DISKOVER®
SCT SOFTWARE

Hama GmbH & Co. KG

Streamlined planning through the use of flexible Standards with disk over

- High Level Of Planning Security
- Skillful Composite MRP
- Clever Delivery Time Monitoring

Hama up to 10,000 packages per day, Monheim logistics center with a total of 70,000 pallets. Digital radios, TV wall mounts, patch cords, voice-controlled Bluetooth speaker pockets for phones, chargers for mobile phones and Tablets, computer mice, or photo tripods and school backpacks are only a small representative selection from the diverse portfolio items. Maximum availability of goods at a minimal delivery times is in the focus.

The planning challenge

The example mentioned article, which are subject to strict internal technical audits and quality checks to leave the first conjectures on special challenges for the planning and Supply Chain Management in Hama flash. A large part of these products is subject to extremely rapid change, either technologically or fashionable. To make matters worse, many of these products have long replenishment lead times, as they are sourced from the far East and the delivery producers usually no stock to hold.

At the same time, the Hama-client short response and delivery times are to be expected also in the case of larger quantities.

Selected Partner-customer offers Hama in addition, a so-called Were-Clearing. This means that on the Basis of contractual agreements and release of Hama returns are also available in a larger extent possible. The result is thus, in part, significant amounts of Hama delivered goods are returned weeks later as a return of Hama, resulting in a relevant second material is not access to electricity, which affects the quantity and inventory planning irrelevant.

Some examples of the various requirements, which Hama in planning and scheduling confronted with are:

- Article with high promotional content and special needs
- in addition to generally applicable articles customers - or regional - and country-specific article
- four different types of cargo in the procurement, logistics, combined in the order of the items on an article
- dynamically growing season prices in the procurement
- Bulk order (collaborative planning) with and without the optimized Container filling
- Splitting of order quantities of an item in the dimensions of the date of delivery, and type of cargo

- efficient Management of reservations and assignments of Material in the feed to a position of readiness for delivery versus customer
- Parking of planned orders to the careful implementation of supplier requests followed by an approval process in dependence on economic criteria
- Delivery time controlling and time of delivery parameterization in the procurement
- The identification of the goods receipt date on the Basis of the applicable order or phase (planned order, Cargo Ready for Delivery, in Transit).

The required system support With a new planning system, which conforms precisely to the diverse requirements of the Hama-business model and the Hama-processes, followed Hama, two essential goals: on the one Hand, the desired delivery readiness and the simultaneous optimization of the necessary stocks should be ensured in a sustainable manner. On the other hand, the efficiency and the transparency will be improved in the planning as well as planning, safety and quality are increased.

Hama solves this complex task with the APS-Software disk over. The planning tool, which is developed by SCT GmbH, covers with his

Standard functionalities of a large part of the Hama requirements, meaning that the Standard could be implemented in many Parts of one-to-one. Partially, but had to adjusted the default functionality or extended or even new functionalities and implemented to be designed.

Crucial for a timely goal of achieving a decisive advantage of Standard Software was, and still is, that the standard functionalities can be implemented quickly and that this behaviour is a very stable and fast runtime. In the second step, but it is essential that the Standard is flexible and responsive necessary adjustments and extensions to, the system processes in a timely manner can follow the very specific requirements of the firm's business model. It is, therefore, the Standard and the customer's individual requirements in the best possible way merge.

Following this principle, the requirements in Hama, the combination of a very efficient and inclusive implementation of the project to Identify and Initialize Adjustment, as well as the

Control and Monitor the implementation of the high-performance process model for software development (SCRUM) in the case of the SCT GmbH extremely powerful, proven.

Hama has awarded the project in terms of personnel and capacitively a high priority. Stakeholders from all areas of the company, as well as the future users were closely involved in the project. A regular, timely, and close communication between the Hama core team, the stakeholders, the disk-over-users, the advice (Abels & Kemmner) and the development (SCT) was, at any time, ensure that expectations and requirements of the customers at the right time could be introduced with the right priorities in the implementation process.

The many different points in time, and the content of the sequential GoLive phases are summarized and the development of controls to be loaded. The methodology of the SCRUM process model of development - starting with the requirement analysis to the last step of the Installation in the productive system to ensure the implementation of adaptations at high performance and strict adherence to internal and external quality assurance can be implemented requirements in terms of content and time schedule.

Particularly important is flexibility, and responsiveness in system implementation and customization also because some of the requirements, caused by the theme and content of its overall complexity, even in the course of the project have clearly changed were. The lack of adaptability of the Software and / or the development of methodology would result in such cases, it will inevitably lead to major disruptions and delays.

Hama has to customize the standard functionality of the disk over varied or extended, so that the solution covers the requirements of the Hama-business model in the best way possible. A crucial factor in the success of the flexible design of the disk-over-system, which prevents customer-specific adjustments to the Release ability of the system will be adversely affected.

About Hama

In 1923, in Dresden, Germany founded in and since 1945, in the Bavarian town of Monheim home, it is the Hama GmbH & Co KG today one of the leading accessory specialists. The range includes about 18,000 products in the areas of consumer electronics, Computer, telecommunication, photo/Video, and electric home appliances. In addition to the brand **Hama** for more of Own and partner brands to the trade offer.

Worldwide, more than 2500 employees at 20 locations for the international companies operate, 1500 of them at the headquarters in Monheim.

- 86653 Monheim, Germany
- Trade in electronics accessories
- www.hama.com

On behalf of many other adjustments to be called in the Following three, which have provided for Hama, a significant improvement in terms of planning quality planning effort:

Bulk Order / Composite MRP

The order is for Hama is a very important and frequently used business process. Therefore, in particular, a variety of adjustments were made to the already very comprehensive Standard in order to make the process even more efficient and user-friendly.

In the Standard system the order is intended to concentrate on the basis of MRP groups, the orders of a compilation of articles so that an existing transport capacity, for example, a Container or a truck, is used as efficiently as possible. This is the case, for example, if a maximum weight or volume observed and to this terms of filling of the transport unit range-oriented padded to be.

Various minimum and maximum conditions, for example, order value or minimum complied with the order quantities.

This Standard is based now, among other things, the following adjustments were made:

- Conversion of the Central functionality of the MRP group system, from Material ordering to reference sources, which are in Hama from the supplier name, supplier number and type of cargo
- In the collection order result will be displayed, if available, bulk prices.
- New fields "Container filling" and "Lieferantentyp" support the control of the Association of bulk order functionality to articles.
- Change in the observance of the restrictions, the layout in the creation of the order of the conditions
- separate display of the Range and the number of pallets in the order items

- alternative ways of joining in the collective order:
- Bulk order for MRP group
- free collection purchase order on any article
- customized order with the Start of an article and offer the MRP of the groups to which he belongs
- Checkbox for the determination of the transfer of the head or position date in the order
- Warning to item, where the master data information for the execution of the purchase order are missing, such as weight, if this is a restriction
- free summarizing planned orders to a total order (without container filling)

With the adjustments in the order showed, as well as several other Changes, that the acquired customers use a gain for the Software. For this reason, several Changes in the new product standard, and was able to make a further step forward.

Delivery times-Monitoring and parameterization

In the Standard disk over SCO in the procurement of various time components from the leading ERP System, which will then be assigned to the sources of a material.

These components include the delivery, the flow, the Transport and the safety time. It can also be awarded to the article, in addition to a goods receipt processing time. It should be no lack in the ERP System, these parameters may be, for example, about the nightly automatically current set of rules, in the disk-over-SCO.

Hama, however, pursued from the beginning the approach, which can parameterize very high replacement times more precise and differentiated to allow for the planning accuracy for a further leap in quality.

The adjustment of the Standards was to disassemble the existing time components into finer sections, and the accuracy of the time of the components by the analysis to increase the times.

So, for example, the delivery time will be in the third-party procurement has been divided into the components of production time (the supplier), transport to the port, the transportation time from the port and the transport time. Furthermore, it should play only the item-supplier combination, but the combination of item, supplier, and cargo type. This requirement is obvious, if you just items from the far East sourcing "by Air" and "by Sea“ in time compares.

So a very sophisticated multi-stage calculation of the time of delivery, depending on the different types of cargo-designed and implemented, which results to the delivery time parameterization, and thus the automatic and permanent optimal setting of all time-components. An example is given of the multi-stage calculation of the transit time from the port. In the first step, it is checked whether a certain article, a sufficient data base in the Form of a sufficient number of orders in a meaningful calculation exists. This is the case, the time above the Median at the level of the supplier, the type of cargo (in this case, it is "by Sea“) and the port of Departure, is calculated. If this is not possible, because the Information of the

Port of departure is missing, the calculation is performed at the level of the supplier and the type of cargo. Also this does not work, is the next stage of the investigation to the combination of the supplier's country and type of cargo. There are other calculations, for example, in the Absence of required detail information viewing the combination of the supplier's country and type of article. That, for example, article novelties treated differently, and various calendar will of course be considered.

In the result of Hama is now able to be configured by a very fine delivery time monitoring of all the time component at its optimum and variance analysis (Is-Is the use of comparisons) for Supplier meetings. In addition, the fine Separation of the procurement time allows a sequence of a correspondingly fine tracking open orders by the individual stages of the order, from the time of order until the goods are made input in the disk over SCO and thus the transparency of the respective elements, and as a result, the current supply situation is greatly increased.

SCT GmbH Supply Chain Technologies and DISKOVER

Today, companies are not only with their products but also with their Supply Chains in the global competition. The SCT GmbH Supply Chain Technologies with disk over a powerful Supply Chain Planning and APS Software designed to help businesses, their supply chains in an efficient, flexible and future-safe.

DISKOVER, which helps users in their Supply Chain, their management and capacity planning, inventory quickly, well-informed and to optimize sustainable. The Software combines proven methods from the field the most advanced technologies – including elements of Artificial intelligence, about the automated forecasting, optimization, and dynamic determination of safety stocks.

In cooperation with the Supply Chain expert of Abels & Kemmner we are continuously working on new, comprehensive solutions for your Supply Chain Management success. The result: More transparency, better quality of planning – including S&OP and PP/DS, lower stocks and an agile Supply Chain that delivers real value.

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