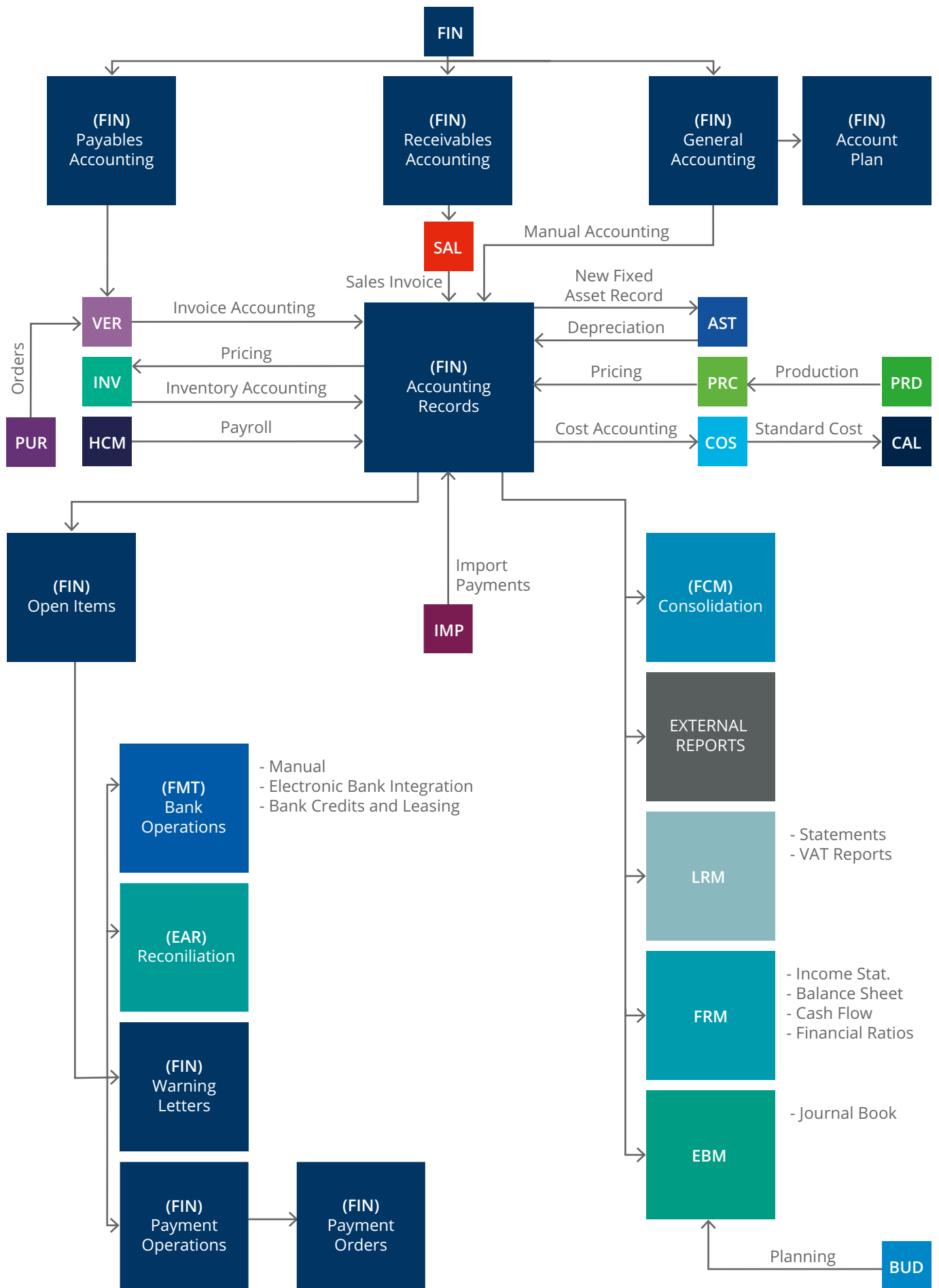
caniasERP Financial Accounting (FIN) module is developed in a way that it can respond to all the formal and managerial needs of businesses that produce, trade or provide services with sub-headings such as General Accounting, Account Receivable, Debt Accounting, Management Accounting, Cost Accounting, Fixed Assets Accounting and Human Resources Accounting. The Financial Accounting module can perform transactions and reporting fluently and efficiently in many accounting standards such as TMS, IFRS, USGAAP and special management accounting that companies may need, without requiring separate setup, database or duplicate entry.

Basic functions of the module:

- // To save commercial events and their documents in accordance with the applicable legislation of the transaction currency information in order to fulfill the General Accounting requirements.
- // Comprehensive management of trade receivables and trade payables with Real-time or collective integration with Sales Management, Retail Management and Invoice Control modules. (Open balance control, credit /debit aging, customer debt information, collective warning letters, etc.)
- // With real-time integration to the Asset Management module, accounting for monthly depreciation expenses; automatic creation of full or partial sales, scrapping of related accounting documents, automatic determination, and processing of fixed assets and expenses of the related period from accounting records.
- // Accounting of monthly personnel expenses and accruals by the Human Resources Management module integration.
- // With perfect functioning integration, transferring the expense records entered in the Financial Accounting module to the Cost Centers Accounting module before the cost calculations.
- // Creation of reflections of expense accounts and accounting of material costing records through integration with Inventory Management and Production Cost Management modules.
- // The planned and actual comparison of finance and expenditure budgets with Budget Management module integration.
- // Record the notes such as checks, notes, letters of credit, receipt of credit, follow-up, bankruptcy, collection or forensic follow-up status, reporting, creating automatic accounting documents and evaluating them at the end of a period.
- // Tracking and accounting of the letters of guarantee received and given.
- // "Financial Reminder" feature so that companies do not skip any payment or collection (Check, promissory note, letter of credit, insurance policies, etc. information and reminder with specific reports, dates and times defined by e-mail and/or SMS messages).
- // Automatic accrual of debt collection, clear balance tracking, related foreign exchange profit/loss and due date accounting by subjecting debt accruals to financial matching in transaction currency or local currency.
- // Easily receive lists of subsidiary books, trial balance, final trial balance etc. with local currency, reporting, transaction or account currency options.
- // Fast, controlled, and easy document entries via rich, customizable Registration keys as well as real-time or collective document creation with integration with other related modules.
- // Preparation of debt / receivable aging, interest and interest statements, rediscount calculation, weighted average interest calculation reports.
- // Comprehensive 'Term End Transactions' and closing and new term opening documents can be created easily and quickly.
- // Detailed expense follow-up.
- // Ability to distribute between accounts and cost centers by using account transfer templates.
- // Automatic generation of foreign exchange profit / loss accounting documents, exchange rate difference invoices of foreign currency receivables and debt registration accrual accounting documents as a result of "Periodic Exchange Rate Valuation".

REPORTING

The General Ledger module offers many ready-made reports to meet official or administrative needs. These are reports such as chart of accounts, accounting documents, checklists, comprehensive account transaction statements, temporary and final trial balance, check and note slips, and execution lists with history, debtor account information and warning letters, debt aging reports, collection-payment. Standard reports are presented with rich parameters and options. With the help of easy-to-use wizards, they can be easily transferred to different media such as Excel, PDF, and text documents.



Img. 26. Integration of FIN-Module in the System

Integration

Financial Accounting module has integration with: Legal Reporting Management, Financial Management, Financial Reporting Management, Sales Management, Retail Management, Invoice Control, Fixed

Asset Management, Human Resources Management, Production Cost Management, Cost Centers Accounting, Stock Management, Budget Management, Financial Consolidation Management, e-Ledger Management, e-Reconciliation.

Features

Overview

- // Multiple accounting standards, real-time or period-end parallel ledger productions, discount calculations of forward debt/receivables.
- // Foreign currency transactions, foreign currency reports, periodic exchange rate valuation, foreign exchange profit / loss, maturity difference, payment and debt / credit aging calculations.
- // Manual or batch financial matching, matching exchange rate difference.
- // Real time or collective accounting integration.
- // Term paper management, financial reminder.
- // Creating accounting templates for different transaction types with registration keys.
- // Collective customer / supplier information, warning letters.
- // Creating automatic recurring payments and accounting documents
- // Full support for period end and beginning closing / opening processes
- // Especially Turkey and Germany, including many European, Middle Eastern, Asian and Latin American countries, the infrastructure that supports the legislation.

#NEXT

Financial Management

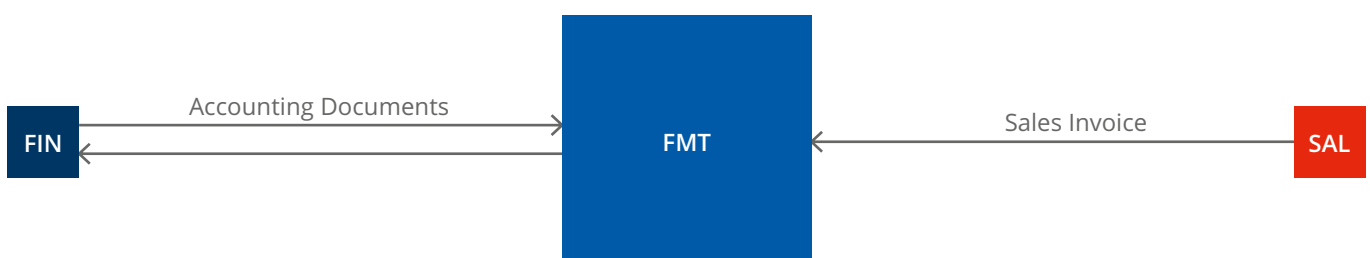
The caniasERP Financial Management (FMT) module helps companies manage their financial processes such as loans and leasing, as well as their integration processes with banks.

Basic functions of the module are as follows:

// Follow-up of your loan and leasing applications and their realizations, making, monitoring and accounting the payment of entries and installments,

as well as detailed analysis, end of period currency valuation and accounting transactions.

// Detailed insurance policy follow-up and accounting.



Img. 27. Integration of FMT-Module in the System

- // DBS - Direct debiting system management
- // Integration with the banks where companies work: Account transactions integration in Swift MT940 standard, check / bill integration, mass payment orders sending and outcome integration
- // For transactions such as periodic payments, insurance premium or lease payments, the template document is created once and automatically recognized when the time comes.

INTEGRATION

Financial Management module has integration with modules such as Financial Accounting, Legal Reporting Management, Financial Reporting Management, Retail Management, Invoice Verification, Fixed Asset Management, Human Resources Management, Production Cost Management, Cost Centers Accounting, Stock Management.

Features

Overview

- // Integration with banks
- // Detailed credit and leasing tracking
- // Management of insurance policies
- // DBS - Direct debiting system management

#NEXT

Financial Report Management

caniasERP Financial Report Management (FRM) module meets the financial reporting needs of companies with its detailed cash flow process and reporting, standard financial reporting processes, and customizable reports.

The main functions of the module are as follows:

- // Preparation of official and managerial cash flow statements from accounting records, pre-accounting documents that have not yet been integrated into accounting (Sales and purchase invoices and orders) and loan payment plans.
- // Easily getting comprehensive balance sheet, profit / loss statement, etc., financial statements & lists.
- // Creating personalized reports and tables as well as standard financial reports and tables.
- // Adding footnotes to financial reports.
- // Establishing and reporting financial ratios.

INTEGRATION

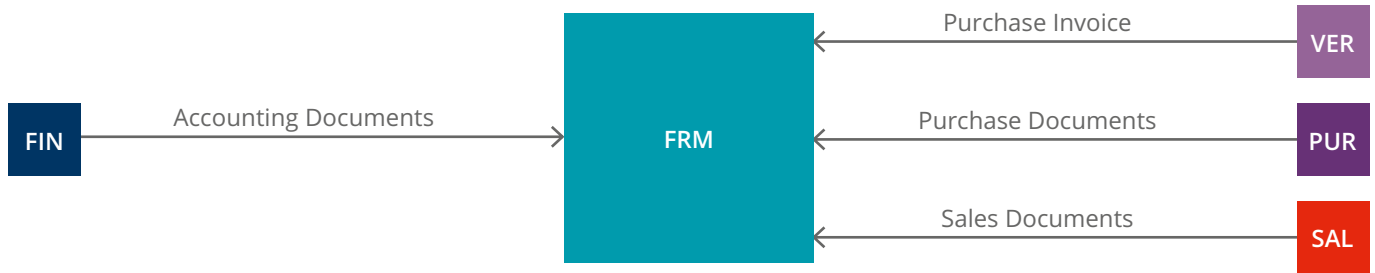
The Financial Reporting Management module has integration with modules such as Financial Accounting, Legal Reporting Management, Financial Management, Retail Management, Invoice Verification, Fixed

Asset Management, Human Resources Management, Production Cost Management, Cost Centers Accounting, Stock Management.

Features

Overview

- // Detailed cash flow tracking
- // Analysis with financial ratios
- // Standard financial reports such as balance sheet, income statement
- // Using footnotes in financial reports
- // Rich, customizable ready reports and ability to create your own reports



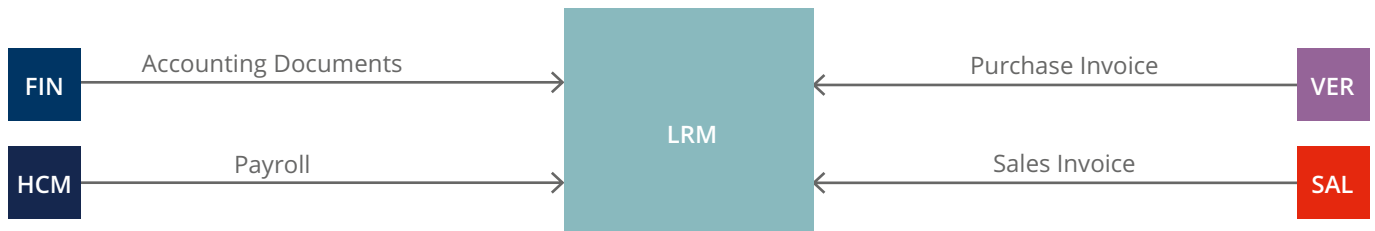
Img. 28. Integration of FRM-Module in the System

#NEXT

Legal Reporting Management

LRM

The caniasERP Legal Reporting Management (LRM) module allows companies to create official reports such as journal and general ledger, as well as VAT, withholding statements, etc. that they may need.



Img. 29. Integration of LRM-Module in the System

INTEGRATION

The module has integration with modules such as Financial Accounting, Financial Management, Financial Reporting Management, Retail Management, Invoice Verification, Fixed Asset Management, Human Resources Management, Production Cost Management, Cost Centers Accounting, Inventory Management, Electronic Account Reconciliation.

Features

Overview

- // Preparation of official book, declaration, e-Declaration and VAT checklists.
- // Getting VAT checklists and reports
- // Getting list of report of VAT Incurred
- // Creating the withholding statement using payroll information
- // Preparation of Provisional Corporate Tax and similar declarations

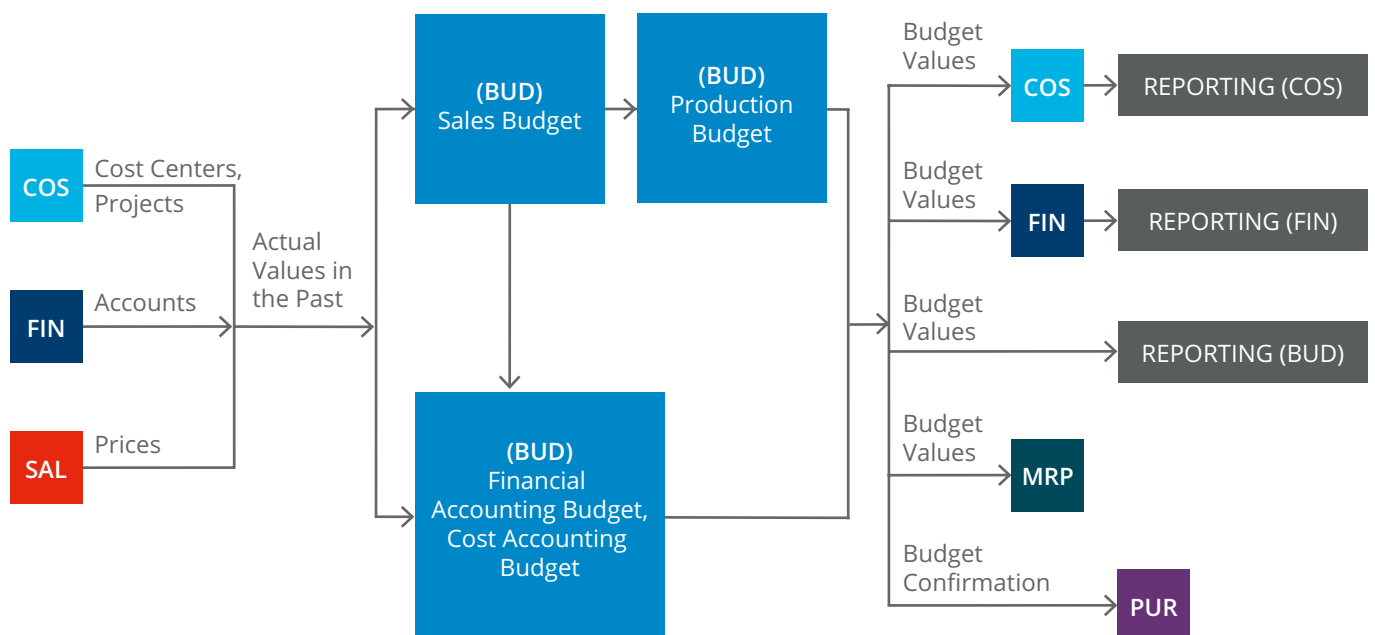
Budget Management

The Budget Management (BUD) module provides companies with the ability to manage their entire strategic, operational and financial plan by creating a budget that fits their vision for the future. An unlimited number of budget scenarios can be created through this module, the budgets generated can be versioned, selected and revisions can be performed quickly when needed.

The integrated structure of the module enables the planned and actual figures to always be kept up to date and the companies can be managed in real-time. Budget categories can be set up in different hierarchies for different business areas such as "Sales Budget", "Production Budget", "Purchasing Budget", "Investment Budget", "General Expense Budget", "Personnel Budget" and "Financial Budget". The successful integration with other modules makes the planning and reporting process more efficient.

Main features of the module are;

- // Creation of sales budget based on material and material group.
- // Describing the desired number of exchange rate scenarios and use them in budgets and reporting.
- // Defining the beginning of the period and safety stock data and using the production budget.
- // Operation of the production budget by defining different bills of materials and route alternatives.
- // Automatic creation of personnel budget data in the desired detail taking into account the data in the Human Resources Management module.
- // Including independent needs in the budget while making sales budget estimation.
- // Monitoring of production, semi-product, and activity budgets on a material basis.
- // Receiving the vendor and price information of the purchases of the budget, resulting from the operation of the production budget from the data previously defined in the system.
- // The fixed assets planned in the investment budget are transferred to the Asset Management module and used in reporting.
- // The distribution of expenses over activities by the distribution schemes in the Cost Centers Accounting module infrastructure and the calculation of unit activity costs based on cost center after defining the expense budgets.
- // Defining the approval and authorization mechanism of the budget.
- // Transferring of all budget items to the account-level financial budget with posting keys and import templates.
- // Real-time management of overdrawn during actual budget controls.



Img. 30. Integration of BUD-Module in the System

- // Budget cost in actual cost detail.
- // Consolidation of budgets.
- // Quick creation of the revised budget

INTEGRATION

There are standard reports in the Budget Management module that allow various analyzes;

- // Sales budget detailed analysis report
- // The detailed analysis report of purchasing budget
- // Expenditure budget detailed analysis report
- // Investment budget detailed analysis report
- // Personnel budget detailed analysis report
- // Finance budget detailed analysis report
- // Planned/Actual and budget-to-budget comparison for sales budget
- // Planned/Actual and budget-to-budget comparison for purchase budget
- // Planned/Actual and budget-to-budget comparison for expense budget
- // Planned/Actual and budget-to-budget comparison for finance budget
- // Summary capacity report
- // Unit activity costs report
- // Operation costs report
- // Budget cash flow report
- // Budget balance sheet and income statement
- // Budget Cost report

For the planned sales figures in the Budget Management module, actual data or independent needs in the Sales Management module can be used. Production and purchase budgets are generated through the Material Requirements Planning and indirectly through the BOM and Routing Management modules. Plan values created within the Budget Management can be taken into consideration in the Material Requirements Planning module and can be used in related processes. The values in the credit application in the Finance Accounting module can be used within the budget module and the credit definition of the budget can be made. The development of fixed assets belonging to the investment budget can be monitored in the Asset Management module. If planned budgets for purchase and expense are exceeded, the system warns the users while performing transactions in Purchasing Management and other related modules. The personnel budget can be created by considering the data in the Human Resources Management module. Once the expense budgets have been defined, the distribution of expenditures on the activities through the distribution schemes in the Cost Centers Accounting module infrastructure, calculating the unit activity costs based on the cost

center and thus, by the help of the Standard Cost Management module, calculating the budget cost in the actual cost detail can be provided. In addition, a structure that works integrated with the Business Process Management module can be established in order to manage the approval processes through the system. The plan data in the generated budgets can be compared with actual values through integration with the relevant modules and a reporting infrastructure can be created for deviation analyzes.

The components of the Budget Management module, which are fully integrated into the general system and have a structure in connection with other modules, ensure that calculations, reports, and transactions are performed quickly and accurately.

Features

Overview

- // Creating a desired number of budgets
- // Identifiable authorization and approval process
- // Budget category in different hierarchies
- // Use of multiple currencies in the budget
- // General sales planning based on material groups
- // Detailed sales planning based on customers / materials
- // Budget entry based on departments
- // Production planning in line with sales budget
- // Using the Material Requirements Planning module to manage the production budget
- // Identifying sales, production, general expenses, investment, personnel, purchase, and finance budgets.
- // Advanced and detailed reporting
- // Comparison of planned figures by date range and months
- // Creating budget revisions quickly with advanced parametric architecture
- // Complete integration with basic modules
- // Detailed cost structure
- // Limit overrun management in the processes related to the live budget controls
- // Consolidation of budgets

Sub-Groups of Financial Management

CSM

Cost Management

Sub-Group

Standard Cost Management

In the Standard Cost Management (CAL) module, the planned production cost of a specific product or semi-product can be calculated from the basic information acquired from the bill of materials and routes. In addition to the calculation of a specific product, it is also possible to execute batch calculation methods, involving multiple materials. Also, the calculation can be initiated from other modules; For example, when creating an offer in the Sales Management module, the cost of the offer or project costs can be calculated in the Project Management module. In the Standard Cost Management module, it is possible to use various parameters such as cost diagram or validity information, price details, activity details, bill of materials and routes to make calculations.

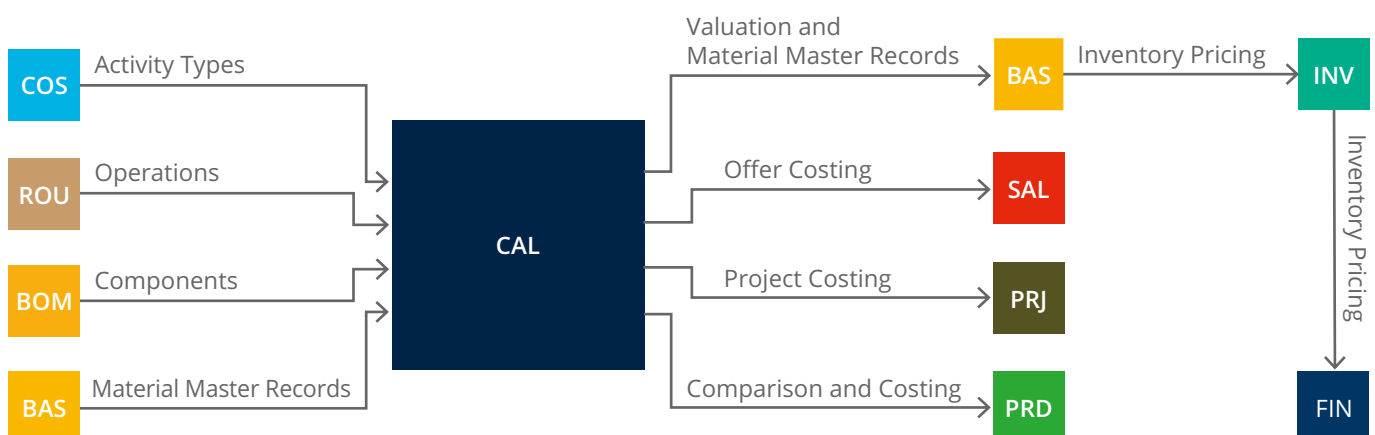
With this module, users can perform a comprehensive evaluation and analysis. Moreover, the module allows the users to list and analyze possible errors in the batch calculation. In addition, the results of the various calculations can be compared to each other by cross control on the module. By being successfully integrated with the rest of the modules in the system, the module guarantees the use of centrally managed data in each calculation.

COST PARAMETERS

The master data required for the calculation are derived from the Bill of Materials and Routing Management modules. Necessary components and quantities are taken from the Bill of Material module. Operational details such as the time spent on production are taken from the Routing Management module. It is also possible to determine the prices of various components and semi-products to be included in the calculation. For the raw materials purchased, the moving average price or the final purchase price may be used, while the production costs for the semi-products produced internally can be considered.

For activities entered in the Routing Management module, such as machinery, labor or preparation time, an activity unit cost record for the relevant cost center can be defined. This definition can be transferred from the previous month's cost distribution results, through integration with the Cost Centers Accounting module. Fixed and variable rates in activity unit cost records provide flexible pricing. Any desired number of calculation schemes can be created in this module. In each scheme, which activity records and the prices of the components will be taken as a basis for the calculation and can be determined separately. In addition, it is also possible to define whether additional cost records such as general production expenses will be taken into account and which amount will be taken into consideration. By using 'Schema Variables', variables can be determined dynamically in line with the specific properties of the materials and an additional cost can be created for the calculated costs.

In addition, a multi-level breakdown and calculation of the result as a new standard price in the material master data can also be set parametrically on the module.



Img. 31. Integration of CAL-Module in the System

CALCULATION METHODS

In the Standard Cost Management module, in addition to the calculation of a specific product, a batch calculation covering multiple materials can also be completed. When using a batch calculation, the materials selected based on certain parameters are taken into consideration in preliminary conditions. The calculation can also be started from other modules. For example, when creating a proposal in the Sales Management module, a bid cost can be calculated, or project costs can be calculated in the Project Management module. Similarly, in the Budget Management module, the standard cost calculation can also be made collectively for the materials included in the budget.

EVALUATIONS AND ANALYSIS

The Standard Cost Management module provides the user with a comprehensive evaluation and analysis. Thus, in a batch calculation, lists can be created where possible errors can be seen and analyzed. In addition, the results of the different calculations can be compared with each other by cross control. Calculation views can also be defined in the module to highlight specific issues within the calculation.

INTEGRATION

The successful integration of the Standard Cost Management module with all the modules in the system guarantees the use of centrally managed data in each calculation. The module is integrated with modules such as Base Data Management, Bill of Materials Management, Routing Management, Sales Management, Project Management, Production Management, Budget Management, and Cost Centers Accounting.

Features

Overview

- // Single calculation and batch calculation
- // History records
- // Simultaneous management of different versions
- // The multi-level calculation for a multi-level bill of materials
- // Fixed and variable rates for activity unit costs
- // Defining an unlimited number of configurable calculation schemes.
- // Effective management of costs on schema rows using schema variables
- // Calculations with user-defined formulas
- // Calculating the bill of materials, activity unit costs and exchange rates on a date determined by the user
- // Calculation by the variant
- // Determining product origin with cost distribution
- // Ability to calculate costs according to different accounting standards
- // Cost comparison reports

#NEXT

Cost Center Accounting

With the caniasERP Cost Center Accounting (COS) module, companies can easily measure the effectiveness of all products and activities and also help manage decision-making processes. Costs can be defined as fixed or variable and cost type groups can be created on the module.

This module allows the definition of a wide range of cost holders, calculates the cost holders that occur during the period. Thus, the actual costs and planned costs can be compared. Cost transfers can be made

between cost centers by using distribution keys defined in the module. Users can determine activity unit costs for standard product cost calculations for the relevant month and for the coming months based on

the expense distribution data. It is also possible to make a variety of reporting through the module, such as the cost distribution table, annual comparison or plan-actual comparison.

COST TYPES

Within the overall system, the expense accounts in the Financial Accounting module also serve as cost types making it possible to define these as fixed or variable costs and to summarize and form cost groups. In addition, an account or account type can be defined as subject to a cost center. The purpose of this is to ensure that all relevant Financial Accounting records are transferred to the cost centers.

COST OBJECTS

The Cost Centers Accounting module allows for the definition of a wide range of cost objects (e.g. production orders or projects). Cost objects that form during the period can be controlled by a simultaneous calculation and the actual costs and planned costs can be compared through the final cost calculation.

COST CENTERS

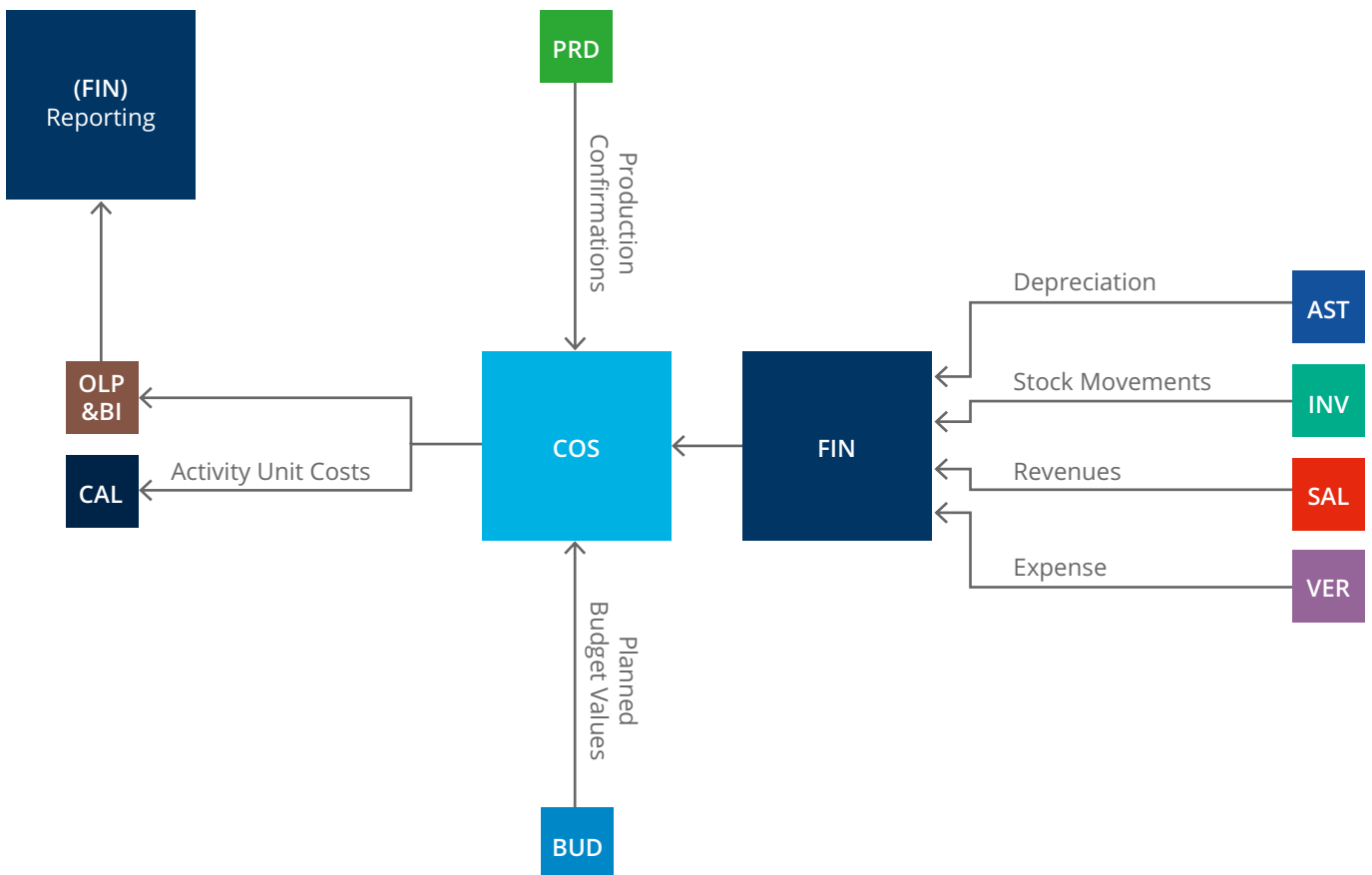
The cost center base data that form the basis of the module can be freely defined without being limited to a certain number of cost centers. Defined cost

centers are associated with cost types (Cost Accounts) in the Financial Accounting module, and cost objects (Production order operations or project steps) in Production Management and Project Management modules. Cost Centers Accounting module works in an integrated manner with other modules through these associations. It is also possible to define a cost center hierarchy by setting an upper-cost center for each cost center.

COST DISTRIBUTION

General Ledger records and, if required, stock movements can be grouped as primary costs for cost entries. By identifying a distribution key, the costs in auxiliary cost centers can be distributed to the main cost centers where the production takes place. Production confirmations, resulting costs, or fixed rates (e.g. square meters, number of employees, etc.) can be used as distribution criteria. Cost transfers can be made between cost centers by using defined distribution keys, and then the cost distributions can be compared.

Using the cost allocation data, the unit costs for new activity (e.g. labor time or electricity consumption) can be determined based on future product cost calculations. In addition, when calculating the unit cost of activities, the ideal runtimes defined in the route operations can be used instead of the actual produc-



Img. 32. Integration of COS-Module in the System

tion confirmations. Costs of parts that do not operate when working capacities are not fully filled can be accounted for with the Cost Centers Accounting module.

In addition, various reporting options are available for the data generated in the module, such as the cost distribution table, annual comparison or planned-actual comparison.

INTEGRATION

With the high level of integration through the cania-ERP system, the registration of data related to the Cost Centers Accounting module is performed correspondingly with the document records in Financial Accounting, Fixed Asset Management, Sales Management, Inventory Management, and Production Management modules. In this way, cost calculation can be performed without the need for duplicate records and extra data transfer.

In addition to the actual costs, the Cost Centers Accounting module can work with the planned costs as well. Planned costs can also be used in Standard Cost Management and Budget Management modules.

In addition to standard reports, it is also possible to create custom reports for customers with the Business Intelligence module.

Features

Overview

- // Planned and actual cost comparison
- // Cost center management
- // Hierarchy of cost centers
- // Distribution switches
- // Variable and fixed cost definitions
- // Activity unit cost calculation
- // Inoperative part expense recognition
- // Various delivery methods
- // Distribution according to production quantities
- // Distribution by direct expense rates
- // Constant coefficient distribution
- // Comprehensive reports
- // Raw accounting and production data control
- // Planned and actual cost distribution analysis
- // Cost center cost flows
- // Data consistency control

HRM

Human Resources Management

Module Group

Career Management

caniasERP Career Management (CRR) module includes processes related to Career Plans, Development Cards, Performance Evaluation, Succession and Tracking of Talent Pools. With the module's transactions, the requirement needs can be determined on the basis of position; multiple career plans can be created for the employees; the succession assignments based on position can be performed; the employees can be placed in talent pools according to their abilities. With the 360-degree performance evaluation system, employees can be evaluated according to their goals and competencies, employee risks and status can be determined and this information can be used in the career plan.

POSITION REQUIREMENTS MATRIX

In matrix definitions, processes such as determining the requirement needs on the basis of position, defining the position risk status, and determining the positions to be assigned succession are monitored. As the relevant position requirements: required competence values, qualification values, trainings to be taken, foreign languages required, education status, professional qualification certificates and driving licenses can be defined. These defined requirements are kept in the system as a Position Requirement Matrix and are integrated with the Career Planning transaction.

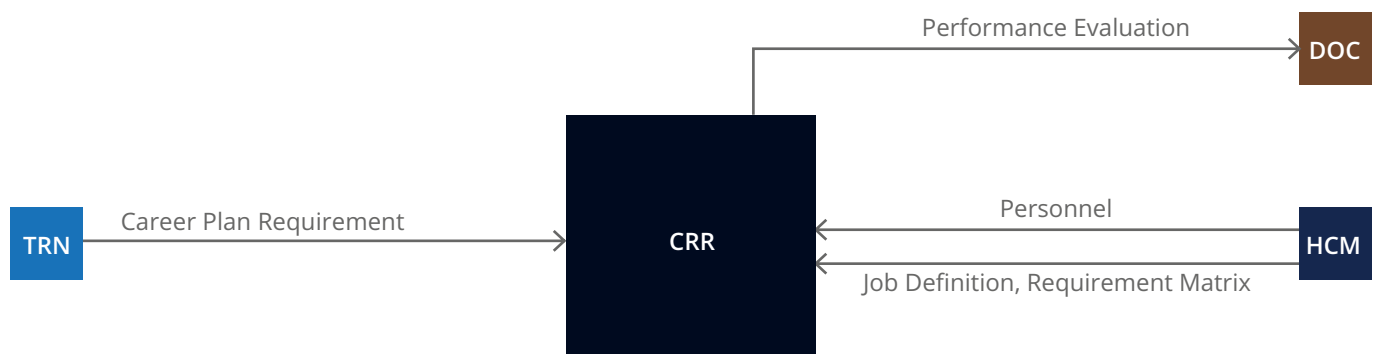
CAREER PLANS

For career planning, in cases where requirement matrices are defined for the targeted position, suitability checks are made by comparing employee information and whether the requirements are met can be recorded. Position requirements can be filled automatically or manual requirements can be added to the career plan and tracked. After the comparison, action is expected to be taken on the missing requirements. Within the career plan, the risk and potential status of the employee can be followed, and the development of the employee over time and the record information can be followed with the Development Card. Risk and status areas can be determined manually or brought automatically from Performance Evaluation records. Putting personnel in succession line for different positions or assigning another personnel

for succession in the current position of a personnel is done through this transaction. Personnel can also be assigned for succession for positions other than the target position set for them.

TALENT MANAGEMENT

Talent Management processes consist of two topics: creating talent pools and assigning succession for critical positions. Talent pools ensure that the talent within the organization is determined and transferred to the relevant pools, and the current or future talent needs are determined and monitored during the preparation periods. Creation of talent pools is carried out automatically by the system based on the definitions of Talent Pools and Talent Preparation Periods. Talent, skill, potential, performance, etc. Employees can be added to talent pools by taking processes into account. Considering the development of the employees, inter-period transfer can be made or the validity start and end dates can be updated. Succession is the process of determining candidates in advance so that the relevant position can be filled in a short time in the event that employees in critical positions suddenly leave their jobs or move to different positions. The positions to be assigned succession can be marked from the Position Requirement Matrices transaction and are taken into account in the position listings on the succession screens. While multiple employees can be assigned for succession for a position, an employee can be added to succession lines in multiple positions.



Img. 33. Integration of CRR-Module in the System

PERFORMANCE MANAGEMENT

Periodic evaluations can be applied to employees for performance management processes. In performance evaluation, business goals can be determined periodically; career goals, opinions and suggestions can be defined; documents related to the evaluation can be added. Competencies can be determined and applied on the basis of department or position. Any number of evaluators can be determined and the evaluators can be classified as 'Subordinate', 'Superior', 'Self', 'Equivalent'. Different weights can be defined for evaluators on the basis of goals and competencies. Managers can enter goals for their employees. Target definitions can be defined automatically on the basis of company / department / position / person. There's also the option of copying the evaluation forms for the new period from previous periods or creating them automatically by selecting the options.

Evaluators can enter explanations for each item during the evaluation and add documents on an evaluation basis. Score entry or scale selection can be used for competency assessments. In addition, in

cases where formulas for goals are entered, goals can be turned off for evaluation and automatically calculated. Completed evaluations can be closed for correction, evaluation results can be shared with the employee or manager within the authority. Training needs and development actions that arise as a result of the evaluation can also be recorded.

Features

Overview

- // Position Requirement Matrix
- // Career Plans
- // Talent Pools
- // Succession
- // Performance management

#NEXT

Personnel Management

caniasERP Personnel Management (HCM) module provides management of basic processes related to personnel such as personnel data, payroll, recruitment, organization management, administrative affairs, compensation calculation and shift planning. Human resources users can design reports on the system and meet their own report needs. Thus, the human resources department can manage both operational and strategic processes efficiently on the system. Personnel Management module works fully integrated with the system.

PERSONNEL MANAGEMENT

In the personnel record card in the Personnel Management module, all operational and personal information of the personnel are kept on the basis of information groups. Some data are tracked on a date basis, so that the information of the personnel in different periods is also preserved on the system. Information groups on the registry card; organization, identity information, wage, bank, shifts, social insurance, private insurance, payments, enforcement files, disability status, family information, marital status, work experiences, education, foreign languages, reward-penalty information, assigned fixtures and similar titles can be listed.

Fee changes in the module can be transferred to the registry cards collectively and with different calculation methods via the relevant application. Personnel shifts can be optimized and planned in the Shift Planning transaction and can be recorded in the registry cards. In administrative affairs transactions, item assignment processes can be made without accessing the registry card, and the food and service lists in the facilities can be followed. With the staff notification transaction, staff can convey their suggestions and complaints. With the personnel participation transaction, manual monitoring can be provided to workplaces without Personnel Attendance Control System.

Personnel turnover analysis can be prepared through the system. A more visual follow-up can be achieved with cockpit screens showing upcoming events and demographic data of the personnel. With the above-mentioned features, personal information can be tracked and used in other transaction, and thus the processes of human resources management can be managed quickly and easily.

PAYROLL MANAGEMENT

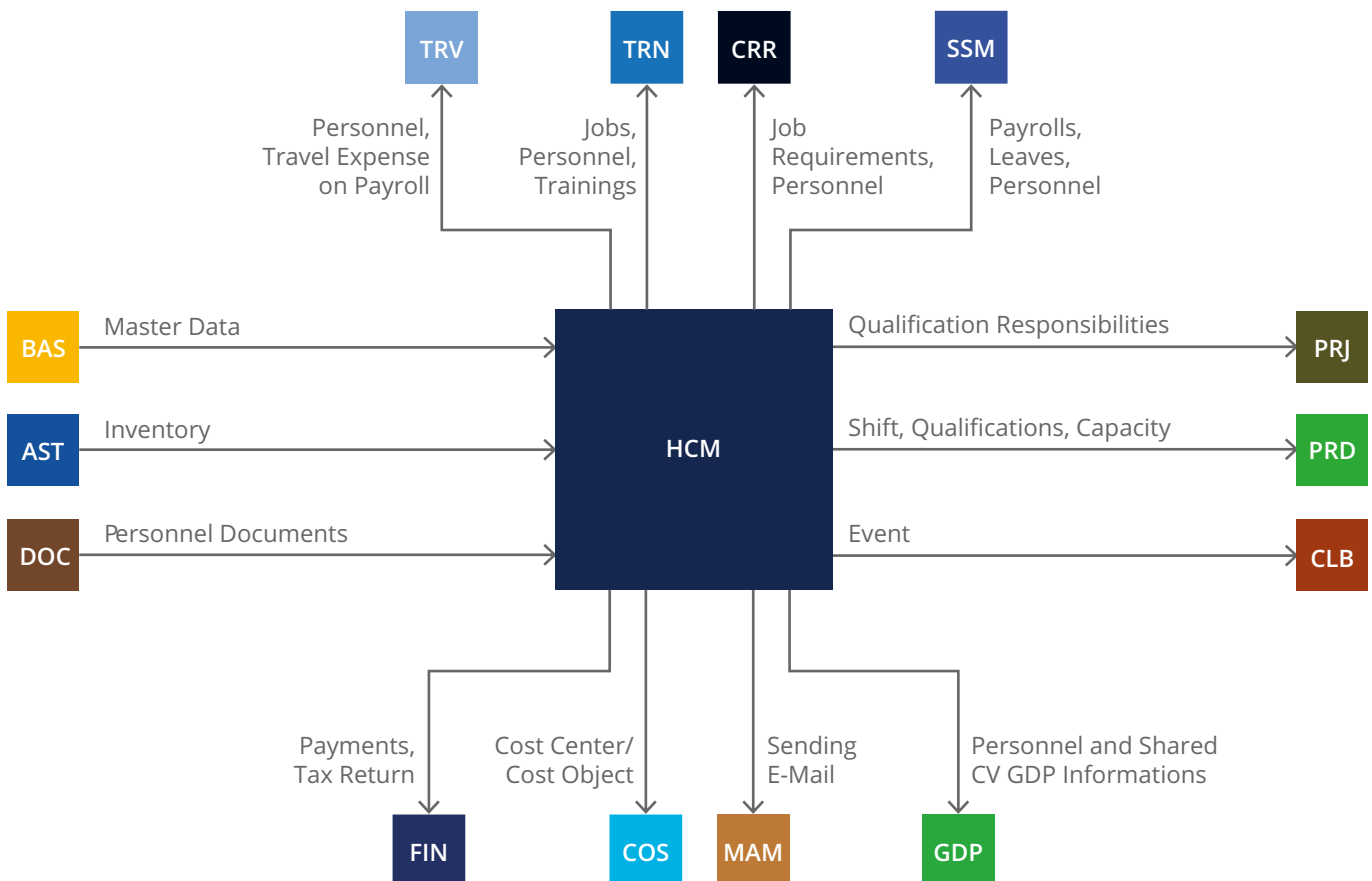
Personnel payrolls are calculated quickly and easily in accordance with current legislation, social security types and tax laws. Different payroll types can be created on the module, and more than one payroll can be calculated for the same period. On the payroll calculation screen, all entries that will affect the payroll of the personnel can be intervened on a single screen. With payment and deduction management, payments can be automatically flowed into payrolls or payments can be taken in collectively in CSV format. The information obtained from card reading systems can be imported in CSV format to create a payroll, and the permissions entered in the Rights transaction can be included in the scoreboard. Installment debts and advances can be recorded on the system, deductions of the execution file defined in the registry card can be automatically transferred to the payroll.

Calculated payrolls can be sent to the staff by e-mail, various printouts such as wage statement and total payroll can be obtained, one of the most important payroll reports, sheet payroll and mandatory legal statements can be created quickly. Payment files can be created automatically according to the prepared bank branch formats over the calculated payrolls.

Calculated payrolls can be accounted according to the registration keys determined on the basis of personnel through the transaction in the system. According to the keys specified in the finance group value fields in the personnel registration card, automatic registration can be assigned to different accounts even while performing transactions for the same registration key. In the accounting slips, the distribution can be provided according to the cost centers or projects specified on the scoring, as well as transfer can be made to cost centers or projects, which can be determined on a period basis for the personnel.

ORGANIZATION MANAGEMENT

Staff Definitions, Staff Requests, Organization Charts and Job Descriptions can be followed on the system. Any number of companies, facility and workplace personnel can be followed on caniasERP. Department, task and staff definitions can be made on the basis of company and / or facility and can be associated with registration cards.



Img. 34. Integration of HCM-Module in the System

In the staff definitions transaction; valid norm staff numbers, staff status, wage ranges, standard payments can be recorded. Personnel and vacancies in the staff can be listed. Valid for the relevant staff definition; Staff definitions of administrative, technical, project managers and reported managers can also be made on the system. Staff requests can be created in the system and submitted for approval.

Organization Charts can be created on the basis of facilities and validity dates, and can be followed as a tree or diagram. The managers in the registration card can be filled in from the organization chart created or from the manager information in the staff definitions. Different types of organization charts can be prepared on the system. The qualifications required for job descriptions, the trainings that candidates or employees should take, education information, foreign language knowledge, duties and responsibilities can be defined, and staff definitions can be associated with job descriptions.

RECRUITMENT / TERMINATION

An important part of the Personnel Management module is that the recruitment and termination processes can be easily managed. Registration cards are kept in the system as 'former personnel' during the termination process. In case the employee resumes working in a future period, the information on the old registration card can be moved to the new card or continued with the old registration card, so that recruitment can be performed quickly. During the dismissal process, control is ensured for the inventory status and debt payments in open installments that are debited to the personnel. In addition, in case of dismissal, the remaining leave pay can be automatically reflected on the relevant payroll, and if any, severance and notice pay can be calculated and transferred to the payroll. Transfer between companies can be carried out with a single transaction and can be continued through the same registry card.

In personnel selection projects; project levels, costs, needs, announcements, applications, interviews and exams can be organized. The required personnel need for the project can be created from the staff definition or staff requests, announcements and costs can be recorded through the module. Transactions for the project can be created from employees, former personnel or via the CV bank, candidates can be replied to by mail or email, and their tests and exams can be tracked through the system.

With the CV (Resume) Bank transaction, detailed information such as general information, experiences, language information, education, trainings can be recorded, pictures and documents can be added to the CV, and proposals and decisions submitted to the candidate can be saved. Thus, a search can be made in the CV bank created according to the desired crite-

ria. During the recruitment process, the information on the CV selected from the CV Bank can be automatically transferred to the registry card. It is also possible to transfer the CVs prepared in external environments to the system in XML format.

REPORT WIZARD

The easy reporting of all processes subject to human resources is a very critical issue for companies. Daily, periodic or individual report needs take a lot of time for the human resources department employees and sometimes cause other users to be needed in report preparation processes. These processes can be easily managed with report design creation and reporting transaction in the Human Resources Management module. With the report wizard, reports in different report groups can be designed, recorded and run whenever needed. Search criteria used in reports can be recorded on user basis and reused in subsequent reports. Prepared reports can be taken in formats such as CSV, PDF, Excel, txt.

INTEGRATION

Personnel Management module works in integration with various points of the ERP system. Payrolls calculated on the module can be accounted with a single click thanks to the integration of the Accounting Management module. While creating accounting records, distribution can be made on the basis of Cost Centers, Cost Objects or Projects. Again, the transfer of the calculated payrolls to the Concise Declaration can be performed easily on the system. Integration of Fixed Assets module is possible in debit transactions.

Registration cards and CV bank applications within the scope of Personnel Management work integrated with the Document Management module and the relevant documents can be followed in the system. In addition, it is possible to manage business processes in applications with the Business Process Management module.

Features

Overview

- // Organization Management
- // Personnel Management
- // Recruitment Payroll Management
- // Report Wizard

Self Service Management

The caniasERP Self Service Management (SSM) module is designed for employees and managers to use transaction such as personnel data, payrolls, leaves, installment debts, advances, overtime, performance result display, training requests, training exams and surveys, project applications under a compact service. Which rights can be used depending on the transaction to be used can also be managed by a separate transaction.

SELF SERVICE RIGHTS

Self-Service authorizations can be set based on the self-service transaction to be used for the employee or manager and according to the desired transactions. Authorizations can be made separately based on the transaction and process for the employee's administrative manager, technical manager, project manager or reporting manager.

- // Payrolls
- // Training Requests
- // Training Exam and Survey
- // Open Position Application
- // Performance Result Display / Manager Target Entry Screen
- // Staff Notifications

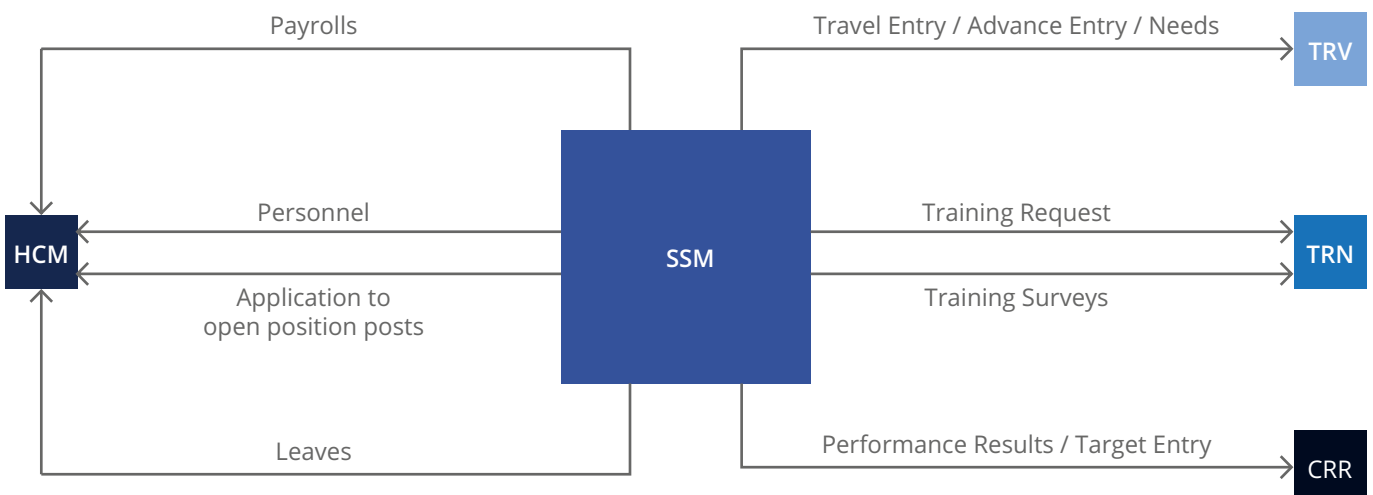
SELF SERVICE TRANSACTIONS

The Self-Service Management module includes human resources transaction that allow the employee to perform their own operations on the system by themselves or by their manager. The list of self-service transaction in the module is as follows.

- // Registry Records
- // Shifts
- // Additional Payments and Deductions
- // Leaves
- // Advances
- // Installment Loans

Most of the transactions in the list can be used as "Employee Self Service" and "Manager Self Service". Some transactions, on the other hand, can only be used as Employee Self Service since they do not have administrator self-service feature. (Open Position Application, Personnel Notifications, etc.)

Considering the intensity of human resources users in companies, it is important for the sustainability of the daily work of the human resources department that the personnel or the manager can perform operations such as entering the leaves on the system, getting the payroll output, and entering training requests. With the Self-Service Management module, all of these processes can be easily managed.



Img. 35. Integration of SSM-Module in the System

Training Management

caniasERP Training Management (TRN) module includes training definitions, training requests, training records and transactions for tracking certificates. Training contents can be prepared and printed through the system. With the integration of the Survey Management transactions, exams and surveys can be prepared and done through the system. With the Training Management Cockpit transaction, visual reports can be followed and training plans can be made.

TRAINING DEFINITIONS

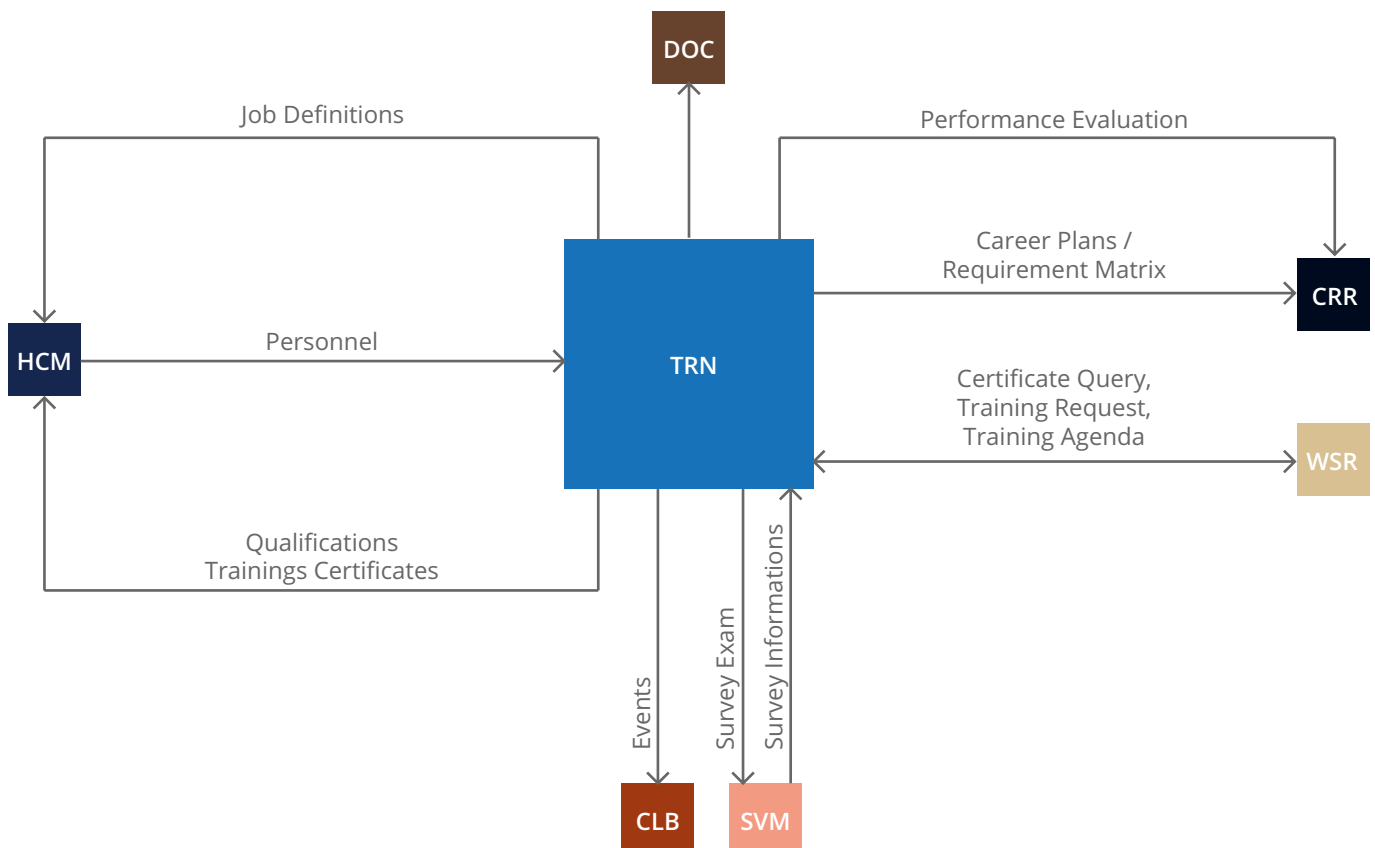
Necessary materials, qualifications to be developed, the company providing the training, the training that should be taken with priority, the certificates to be earned, training costs, passing grades and training documents can be followed through the training definitions. Training dates planned for the training calendar can be saved. Educational content can be prepared and printed with rich content. Information on training places, such as capacity, company, material, cost, address etc. can be defined to include information and can be associated with places appropriate for the training. In the trainer definitions, cost information and training information that the instructor can give can be defined, the trainings given before by the trainer can be tracked.

TRAINING REQUEST MANAGEMENT

Training requests can be entered from the Request transaction and the Self-service transaction, or can be created via web service. The collected requests are selected from the most recent requests and enable the participant transfer to the training record. Training participants can be internal participants (staff data) or external participants (address book data). In the trainings that need to be taken periodically, the participants that have been taken before and are approaching the date can also be added to the relevant training record.

RECORDS

Training records can be created to include training description, location, and instructor information. The planned and actual costs can be calculated using training needs, instructor, and training location costs.



Img. 36. Integration of TRN-Module in the System

Participants' participation in training, exam participation, exam result information and comments can be kept in the system. Participants' qualifications developed with the relevant training can be updated in the registration card. In addition, educational documents can be kept on the transaction. Various outputs related to the planned training (participant list, training timeline, training content, detailed participant output, etc.) can be prepared, participation details can be sent to the participants by e-mail.

SURVEY / EXAM

Training surveys, questions and answers can be recorded in the system to be used in training. Through possible integration with the Survey Management module, the training or exams can be applied through the system. After the training, surveys or exams can be filled in from Self-service transaction or answers can be entered into the system by another user.

CERTIFICATES

Participation and expertise certificates can be followed from the certificate application. For the participant who has participated in the training and is entitled to receive a certificate, a certificate of participation can be created through the training record or manual entry can be provided for both types of certificates from the certificate application. Output can be prepared with the design specified in the certificate definitions. Certificates can also be followed from the registry card.

INTEGRATION

Through Survey Management module integration, surveys or exams can be created in the relevant survey transaction and can be done on Self-service. If requests are collected from outside sources, it is possible to transfer training requests from outside to the system with the help of the prepared web service. There are ready to use web service codes in order to use contents of training definitions, training texts and training plan outside of the company. Training definitions and training records transactions work integrated with the Document Management module and the relevant documents can be followed in the system. In addition, it is possible to manage business processes in transactions with the Business Process Management module.

Features

Overview

- // Training Definitions
- // Demand Management
- // Training Records
- // Survey / Exam Integration
- // Certificate Tracking

#NEXT

Travel Management

The caniasERP Travel Management (TRV) module allows employees to record their travel plans, travel advances, travel expenses, other travel-related needs requests (vehicle, computer, etc.) and company phone line requests, as well as tracking planned and actual expenditure costs.

TRAVEL REQUESTS

It is possible to enter travel planning in advance by entering information such as start and end dates, destination country, city, project information, round trip transportation information, hotel, ticket, passport etc., on travel requests. In the travel record, related vehicle requests, other travel needs, travel-related advance records can also be recorded, and travels can be tracked with status. Additionally, evaluation questions can be followed for the return of the trip. For the planned business advance records entered

in the travel details, an advance request record can be created quickly with the Travel Advance Request process.

ADVANCE REQUESTS

With the Advance Request transaction, it is possible for employees to request advances for their business over the system in defined cost types. In the business advance definitions, business advance limits can be defined on the basis of expense type, country, duty

and date ranges, and the advance amounts requested by employees can be controlled according to these limits. The demand status can be followed from the job advance status field. The business advance request can be created in relation to travel or can be created independently from each other. Employees can enter their job advance requests from the self-service transaction, and for these advance requests, they can make multiple expense entries related to the job advances afterwards. Realized expenditure amounts on the expense entry screen can be followed on the related business advance detail screen after entry.

VEHICLE REQUESTS

Vehicle Requests application consists of two parts: Vehicle Base Data and Vehicle Requests. In the Vehicle Base Data section, basic information such as license plate, brand, model, kilometer start, kilometer end, and kilometer usage for company pool vehicles are recorded. In the details of the basic data of the vehicle, who, between what dates, have used the relevant vehicle from the past to this day and what the usage information is can be displayed. With the Vehicle Requests transaction, a vehicle request can be entered on behalf of the employee by another employee or the relevant user. The requests can be evaluated and the Reserve can be made by the authorized person for suitable vehicles in the pool. In vehicle delivery operations, mileage information can be processed, and when the vehicle is returned, it can be returned to the pool.

COMPANY PHONE LINES

Company lines are recorded by entering the phone number information. When company lines are in continuous use, they can be directly associated with the employee, or they can be assigned to the date ranges entered to employees with line requests. In line detail, the data of which personnel have the lines that are in use and who used which line before can be accessed.

OTHER TRAVEL REQUESTS

In the Other Requests transaction, for certain date intervals, in case the employee requests fixed assets, computer, phone, projection etc. materials can be associated with the request. According to this information, appropriate associations for use can be made over the system.

SELF-SERVICE TRANSACTIONS

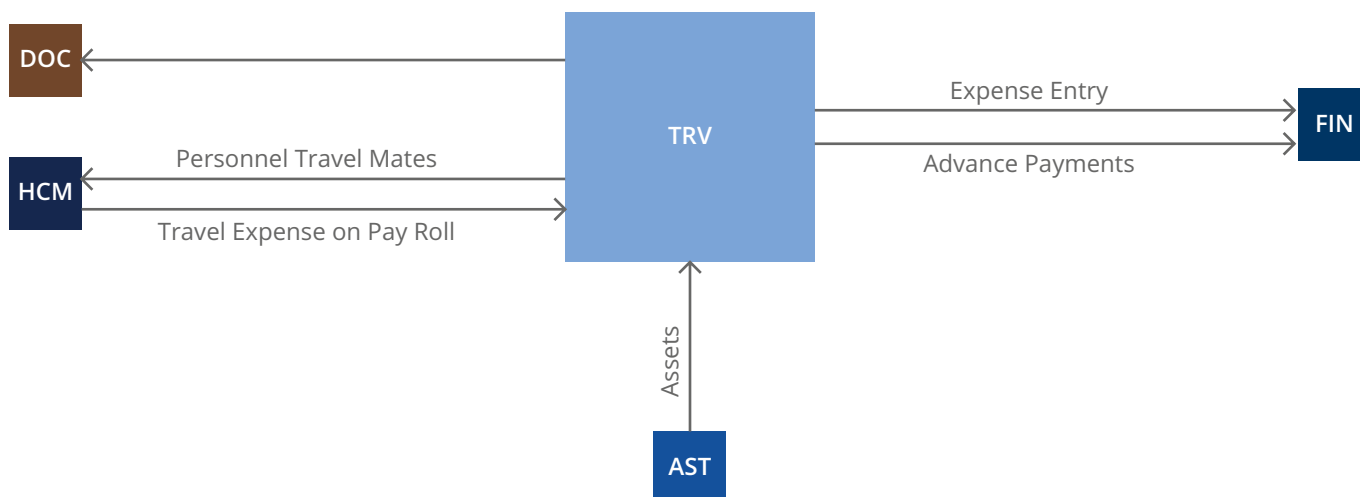
In line with travel practices, there are self-service transactions where employees can enter and follow their own records. While all records are listed on the Travel Management screen, in self-service transactions, the user can only list their own requests. Related transactions can be listed as My Travels, My Advance Requests, My Expense Documents, My Vehicle Requests, and My Other Requests.

TRAVEL REPORTS

- // **Who is Where:** Reports where the employees are on the given date, incl. their travel colleagues.
- // **Recent Travels:** Option to prepare travel reports between two recent dates.
- // **Travel Report:** Reports the answers to the evaluation questions within the travel request.

INTEGRATION

Travel Management transactions have integration with Finance Management module transaction at several points of the processes. Accounting records can be created with financial integration while paying the employee with the Pay Employees transaction over the business advance. The expense transaction redirects to the expense tracking screen of the Finance Management. Expense entries and previously entered expense records can be followed on this screen. Records created with the create multiple expense option from the Advance Requests transaction are the



Img. 37. Integration of TRV-Module in the System

expense records created in relation to the advance request. Independent expense records can also be created from the expense entry screen. After the advance expense entries are made, the Inquire Finance Status transaction can be used on the Advance Requests management screen, and the balance closing transaction can be performed with the help of return or payment registration keys. By making relevant definitions, it is possible to automatically transfer the per diem amounts calculated from the day value on the trip to the payrolls. In the per diem account, per diem allowance groups can be defined on the basis of country and currency, and daily per diem limit and exemption amounts can be determined. In addition to these integrations, it is possible to manage business processes for Travel Requests or Advance Requests with the Business Process Management module.

Features

Overview

- // Travel Requests
- // Advance Requests
- // Vehicle Management (Vehicle Base Data / Vehicle Requests)
- // Company Phone Lines (Phone Lines / Phone Line Requests)
- // Other Travel Requests
- // Travel Reports
- // Expense Integration
- // Payroll Integration
- // Accounting Integration

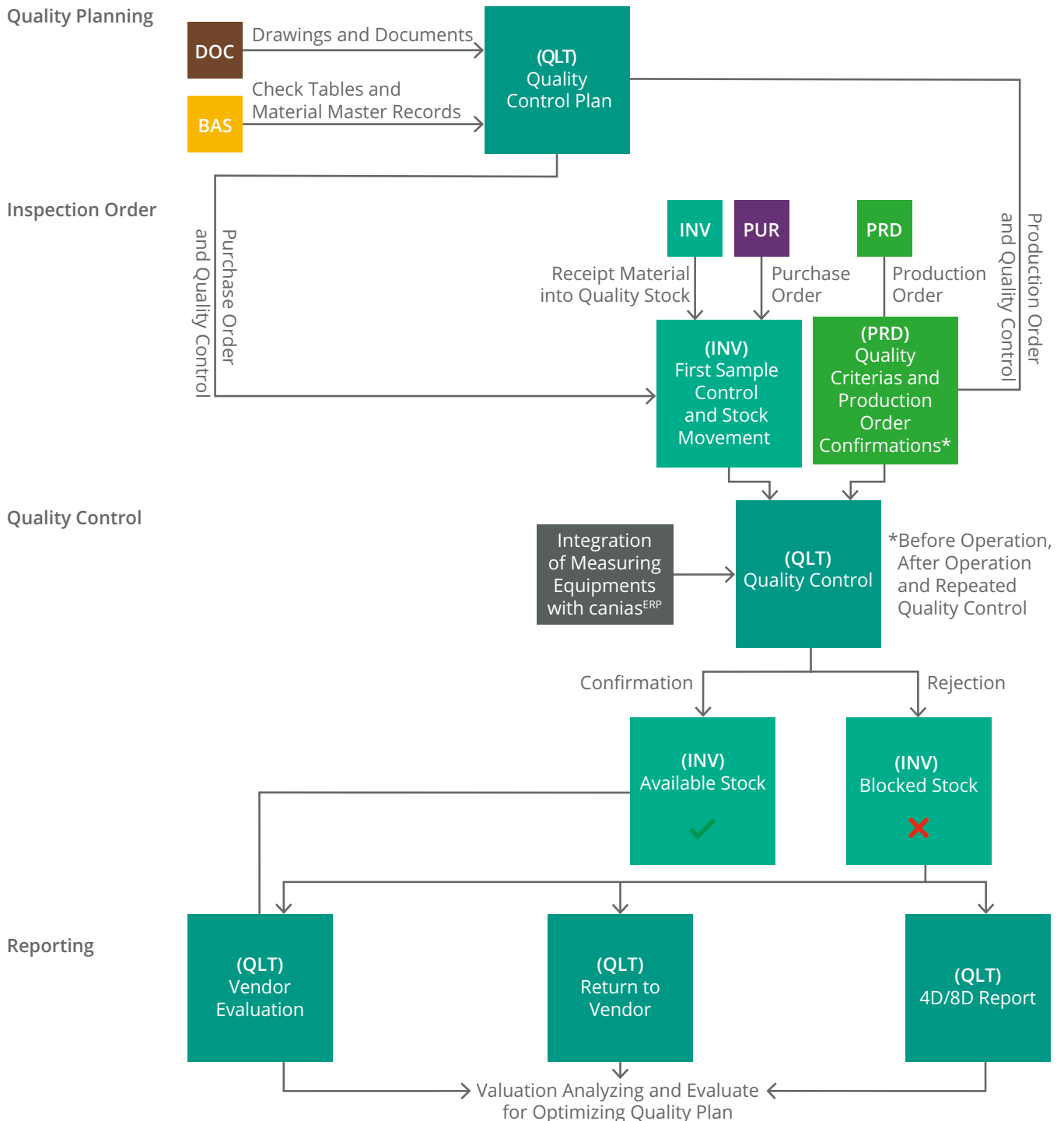
LOG

Logistics

Module Group

Quality Management

Quality Management (QLT) module is used to manage the process of identifying and solving the quality problems that companies face during the purchasing and manufacturing processes. Users can create a detailed control plan for each material purchased or produced by the Quality Management module and perform the quality control process for all specified criteria. Control plans can be defined for work centers and periodical checks can be made accordingly. In addition, various reports can be prepared on the module according to the control results in order to prevent any errors.



Img. 38. Integration of QLT-Module in the System

QUALITY CONTROL PLANNING

The control tables in the module allow companies to centrally manage the data obtained during the quality control process. The control method, control characteristics, control degrees, dynamic changes, and error categories contained in the system can record the data obtained before confirmation or during a process. In addition, the quality assurance-related material information transferred to quality planning is managed in the material master data.

CONTROL PROCESS

In the Quality Management module, the purchase-based control process is triggered by the material stock receipt. Quality control records taken from the quality plans and material base data during the inventory receipt are determined by the approval of the material. Materials that are not approved by the quality control process are kept separately in the Inventory Management module, and generally cannot be issued for different processes (e.g. production, sales, etc.) in the caniasERP modules.

Furthermore, the controls of the production processes can be defined as controls before or after production, or as periodic operations controls. In addition to the material quality control, the performance values of the operations performed in the work centers can also be recorded by being subject to measurements.

QUALITY CONTROL

In the Quality Management module, the type and frequency of control are managed by the control panel. Information on the necessity of the control is obtained from basic data on quality assurance, which is recorded in material master data. Several control characteristics can be assigned to control plans by experts. The quality control process of a material can be planned with control characteristics. In addition, a quality control process can be initiated and managed with dynamic configurations to ensure quality control on order or batch basis. In addition, sample levels can be determined according to the results of past control over the system. The final stock status of the material in the quality stock due to purchase is determined at the end of the control process. The materials whose quality results are accepted are put into the available stock state. The materials whose results are not accepted are transferred to the blocked stock in the inventory management, and then can be scrapped or returned to the vendor. In the process of production control, materials with accepted results are taken to the next operation or to the available stock. For the materials whose results are not accepted, a waste or reprocessing decision can be made.

CONNECTION WITH MEASUREMENT DEVICES

The module provides successful integration with

technically available measuring devices. During the control process, both qualifier (Yes or No) and variable (Measurement Values) results can be recorded using a connected measuring tool. With the measuring device, the control characteristics determined for the material are measured and recorded in the system in real-time.

DATA REPORTING AND ANALYSIS

Quality Management module allows the reporting of measured values and many associated data during quality control. Many reports and graphics in the standard quality control systems are available. In addition, 'Regulatory Activities' can be defined after the measurement values, '4D / 8D', 'FMEA', 'Nonconformity' reports can be presented and 'Error Analysis' can be performed.

Finally, 'Vendor Assessment Analysis' can be performed by combining the quality control results with the purchase order and invoice data.

INTEGRATION

All caniasERP modules are fully integrated into the overall system. Since all data is managed centrally, control data is provided in the quality control screen that opens automatically during material receipt with the Inventory Management module. As a result of the integration with the Production Management module, the control data of the product and the work center can be created at the pre-production or post-production approval stage or during production. In addition, with the integration of the Document Management module in the quality processes, it is possible to access the relevant documents. With integration to Purchase Management and Invoice Control modules, 'Vendor Evaluation Analysis' can be done.

Features

Overview

- // Centralized quality plans
- // Material quality control
- // Production Process Control
- // Work Center Performance Analysis
- // Dynamic sample plans (ISO 2859-1 / DIN 40080)
- // Detailed graphical analysis
- // 4D / 8D reports
- // FMEA, CAPA documents
- // Vendor evaluation analysis
- // Measurement device integration

Service Management

The caniasERP Service Management (SRV) module is used to create all information related to the service status in order to be put into use based on need. While working successfully integrated with other modules of caniasERP, this module enables companies to solve all the transactions they perform in their service-related processes in a practical way. All service tasks related to the services are instantly displayed on the screens of the users through the Collaborator module. Many transactions such as inventory-related inventory movement, purchase, invoicing, service order creation can be done quickly without error. Installation, Disassembly, Revision, Repair, Service Notices, Periodic Service Planning, Service Agreements, and Service Invoice Approvals are performed through the Service Management module. Customers can also use this module to process or report a fault. Interactive checklists and surveys can also be created via this module.

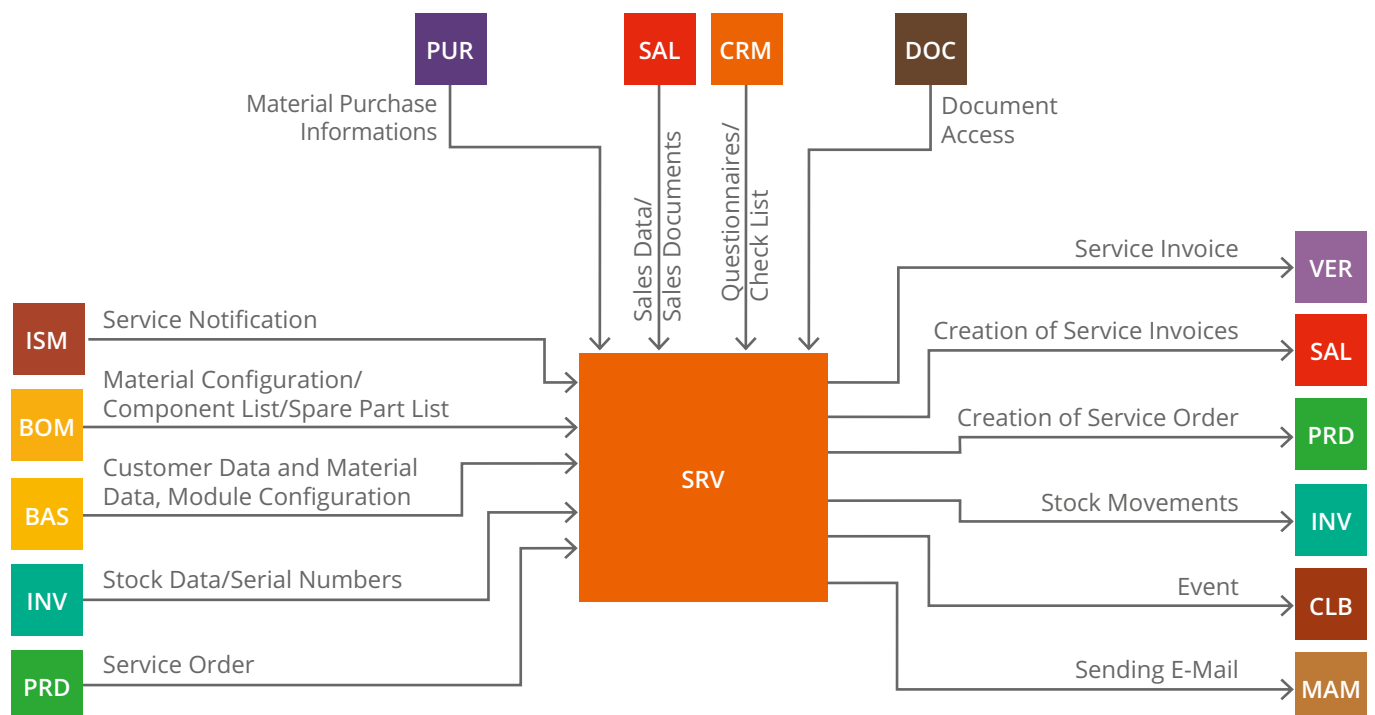
ON-SITE SERVICE

With the general technological infrastructure of the caniasERP software and the Service Management module, companies can easily provide on-site service to their customers. Employees can access the application from anywhere or any area of use, access customer-specific information through serial numbers, and record service-related data, such as spare parts and material consumption. The module also allows protocols to be created for the services provided and the invoices to be arranged during service. Also, it is possible to assemble and disassemble according to the serial number for devices, machines, and fixtures in the module.

ASSESSMENTS AND ANALYSES

The configuration of the Service Management mod-

ule provides a wide range of categorization options to service personnel. Various base data such as project affiliations, departments, employees, priorities, service groups, or notification types can be the basis for categorization. Service types such as assembly, disassembly, revision, and repair can be detailed according to problem sources and solution types. Additionally, many invoice approval statuses, such as Waiting for Approval, Approved, Disapproved, or No Invoice is determined by the system based on the type of service, service division, and the type of charge. Payments to be received from customers can be entered according to the pricing types. Companies can use all of these data recorded in their databases for the realization of assessments and better planning of future service activities. Thus, returns can be analyzed for reasons of error and necessary control measures can be taken on time.



Img. 39. Integration of SRV-Module in the System

In addition to service status and service date, the service history also provides an overview of what the employee is working on which service status. As all purchase and valuation information is recorded for each material used, it is also possible to make a costing of service statuses. Thus, the direct examination can be made using the existing data set, and the developments in the sales revenues related to the service area can be followed. Useful information is available through analysis of material supplies, fault and repair times, and tracking for serial numbered products. The system transmits open, uninitialized, unassigned service notifications to the responsible personnel in the service department via the work status diagram. The system transmits open, uninitialized, unassigned service notifications to the responsible personnel in the service department via the working status diagram. Live service information such as open service notification, open services needed to be completed, customer-side montage, open services that target start time exceeded, unresolved services that target closure time exceeded, services not yet assigned, can be accessed on a diagram.

The serial numbers with the customer and in the stock can be listed according to the assembly or status. The receipt and issue of the assembled and dismantled parts can be done either automatically or manually. Material service data such as vendor and customer warranty periods and periodic services to be performed can be defined. Also, the margin of error can be reduced to zero with this module; If users perform a receipt or issue operation with the wrong serial number, the system will block the operation.

VENDOR INCLUSION

In the Service Management module, vendors can be defined as external service departments, and they can be included as a service provider. If requested, these external partners may also be granted limited access to the caniasERP system. Thus, the maintenance of the data can be performed without temporal delays. It is also possible to manage the vendor-specific external warehouses and incoming invoices via this module.

INTEGRATION

All caniasERP modules are fully integrated into the overall system. Since all data is centrally managed, ongoing warranties, data on active and past services, or serial numbers sold and purchased can be accessed from the vendor and customer dataset. In the event of a service incident at the customer, if the component needs to be dismantled or assembled, these can be directly transferred to a service order processed through the Production Management module. Information such as maintenance, BOMs, and work plans required for this can be called from the Bill of Material Management and Routing Management modules.

During the creation of service invoices, all sales information can be queried due to the integrated structure of Service Management with the Sales Management module. During this process, information such as address and contact information, active price lists, framework contracts, special discounts, and payment terms are available centrally. The serial number management in the Service Management module allows users to access all data related to a serial number in a comprehensive manner. Sales offer documents may also be created in relation to the product/material being serviced with service notices. Depending on the service types, email groups can be defined, and through the integration with the Collaborator module, batch mail sending, or task activity identification can be made for delayed services. Depending on the features of the product, many modules such as Inventory Management, Purchase Management, Sales Management, and Service Management module can be operated together.

Features

Overview

- // Creating and maintaining service data in product master data
- // Creating service notifications and tracking the ongoing ones
- // Period service offers
- // Editing due and open service notifications
- // Creating and editing assembly orders
- // Serial number management
- // Creating service orders
- // Group service notifications by priority
- // Creating dynamic notification methods
- // Creating service agreements
- // On-site service
(online service notifications)
- // Creating mail groups by type of service
- // Creating service invoices, checklists, and surveys
- // Creating linked service notifications
- // Including vendors
- // Creating a history of warranty-related products
- // History management for all service cases
- // Evaluations and analysis (Sales revenue, costs, repair times, etc.)
- // Complete integration into the overall system

Sub-Groups of Logistics

CUM

Customer Management

Sub-Group

Opportunity Management

caniasERP Opportunity Management (OPM) module is used to track and report opportunities for customer acquisition through the system. Thanks to this module, sales opportunities that may arise and all steps to be taken to realize these opportunities can be systematically managed. With the caniasERP Opportunity Management module, the opportunities tracked can be reported in various ways and analyzed using different analysis methods. In addition, thanks to this module, the anticipated return of the offer to be presented to the customer can be monitored when success is achieved as a result of the closing of the opportunity.

TENDER OPPORTUNITIES

The caniasERP Opportunity Management module (OPM) offers the opportunity to manage bidding opportunities, another opportunity of customer acquisition, as well as tracking sales opportunities. With this method, open tenders, bargain tenders, tenders between certain bidders and closed envelope auctions can be associated and managed with customers. Along with all the necessary detailed information about a tender, the actions taken for this tender, the tender rivals and the materials subject to the tender can be easily followed on the module.

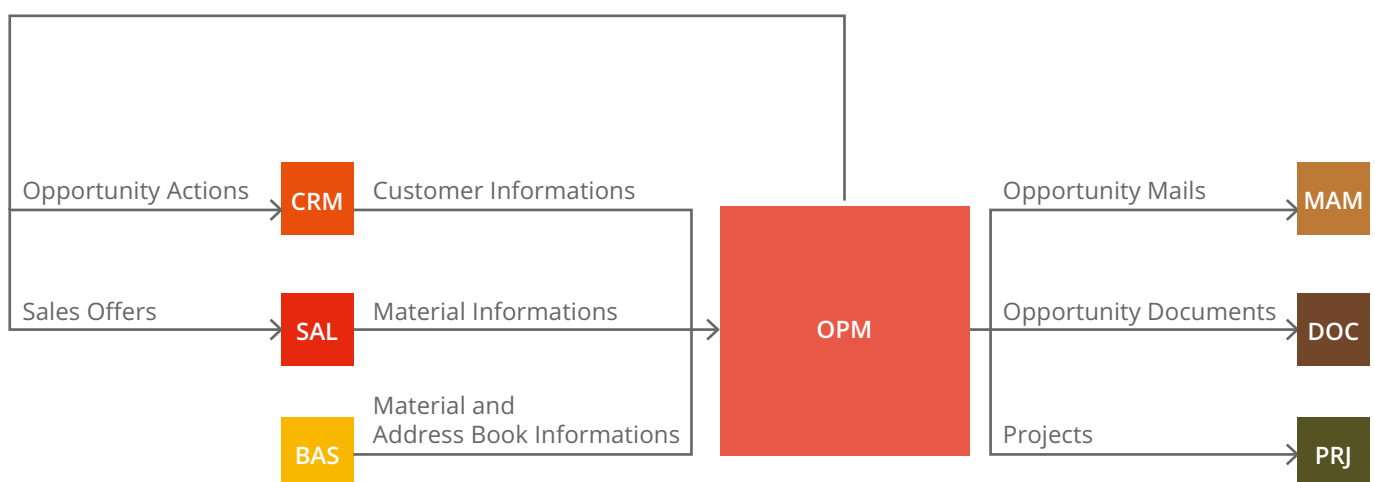
OPERATIONAL STRUCTURE

All opportunities managed in the caniasERP Opportunity Management module (OPM) can be associated with a specific product hierarchy, campaign or project. If there is a sales department that manages and tracks an opportunity, the opportunity can be assigned to a specific department through the module. Thanks to this module, the suppliers who are in contact with the customer who are the subject of the opportunity, and their expected earning amounts can

be followed as they win the customer. Similarly, the products for which the opportunity will be realized can be followed through the module. By categorizing opportunity types in the caniasERP Opportunity Management module, the steps to be taken to seize the opportunity under the relevant category can be standardized and these standard steps can be easily used in many opportunities. At the same time, date constraints and costs of these steps can be tracked. In addition, thanks to this module, all sales and purchase offers associated with an opportunity can be followed. With the help of the Opportunity Multiple Report transaction under the module, opportunities in the system can be reported by using internal query method by determining many different group criteria.

INTEGRATION

All opportunities registered in the system are analyzed graphically by pipeline analysis and open / won / lost analysis methods using the Salesperson Console through the Customer Relationship Management (CRM) module integration. In addition, the relevant contact information of the customer that is



Img. 40. Integration of OPM-Module in the System

the subject of the opportunity is also monitored in the opportunity management module thanks to the integration of the Customer Relations Management module. Thanks to cross integration, changes made on the relevant person in the opportunity management module are also transferred to the Customer Relations Management module. Likewise, the opportunities in the Opportunity Management module in the Customer Relationship Management module can be followed under the opportunities of the relevant customer. In addition to these, the actions to be taken for the customer subject to the opportunity are transferred to the Customer Relations Management module. Thanks to the Document Management (DOC) integration, documents related to the opportunity can be added and these added documents can be monitored under the Document management module.

Features

Overview

- // Competitor Tracking
- // Tender Opportunities Management
- // Action Management
- // Document Management
- // Customer relations management
- // Offer Tracking
- // Anticipated Offer Return
- // Campaign Relationship
- // Project Relationship

#NEXT

Survey Management

The caniasERP Survey Management (SVM) module allows customer surveys to be conducted both manually and through electronic systems. Thus, all the survey forms can be created in the system. Alternative ways of answering and different weighting criteria can be defined, and open-ended questions can be added and edited. Customer surveys can be assigned, applied and evaluated for specific participants. The analysis of the answers can also be displayed graphically. In addition, results regarding customers can be obtained by establishing a connection with address data.

CREATE A SURVEY

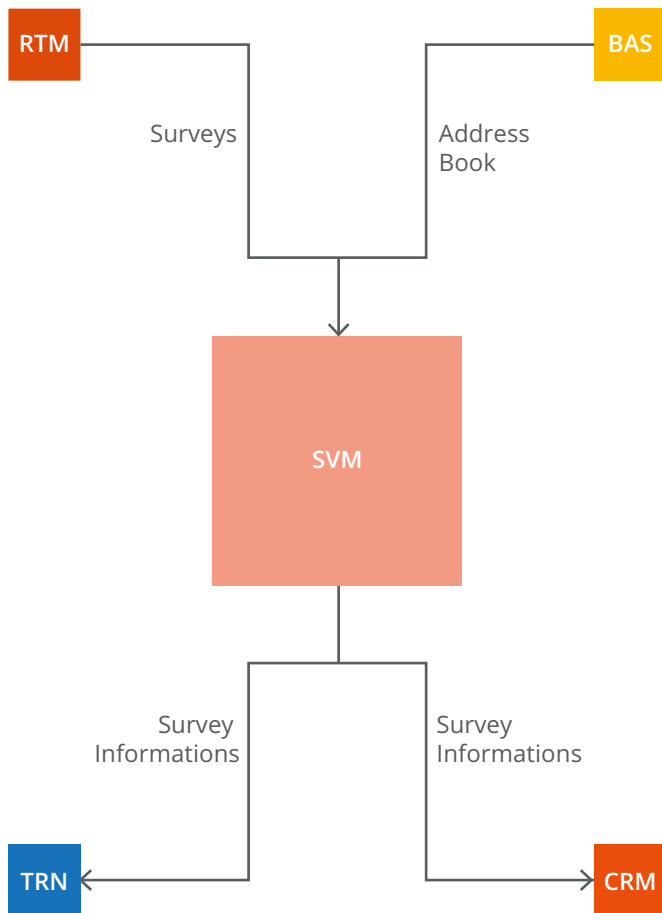
With this transaction included in the Survey Management module, surveys can be created in page and question structure. It is possible to determine whether these fields will be visible in the survey output by adding the survey title and logo to the survey. The start and end time of the survey and the maximum number of people to answer the survey can be added. It is possible to set whether the survey can be answered by the same person only once or multiple times. If the survey questions are entered as a score, it is possible to show the total score of the survey. Language options are available for the survey and the surveys can be translated into different languages after they are created.

Any number of pages and any number of questions can be added to each page. Page skip conditions can be added. Single selection, multiple choice, open-ended question types can be added to the questionnaire, and answers can be displayed horizontally or vertically. If it is necessary to answer the questions, it can be ensured that the participants cannot continue

without answering the question. If the answers to the questions are not sufficient, the participants can be provided to write their own answer with the 'other' option. Quick options feature can be used for standard answers such as Yes / No, Days of the Week, Positive / Negative.

SURVEY TRANSACTION AND ANALYSIS

With this transaction included in the survey management module, survey questions can be answered and the answers given can be analyzed. Survey results can be analyzed by questions or by users. Information about the total respondents of the questionnaire is also included in the analysis. The responses given by the participants according to the options for each survey question can be displayed both graphically and as a percentage.



Features

Overview

- // Multiple Language Support
- // Multiple Answer Options
- // Maximum Number of Replies Setting
- // Title and Logo Visibility Setting in the Survey Output
- // Skip Page Options
- // Survey Total Score Display
- // Single Horizontal and Vertical, Multiple Horizontal and Vertical, Open-ended Question Types
- // Answer Requirement Setting
- // Entering Own Responses with the Other Option
- // Add Quick Selection Feature
- // Graphical representation of survey responses
- // Survey total response numbers analysis
- // Percentage and graphical display of participant responses according to question options
- // Analysis of results according to users

Img. 41. Integration of SVM-Module in the System

#NEXT

Customer Relationship Management

CRM

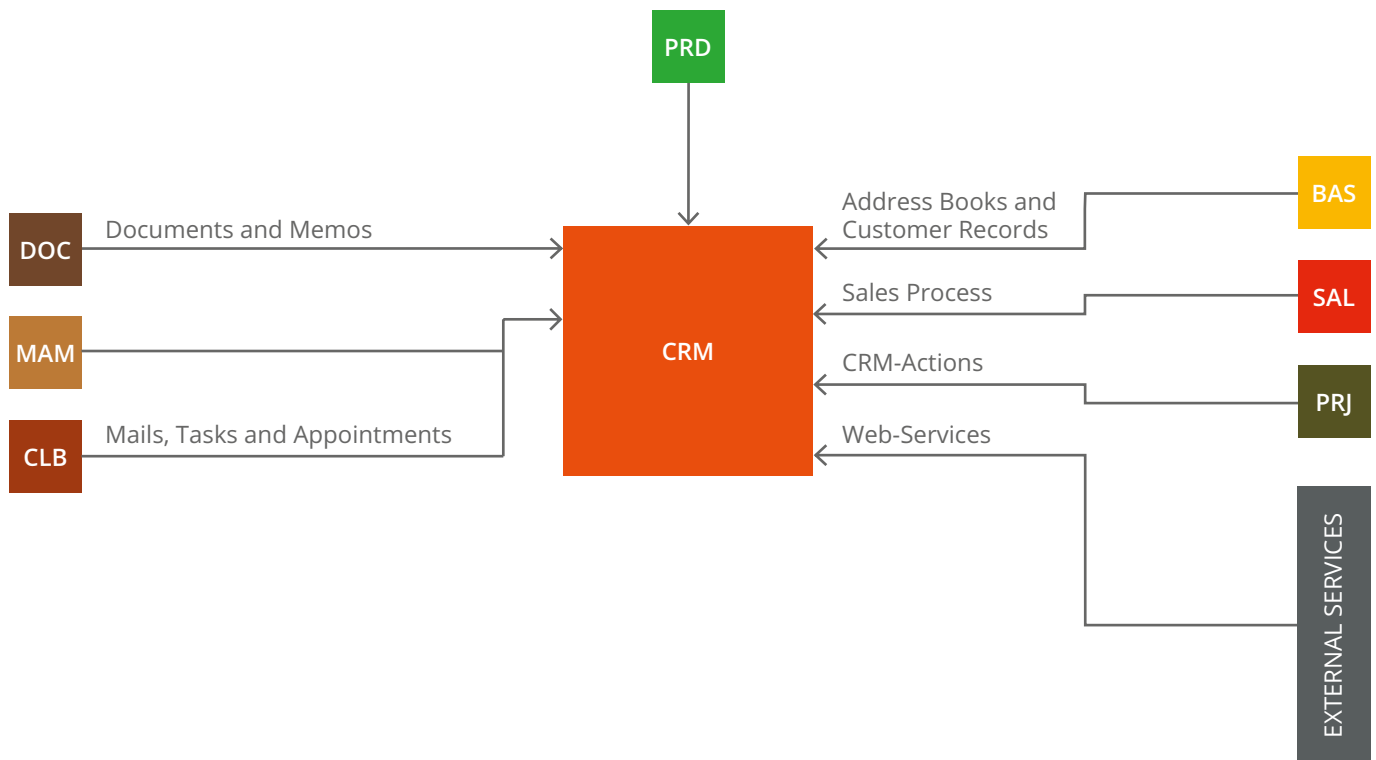
The integrated structure of the caniasERP Customer Relationship Management (CRM) module allows the relevant data obtained from all other modules in the system to be centrally kept and managed.

Thanks to the actions taken in this module, all communications with customers / vendors and potentials can be saved. Additionally, action records can be created from modules such as Opportunity Management, Issue Management, Sales Management, Collaboration Management. With the Planned Actions transaction, it is possible to define an action group and trigger all other planned actions related to this action. Main functions of the Customer Relations Management module include keeping contact infor-

mation tailored to individual needs, taking special approaches for prospective customers, and responding immediately to developments in customer relations.

NETWORK

Countless information flows into the system every day with customer data coming through communication tools such as e-mails, phone calls, faxes, letters and text messages. The data and documents created



Img. 42. Integration of CRM-Module in the System

in this way are stored centrally on the system thanks to the integration provided with all other modules. Detailed information on topics such as past transactions, contacts, addresses, relations with competitors and behavior of competitors obtained from sales, service and marketing departments can be used for strategic relationship management.

OPERATIONAL STRUCTURE

The Customer Relationship Management module supports the regulation and supervision activities in the entire sales chain, from proposals to invoices. Thanks to the integration of the address book and customer data, documents can be edited quickly and accurately and tracked completely. In addition, types such as Potential Customer / Vendor, Customer or Vendor can be created, assigned to the relevant person and all transactions made from the moment of candidacy can be followed.

MOBILE CONNECTION

The mobile transaction of the module can be used on mobile devices such as smart phones and tablet computers, which allows the creation and maintenance of relevant data while in field service. The Salesperson Console provides a quick overview of key functional areas in the module and enables more transparent management of customer relationships and the resulting responses. The ability to view all communication history independently makes the daily work of an employee in the field service extremely easy.

INTEGRATION

Since the Customer Relationship Management module works in integration with the entire ERP system, it allows companies to make better predictions about their customers, vendors and potential customer / vendors. Thanks to the history tracking, the details of all data in the system and all relevant modules (Sales Management, Purchasing Management, Accounting, Service Management, Production Management, Inventory Management etc.) can be accessed. In addition, thanks to its integration with the Collaboration Management module, events / actions can be tailored specifically to the relevant persons and customers. With the Document Management module, all documents related to customers / suppliers / prospective customers / prospective suppliers can be recorded and followed up from the system. Thanks to the shortcuts on the Salesperson Console, sales personnel can perform operations such as creating new actions or creating sales documents in the Sales Management module. Switchboard integration can also be made in order for call center employees to access records quickly and to make certain transactions and routing automatically. In addition to all these integrations, it is also possible to use the Customer Relationship Management module as an independent solution. However, the complete integration of the module into the caniasERP general system ensures a complete and integrated work between the Marketing, Call Center, Sales and Service departments.

Features

Overview

- // Flawless Integraion to caniasERP
- // Action Management
 - // Communication management
 - // Potential customer/vendor, customer and vendor
 - // Data Maintenance
 - // Communication Planning and Contact History
 - // Tele-marketing Support / Switchboard Integration Option
 - // Sending multiple mail/letter/SMS
 - // Customer Group Analysis
- // Planned Actions
- // Integration with Collaboration Management
 - // Email Client
 - // Calendar
 - // Task Manager
 - // Activity Manager
 - // Address Book Manager
 - // SMS Sender
- // Sales Campaign Management
- // Salesperson Console
- // Evaluations

#NEXT

Issue Management

The caniasERP Issue Management (ISM) module ensures that customer satisfaction and suggestions as well as customer complaints are categorized and kept in a single information pool. Thanks to this module, all complaints, suggestions and satisfaction feedbacks can be tracked and necessary actions can be taken. The "past" feature of the module provides information about the entire communication process involving the relevant customers or the contact persons.

OPERATIONAL STRUCTURE

In the Issue Management module, a document, photo and similar documents regarding the complaint, satisfaction or suggestion to be reported can be directly added to the relevant record.

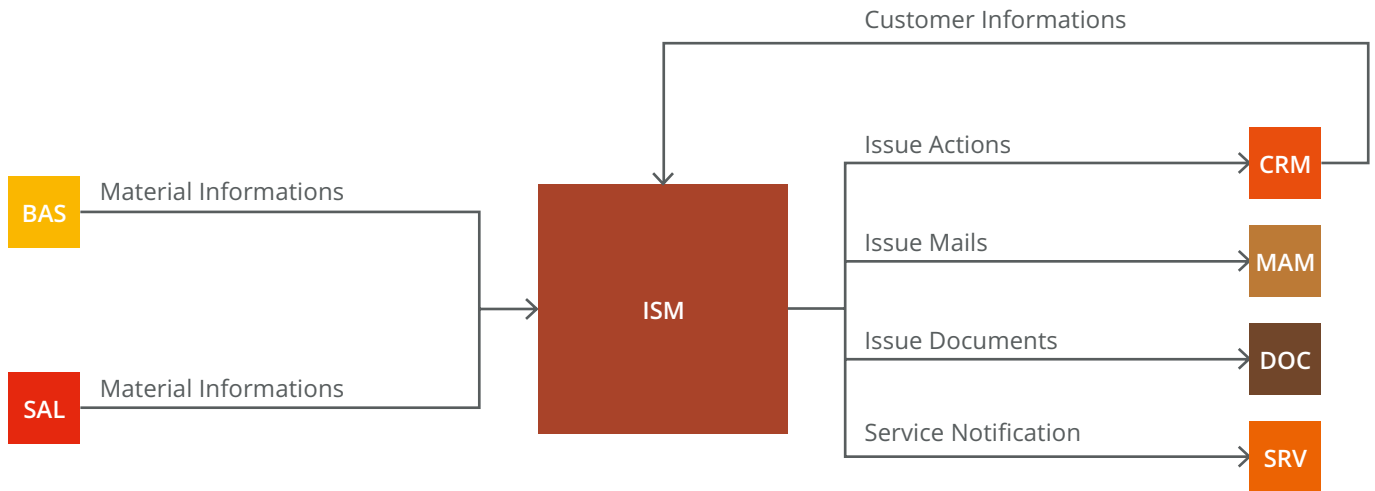
With the issue management module, if there is a material subject to the problem for which feedback is made, it is possible to specify for which material this feedback is made. While doing this, the material subject to the complaint can be selected directly, and it is also possible to associate the sales document for the customer with the complaint record. Thus, more effective results are obtained by seeing which order the complaint, suggestion or satisfaction notification is associated with. When the feedback linked to the result is resolved, the status of the record can be closed. In addition to these, as soon as the complaint records opened for a customer are created, an action record is created in the Customer Relations Manage-

ment module, either manually or automatically. Each record created is viewed under the relevant customer's action records in the Customer Relationship Management module. Such an integrated structure with the Customer Relationship Management module accelerates the resolution of problems.

In addition to these, feedback records can be opened for prospective customers as well as customers.

NETWORK

Countless information flows to the system every day with customer issues received via communication tools such as e-mails, phone calls, faxes, letters and short messages. The data and documents created in this way are stored centrally on the system thanks to the integration provided with all other modules. From sales, service and marketing departments; Past transactions, contacts, addresses, complaints and



Img. 43. Integration of ISM-Module in the System

suggestions can be used to ensure strategic relationship management and the development of this relationship.

INTEGRATION

Thanks to the Customer Relationship Management integration, feedback records are easily created for customers / prospective customers in the system and actions are taken. With the Document Management module, all documents related to the customer / potential customer can be recorded and tracked from the system. With Sales Management integration, complaint records can be directly linked to sales documents. Thanks to the Project Management module integration, a project assignment can be made for feedback records.

Features

Overview

- // Seamless integration into caniasERP
- // Action Management
- // Communication Management
 - // Potential customer/vendor, vendor and customer
 - // Planned Action
 - // Priority Definition
- // Status Control
- // Customer Based Issue Tracking

INM

Inventory Operations Management

Sub-Group

Inventory Cost Management

caniasERP Inventory Cost Management (INC) module is used to calculate the costs of inventory movements. In this module, keeping transactions such as purchasing, external operations, sales and transfer are provided by the inventory cost management module (INC) of inventory transactions. Cost values are transferred to the accounting with the integration of the Financial Accounting module in addition to providing data to the internal reports. The successful integration feature also allows the cost results to be calculated practically at period closings.

STOCK COSTING

In the Inventory Cost Management module, each inventory movement can be costed by selecting one of the cost types such as average cost, walking weighted average cost, lot / serial number based real cost, FIFO, LIFO. In addition to being used in various reports, the calculated inventory movement costs are transferred to the Financial Accounting module in a practical way and accounted.

In the Inventory Cost Management module, all amounts calculated taking into account the cost elements on the basis of inventory movements are reflected in the inventory movements they belong to.

COSTING CONTROL

In order to find the cost of inventory movements, data is taken from many modules, especially Base Data Management, Production Management, Purchase Management, Invoice Verification, Sales Management. Thanks to this accurate and complete integration data, inventory costs are determined accurately. Errors that may occur are minimized thanks to pre and post-costing control reports.

MULTIPLE ACCOUNTING STANDARD

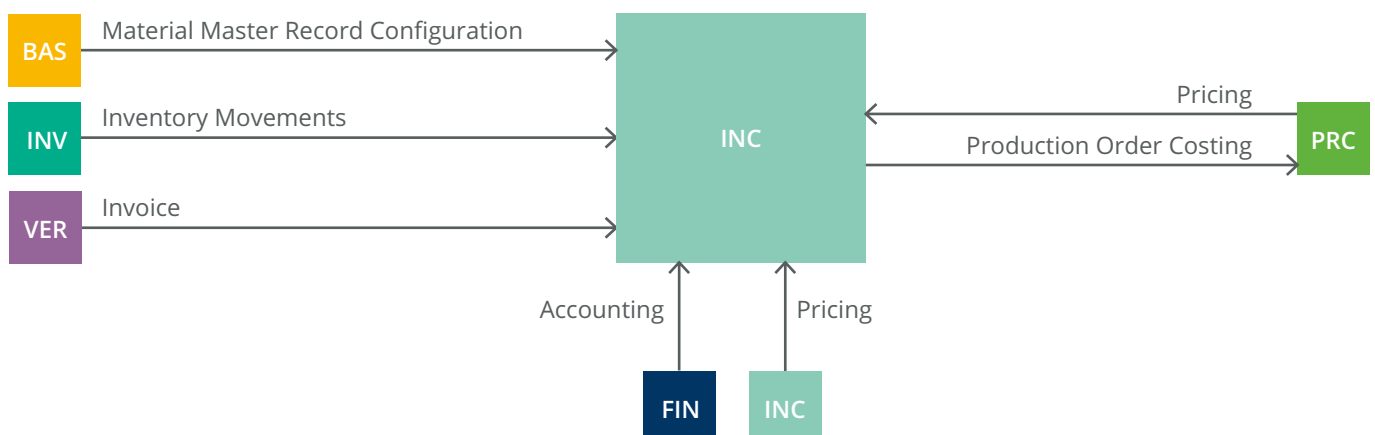
In the Inventory Cost Management module, inventory movement costs can be calculated separately for different accounting standards such as VUK, IFRS, USGAAP, and TFRS. In this way, cost results based on different accounting standards can be reported and these results can be easily compared with each other and accounted for.

COST ACCOUNTING

In the Inventory Cost Management module, the results are automatically transferred to the accounting. Reflections of accounting accounts are created and cost results are accounted for. Thus, the closing of cost accounts can be checked without adding new accounting documents.

REAL TIME COST

With the real-time cost calculation feature in the module, the costs of the inventory movements are calculated instantly over the standard or walking weighted average cost and the calculated amounts are accounted for. Thus, costs can be reported instantly. Planned and realized cost values are analyzed at the end of



Img. 44. Integration of INC-Module in the System

the month and the differences between them are distributed to inventory movements and accounted.

COST DEVIATION ANALYSIS

The deviation rate and profit / loss analysis can be performed by calculating the price of a dispatch note in the caniasERP system, the price of the invoice, the standard price and the actual cost.

COST REPORTS

The module offers users a wide range of reporting. Some of these reports are used to check the accuracy and consistency of data from other modules and to calculate inventory costs accurately. In this way, the changes that need to be completed before the inventory cost calculation can be easily determined.

In addition, using the data generated as a result of calculating the inventory cost; 'Consistent Stock Report', 'Inventory and Accounting Documents,' Stock and Accounting Comparison Report ',' Inventory Balance ',' Cost Deviation Analysis' reports are received.

These reports, which provide detailed information, are easy to understand thanks to their simple design and offer the user the freedom of practical action.

INTEGRATION

Inventory Cost Management module is integrated with the modules Inventory Management, Cost Centers Accounting and Invoice Verification.

Through the integration with these modules, it enables the generation and reporting of cost results without the need for data transfer.

Considering that cost results should be given in a limited time at period closings, this advanced integration saves users a lot of time. In addition, results can be transferred to the Financial Accounting module.

Features

Overview

- // Integration that does not allow duplicate records
- // Calculating cost of inventory transactions
- // Periodic calculation of inventory movements
- // Standard vs actual cost comparison
- // Cost deviation analysis
- // Costing and accounting of stock movements using different costing types. (Average cost, walking weighted average cost, actual cost, FIFO, LIFO)
- // Real time cost calculation
- // Ability to calculate the cost of stock movements separately for each accounting standard using different accounting standards (VUK, IFRS, USGAAP, TFRS etc.)
- // Transferring cost results to cost accounting accounts
- // Consistency check throughout the caniasERP system
- // Control of records included in cost calculation
- // Stock and accounting

#NEXT

Inventory Management

The caniasERP Inventory Management (INV) module enables companies to manage their material stocks on the basis of many dimensions such as date, quantity, value, location, lot number, status. With this module, which supports the entire supply chain from sales, purchasing, service, maintenance, production and quality-assurance, inventory movements are performed, warehouse stocks are recorded and the past and current stock status can be examined in detail.

MOVEMENT TYPES

All the inventory movements can be managed through the check tables in the Inventory Management module. Check tables can be configured based on demand with an unlimited number of options. Thus, companies can keep detailed information about each initiated inventory movement and follow developments easily.

BATCH AND SERIAL NUMBERS

With the batch and serial number tracking feature in the module, material movements can be tracked without any issues. This feature allows for trouble-free operation in processes where regular monitoring and traceability are important, such as maintenance and service-related processes or sectors with food, pharmaceuticals, and equipment.

TRANSPARENT EVALUATION

Comprehensive assessments can be done in this module to highlight important information. By using search criteria, instant, up-to-date data about warehouse stocks or warehouse movements can be monitored and categorized according to individual requirements. Additionally, classification can be made

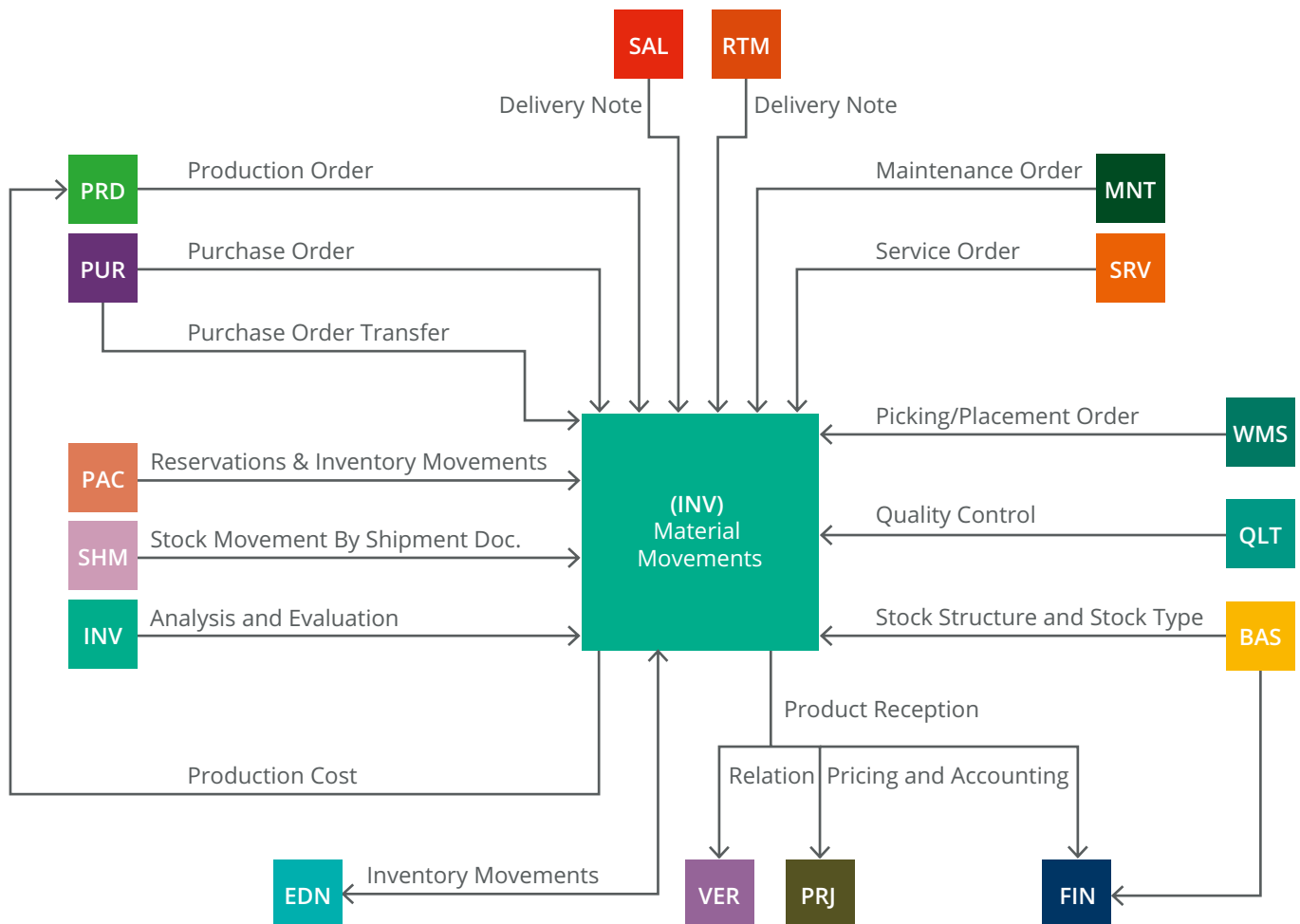
by applying ABC-D analysis according to materials, inventory turnover speed and values.

FLEXIBLE STORAGE AND MOBILE USE

The inventory management module can be used to track current inventories and stock types such as available stock, blocked stock, quality stock, reserved stock, revised stock, consignment stock, provided material stock, customer order stock can be tailored to the needs. With Warehouse Management module integration, collection/placement/ transfer operations, barcode inventory receipt/issue/counting operations and container/pallet operations can be easily performed by using mobile data input devices (MDE) or barcode readers.

RESERVATION

Records of processes such as sales delivery order, production order and transfer order, which cause the issuance of materials from inventory, are kept in the module. Simultaneous requests from different locations for the same process are prevented. In addition, different processing demands of the same product can be avoided by reservation management. Available and reserved stocks can be tracked and organized instantly.



Img. 45. Integration of INV-Module in the System

BATCH DETAIL

Viewing detailed stock information is very important in terms of determining batch strategies. With the Inventory Management module, the concept of batch policies and party details can be created in material receipt/issue/ transfer operations related to sales, purchase and production processes. In addition, the batch detail concepts can be generated based on the demand; the detailed information required on the based on the batch can be followed and the inquiry can be made according to this information. In this way, companies can review and organize all past and current records.

CONTAINER / PALLET USE

The Container Tracking System provides easier storage of the products in the logistics processes of the enterprises, and the loading and unloading processes are realized more practically. All processes related to the containers which can be produced according to the needs, can be sold, whose batch sizes can be defined, serial numbers can be defined, and maintenance processes can be followed, can be carried out with the Inventory Management module.

INTEGRATION

The functions in the Inventory Management module and the fully integrated structure of the module in the caniasERP system provide fast solutions to the needs of companies. Accordingly:

- // Access to up-to-date stock information from sales, sales returns, consignment and rental inventory transactions and sales documents associated with the waybill or delivery receipts created in the Sales Management or Retail Management module,
- // Entry, return to vendor and import inventory movements related to purchase order created in Purchase Management module,

- // Product receipt and raw material consumption inventory movements related to production orders created in the Production Management module,
- // In the Quality Management module, the inventory movements made for the approved, rejected and returned quantity during the quality control process of a material,
- // Inventory movements created during pick / place / transfer / count / container / pallet transactions in Warehouse Management module,
- // Inventory movements related to assembly and disassembly processes using product trees defined in the Bill of Materials Management module,
- // Inventory movements related to service order, revision, assembly and disassembly processes created in the Service Management module,
- // Inventory movements of the materials used in association with the failure records and maintenance orders created in the Maintenance Management module,
- // Inventory movements based on material requests between warehouse / store / plants in the Transfer Management module,
- // Providing stock information based on date to the Material Requirements Planning module,
- // Providing stock information based on date to the Material Requirements Planning module,
- // Providing quantity and cost information about materials used in production orders to the Production Cost Management module,
- // Inventory movements related to projects created in the Project Management module,
- // Accounting of material costs by transferring them to the Financial Accounting module after calculating with the information obtained from modules such as Base Data Management, Production Management, Purchasing Management, Invoice Control, Sales Management,

Features

Overview

- // The hierarchical structure for warehouse and stock places (Warehouse / stock places and warehouse / stock location addresses)
- // Lot number and serial number management
- // Use of party details and party policies
- // Container / Pallet Tracking System
- // Inventory counting and stock regulation
- // Stock movement for a future or past date
- // Warehouse records specific to inventory entries (purchase order, production order, contract order, service order, customer return), stock outputs (service order, delivery note, project, external contract order, production order, return to vendor, etc.) and inventory transfers.
- // Automatic printout after stock movement

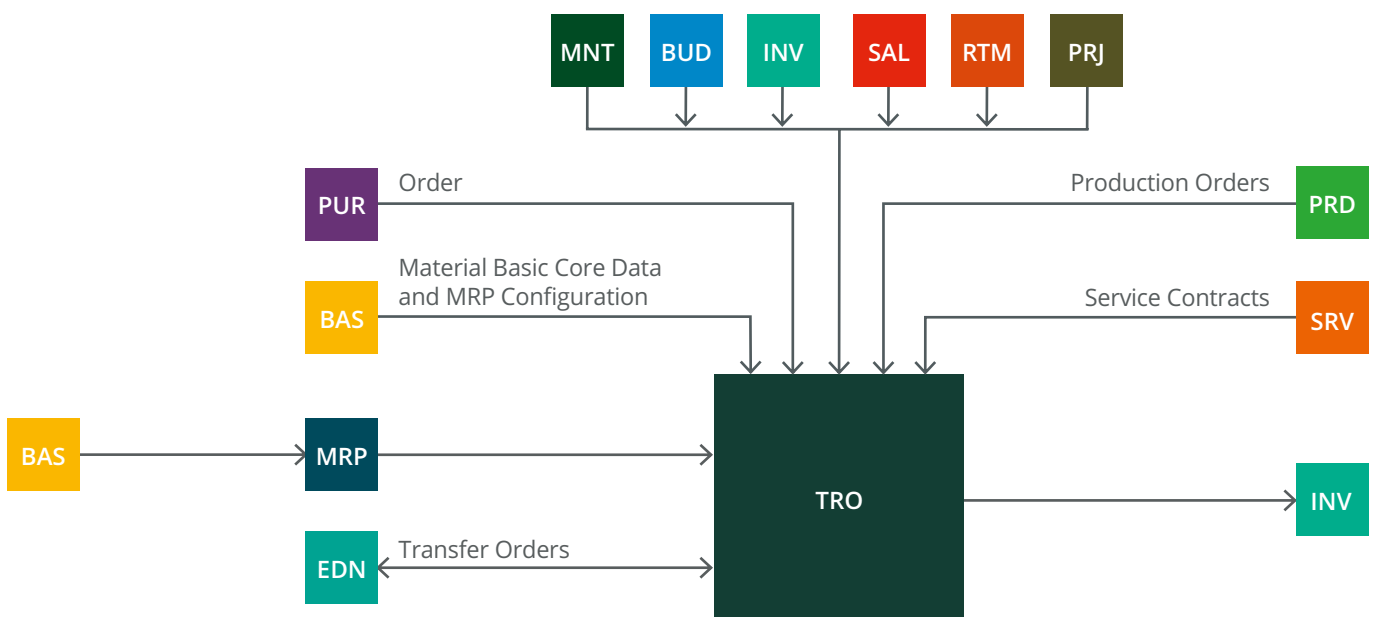
- // Inventory movements that can be made to cost centers
- // Stock types management: Available stock, blocked stock, quality stock, reserve stock, revised stock
- // The obligation of document registration for stock changes
- // Special stock types management: consignment stock, external stock, customer order inventory
- // Parallel inventory management in two measurement units
- // Option to have negative stock in the warehouse / stock place

- // Authorization based on user or user groups
- // User-based shortcuts
- // Free configuration for inventory movements
- // Transfer of material to material
- // Batch stock movement
- // Assembly/disassembly movement
- // ABC-D analysis
- // Safety stock control Inventory Turnover Calculation.
- // Stock aging.
- // Printing parametric barcodes.
- // Use of tools.
- // Quantity and value-based assessments.
- // Perfect integration with all relevant modules.

#NEXT

Transfer Management

With the caniasERP Transfer Management (TRO) module, the warehouse/stores can determine the material requirements, make inventory planning, request material from other warehouses and track the orders. Use of Transfer Management module and the transfer method instead of the production for the warehouses/stores' material needs provides the enterprises with the opportunity to use their time, space, and financial resources efficiently. This module identifies the needs of the warehouses and sets out the statistics of the orders given from the warehouse in the previous years. Thus, average stock consumption time can be calculated. Considering the order quantity and delivery times, the system recommends the amount of material needed. Warehouses can request material transfer based on these needs.



Img. 46. Integration of TRO-Module in the System

FLEXIBLE DISTRIBUTION

With the Transfer Management module, transfer requests of different warehouses can be managed from a single center. Inventory management efficiency is essential here. The center evaluates all requests. One of the flexible distribution methods is selected to meet these demands, which can be "According to Demands", "Equal (Distribution)", "According to Demands Ratio."

FAST DISTRIBUTION

It is possible to see the material requirements of the production orders in the system on the fast distribution screen. The system automatically calculates the number of materials required and the number of stocks in different warehouses and enables the planning of the distribution of the materials required for production. By using this distribution structure, the materials required for production can be supplied from more than one warehouse, as well as from a single warehouse. The transfer is carried out in accordance with these requests and orders. The automatic completion of all these processes prevents the loss of time which will interfere with production.

INTEGRATION

In the Transfer Management module, inventory movements are realized through integration with the Inventory Management module. This allows current stock information to be accessed.

In addition, transfer requests and orders are included in the planning in the Material Requirements Planning

module. With the Sales Management module integration, the previous years' sales data can be analyzed, and the material needs of the warehouse/stores can be calculated. With the integration of the Production Management module, transfer requests can be opened for the materials to be used in production.

Features

Overview

- // A two-stage process consisting of request and order
- // Detailed authorization and approval mechanism
- // Flexible distribution techniques (According to Demands, Equal Distribution, According to Demands Ratio)
- // Specifying delivery time
- // Virtual warehouse feature
- // Determining the material need by taking into consideration the previous period sales
- // Transferring the necessary materials for production from one warehouse to another for fast delivery requests and orders
- // Material transfer tracking

#NEXT

Warehouse Management

The Warehouse Management (WMS) module saves companies time by automatically managing warehouse movements. With this module, which helps the user to process all material movements, companies can see an overview of all warehouse locations and warehouse locations. This makes it possible to automatically calculate the ideal source location and the most suitable target location. In case of irregular (chaotic) storage, regular structures can be created with system components; Company-specific requirements can be taken into consideration, and the time is saved when the goods enter the warehouse / withdraw from the warehouse. The integration of the module with the other modules in the system enables more efficient logistics workflows.

ORDER IN DISORGANIZED WAREHOUSES

All warehouses owned by the enterprises are created in detail in the module. The user knows precisely which materials are present in which warehouse/stock place and in what quantity. The module helps the user to make the most efficient use of all warehouse/stock places addresses and to manage material stocks in multiple warehouses/stock places.

INITIALIZATION OF STOCK MOVEMENTS

Physical stock movements in warehouses can be triggered by a document from another module in the system. The following processes can be done practically: Delivery of goods after a purchase order through the Purchase Management module (Goods receipt), delivery for a delivery note created in the Sales Management module (Goods issue), delivery of the materials required for a production order created in the Production Management module to the production supply area (Good transfer) or placing goods in the warehouse in accordance with a production order (Goods receipt).

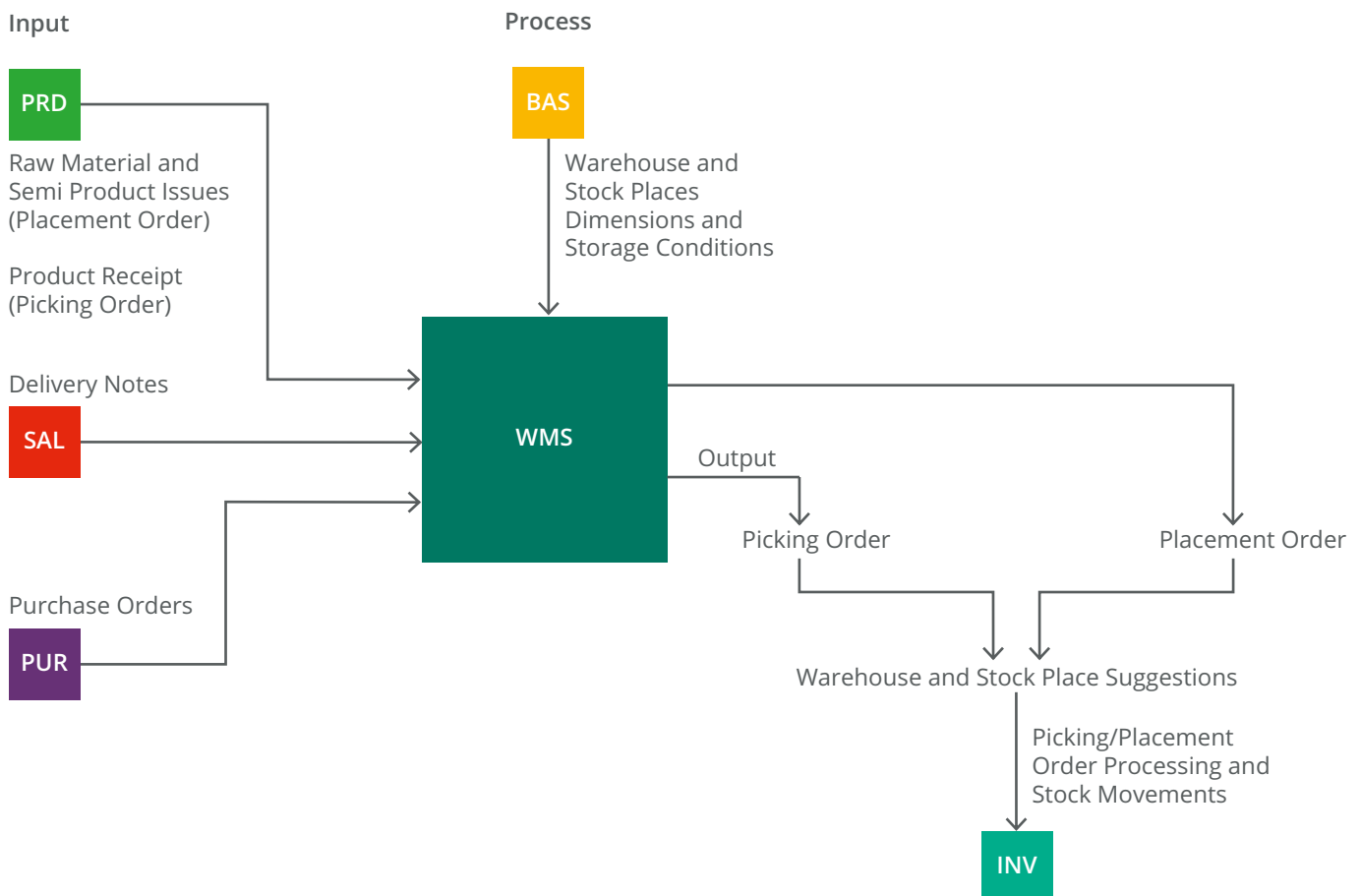
During the processing of warehouse orders, warehouse management information such as dimensions, weights, warehouse groups and condition groups in the Base Data Management module are used. The In-

ventory Management module also provides an infrastructure for known routine work on the Warehouse Management module.

AUTOMATIC WAREHOUSE ORDERS

The automation implemented in the module, in combination with the Production Management module, provide significant advantages for companies in facilitating production workflows. When a business transaction is performed, the relevant processes are activated in the Warehouse Management module. Goods receipts that follow a purchase order are first registered in the warehouse/stock place defined as the collection area. Here, the Warehouse Management module automatically generates a placement order to store the goods in a final warehouse/stock place. Thus, the goods delivered by the suppliers or manufactured within the company are guaranteed to be placed quickly and easily in the warehouse.

In the module, when customer orders are processed, and delivery notes are recorded, automatic collection orders can be created, and the goods can be moved out of the warehouse and moved to a collection area. Similarly, the collection orders initiated and the raw materials to be used in production are guaranteed to be in the right place at the right time. The system also



Img. 47. Integration of WMS-Module in the System

creates a list of recommendations based on the created placement/collection orders. This list contains a user-configurable sequence for the appropriate warehouse / stock place addresses.

PROCESSING WITH COMPREHENSIVE MEASUREMENTS

The system recommends warehouses/stock places for goods receipt and issue. Based on the criteria recorded specifically for the orders, the most suitable alternatives, with the most ideal for the storage location to be managed first, are listed. The decision on which of the suggestions on the list will be applied is at the discretion of the responsible warehouse manager. The criteria can be customized and will usually relate to the following topics:

- // Distance (Shortest distance)
- // Empty/full storage location preference for entry to or from the warehouse
- // Only one product allowance for each warehouse location
- // FIFO principle or similar methods
- // Customizations for prioritizing warehouse spaces (Configurable by the users)

In addition, warehouse related condition groups such as 'Cold Storage', 'Hazardous Substance Storage' or 'Small Parts Storage' can be created on the module. Thus, all requirements for the proper storage of special materials are fulfilled. If a collection/placement proposal is to be applied in the list, the physical goods movement is carried out by the warehouse employee and the operation is notified to the system. The notification process can be done via a fixed computer workstation or via a mobile device.

MOBILE USE

With the help of the Mobile Warehouse Management application and using mobile data entry devices (MDE), collection and placement orders can be processed independently, and the stock movements can be recorded. This data is transferred to the Inventory Management module and Warehouse Management module in real time. This feature greatly contributes to the consistency of the system. The use of barcode readers allows remote control of delivery note or purchase order numbers and allows recording of goods issue/receipt or material stock transfer. Here, the data contained in the respective barcode can be easily configured by the user. With a direct connection to the system, the status of the collection process is continuously monitored, and the available stock can be viewed whenever desired. Thus, an instant view of deliverability can be accessed. Through this solution, the user can always be active in the warehouse and can manage goods movements in a very easy way.

INTEGRATION

The Warehouse Management module is fully integrated into the system. Therefore, all data related to warehouse management is always kept up to date. Through integration with modules such as Purchase Management, Sales Management, Production Management, all physical goods movements and their associated processes are automatically initiated and processed using the information stored in the Base Data Management module. The results of the collection or placement operations are tracked through the Inventory Management module. In addition, the integrated capacity control in the module guarantees the most efficient use of all storage locations.

The module also provides information on the movement of goods, such as the upcoming sales order, the production order to be completed, and the delivery order to be completed and optimizes efficiency in the warehouse.

Features

Overview

- // The ability to observe all of the orders at any time through the receipts to the warehouse, issues from the warehouse, and transfers.
- // Storage condition (e.g. cold storage) definitions for warehouse management
- // Recommendations for warehouse addresses based on saved customizable criteria
- // Works with mobile devices
- // Capacity limitations (volume, weight, unit) consideration
- // Warehouse capacity optimization (Preventing waste at warehouse addresses)
- // Strong integration with the Inventory Management module
- // Detailed authorization and approval mechanism

Sub-Groups of Logistics

MAP

Material Planning

Sub-Group

Demand Forecasting

caniasERP Demand Forecasting (DMF) module offers different statistical prediction models in order to plan future needs change, making it an important point in the logistics chain within organizations.

With this module, a demand forecast can be created based on a company's sales figures. This forecast helps decision makers better anticipate future developments and needs and follow a roadmap accordingly. In addition to simple methods such as arithmetic averages, advanced statistical methods such as linear regression analysis and seasonal indexing can also be used in the system to determine the demand forecasting quantities. In addition, with the help of this module, the algorithms that detect and correct the errors in the data set that are the source of demand estimation allow users to predict the future in the most realistic way.

Every organization would want to predict the future in order to take the necessary measures against changing market conditions in a timely manner. Based on this need, it is possible to make plans based on future predictions with the Demand Forecasting module. It is very easy to determine the most suitable forecasting model by evaluating the historical data, make predictions of future sales data using various forecasting models, make rough capacity planning based on these predictions and take the necessary action for the organization on time.

FLEXIBLE CONFIGURATION

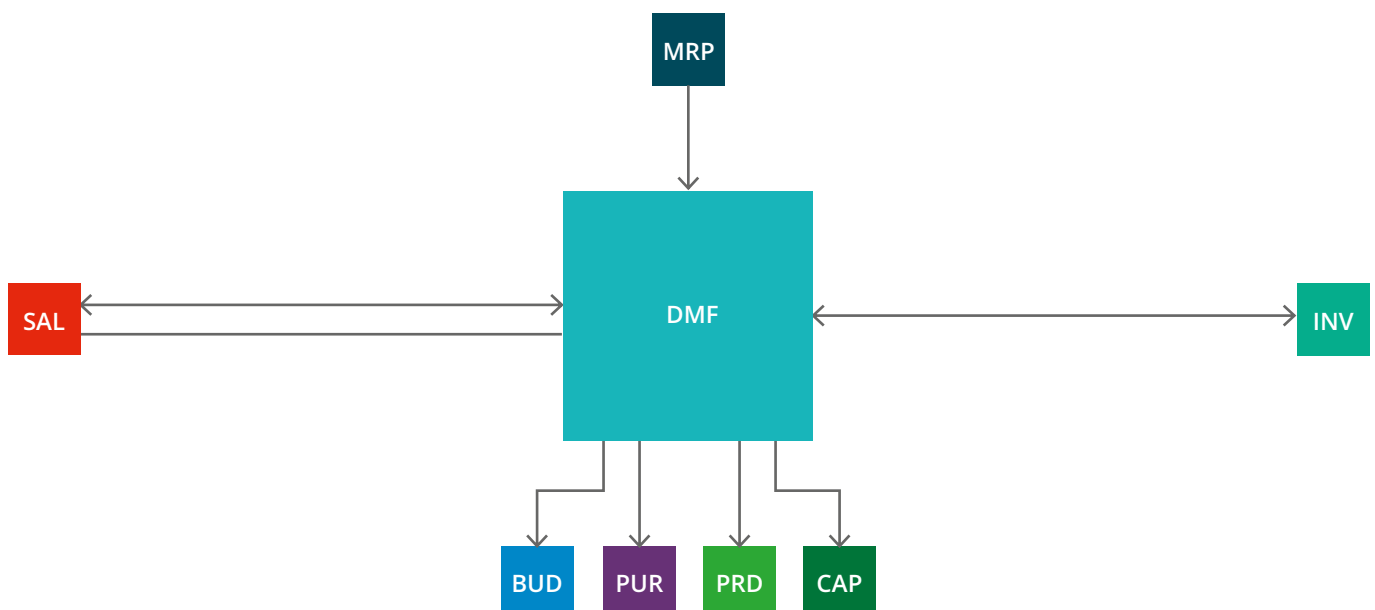
The module uses different prediction models to estimate with the most realistic conditions and offers different estimation options for materials. In this way, it is possible to observe to what extent each possible scenario will affect the forecast with simulation predictions that can be carried out in parallel with the actual process of a material.

DEMAND FORECAST MODELS

There are five different demand forecasting calculation methods in the demand forecasting module. These methods are: reference to old values, mean (arithmetic, harmonic, geometric), exponential correction, linear regression, seasonal indexing.

REAL LIFE ACCURACY IN FORECAST

The methods of data imputation or outlier correction can be used in the Demand Forecasting module. If the Imputation Method is chosen, the system provides a more accurate demand estimation result by filling the periods in which the source data is missing with the selected method when calculating the demand forecasting. These methods are; accept as zero, accept previous, the closest values are average, overall av-



Img. 48. Integration of DMF-Module in the System

erage, median. If the Outlier Correction method is selected, the system checks the accuracy of the source data based on the incorrect data detection method selected while making demand forecasting. At the same time, if it encounters erroneous data, it corrects the erroneous data and provides a more accurate demand forecasting result. The methods of detecting erroneous data in the system are variance test and quarter value width test.

INTEGRATION

The demand forecasting module works in integration with all modules related to materials, especially Base Data Management, Sales Management, Inventory Management, Production Management, Purchase Management modules. The modules included in the integration provide instant data on all expected inputs and outputs for estimation. Thus, the system is always up to date. Forecasts generated by the demand forecasting module allow decision makers to make more accurate future decisions.

Features

Overview

- // Predicting the future with demand forecasting
- // Determining the appropriate demand forecasting model
- // Estimating with more than one method
- // Demand forecast on the basis of product and product family
- // Automatic detection and correction of missing or erroneous data
- // Ability to share forecast results with customers or suppliers

#NEXT

Material Requirements Planning

caniasERP Material Material Requirements Planning (MRP) module makes material-based planning for all needs that will arise based on the request documents opened during the procurement process.

Thus, procurement documents are created at the plan stage, which will ideally meet all needs. These documents can be easily converted into finalized documents thanks to the easy integration provided with the system in general. In addition, tracking of all procurement documents opened for each request document included in the supply chain is easily provided and reported with the help of this module. Therefore, this module is located at the very center of the logistics chain within an organization.

Each industry has its own variables in supply chain management and these variables can be significant for the planning strategy. caniasERP ensures that the optimal planning method is easily identified and

implemented with the numerous parameters of the Material Requirements Planning module. Additionally, the flexible structure of the module, allows simulations for possible scenarios using multiple planning strategies for a material.

FLEXIBLE CONFIGURATION

The module provides different planning options for the same materials by using different setting types in order to plan with the conditions closest to reality. It is possible to observe the extent to which each possible scenario will affect the planning through simulation plans that can be carried out in parallel with the actual planning process of a material.

RICH TIME AND AMOUNT CALCULATION PARAMETERS

Material Requirements Planning module works fully deterministic. Requirement planning is done with perfect time accuracy so that the most suitable supply chain is created. In addition, the atomic time unit, if desired, can be determined by week, month, or a time period the user defines. This feature allows users to show tolerance and reduce the error rate in plan estimates. In addition, in the scheduling of the created plans, results that are closest to reality are acquired by using critical data such as order delivery time, production preparation/machinery/ labor times, purchase delivery time.

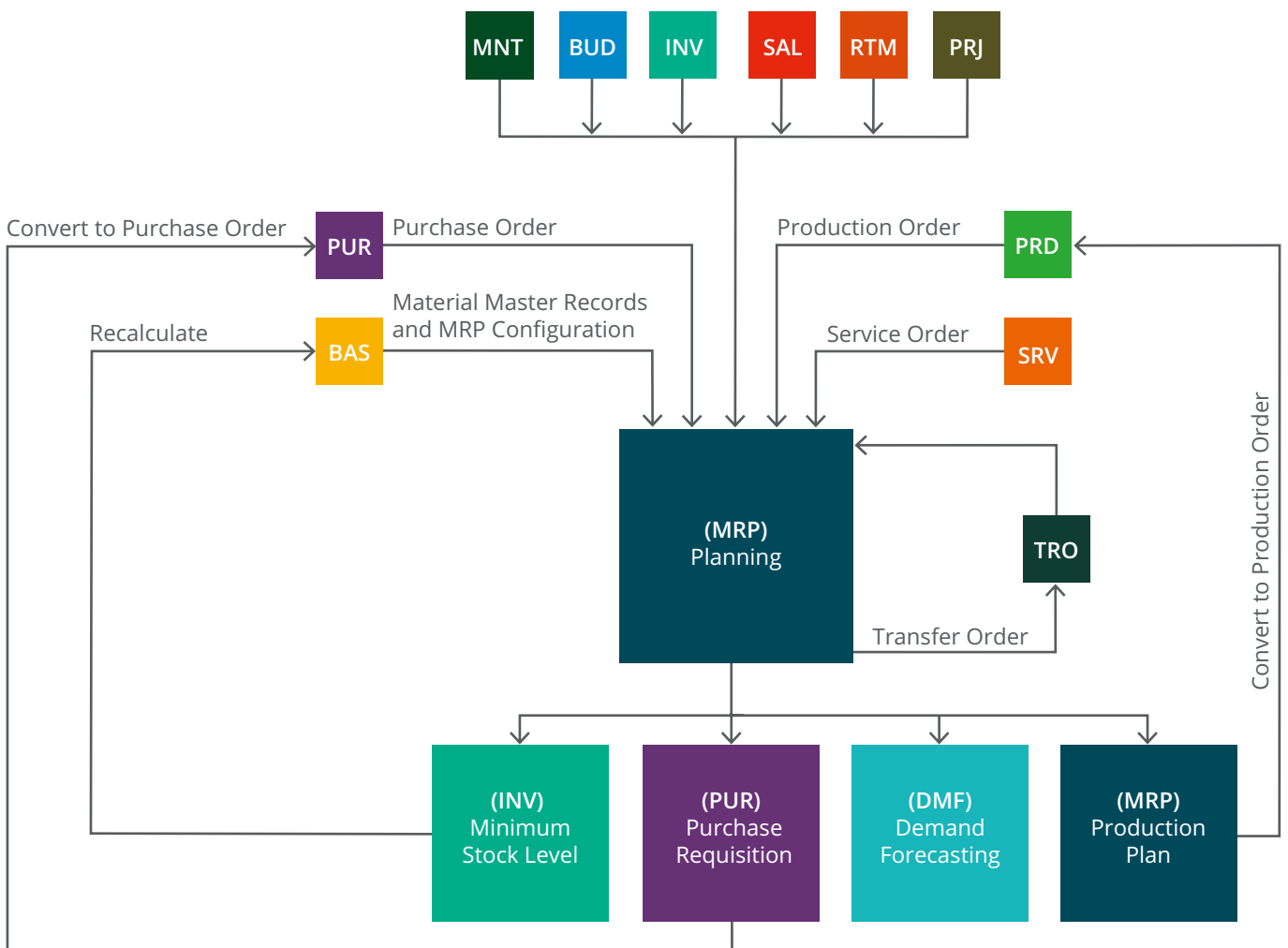
The module works perfectly in amount calculations. Many of the accepted industry standard order size determination methods are available in this module. In addition to linear methods such as Lot-for-lot, Fixed Quantity, Maximum Order Level, advanced methods such as Economic Order Quantity, Minimum Unit Cost, Minimum Total Cost and Part Period Balancing are used to determine order size. In addition, safety inventory and re-order point can be defined for the appropriate category of materials and minimum inventory management can be provided.

FLEXIBLE PLANNING

The Material Requirements Planning module allows the use of similar materials interchangeably. Thus, companies can consider a group of materials instead of a single material to meet their needs. This helps to reduce the extra purchase-production activities and promotes savings in enterprises. The choice between the materials defined as one other's alternatives on the system is made by taking the actual stock levels into account. Companies can manage the choice of the ideal alternative material according to the determined priority levels through the system.

INTEGRATION

The Material Requirement Planning module works in integration with all modules related to materials, especially Base Data Management, Bill of Materials Management, Route Management, Sales Management, Budget Management, Stock Management, Production Management, Purchase Management and Transfer Management modules. The modules included in the integration provide instant data for planning, about all expected inputs and outputs. Thus, the system is always up to date. With the Net Change System, if there is a material-related change in any



Img. 49. Integration of MRP-Module in the System

of the integration modules, the module automatically saves the information and makes re-planning for the relevant material. With the help of collective planning transactions, these materials and the related materials are re-planned and the current plan status is reached. In addition, the system allows users to run batch planning applications periodically and automatically.

Purchase requisitions and production plans created by the Material Requirement Planning module are converted into real documents such as purchase orders and production orders through the Production Management, Purchase Management and Transfer Management modules. Thus, the plans made on the system are activated. In addition, this module monitors the finalized documents and allows users to instantly view the future stock status.

Features

Overview

- // Live material stock status
- // Determination of definite and actual procurement dates
- // Date Tolerance
- // Lot size optimization methods
 - // 'Lot-for-Lot'
 - // Fixed quantity
 - // Maximum stock level
 - // Economical order size
 - // Balancing part period
- // Planning Keys
 - // Versatile planning configuration
 - // Parallel planning and simulation
- // Anticipating material movements between different facilities
- // Keeping material plans up to date with net change system
- // Planning for customer-based special order
- // Use of alternative materials and material handling groups
- // Realization of the created plans
- // Rough Capacity Planning
- // Matching of supply and demand documents
 - // Updating of match records as the documents are realized

Sub-Groups of Logistics

PUM

Purchase Operations Management

Sub-Group

Import Management

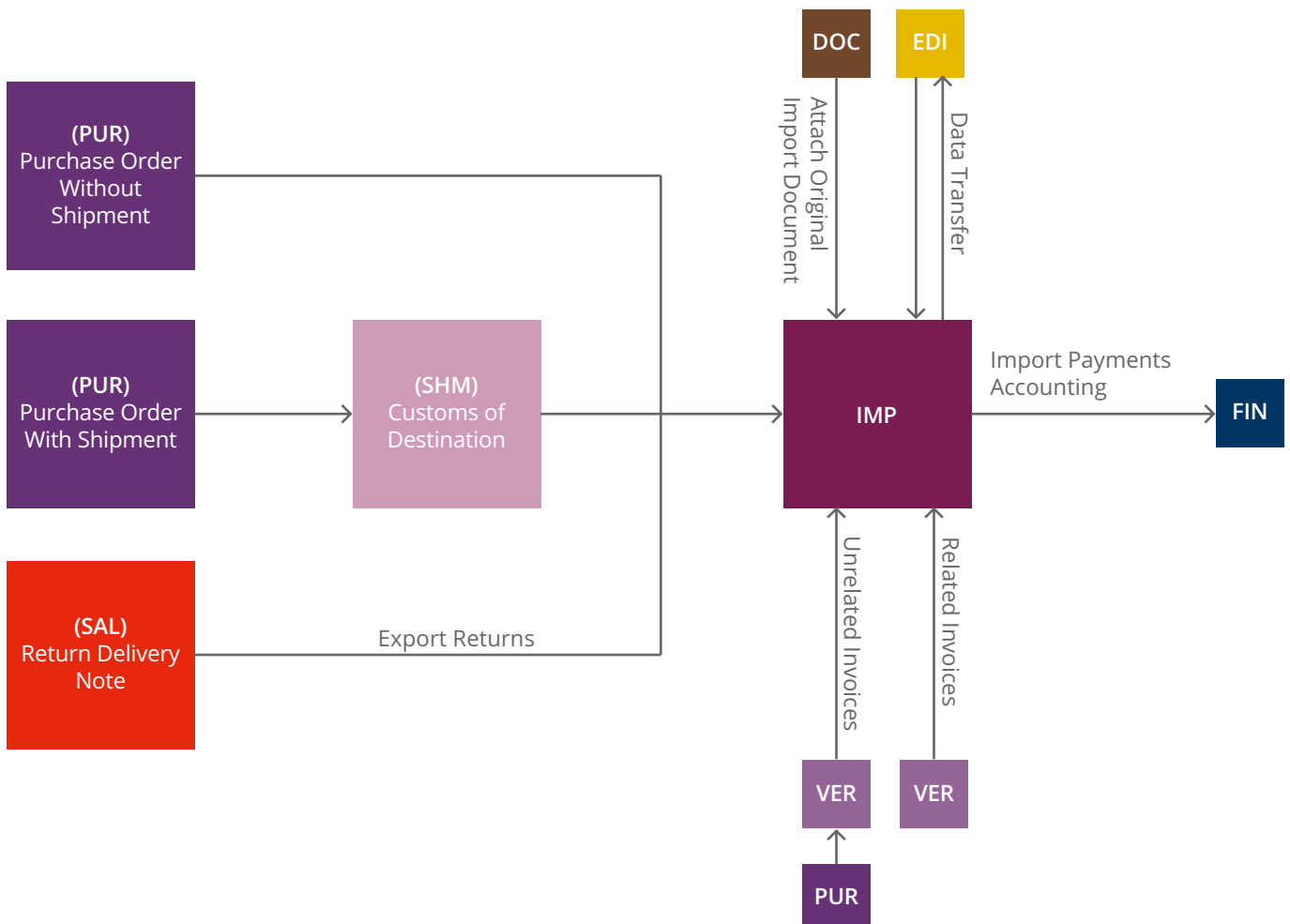
With caniasERP Import Management (IMP) module, operational and document-based tracking of all import transactions can be done. This module is especially important for the companies that carry out foreign trade transactions within their own. With the Import Management module, which is integrated into all purchase and invoice verification processes on the system, companies can: manage import declarations, track Harmonized Code, calculate FOB according the way of delivery of imports, total overseas cost in customs procedures, customs tax, customs duty and VAT in advance. The foreign exchange closing of the import documents can also be done with this module. In addition, companies can easily manage import payment transactions and easily transfer these payments to the Financial Accounting module for accounting transactions through this module.

ADDITIONAL COST CALCULATIONS

With the Import Management module, users can define the shipping, insurance, customs, packaging and extra cost information and add these costs to the declaration amount. Users can also view other planned costs in the purchase documents through successful integration of the module with the Purchase Management module.

INVOICE TRACKING

With this module, users can view the actual goods invoices and cost invoices associated with the relevant document within the import document. In addition, the module can optionally display the invoice in detail based on the item or based on invoice. If the invoice matches an import document in the Invoice Verification module, it is displayed as Related Invoice Item. If the invoice does not match an import document in



Img. 50. Integration of IMP-Module in the System

the Invoice Verification module, it will be displayed as Invoice Item.

STAGE TRACKING FEATURE

With the stage tracking feature in the module, users can monitor the stage of the products in the import process. (e.g. in transit, customs, warehouse, etc.) In addition, information on the loading station, the estimated time of arrival from the counter customs, the estimated time of arrival to the customs and the delivery date to the carrier can also be viewed via the feature. Meanwhile, records such as Material Stage Statistics and Order Item Statistics can be kept as well. With the loading types check table, a separate formula can be defined for each loading type in the system. Thus, the total amount of the documents can be calculated according to the formula given for the selected loading type.

ESTIMATED CUSTOMS TAX

The Import Management module allows import items to be grouped based on the Harmonized Codes. In this way, the predicted total can be calculated by multiplying the estimated weights of the grouped items and the surveillance taxes. These values, which are compared with the total of the items, are associated with extra domestic and foreign expenses and the amount of customs duty to be paid is calculated and presented to the user.

IMPORT PAYMENTS

Import payment transactions are carried out on based on declarations in the module. Payment transactions can be made according to different exchange rates. Bank and bank cost information, commission, cost and discount information, if any, can be entered during payment. It is also possible to perform ac-

counting for payments through the module.

INTEGRATION

The Import Management module works integrated with the Purchasing Management module. The import document is created by copying the purchase items. During this copying process, the consistency of the data in the import certificate and purchase certificate can be checked with the support document types of import documents.

Import Management is also integrated with the Invoice Control module. When calculating the import declaration amount, invoices for orders associated with the declaration are taken into account in the Invoice Verification module. The payment transactions of the declarations created in the Import Management module are transferred to the Financial Accounting module and their accuracy is confirmed there. Thanks to the integration of the module with the Document Management module, users can add the necessary files for import documents, view, modify or download them later. This module is also integrated with the Export Management module. Export returns are processed in the Import Management module and import returns are processed in the Export Management module.

Features

Overview

- // Declaration management
- // Associate declarations with letters of credit
- // Company-specific calculation of declarations
- // Customs documents
- // Harmonized Code tracking
- // Stage tracking
- // Stage statistics
- // File cost analysis
- // Additional cost calculations
- // Invoice tracking
- // Import document flow report
- // External billing
- // Letter of credit management
- // Add-on management
- // Bank information
- // Foreign exchange
- // Estimated total customs duty calculation
- // Import expense report
- // Expenditure monitoring
- // Import incentive report

Purchase Management

caniasERP Purchase Management (PUR) module covers all kind of transactions needed for a company's purchase process. Users can open purchase requests for needed materials or services, request quotes from vendors, save price information from their vendors to the system and create agreement documents with their vendors where necessary through this module. Purchase order documents and reports can also be prepared for these materials or services. Similarly, shipments for oversea purchases can be tracked, and inventory, delivery, invoice and vendor analysis related to purchase orders can be performed.

PURCHASE RECOMMENDATIONS

The Purchase Management module has a structure integrated to the other modules in the system. With the Material Requirements Planning module, a purchase request can be created with the most suitable order time and amount. In this process, parameters such as delivery times, time of purchase and purchase of goods as well as a deadline based on needs are taken into consideration. Changes can be made to the resulting purchase requests, if desired, before creating the order. In addition, high priority requests can be defined over the system according to the purchase time and other parameters. Then, these purchase requests resulting from Material Requirements Planning can be converted to purchase orders through the application and the purchase process can be initiated.

TRACEABILITY AND EFFICIENCY

In the Purchase Management module, it is possible to associate purchase requests with various information such as accounts, customers, projects, production orders, fixture information or cost centers. This association, which is established in the purchase request, is transferred to the order document when the request is converted into the order. In addition, a one-to-one connection can be established for multiple projects, production orders, fixtures or cost centers if desired. Users can also manage transportation stages with this module. Many comprehensive functions from a simple order confirmation to the location tracking of the transportation stages of the order are offered in this module. In addition, the Purchase Management module creates a purchase request or purchase order for a material with Material Recommendations application, and it recommends the other materials to be purchased together with the material. Thus, companies can realize a more efficient and advantageous purchasing process.

ALL THE SUBTLETIES OF PURCHASE

In addition to the purchase of the materials with inventory receipts, the purchase of the maintenances and services without inventory receipts can be initiated, and the procurement processes can be managed in this module. In addition, the procurement process of materials supplied externally for production can be operated with the external operations concept. The dynamic printing feature in the Purchase Management module allows the users to define various dynamic printing conditions based on document type or vendor. Users can print documents with any of these defined conditions. Thus, a document can be converted into a printout in different ways.

In this module, purchase items can be allocated to other transactions in the system with reservation and other transactions in the system can be made available for external subparts. A bid can be opened for specific materials on the module; In the opened bids, the vendors can be asked questions to determine the most suitable vendor for the procurement process. After the returned responses are processed into the system, the vendor that won can be determined. Features such as additional fees and discounts at document and item level, creation of different invoices and buyers, and integration into the Document Management module are among the advantages of the module.

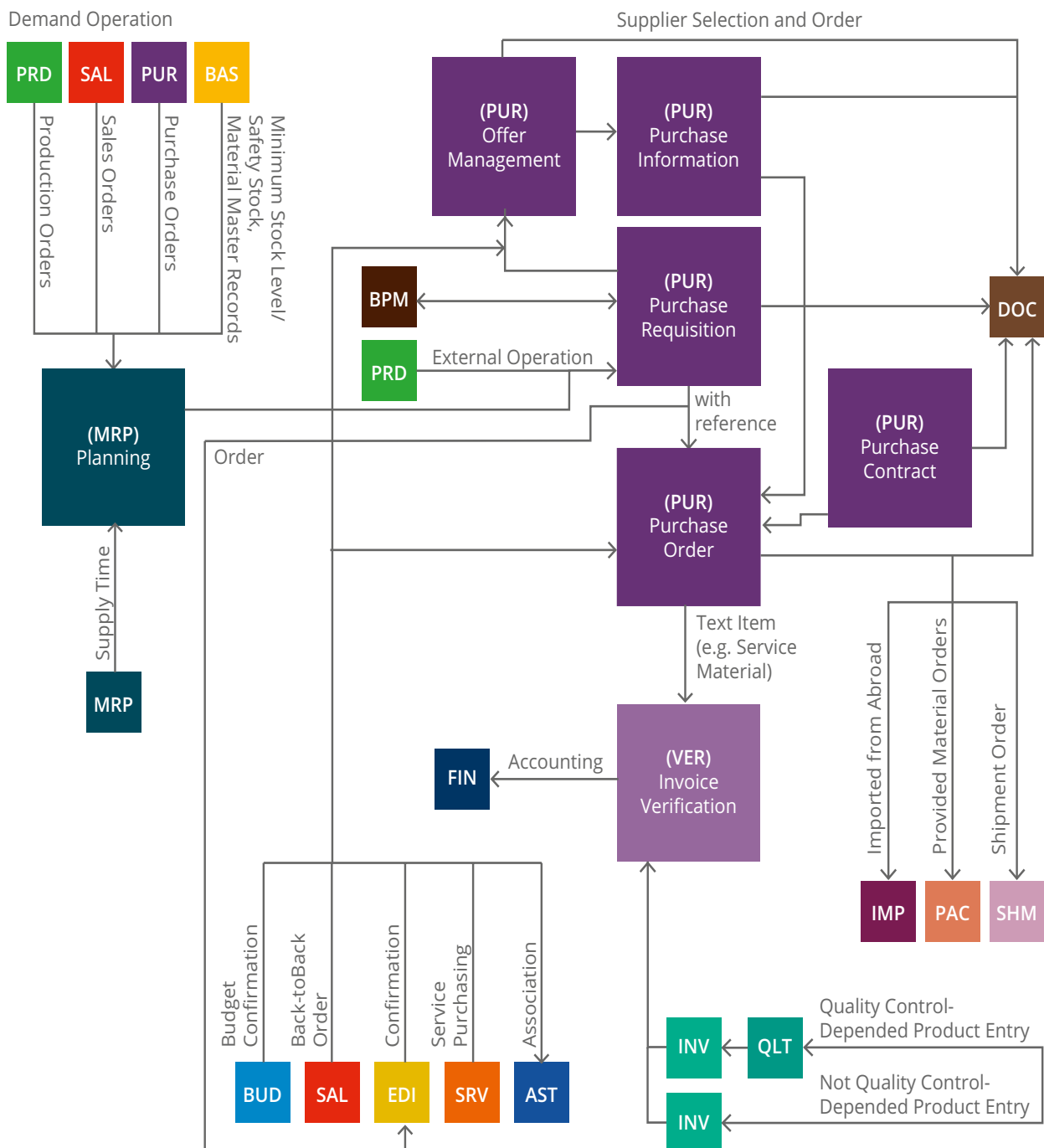
PROCESS MANAGEMENT

In an environment where the competition and cost pressures on the companies constantly increase, the Purchase Management module systematically enables more effective vendor management, accelerates the processes and achieves more economic results. The module, fully integrated to the system, takes into account all the parameters that are important for procurement throughout the process and contributes to increasing savings as well as transparency.

INTEGRATION

The Purchase Management module works in an integrated manner with many modules in the system to ensure an effective purchase process. With the Inventory Management module integration, receipt of purchased materials into the inventory takes place directly with the purchase document. The stock receipt status of the order can be tracked through purchase applications. Integration with the Invoice Verification module allows order documents to be matched to invoices and the invoice receipt status of the order to be monitored.

Automated purchase requests can be created for materials with critical stock with Material Requirement Planning module integration. Integration with the Production Management module enables external purchases. Integrated with the Sales Management module, this module can create an automatic purchase request or purchase order for the Buy and Sell orders. Integration with the Budget Management module helps to easily check if there is sufficient budget when creating a purchase requisition or purchase order. With the integration of the Import Management module, the purchase orders can be added directly to the declarations and the foreign purchasing operations can be carried out in an integrated manner with this module.



Img. 51. Integration of PUR-Module in the System

Features

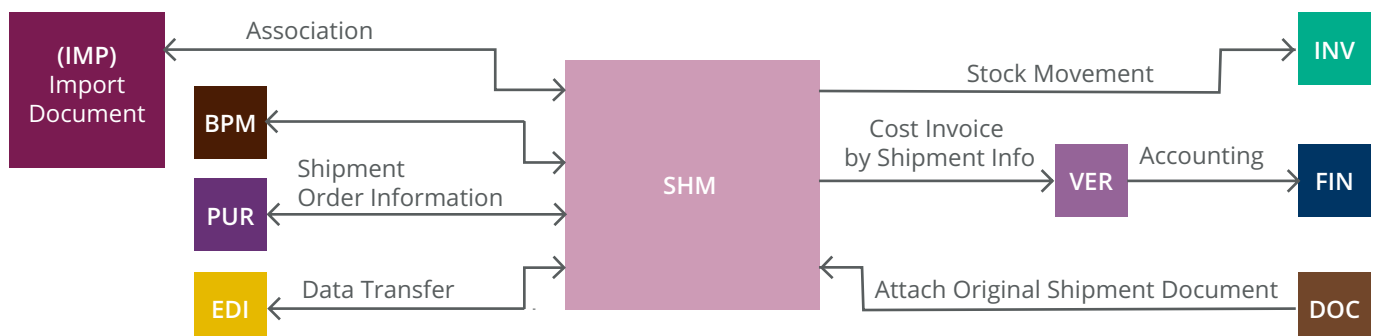
Overview

- // Request Management
- // Bid Management
- // Agreement Management
- // Order Management
- // Piece-by-Piece Order
- // Create an order from agreements
- // Centrally creating a purchase agreement
- // Vendor recommendation during creating a purchase order from requests
- // Bid management
- // History tracking for purchase documents' management
- // Archiving documents in Document Management module
- // Automatic purchase requisition after Material Requirements Planning
- // Description texts for documents and items
- // Sending orders by email
- // Flexible price list and contract management
- // Price comparison based on order quantity
- // Confirmation mechanism
- // In-system Electronic Data Interchange module connection
- // Tolerance management
- // Payment plans
- // Additional cost (transport, insurance, customs, packaging) consideration
- // Goods receipt control
- // Viewing purchase development
- // Create user document constraints
- // Dynamic print management
- // Cost Center distribution
- // Material Suggestion application

#NEXT

Shipment Management

caniasERP Shipment Management (SHM) module is used to manage the tracking of the shipping stages of the goods supplied in relation to the overseas purchasing processes. With this module, users can monitor the shipping stages of the relevant order after the order confirmation, as well as information such as detailed container information and the estimated arrival date of the shipment via the transaction. Additionally, with the advantages offered by Material Stage Statistics and Order Item Statistics, statistical values for order and shipping can be easily analyzed.



Img. 52. Integration of SHM-Module in the System

STAGE TRACKING TRANSACTION

With the step tracking application in the module, users can monitor the stage of the imported products (e.g., on the way, at the customs, at the warehouse, etc.). In this module, by keeping the documents in sequential stages, the transportation stages of the imported products can be monitored.

DOCUMENT FLOW

Thanks to the "Document Flow" feature in the Shipment Management module, restrictions can be imposed on the users so that the stage tracking can be carried out sequentially, and the transport records to be kept in the system can be processed in the expected order.

INTEGRATION

The Shipment Management module works in an integrated manner with many modules in the system, ensuring an effective shipping process. Thanks to the Purchase Management module integration, it ensures that only shipping processes associated with real orders are created. Through the integration of

the Import Management module, the shipping documents are directly matched with the declarations to which they are referenced, allowing an integrated transportation process to be realized. With the Invoice Verification module, it is possible to create expense invoices based on the costs incurred during the transportation process, directly referenced from the shipping document.

Features

Overview

- // Stage Tracking
- // Container Tracking
- // Tracking Status Between Documents
- // Material Stage Statistics
- // Order Item Statistics
- // Document Flow
- // Reference Document Tracking

#NEXT

Invoice Verification

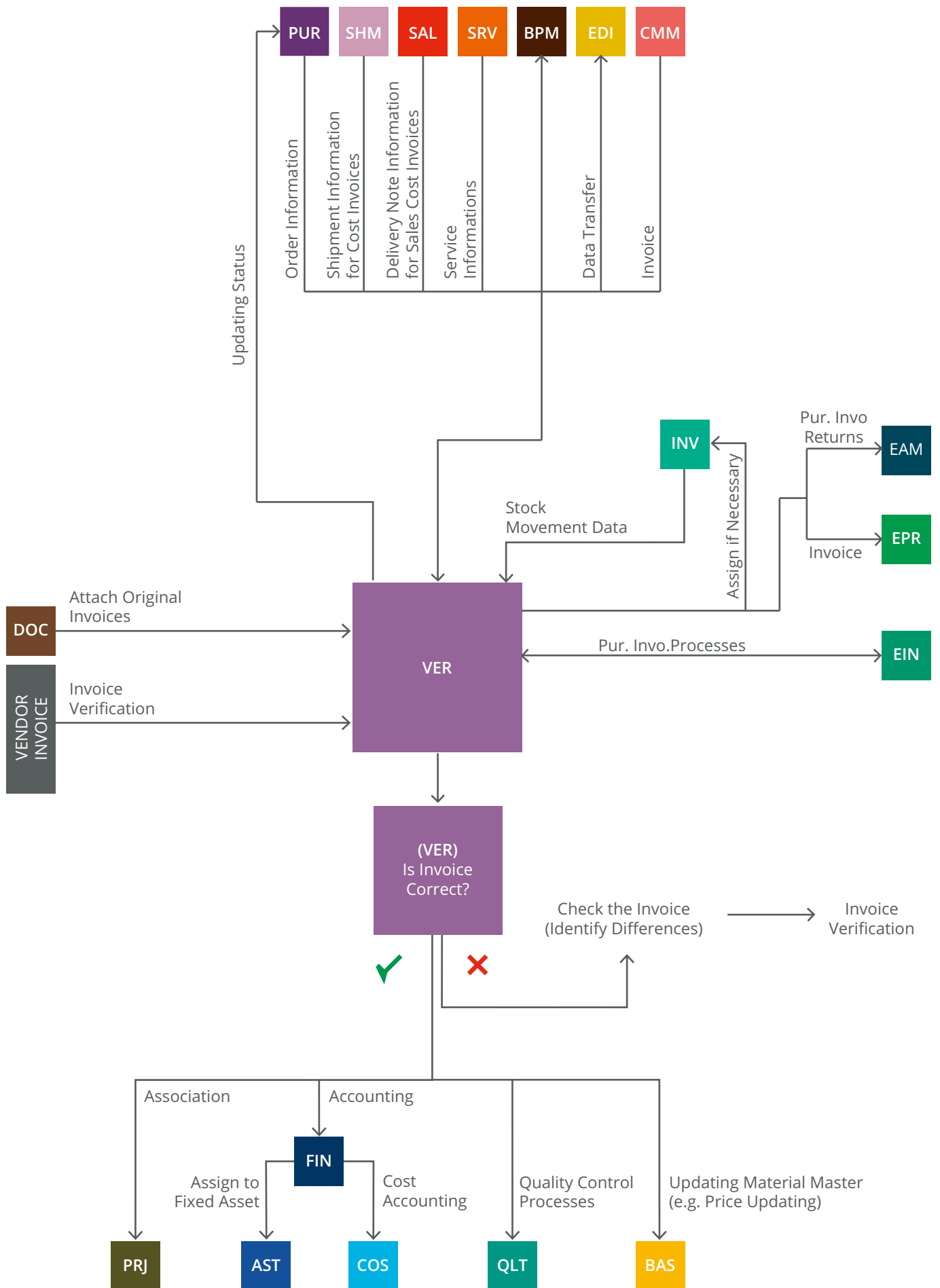
caniasERP - Invoice Verification (VER) module is used to verify the accuracy of invoices for materials or services that have been subject to a purchase transaction. Incoming voices are saved to the system through this module. In addition, return, difference, cost, service and exchange rate invoices can be created in this module. The Invoice Verification module ensures that the information on invoices is transferred to the Financial Accounting module for consistency in information on purchase orders and inventory transactions. The price comparison of invoices, price difference control and purchasing statistics can be analyzed through various reports within the module.

INVOICE VERIFICATION INTEGRATED TO THE FOUNDATION OF ORDERS

When a purchase process is initiated, a purchase order is created in the Purchase Management module and the goods receipt is saved in the Inventory Management module. A reference should be made to these purchase documents in order to carry out the integrated invoice verification. In the Invoice Verification module, users can easily search the purchase order or goods receipt using the relevant criteria such as vendor number, purchase order number and date. Here, the prices from purchase orders and quantities from goods receipts (and, if applicable, with refund correction) can be found. Whether the current invoice is correct in terms of quantity, price and condi-

tions is automatically checked on the system. Value invoices for purchase orders without inventory receipt can also be generated and their quantities can be checked.

If inconsistencies are identified during invoice verification, the reason for the inconsistency should be clarified and, if necessary, the invoice should be reorganized. Such invoices with deviations are 'suspended' in the system just like pre-registered but not yet completed invoice verification documents and their transfer to the Financial Accounting module is blocked. When the differences are sorted, these invoices can be registered and transferred to the relevant modules. This can be done manually or auto-



Img. 53. Integration of VER-Module in the System

matically in bulk for each document. e-Invoice and e-Archive return documents can be created via the application as well. Incoming e-Invoice and e-Archive documents can be automatically saved into the system and invoice verification can be done for them too.

MANUAL INVOICE VERIFICATION

In the Invoice Verification module, invoices for certain types of costs can also be saved manually without any order reference. For this, the data in the invoice must be entered manually in the system. Data such as financial accounting account and cost center are saved in the invoice item while information such as document date and payment terms are stored in the invoice header. Verification of manually saved invoices is carried out in a similar way to invoice verification based on order.

RETURN AND COST INVOICES

If the goods delivered are returned to the vendors in full or in part, a return invoice may be generated with reference to the order invoice. Additional costs, such as transport and packaging, can be directly assigned to the relevant invoice items or distributed in proportion to the value or amount of the items.

EVALUATIONS

All information in the module can be used for price development, price comparison and price analysis.

INTEGRATION

One of the biggest advantages of the caniasERP system is its high level of integration. Successful integration allows the Invoice Verification module to easily access data from modules such as Purchase Management and Inventory Management.

With the registration of the incoming invoice, the vendor account in the Financial Accounting module creates an open item and the vendor account is credited. With this module, users can associate invoice items with any project, account number, cost center, fixed asset number (fixture), customer, production order or sales order. When the users perform the association process with a fixed asset number, the valuation calculations are directly assigned to the related fixed asset and the invoice is transferred to the Asset Management module after the accounting process. Likewise, if users perform the association operation with a cost account number, the invoice is transferred to the Cost Center Accounting module.

For invoices that are validated with foreign currency, if there are price differences depending on the exchange after the matching in the Financial Accounting module, exchange difference invoices can be created

in this invoice control module. In such invoices, an average exchange rate can be brought to the invoice by taking into account the existing Forward contracts in the Financial Accounting module. Information related to the accounting of an invoice is transferred to the Base Data Management module as well. Thus, the final purchase price of the relevant product is updated on the material card and included in the calculation of the moving weighted average price.

The Invoice Verification module is also linked to the vendor assessment under quality assurance. Through the integration of the module to the Quality Management module, quality assurance processes such as rework and returns are also taken into account. The module also works integrated with Import Management, Sales Management and Service Management modules.

Features

Overview

- // Invoices linked to order or goods receipt
- // Manual invoices
- // Value and amount-based invoices
- // Cost invoices
- // Contract process invoices
- // Difference and return invoices
- // Partial invoices, batch invoices and invoices in foreign currency
- // Automatic comparison between purchase price and invoice price, and automatic comparison between the quantity of goods receipt and the amount of invoice
- // Accounting suspension for invoices until fully processed
- // Easily transfer invoice data to the Financial Accounting module (Manual or automatically and in bulk)
- // Associating with cost centers and cost units
- // Distributing additional costs
- // Cost update in the material card
- // Dynamic printing
- // e-Invoice, e-Archive integration

Sub-Groups of Logistics

SAM

Sales Operations Management

Sub-Group

Commission Management

With the caniasERP Commission Management (CMM) module, broker identification and commission amount calculation operations can be performed. This module works integrated with the invoice verification module. With the module, the commission amounts defined in the sales documents can be calculated and an invoice can be created for the relevant broker.



Img. 54. Integration of CMM-Module in the System

COMMISSION AMOUNT CALCULATION

Commission amounts of sales documents are listed by grouping based on broker. There are two types of commission, either rate or amount. The type of commission used in the sales document and the total commission amount for the relevant document are included in the list. The transaction works integrated with the invoice verification module. If an invoice associated with the broker is to be issued, an invoice can be created quickly and easily for the relevant broker through this transaction.

Features

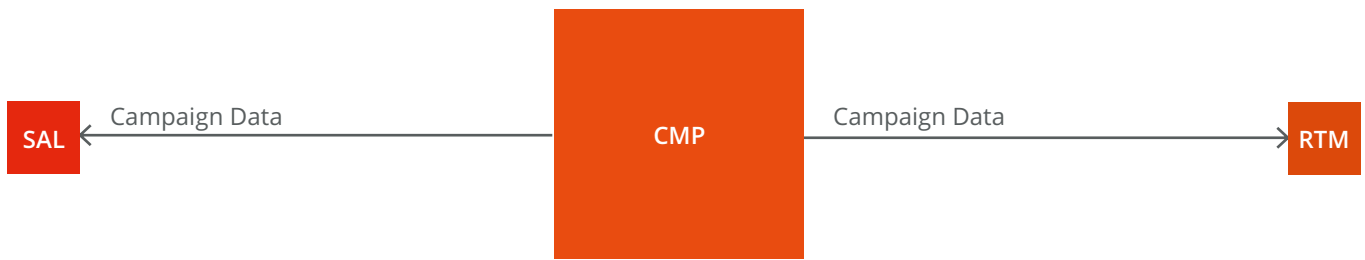
Overview

- // Commission definition
- // Commission amount calculation
- // Integration with Invoice Verification
- // Create invoices for the broker

#NEXT

Campaign Management

With the caniasERP Campaign Management (CMP) module, campaigns, one of the important elements of marketing activities, are managed in order to gain new customers, increase customer loyalty, and ensure future purchases. Unlimited number of campaign definitions can be made depending on a season, period, a specific customer type or a product group, and the defined campaigns can be used in the relevant modules.



Img. 55. Integration of CMP-Module in the System

CAMPAIGN DEFINITIONS

For a sale, document-based campaigns with instant gains in the document or periodic campaigns that achieve a quota or target with one or more purchases can be defined and these campaigns can be used in sales and retail transactions. When defining the campaign, the terms of the campaign and the benefits to be achieved when these conditions are met are specified. Conditions and gains can be defined as amount or amount. A maximum limit can be set for the campaign or per customer.

CAMPAIGN USAGE

When a sale that meets the campaign conditions is made, the earnings are displayed on the system and the gifts, bonuses and discounts earned from these campaigns can be used during the sales.

Features

Overview

- // Document-based campaign definitions
- // Periodic campaign definitions
- // One-time or multiple wins
- // Product, discount amount, discount rate or gift certificate wins
- // Cheapest product win
- // Campaign maximum limit definition
- // Maximum limit definition per customer
- // Definition of the day and time the campaign will be valid

#NEXT

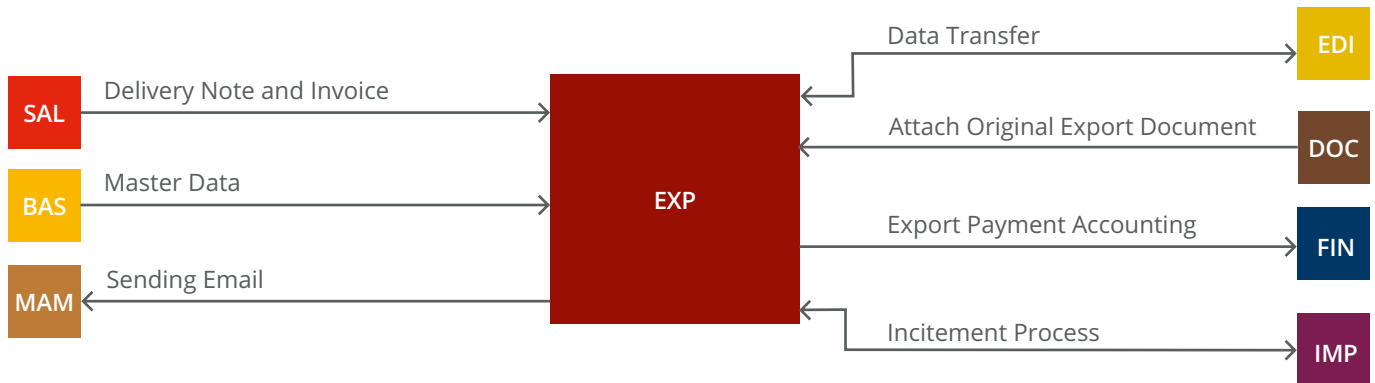
Export Management

Export Management (EXP) module is used to perform operation and document-based tracking of all export operations. This module is especially crucial for the companies that are managing foreign trade transactions within its own structure and because the module also works in integration with all sales processes on the system. With the Export Management module, companies can manage their declarations, associate them with letters of credit, track GTIP, calculate the cost of the declaration and other costs, customize these costs and calculate them with pre-entered or newly entered expenses. All standard and special reports, certificates of origin that are specific to the export countries, A.TR, EUR1, etc. forms such as invoices, picking lists, consignment which can be changed from country to a country or customer to customer with circulation documents can be defined and used in the system.

EXPORT OPERATIONS

Export Management module allows keeping the main transport information such as customs, transport company, transportation type of export certificate. The estimated arrival time is automatically calculated by the system upon the delivery date. Companies can compare the estimated time of arrival and the actual arrival date and evaluate the performance of the

shipping company. The amount of the payment in the invoices of the export documents, the amount of this fee to the relevant bank/branch, the bank charges and the receipt can be followed. In addition, some basic information such as the remaining balance, available balance, total payment amount, total amount collected, total cost and maturity information can be followed for export payments and payment withdrawals.



Img. 56. Integration of EXP-Module in the System

INTEGRATION

The Export Management module is fully integrated with the Sales Management module. The export document is created by copying the items of the sales document. During the copying process, the consistency of the data in the export document and the sales document can be cross-checked with the support of the export document types check tables. When calculating the export declaration amount, invoice information received from the Sales Management module is taken into consideration together with the sales expense invoices entered in the Invoice Control module. The payment and payment of the declarations created in the module are transferred to the Financial Accounting module and its accuracy is confirmed. With the integration of the Document Management module, users can add the necessary files for export documents, view, modify or download them later. This module is also integrated with the Import Management module. Import returns are included in the Export Management module and export returns are processed in the Import Management module.

Features

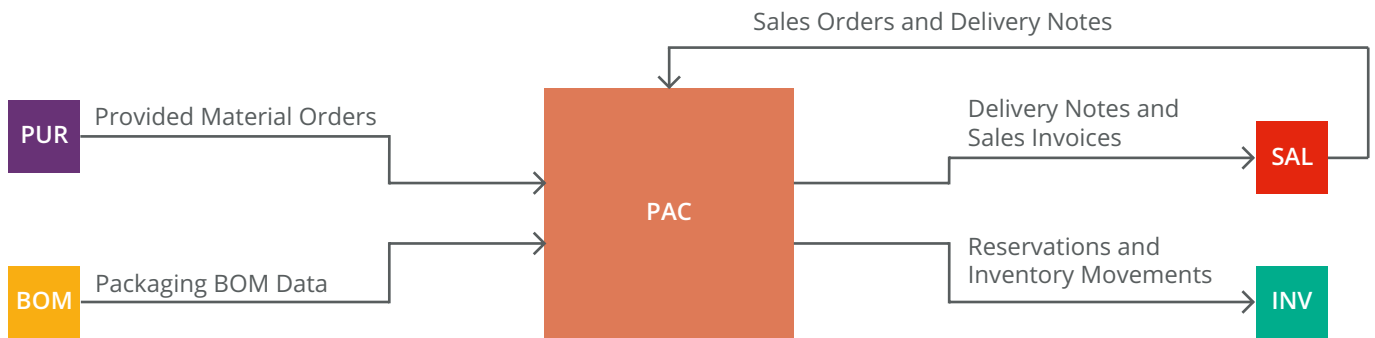
Overview

- // Declaration management
- // Tracking of transport stages
- // Transporter performance assessment
- // Printing of standard or special reports and forms
- // GTIP tracking
- // Bank details
- // Export payments tracking
- // FOB calculation
- // Closing export documents
- // Export expense report
- // Payment withdrawal tracking
- // Tracking of export costs
- // Weekly shipment plan
- // Export promotion report

#NEXT

Packaging Management

With the caniasERP Packaging Management (PAC) module, packaging conditions can be defined and packaging documents can be created. The label number of the packages can be created and printed.



Img. 57. Integration of PAC-Module in the System

PACKAGING CONDITIONS

Definitions can be made for the packaging information of a product to be valid within the specified date range. The packing condition can be set to apply to a specific customer or to all customers. The number of the relevant product in the package, the place of loading, and the sales document type information are included in the packaging conditions. Bill of Materials definitions are used for the packaging materials and quantities to be used while packaging the product. When a product is to be packaged in the packaging transaction, and if the packaging conditions are defined, the product is packaged according to these packaging conditions.

PACKAGING DOCUMENTS

With packaging management, sales orders, dispatch documents or external purchase items can be packaged. If the packaging conditions are defined, the product is packaged according to these packaging conditions. Packages can also be created manually by the user. After the sales orders are packaged, dispatch and invoice documents can be created for the relevant order. Packaging materials are automatically added to the relevant delivery note and invoice. With

the drag-and-drop method, products can be easily transported to a different package. The label number of the packages can be created and printed. Reservation can be created in the packing document and stock movements can be made from reserved lots.

Features

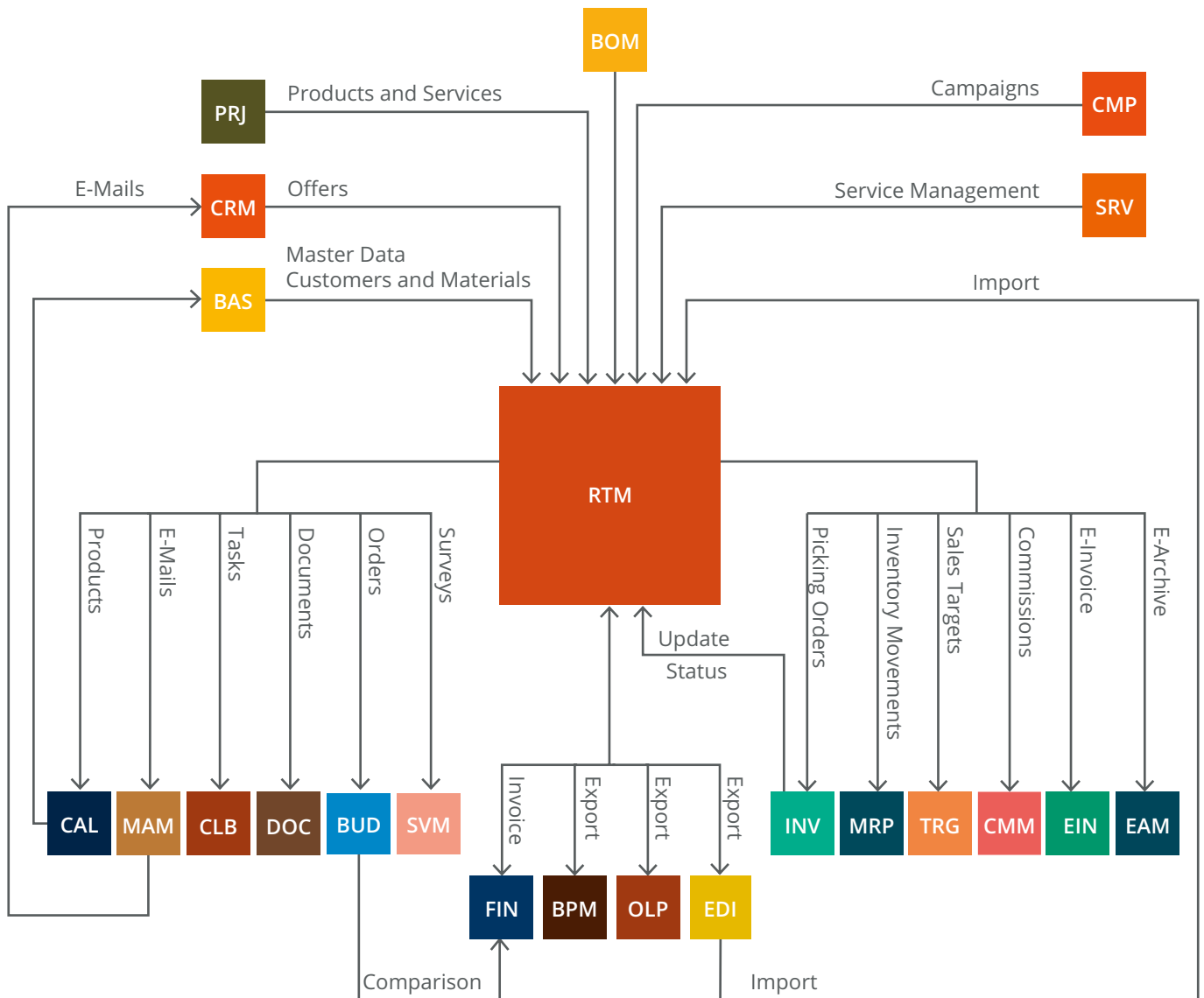
Overview

- // Defining packing conditions
- // Order/Delivery Note/External Items Packaging
- // Creating delivery note and invoice for the packed order document
- // Creating a reservation
- // Making stock movements from reserved lots
- // Working integrated with Sales Documents Management

#NEXT

Retail Management

With the Retail Management (RTM) module, enterprises can manage their stores and control all business processes through a single software platform. All business processes from sales to inventory, accounting integration to customer relations and campaign management, can be easily planned through this module. Retail store inventory and shelf management, store demand forecast, main warehouse, and inter-store transfers, invoices, note of expenses, loyalty card management, gift points, and bonuses, detailed information of customers, customer notifications, automatic SMS and email transmissions, online and offline operations with inter-system integration can all be performed. This module increases the competitiveness of companies with reports containing important criteria such as product, customer, store, date, country, city, price, etc. At the same time, with these reports, companies can perform store comparisons, produce a product portfolio and develop effective marketing strategies.



Img. 58. Integration of RTM-Module in the System

RETAIL OPERATIONS

Retail has some differences from the sales procedure. The Retail Management module has been prepared in integration with the Sales Management module and many other modules considering these differences. With the module, retail sales, exchange and return transactions can be managed, stock and transfer movements can be provided, and reports such as retail sales and end of day can be prepared. In addition, sales statistics can be observed. A flexible usage method has been created by defining the features such as payment conditions, payment types and discount keys required for performing these transactions on a store basis, and information such as document types, warehouse, stock location on a cashier basis. In addition, it provides users with the opportunity to operate comfortably with its user-friendly interface.

ANALYSIS AND CONTROL

Retail sales data can be evaluated by separating them

dynamically with the desired specification with the multiple report feature. All documents can be linked to each other through the Sales Management module. This way, the whole process starting from the proposal, the order, dispatch, return and the invoice is followed. With the help of the Electronic Data Interchange module, retail sales data can be imported into the caniasERP system and exported from the caniasERP system to external environments.

INTEGRATION

The Retail Management module is intertwined with the Sales Management module. The features such as after-sales, pre-sale reports and price policies used in the Sales Management module can also be used for this module. In addition to the Sales Management module, the Retail Management module is also integrated with modules such as Inventory Management, Customer Relationship Management, Electronic Data Interchange, Collaborator, and Document Management.

Features

Overview

- // Serial number management
- // Variant sales
- // e-Mail integration
- // Archiving for all documents (Integrated document management)
- // Automatic invoice printing
- // Multi-level pricing system
- // Payment plans and discount management
- // Product sets
- // Tracking of material inventory
- // Fast customer entry
- // Waiting Sales Orders
- // Tax-Free
- // Fix VAT Key
- // Repair application
- // Store and cashier based dynamic total sales and return information
- // Quick purchase invoice entries
- // Stock transfers
- // Multi-Report and End-of-Day reports
- // Sales statistics
- // Installment difference
- // Rounding
- // Cashier-based discount authorization
- // Gift cheques
- // Dynamic campaign management
- // User-friendly interface with RTM Lite
- // Till Report
- // Loyalty cards
- // E-Invoice, E-Archive documents

#NEXT

Sales Management

The Sales Management (SAL) module is used to perform operation and document-based tracking of all sales transactions. This is one of the basic modules of ERP and it is of great importance for companies. It integrates with all processes in the system. With the Sales Management module, companies can manage their sales processes, link and follow up documents such as offers, agreements, orders, dispatches, and invoices, manage inventory, update the relevant finance records, and manage price policies or campaigns with customized combinations. Sales reports that are offered in wide scope can be easily customized, and forms such as invoices, picking lists, and consignment can be defined and used in accordance with the laws and regulations of country and customer.

SALES OFFERS

The Sales Management module can create customer lists with the data obtained from the Customer Relationship Management module. As a result of the integration between the two modules, the offer processes can be initiated and managed. With the flexible pricing and campaign applications within the module, gradual and/or dynamic pricing can be defined according to changing criteria in the system and the pricing process can be managed by taking the profit-loss rates and bulk increases can be applied into price lists. The integration with the Product Configurator transaction which is used by order-based manufacturing companies and based on the Base Data Management module, cost calculations can be made

for the products and sub-items which are still in the design phase and have no records in the system.

ORDERS AND CONTRACTS

When the offers are approved and potentials become a customer, the prepared offers can be converted into orders or contracts. Depending on the initial requirements, a quantity, value or scheduled agreement can be created with references from the offers. In this case, orders are created through contracts rather than offers. Afterward, the financial accounting of sales management module, cost centers accounting, inventory management, production management, material requirements planning module integration,

due dates, production plans, available and reserved inventory including all inventory types, instant and forward dated inventory information or important customer details such as a reached risk assessment and the order is finalized. In this way, companies can provide more clear information to customers about deliveries. Critical information such as delivery dates, prices, addresses, payment plans, and delivery conditions are kept based on documents or items. A large number of features (color, size, etc.) and feature-based products with many options, with fewer base data management options that provide the management of the keys, on the one hand, is managed more quickly while managing all the features of the products provided are to be kept in the document and if desired, pricing can be done according to these specifications. Similarly, in order to accelerate the sales processes, product sets can be used to add and manage a large number of products at once.

DELIVERY NOTES

After the order process is completed, through the Inventory Management module integration, delivery notes are created automatically or manually in accordance with the delivery date and stock movements. If necessary, these transactions can be managed by tracking serial number or batch number.

INVOICES

In the sales process, the companies initiate the invoicing process after completing the inventory movements with the dispatch document. Through the integration of the Financial Accounting Module, it is ensured that the invoices are accounted for individually or collectively, and the related accounts are taken into consideration in accordance with the payment plan. Flexible posting keys help manage this process with ease.

EASY TO USE

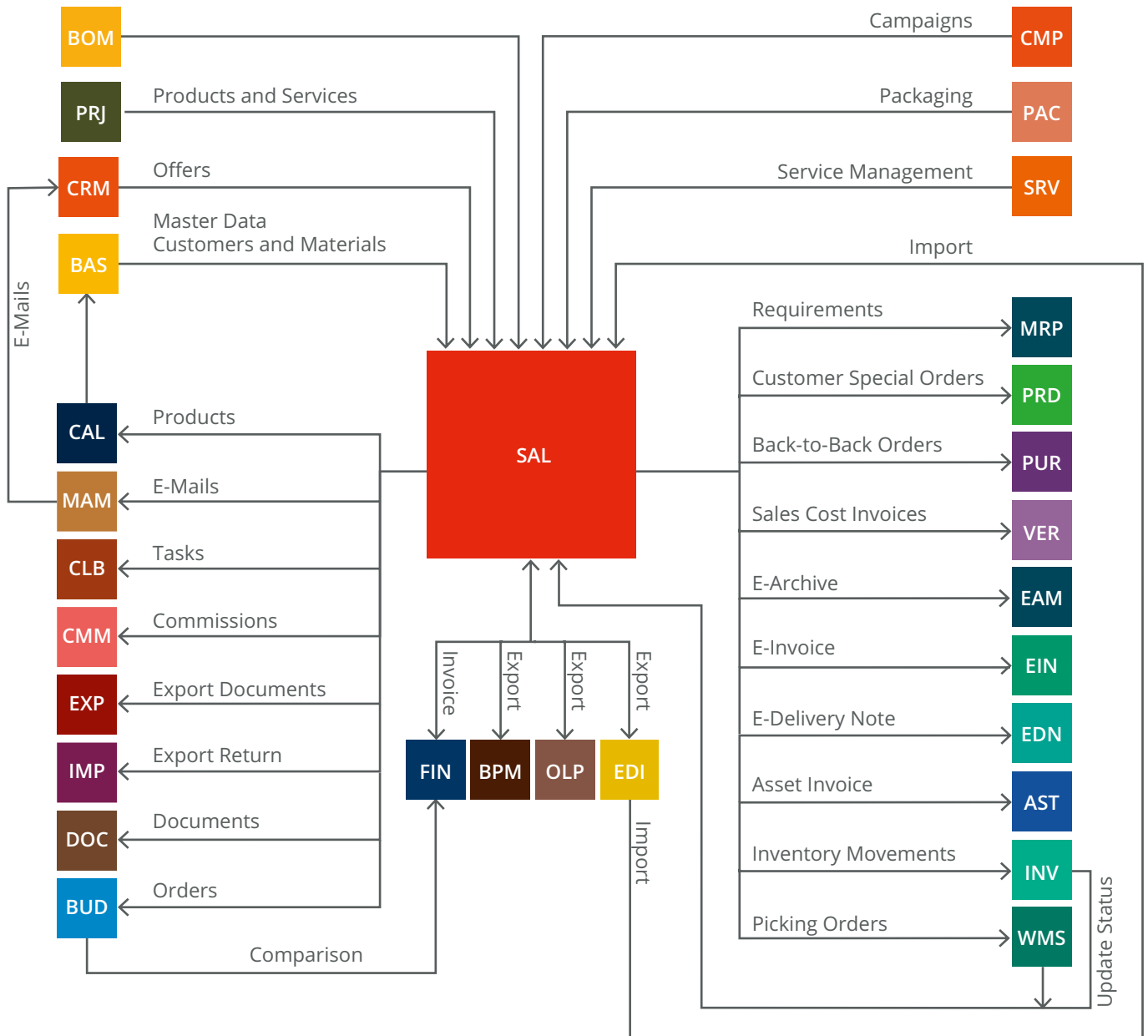
The Sales Management module, which has a systematic structure, enables a more efficient Customer-Potential management, accelerate the processes and achieve more economic results. This fully integrated module takes into account all the parameters that are important for sales throughout the process and contributes to increase transparency as well as saving. With the Sales Management module, users can perform all their transactions very quickly with minimum information input. In addition, the 'batch applications' in the modules allow for batch and automatic operation of many processes. Thanks to the integration with the Business Process Management module, all sales processes, including authorization, approval, and notification, can be managed. With the dynamic printing feature, a variety of printing conditions can be defined on the basis of the document type and/or customer and all documents produced can be sent

via e-mail through integration with the Collaborator module. Documents can be archived with the integration of the Document Management module.

INTEGRATION

The Sales Management module supports all sales processes. Document types such as offers, contracts, orders, dispatches, and invoices are created in this module. All documents and information flows can be monitored by the system at any time. The module can also be used independently. However, users can only get the most benefit from this module when using it with other caniasERP modules. Considering the processes from the offer to the invoice, the following important integrations are included in the module:

- // Customer / potential tracking and action management (Customer Relations Management)
- // Price and profit and loss calculation (Cost Centers Accounting, Standard Cost Management, Production Cost Management, Inventory Management)
- // Inventory tracking and operations (Material Requirements Planning, Inventory Management)
- // Creation of requirements (Material Requirements Planning)
- // Production planning and delivery date calculation (Material Requirements Planning, Production Management)
- // Product sets (BOM Management)
- // Accounting records (Financial Accounting)
- // Back-to-back orders (Purchase Management)
- // Cost invoices (Invoice Control)
- // Process Management and Authorization (Business Process Management)
- // Document archiving (Document Management)
- // Data Exchange (Electronic Data Interchange)
- // e-Invoice, e-Archive, e-Export, e-Dispatching operation (e-Delivery)
- // Sending and receiving e-mail (Corporate Communication Management)
- // Import returns (Import Management)
- // Export documents (Export Management)
- // Retail sales (Retail Management)
- // Budget Planning (Budget Management)
- // Invoicing of fixed asset sales (Asset Management)
- // Service invoice (Service Management)
- // Creating project or production order (Project Management, Production Management)
- // Product configurator (Base Data Management)



Img. 59. Integration of SAL-Module in the System

Features

Overview

- // User authorizations
- // Offer Process
- // Order Process
- // Scheduled Agreement Process
- // Value Contract Process
- // Quantity Contract Process
- // Manual & Automatic Reservation Process

- // Back-to-Back Order Process
- // Delivery Process
- // Freight Order Process
- // Consignment Process
- // Use of serial number material
- // Use of Party Number
- // Variant material usage

- // Barcode Process
- // Return and Cancellation Processes
- // Invoicing Process
- // Proforma Invoices
- // First Invoice Order Process
- // Exchange Rate Difference Process
- // Letter Credit Process
- // Leasing Process (With or without Serial Number)
- // Signature Concept (& Limits)
- // Dynamic Printing Concept
- // Commissioner Identification and Commission Amount Calculator
- // Packaging Conditions (Transport and Packaging Information)
- // Discount Management
- // Calculation of taxes

- // Pricing Policies
- // Complex VAT Usage
- // Product set usage
- // Using the Product Configurator
- // Batch Invoice Recognition
- // Picking Lists
- // Automatic Price Difference and Value Return Calculation
- // Sales Targets Management
- // Available to Promise Calculation
- // Batch Invoicing
- // Transportation Calculations
- // Bank Installment Application
- // Customer Risk Assessment and Credit Limit Control
- // Revision Tracking in Offers
- // Profit-Loss Cost Calculation

#NEXT

Sales Targets

With the caniasERP Sales Targets (TRG) module, definitions of sales targets, one of the most critical elements of sales processes, can be made, and sales targets analysis can be used to monitor the achievement of these targets.



Img. 60. Integration of TRG-Module in the System

COMISSION RATES

It is possible to define the commission rate in a specified product hierarchy and in a specified sales department or in all sales departments within a specified date range in the type of net sales, gross sales or gross profit rate bonus calculation. With the commission rate, it is possible to determine how much bonus a sales employee will receive over net sales, gross sales or gross profit rate according to the percentage of reaching his goal.

SALES TARGETS

Sales period, periods belonging to this period, product hierarchy, sales department and sales targets in the desired currency can be determined. Sales targets can be displayed in the desired currency. Sales target definitions constitute an important data source for the analysis of how much the relevant salesperson has achieved its target.

SALES TARGET ANALYSIS

Sales targets analysis can be made by taking into account the sales target definitions and commission rates. Sales targets analysis can be made in the desired currency. The targeted amount and actual amount for the selected period, the annual targeted and annual actual amount values and the percentage earnings per period and year according to these amounts are included in the sales target analysis. In addition, the bonus amount calculated according to the target achieved is also included in the sales target analysis.

Features

Overview

- // Setting sales targets
- // Sales target analysis
- // Term and annual earnings
- // Bonus amounts earned
- // Work with the desired currency
- // Defining commission rate and bonus calculation

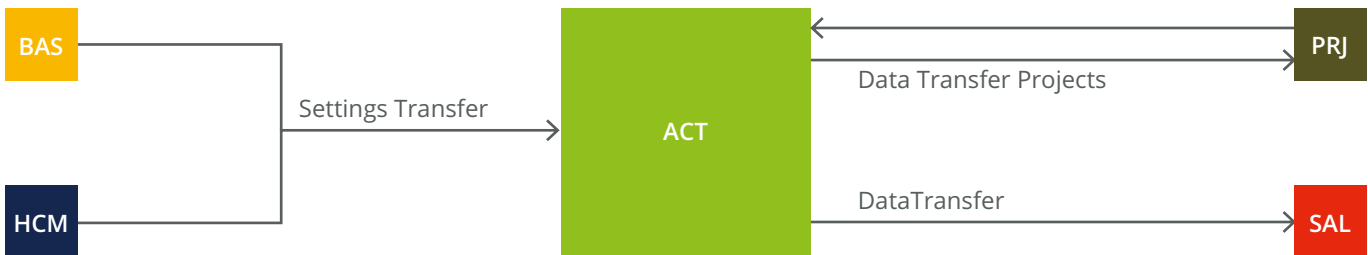
PRM

Project and Production Management

Module Group

Activity Management

caniasERP Activity Management (ACT) module is designed for companies operating in the service sector. It provides a simple definition of the projects carried out within the company and their details, and the management of the activities performed in these projects based on personnel. Its easy data entry on its interface facilitates the reporting of activity and job tracking.



Img. 61. Integration of ACT-Module in the System

Expenses spent during the activity, such as travel, accommodation, etc., can be specified during the activity entry. The activities entered can be billed according to the customer information, taking into account the activity price and expenses. The Activity Management module is fully integrated into the system; thus, it is possible to use the data in two ways.

The Activity Management Module also enables service call management. Reported service requests can be entered into the system using detailed or fast entry options. Thanks to reporting applications, incoming requests can be reported according to certain criteria.

PROJECT AND ACTIVITY MANAGEMENT

In the Activity Management module, the projects carried out in the company are defined and their details are specified first. Configurations regarding Project Code, duration, Start-End dates, Invoice Information, and Expenses are managed in this section. Newly created projects are made ready for Activity Entry according to their status.

There are separate transactions for Activity Entry and invoicing of entered activities. During the activity entry, detailed activity information (Duration, City / Out of Country information, travel time, etc.) and expenses spent during the activity (Travel Expense, Hotel, etc.) are specified in detail. Entered activities are filtered according to specific search criteria and billed collectively.

In reporting transactions, reports can be printed based on activities, personnel, and projects that are invoiced or expected to be issued at certain date intervals.

CALL CENTER MANAGEMENT

In the Activity Management module, service calls for projects can also be managed in an effective manner. Call Department, Type and Status, Workplace Location, and Terminal (Machine / Station) information belonging to customers should be defined as basic data.

Call location information, the working terminal, the machine/device/equipment used during service, and the historical development can be managed and reported in detail for each call.

Fast Call Entry transaction, which makes data entry much faster, is especially preferred in companies with a large number of calls.

Features

Overview

- // Fast project definition
- // Daily activity management
- // Activity billing and reporting
- // Expense management
- // Fast and detailed service call management
- // Related service call tracking
- // Device/equipment used information
- // Reporting according to call type and results

Automation

caniasERP Automation (AUT) module is designed to manage all manufacturing processes of a company and it is integrated with all modules of caniasERP. In order to manage the manufacturing business, having a management tool fully compatible with the system should be a priority for enterprises.

This module works in full sync with other modules, especially the Production Management module, to process all important data related to the production stages and control the production lines.

Production systems are connected directly or via a Gateway to the caniasERP system so that an integrated operation is provided. In this way, work centers become an extension of the caniasERP system. There is no need for extra effort to transfer work details to work centers and to collect production data from work centers. When work centers are connected to the caniasERP system, the work details can be accessed directly. In the same way, any production data in the work center is reflected in the caniasERP system online and no delays occur.

INTERNET OF THINGS - IOT GATEWAY

Automation systems vary according to the technological infrastructure and devices used. Examples include control systems with PLC (Programmable Logic Controller), DCS (Distributed Control Systems) and HMI (Human Machine Interface) combinations, and Computer Controlled CNC machines. One of the biggest challenges in these automation systems is that there are different communication protocols resulting from the diversity of the technological infrastructures used in the system. The data generated from these systems must be transmitted with different protocols and therefore, the development of a common communicator is the most important point in ensuring the ability of advanced communication.

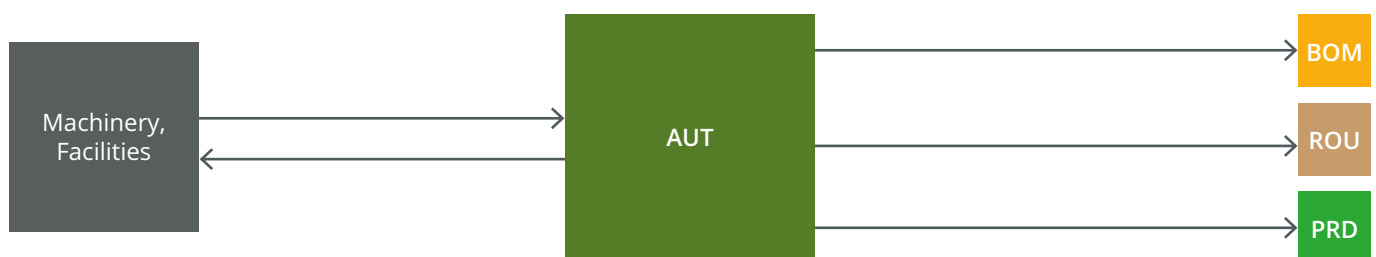
IoT Gateway in the automation module is a protocol-independent communication technology developed for automation systems. IoT Gateway is a tool

that provides double-sided connectivity between caniasERP servers and control devices, sensors, and smart devices. It allows seamless transmission of real-time industrial data directly to caniasERP servers. Thanks to this service, the data collected from machines managed with different types of control systems such as production, material, resource consumption (electricity, natural gas, etc.), and ambient values (temperature, pressure, etc.) can be monitored, analyzed, and visualized in real-time.

Data communication between different protocols and caniasERP can be provided with IoT Gateway technology in the automation module. Since OPC, MTConnect, and some PLC models are supported by special protocols, almost all brand and model PLC, DCS, HMI combinations and Computer Controlled CNC Machines can be used to control the data flow. Thanks to the rules defined in your caniasERP environment specific to your business, IoT Gateway, which can interpret the data transferred between machines, can provide specific controls on these machines.

PRODUCTION COCKPIT AND LIVE PRODUCTION MONITOR

The production environment data collected with the automation module is made meaningful by interpreting it in the Production Intelligence module. The efficiency of the production environment can be monitored in real-time with the KPIs (Key Performance Indicators) that can be defined for the Plant, Production Line, Capacity Groups, and Work Centers. KPI definitions are highly flexible and deviations can be monitored on the basis of the period defined for production environments defined in the system.



Img. 62. Integration of AUT-Module in the System

- // Reporting of Produced Production Data with Production Intelligence
- // Flexible grouping in the desired period
- // OEE, Usability, Performance, and Quality Scores
- // Actual and planned production quantities and durations
- // Actual and planned activity durations
- // Stop times and frequency according to stop codes
- // Waste quantities and frequency according to waste codes
- // Reprocessing quantities and frequency according to reprocessing codes
- // Planned/Actual report on additional information (temperature, pressure, etc.)
- // By-product production quantities
- // Personnel production quantities, production, and downtimes

INTEGRATION

Designed to manage production processes in companies, the Automation module works in sync with many modules, including the Production Management module, to process all important data related to production stages and control the production lines.

Production environment data, which are seamlessly transferred to caniasERP servers via IoT Gateway, can be monitored and interpreted by Key Performance Indicators (KPIs) defined in the Production Intelligence module for Plant, Production line, Capacity Groups and Work Centers.

Features

Overview

- // With IoT (Internet of Things) Gateway technology, the protocol can be controlled independently between production systems with caniasERP synchronization
- // Real-time production and monitoring of environmental values
- // Transferring production data via Electronic Data Interchange module
- // Customizable flexible architecture

#NEXT

Capacity Management

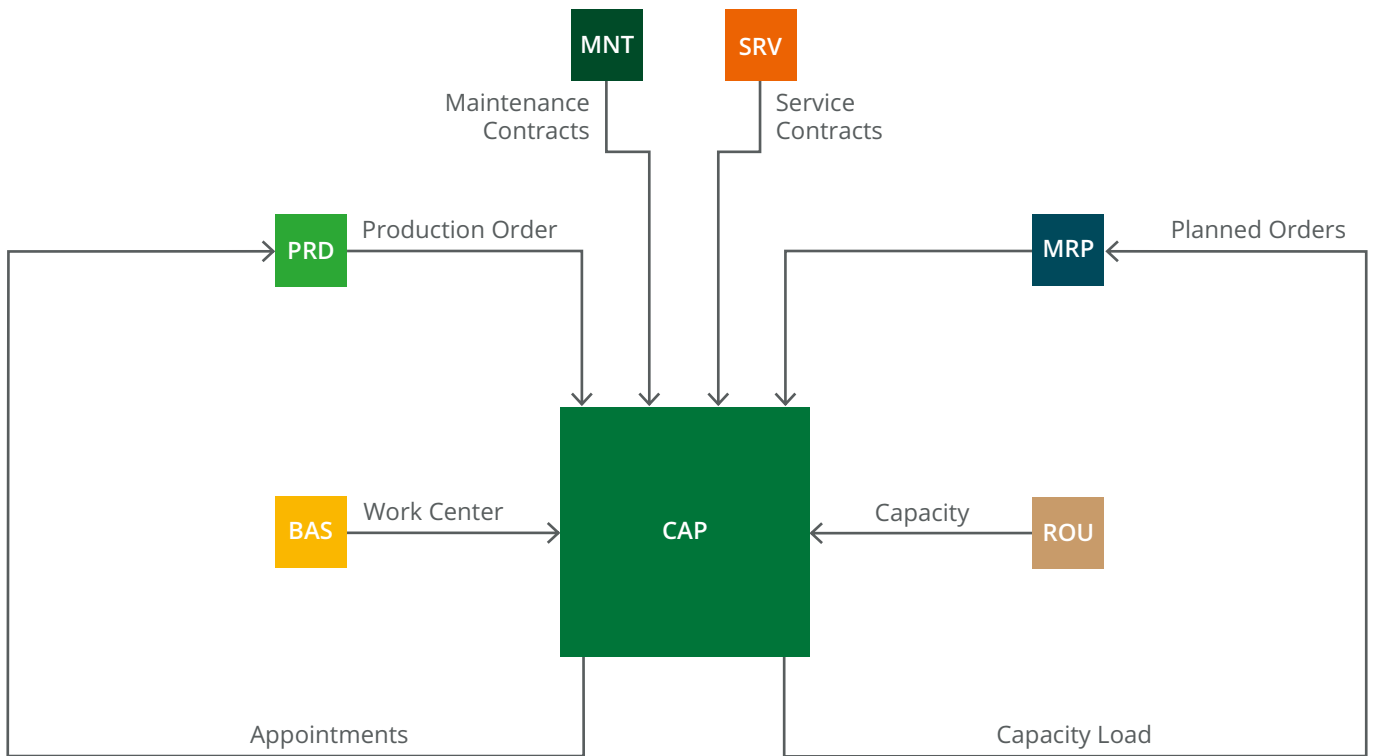
caniasERP – Capacity Management (CAP) module ensures that production orders within a certain period are given a deadline according to (based on) the resource constraints in production and are scheduled according to generally accepted methods.

This module can be operated with different criteria depending on production order type and work center. Multiple planning results can be stored and these results can be compared with previous plans. The performance of different strategies used in capacity planning can be compared through this feature.

There are multiple Scheduling Algorithms options supported by the Capacity Management module. Scheduling can be done by developing the most suitable algorithm for the needs of the enterprises. The extent to which scheduling, and optimization will be detailed is entirely left at the user's initiative. Different types of planning methods can be developed for different plants in the enterprise.

VISUALIZATION & TRANSPARENCY

The Gantt chart in the module lists the capacity utilization of each work center based on the production order or work center and graphically displays the relationship between them. With the drag-and-drop function, information such as the start time, duration and work center of operations can be managed directly. The graphical representation of Critical Path, Late Operations, Missing Parts, and General Scheduling performance in the module allows users to recognize possible errors early. In this way, rapid responses can be given to sudden developments in the chart and early intervention can be made.



Img. 63. Integration of CAP-Module in the System

TIMES & ACTIVITIES

Production ranges can be displayed in the Capacity Management module. In this way, the period between the beginning of production and the end of the finishing process can be observed. Thanks to this data, different information such as production time, setup time and transportation time can be reached regarding the operation activities. Information on the rate of use of work centers, the rate of efficiency and operating times (start and end time, waiting time, setup time) are available in the system and can be used for production control.

COMPREHENSIVE & NEED-BASED INFORMATION

Confirmation information for each operation is transferred live to the Capacity Management module. Here, information about production orders, such as start and end times, waiting times, workflow times, and shipping times between work centers, as well as delays in operation can be displayed. Capacity planning can be done by taking into account either the schedule of the work center or the factory calendar. The calculation is based on detailed information on waiting times, exception days, or shift system. In addition, information about the production relations and scheduling rules can be accessed through the system. Thus, production orders can be monitored, activities can be compared, and different charts can be analyzed.

ANALYSIS AND ACTION

Another function of the module is the work center comparison analysis. All the work centers involved in

a particular production process can be compared and optimized. For this analysis, the user is provided with a database of detailed information on each production order step. Various benchmarks can be used to compare relevant work centers, such as setup time, actual time spent working, and machine capacity. It is also possible to display the capacity utilization in the module. This feature tells the user what resources are used and how much of the resources are used and consumed in the relevant production order. The Capacity Management module also provides data on staffing capacity, which employee to operate in which activity, staff capacity status, and other planning for non-evaluated capacities.

CUSTOMIZED SCHEDULING ALGORITHMS

Enterprise-specific capacity rules and constraints can be defined in detail to obtain maximum performance from the Capacity Management module; In addition to performing an analysis of possible delays, it is also possible to optimize the setup times and organize the resources. On the other hand, priority rules can be defined on a plant (organization) basis and performances can be compared there as well. Sequence-dependent setup times (including inter-operation times) can be determined and specific constraints can be defined for preparation times. Another function of the module is to create capacity groups. Work centers with the same or similar tasks in terms of capacity can be grouped. Capacity bottlenecks also play an important role in this module.

INTEGRATION

The integration of the Capacity Management module with the entire system provides considerable advantages in production scheduling. Managing all processes through a single system allows users to evaluate and analyze the overall situation of companies by greatly reducing the workload and risks. According to (in line with) the results of production planning evaluated after the scheduling, the actions to be taken are much faster and more convenient thanks to full integration. The module is closely integrated with Production Management, Material Requirements Planning, Maintenance Management and Routing Management modules.

Features

Overview

- // Scheduling algorithms that can be improved according to (based on) needs of enterprise
- // Compare capacity plans on Gantt Chart
- // Compare performance
- // Operation management with drag-and-drop function
- // Optimization of production times and resources
- // Setup optimization
- // Analysis and report

#NEXT

Maintenance Management

caniasERP Maintenance Management (MNT) module is tasked to ensure that the plants and technical systems continue to function at their intended functional capability or to reactivate them if they are disabled. Preventing system outages and prolonging machine uptime will ensure a secure workflow and efficient operation of maintenance work. Companies can guarantee their work security with this module.

PERIODIC MAINTENANCE

The Maintenance Management module allows companies to easily monitor maintenance plans. Performing periodic maintenance works to maintain the functional integrity of the companies' technical systems requires having a careful follow-up process in place. The devices and systems used for maintenance are defined as maintenance objects and their updated records are kept in the module. Maintenance methods can be determined for each maintenance object and the necessary definitions can be made with the Routing Management module. Additionally, the machine type and periodic maintenance interval data are stored in the Base Data Management module and the serial number is saved in the Maintenance Management module. With these records, maintenance plans are created according to the data defined in the system for each serial number. The planning process for

maintenance can be done by the user as well as set to be automatically done in regular periods and takes place automatically according to the type and period of the periodic control to be made. The planned time is then saved as a maintenance plan.

REPAIRS DURING FAILURE

Failure to respond to unexpected situations, such as system failures, can cause financial losses to companies. To avoid downtime while fixing or replacing, companies need to take quick action. In the repairs performed after a failure, the Maintenance Management module records failure messages and works done to repair the technical problem in the system. Thus, a maintenance order is created based on the information registered on what needs to be performed. This fast-moving process provides companies with in-

formation on the time needed and spare parts that have to be ordered.

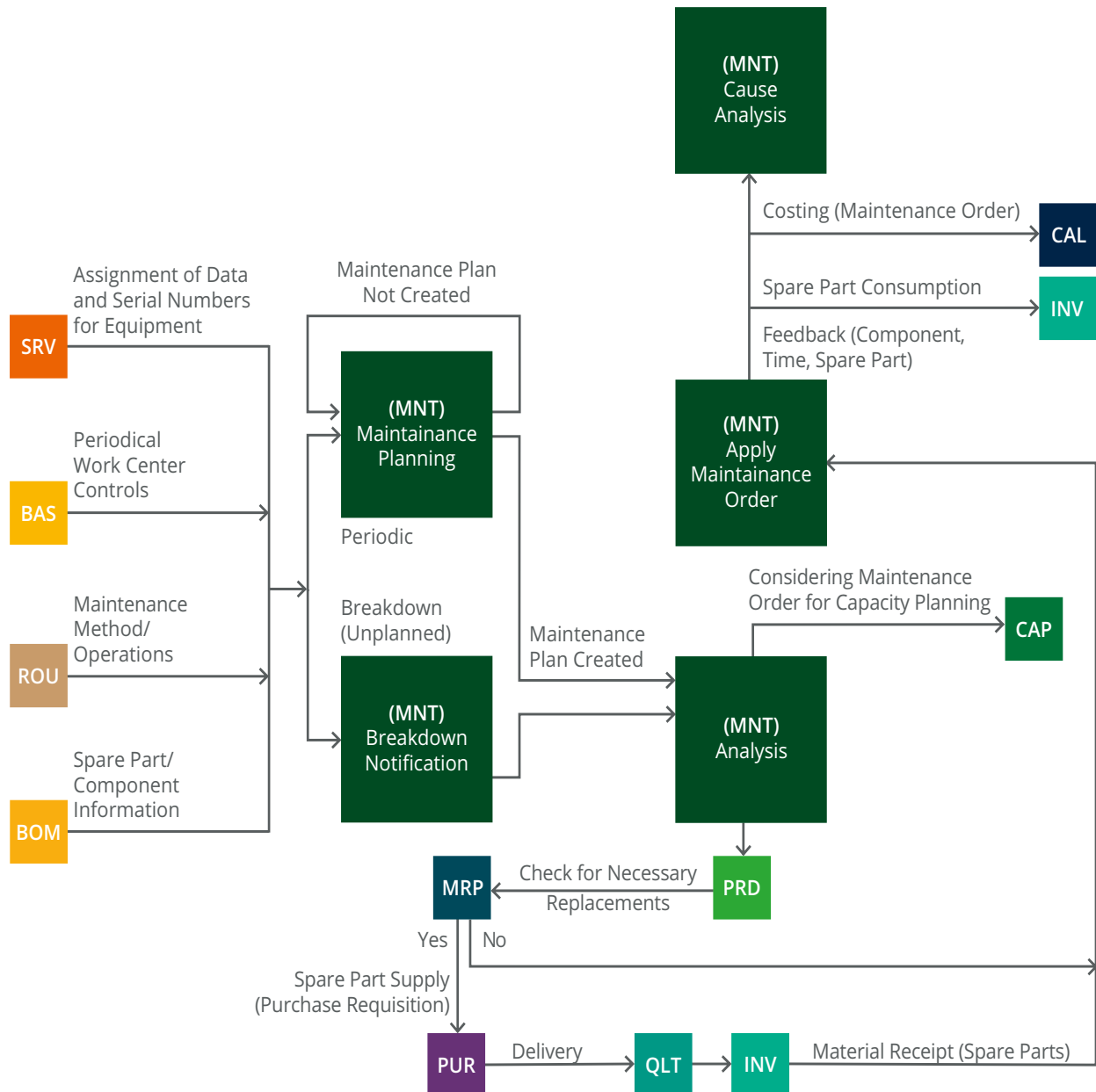
MAINTENANCE CONFIRMATIONS

Once a maintenance order has been executed, a confirmation for the applied procedure is given. In this way, details such as periodic maintenance or repair of which maintenance object is applied including how much time it took to repair and if any spare parts were used would also be recorded in the system.

PROCUREMENT OF SPARE PARTS

With the caniasERP system, companies can easily perform complex processes such as maintenance, spare part procurement, and stock management. When a maintenance order is initiated for periodic maintenance or a failure, the system can be used to identify

and plan materials such as spare parts required to fulfill a certain order. With its successful integration to other modules, the Maintenance Management module offers you fast solutions. All spare parts that would be considered for a maintenance object are saved in the Bill of Materials Management module. The used components are taken out of stock automatically or manually according to the user's preference through the Inventory Management module during approval. With the Material Requirements Planning module, the procurement processes of the missing parts required for maintenance or repair work can be created automatically. This procurement process is carried out by the Purchase Management module or Production Management module. When the purchased parts are delivered, they are saved in the Inventory Management module as the available stock with the receipt of the goods and used for the necessary maintenance.



Img. 64. Integration of MNT-Module in the System

EVALUATION AND ANALYSIS

All available information collected for maintenance purposes is used as the basis for the more systematic execution of future maintenance plans. With a variety of assessments made through the Maintenance Management module, companies could monitor the maintenance of their technical systems to secure their workflows in a timely manner. Various analyses can be performed with confirmations from maintenance and repair orders and base data taken from periodic checklists. These analytics contain information on complaints and maintenance work that occurred. Such assessments provide companies with reports on reasons, solutions and time and money spent on maintenance work. In addition, the integration of the module with the Production Cost Management module allows the final costs of maintenance and repair work to be performed to help control costs.

INTEGRATION

Users don't need the interface to link modules between the caniasERP software, which works flawlessly with all the different modules. Thus, the data is kept up to date and the processes required for the maintenance service are started automatically. The information stored in the Bill of Materials Management, Routing Management, and Base Data Management modules creates a base of data for the creation of maintenance plans. Maintenance plans and maintenance orders are created and executed through the Material Requirements Planning and Maintenance Management modules. The procurement process of the required spare parts is also carried out with the help of the Materials Requirements Planning, Inven-

tory Management, Purchase Management, and Production Management modules. It is vital that preventive maintenance work is carried out in order to keep the technical systems working at a high-performance level for a long time.

Features

Overview

- // Maintenance component arrangement (Machines and systems)
- // Creating periodic maintenance plans
- // System recommendations for upcoming maintenance plans
- // Creating and processing periodic maintenance orders
- // Inspection of maintenance and repair work according to capacities
- // Failure Management in place
- // Chronological maintenance lists
- // Checklists for information on the status of maintenance plans
- // Calculation of maintenance costs
- // Various analyses for maintenance orders and maintenance approvals
- // Complete integration into the overall system

#NEXT

Production Cost Management

caniasERP Production Cost Management (PRC) module is used to calculate the costs of manufactured products. In this module, the production cost value consists of three main components: the cost of raw materials, the cost of the expenses entered into the cost centers, the amount of the invoices paid for the external operations.

The amount of raw materials is provided by the Inventory Management module, the activity amounts are provided by the Cost Centers Accounting module, while the external operation invoices are provided by the Invoice Verification module. In addition to providing data for the internal reports, the cost values are transferred to accounting by integration with the Financial Accounting module. The successful integration feature also provides a practical calculation of the cost results in the period closures.

COST REPORTS

The module offers a wide range of reporting options to users. Some of these reports are used to check the accuracy and consistency of data from other modules and to calculate production costs without error. In this way, the determination of the changes that need to be completed before the production cost calculation can be made easily.

In addition, using the data generated as a result of the calculation of production cost; 'Material Consumption Analysis', 'Activity Cost Analysis', 'Production Order Cost Analysis', 'Product, Scrap and External Cost Analysis' can be done.

These reports with the detailed information are easy to understand with their simple design and allow the user to navigate freely.

COST CALCULATION

In the Production Cost Management module, all amounts calculated taking into account the cost elements based on the production orders are reflected in the inventory receipts of the production orders to which they belong. The costs of products that differ in the production process in a period can be calculated in a realistic way through this method.

Also, by taking into consideration the operation structure of production orders, the costs of the inventory receipts of items such as by-products, products to be reworked, and semi-products can be calculated.

The cost of production orders which are open during the cost calculation is transferred to the next period in accordance with the reality.

COST ACCOUNTING

Results in Production Cost Management module are automatically transferred to accounting. Reflections of product and expense accounts are generated, and the cost results are accounted. Thus, closing of cost accounts without adding new accounting documents can be checked.

MULTIPLE ACCOUNTING STANDARDS

In the Production Cost Management module, product costs can be calculated separately for each different accounting standards such as TMS, IFRS, USGAAP and TFRS. In this way, cost results can be reported according to different accounting standards and these results can be easily compared with each other.

REAL-TIME COST

With the real-time cost calculation feature of the module, the costs of raw materials, semi-products or inventory movements of the products are calculated instantaneously, and the calculated amounts are accounted over the standard or walking weighted average cost.

COST SAVING ANALYSIS

Sales dispatch price, sales invoice price, standard cost, actual cost and distribution scheme and additional costs distributed to sales items can be reported in caniasERP system. As a result of this process, profit-loss analysis can be done by reporting the deviation rate.

INTEGRATION

The Production Cost Management module enables the creation and reporting of cost results without the need for data transfer due to integration with the following modules:

- // Inventory Management
- // Cost Centers Accounting
- // Production Management
- // Invoice Verification

Considering that the cost results should be given at a limited time in period closures, this advanced integration saves users a lot of time. The results can also be transferred to the Financial Accounting module.



Img. 65. Integration of PRC-Module in the System

Features

Overview

- // Integration that does not allow duplicates
- // By-product, rework material and semi-product cost calculation
- // Production cost calculation
- // Raw material consumption costs calculation
- // Activity costs calculation
- // Calculation of external operation amounts
- // Periodic calculation of product costs based on production order
- // Transfer of non-reflected amounts to the inventory receipt (Work-In-Progress cost)
- // A wide range of reporting options
- // Detailed production order cost analysis
- // Material consumption analysis
- // Contract cost analysis
- // Analysis of overhead costs
- // Product and fire cost analysis
- // Analysis of cost items
- // Planned and realized cost distribution analysis
- // Standard - actual cost comparison
- // Cost calculation with multiple accounting standards
- // Transfer of cost results to cost accounting accounts
- // Real-time cost calculations for semi-finished products or products
- // Consistency control across the caniasERP system
- // Control of records included in the cost account
- // Controlling the consistency of inventory, production and accounting data

#NEXT

Production Management

caniasERP - Production Management (PRD) module contributes to the optimization of all production processes of enterprises with its adaptability. This module, which allows single-level or multi-level production, enables the production plans created by the Material Requirements Planning module to be converted into production orders and managed.

The Production Management module, which can be integrated into the entire system flawlessly, ensures a successful data flow. Therefore, companies can realize a transparent, consistent, reliable and efficient production process. The production orders generated on the module include all the requirement information for the production, such as the quantity of the product to be produced, the variant, the BOM components and the route operations. During the creation of a production order, the missing material analysis is performed automatically. This module employs forward or backward scheduling, and it allows the operations to be given a new deadline accordingly with the help of detailed planning types. It is also possible

to acquire information on resources and the use of resources. Another feature is to make 'Planned' and 'Actualized' comparisons for production levels, input quantities and production quantities in this module.

PRODUCTION ORDER FEATURES & MANAGEMENT

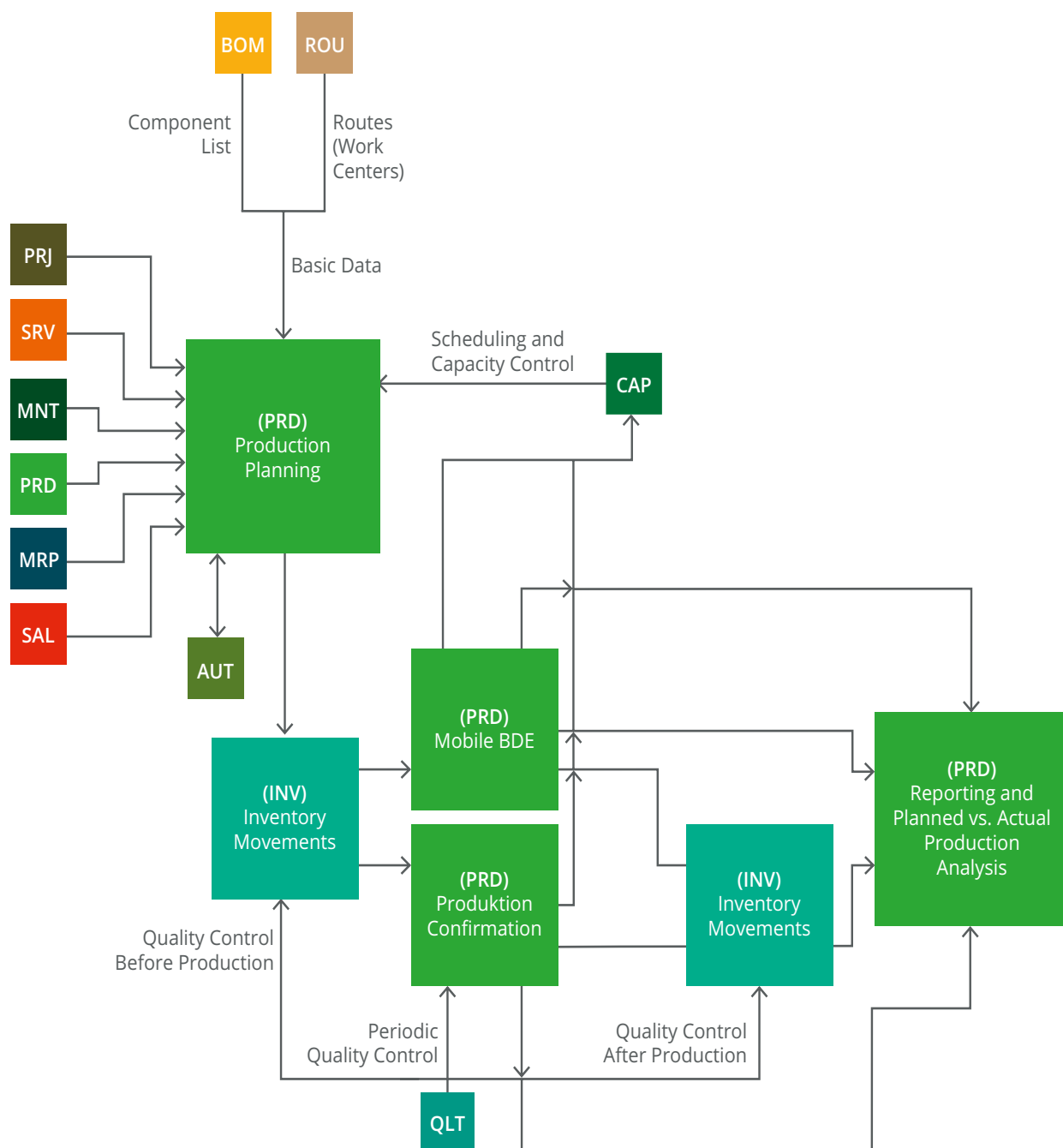
In the Production Management module, it is possible to perform single-level or multilevel production (that includes semi-products needed for product and production). This module allows the production of similar products to be managed with a single production order, or it can be used for disassembly production. The production plans created by the Material Require-

ments Planning module are not considered as (to be added here) production order. The plans created in the Material Requirements Planning module can be converted into production orders with the 'Convert from Plan to Production Order' feature in order to initiate them as production orders. The module can automatically convert the production plan containing the required quantities of the relevant material into the production order when needed.

During plan conversion, the values suggested by Material Requirements Planning can be used for routing purposes as well. During the creation of a production order, missing material analysis is performed automatically. In this analysis, whether the required components are present or not can be checked. The

relevant parts can be automatically reserved for the required date so that a proper material flow is ensured.

It is also possible to create external processes in the module. Production orders can be monitored continuously by defining external operations. The materials that will be used during the operation can be transferred from company stock to the vendor that will perform the external operation, and the External Products resulting from the operation can be taken into inventory. These features make it easy to track the parts or the product.



Img. 66. Integration of PRD-Module in the System

OPERATION PLANNING

The integration of the Production Management module with the Capacity Management module enables the most optimal resource planning for the relevant production order. With the help of the detailed planning types, the operations can be scheduled forward, backward or from any stage and their deadlines can be recalculated accordingly. In addition, the module provides information on resources, use of resources and BOMs. Thus, all operational data included in the relevant production processes are taken into account in the Production Management module's planning.

Similar operations can be planned and approved together with the Operation Combination method in cases where common resources of the enterprise are used for similar operations. This feature saves time and cost by maximizing the occupancy rates of the machines in the enterprise. In addition, a prediction for the production process can be generated through the real-time monitoring of the module, if desired. Important documents for the production process such as Material Consumption Report or Production Order Report can be generated via this module.

PRODUCTION CONFIRMATIONS

After an operation is partially or fully completed, an amount of confirmation same as the completed amount should be given. Through the integration with the Quality Management module, the quality control process can be initiated before, during, or after the confirmation according to (in accordance with) the assigned test plan. Production Confirmation screens can be customized for any user. There are three different confirmation methods in the module: 'Normal', 'Simple' and 'Quick' Production Confirmation. They are named according to (in line with) the details required during confirmation.

Automatic inventory consumption of the components used during production can be made through different methods. If all operations related to the material to be produced again are confirmed, automatic inventory receipt can be performed for the product. In addition, confirmations and inventory movements can also be recorded with barcodes or manual entries. Thus, all the components produced can be monitored completely.

ANALYSIS & EVALUATIONS

In this module, various analyzes (analyses) to determine and evaluate the optimization potentials in production are presented to the user. These analyzes (analyses) allow the user to evaluate different topics, such as work centers or cost centers based on various criteria. It is also possible to make 'Planned' and 'Actualized' comparisons for production levels, input quantities and production quantities in this module.

In the Production Management module, semi-product WIP (Work-in-Process) analysis is also provided to calculate the value of the components currently in production. In addition, re-processing and scrap analysis are also available in the module. Thus, the production BOMs and routes, that differ from their main BOMs and routes, can be compared with their originals. The tool management feature in the module provides a source simulation to identify the resources used during the operation, as well as to determine the optimization potentials.

INTEGRATION

Through its integrated structure with the caniasERP system, the Production Management module can exchange information between other modules flawlessly. The module, which is fed data (whose data is fed) directly by the automation module, is also used as a data source for the Production Intelligence module.

This module has integration with modules such as Base Data Management, BOM Management, Route Management, Material Requirements Planning, Capacity Management, Sales Management, Project Management, Inventory Management, Warehouse Management, Transfer Management, Maintenance Management, Quality Management, Standard Cost Management, Production Cost Management and Cost Centers Accounting

Features

Overview

- // Alternative Management
- // Variant management
- // Optimization of production processes
- // Usage with different production order types
- // Multi-level production
- // Operations Scheduling
- // External Operation Management
- // Operation grouping concept for similar operations
- // Instant stock tracking for materials to be used in production
- // Resource management
- // Inventory movements that can be managed according to (based on) needs
- // Diversity in operation approvals
- // Effective cost management
- // Detailed analysis and reporting

Production Intelligence

caniasERP - Production Intelligence (PRI) module is used to report all the production processes of enterprises in detail. The efficiency of the production environment can be monitored in real time with the KPIs (Key Performance Indicators) that can be defined for a Plant, Production Line, Capacity Groups and Work Centers. Through the extremely flexible structure of KPI definitions, deviations can be followed based on the period defined for production environments in the system.

OVERALL EQUIPMENT EFFECTIVENESS - OEE

Total Equipment Efficiency (OEE), one of the tools used in lean production applications, focuses on increasing the performance of machinery and equipment within enterprises. Based on three main factors—Availability, Performance, and Quality, OEE focuses on losses such as downtime, failures, scraps, and rework.

Availability score is calculated by taking the ratio of time spent on production to the planned time for production. The performance score is calculated by taking the ratio of the actual speed to the planned speed on the production order. Finally, Overall Equipment Effectiveness is calculated by multiplying these three scores.

The OEE report can be examined on tables and histograms, as well as by grouping based on daily, weekly, monthly, yearly periods and material, capacity group, work center, shift and personnel.

LIVE PRODUCTION MONITORING

With the Live Production Monitoring feature found in the Production Intelligence module, it is possible to track the production processes in the work centers

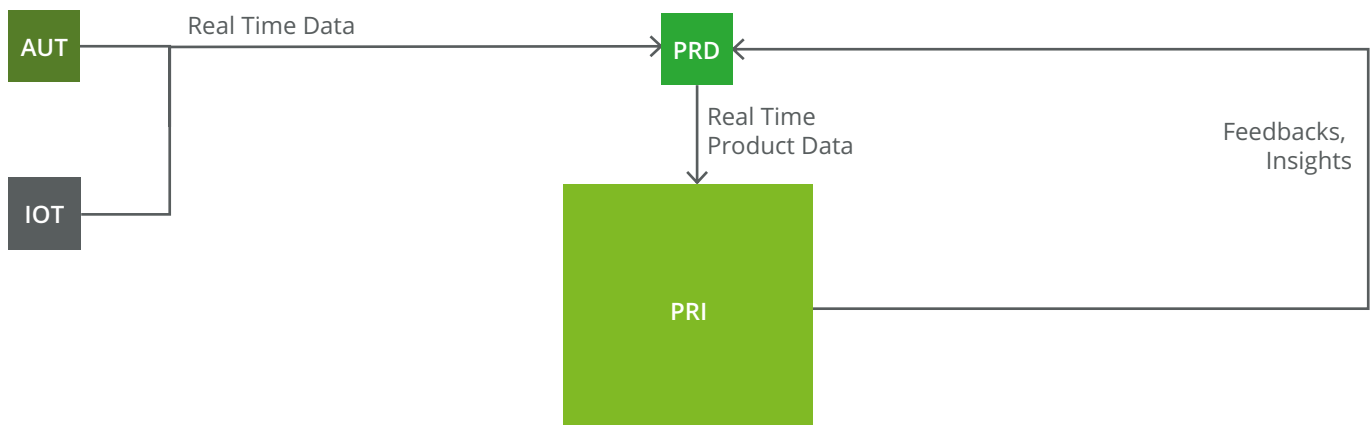
based on periods via user-defined key performance indicators. Detailed information such as instant operation information, live speed graph, planned - realized activity times, quality products, scraps and rework amount of each work center can be accessed with this feature.

DETAIL REPORTING

By using the Production Intelligence module, planned and actual activity times based on production order operation and scraps, rework, by-product and product quantities can be compared between two determined dates. If there is a confirmation metric for the material to be generated as a result of the operation, it is possible to report that data as well. The reporting process can be on a table or histogram.

INTEGRATION

The Production Intelligence module works in sync with the Production Management and Automation modules. The production environment data collected by the Automation module is interpreted in the Production Intelligence module and made meaningful so that the control of the production lines is ensured.



Img. 67. Integration of PRI-Module in the System

Features

Overview

- // Desired grouping in desired periods
- // OEE, Availability, Performance and Quality Scores
- // Actualized and planned production quantities and times
- // Actualized and planned activity durations
- // Times and frequency of failures according to failure codes
- // Quantity and frequency of scraps according to scrap codes
- // Quantity and frequency of rework according to rework codes.
- // Additional information (temperature, pressure, etc.) reports
- // By-product production quantities
- // Production quantities, production and downtime on personnel basis.

#NEXT

Project Management

The Project Management (PRJ) module enables planning and management of projects effectively and analysis of details of important project-specific factors. Developed by taking the International Project Management Methods into account, this module takes the principles of PMBOK - Project Management Guidance Guide into consideration, which PMI - Project Management Institute uses as a worldwide standard. With the help of the Gantt chart showing automatic status notifications and detailed project structure, a fast and reliable control can be performed for the projects; project information can be managed in all details. Project Management module is fully integrated into the system; thus, it is possible to use the data in two ways.

PROJECT PLANNING

In the Project Management module, the EPS - Enterprise Project Structure is initially created in the company. This structure has a hierarchical architecture that categorizes the projects and facilitates classification. Newly created projects are placed in appropriate categories within the EPS structure. In a project, WBS - Work Breakdown Structures are used to categorize the Activities we describe in the project. Work Breakdown Structures often represent the phases of a project and can have a hierarchical structure as in EPS. With the determination of the project phases, Activity Planning can be started. The characteristics of the activities, the Milestone points and the description of the project resources are planned in detail in graphical or table form. Following the scheduling of activities, both the workflow plan and the critical path can be established comprehensively to determine the overall temporal flow of the project. Work Breakdown Structures and Activities can be monitored over the Gantt chart at the temporal level.

In the Project Management module, existing projects can be used as templates for new projects or small projects can be integrated into larger projects as sub-projects. Thus, projects are planned and managed more quickly and effectively. Centrally managing, approving activities and monitoring all changes instantly increases the effectiveness of project management. When the activities are completed, automatic feedback is performed to ensure quick response to improper developments.

Changes, additions, and deletions can be made at any time in the project components such as activities, work centers, resources, materials or employees in existing projects. A Project Baseline can be created to obtain an overview of the immediate project situation and progress. The Project Baseline can be created and compared based on cost and activity, both graphically and as a table. Here, a comparison is made between current projects and different projects, considering the costs, workflows, and resources in the project. A To-Do List can be created to remind users of the

important things to do within the activities and to get approval. In this way, fine details cannot be overlooked during the realization of the activity.

EDITING INVOICES

In Project Management module, approvals for each project component can be invoiced individually or collectively. Invoices can be generated for all costs under the project, such as activity costs, materials, resources, service types and expenditure costs. If projects are supported by a fund, the funds can be managed from within the project and the project can be stopped according to funding delays. They can also be invoiced for funding once they are completed.

CALCULATING COSTS

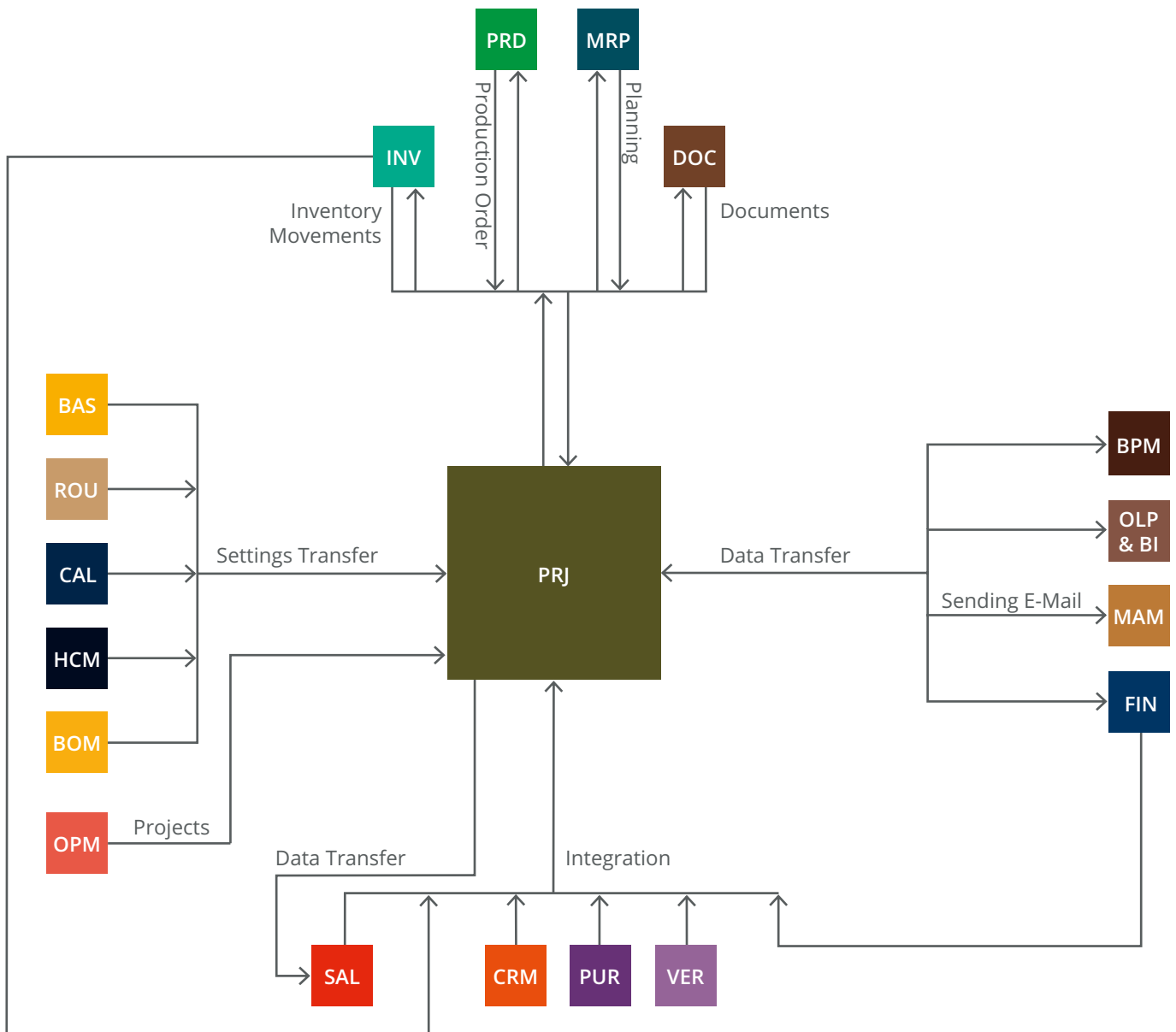
In the Project Management module; planned costs can be calculated based on activities, materials, re-

sources, and services to be used at any stage of the project. The cost and actual cost planned for approved activities or overall project can be compared. Project Baseline can be calculated at any time and the project plan and progress can be followed.

INTEGRATION

Integration plays an important role in the Project Management module. The resources used and managed in other modules have been put into direct use in connection with the relevant stages in project management. Centralized storage of all documents in the Document Management module also enables efficient and well-structured management of information.

The integrated structure of the module enables the creation and realization of projects from the Sales Management module. A sales document can be used



Img. 68. Integration of PRJ-Module in the System

as the basis for the creation of a new project. Similarly, the resources and planned costs needed for a project can also be simulated before the project is created. Project progresses, such as approved activities, services performed or material consumption, can be invoiced to customers individually through the Sales Management module before the project is completed. With the integration of the module with the Purchase Management, data such as the term, quantity, and supplier related to deliveries are transferred to the Project Management module and managed here. Thus, a rapid response can be given to changes during the purchasing process.

The module has an integrated structure with Production Management and Capacity Management modules. Thus, production plans and production orders can be monitored and controlled through this module. The integrated structure also allows for the establishment of scheduling links between production orders and projects.

Features

Overview

- // Comprehensive planning on costs and resources
- // Efficient management and scheduling on the project with Gantt Chart
- // Hierarchical structure categorized by its fractured structure
- // Chart and table viewable and comparable project baselines
- // A To-Do List which can be used for reminder or confirmation at important points of the project
- // Ability to generate invoices for all costs under the Project
- // Fund management
- // Comparable planned and actual cost report

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