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VALUE STREAM TECHNOLOGY™

## Pro-active Manufacturing Monitoring Value Chain Early Warning Portal

*Ensuring Smooth Manufacturing Operations  
Monitoring Material Availability & Planned Supply Operations*

TRANSPARENCY

### Pro-active Monitoring of Global Supply Chains

The trend of *globalization* and integrated multi-level supply chains provide many advantages in lowering prices and integrating world-wide operations and supply, however, global supply chains are complex and in case of unforeseen events they may be even fragile. On top of this in *lean manufacturing* environments inventory levels are very low and late deliveries or any interruption to the supply stream can cause serious issues and even costly assembly line stops.

Enabling material planners to monitor not only the supply chain but the entire value chain, external and internal, is the challenge many companies face today. The objective: ***Avoiding any impact on manufacturing operations*** saves thousands, hundreds of thousand even millions of dollars or euros in single incidents, since stopping production means lost productivity and lost product value. Supply issues very often cause expensive rush deliveries, via last minute air cargo.

Since material planners need to oversee hundreds or thousands of materials rapidly, priority and timeframe based identification of potential supply issues is required. Color-coded alerts in ***Early Warning Portals*** show when and where issues occur. Fast reaction is required as early as possible to reduce impact, to search for substitute or fall back solutions, to change the production program, surely to limit costs for rush deliveries, and in all cases to reduce overall impact and costs.

Value Stream Technology provides ***synchronized supply planning and operations as well as pro-active early warning applications*** for the management of global value chains.

SIGNIFICANT  
COST REDUCTIONPRO-ACTIVE  
SUPPLY-CHAIN



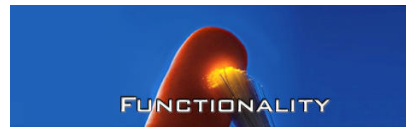
## Value Chain Monitoring Action Instead of Reaction

*Pro-active Material Monitoring* enables material planners to identify supply issues within a couple of seconds and to oversee thousands of materials within just a couple of minutes. *Early warning* functions quickly provide *color-coded information about supply chain issues* in timeframes and with detailed information on request, real-time.

With focus on potential issues all materials with supply impact are displayed in timeframes, showing exactly when material is available and when any material shortage may occur. High data volume is retrieved for this *interactive analysis*, real-time: Up-to-date production plans are broken down to material levels and planned consumption, supply information from purchase orders and delivery schedules to updated *Advanced Shipping Notifications* [ASN]. Quickly, the material planners and logistics management have an overview of all materials, supply chains, events, and potential impact. Decisions can be made quickly based on *comprehensive information availability*. Identifying the issues, determining the options, defining the required actions, execution, done!

The *Early Warning Portal for Material Availability* provides all information required, including inventory projection based on production plans, real-time updated inventories, and graphs to quickly check inventory development and highlighted, color-coded alerts. A drill-down option provides more details. *Interactive functions* allow to identify actual line side or warehouse inventory, determine and calculate potential rush delivery costs and options, and if necessary adjust production programs.

The *Value Chain & Logistics* application suite provides a faster, better and more focused way of optimizing global value chains, avoiding manufacturing impact due to supply issues or material shortages.



- **Monitoring** the entire value chain from suppliers to assembly lines
- **Fast identification** of potential material shortages and impact on manufacturing operations
- Reducing or **eliminating production impact** and lost productivity, products and revenue
- **Color-coded Early Warning Portal** shows supply issues according to priority and potential impact faster and more comprehensive than regular inventory and planning applications
- Material planners can **oversee more** materials and identify material availability issues faster
- **Reducing efforts** for material planners, logistics and supply chain personnel and management
- **Rapid identification** of rush delivery/ air freight needs and costs
- Projection of potential material shortages and excess stock reduces inventory levels but **ensures material availability**
- **Drill-down** functionality provides all information required to identify issues and their source
- Interactive functionality enables **faster access** to involved processes
- **Significant Logistics and Operations cost reduction**

- **Early Warning Portal Material Availability**
  - Fast overview of material availability
  - Selection by material planner, plant and supplier
  - Visual display and priorities, and timeframe- based visibility (alert zones),
  - Color-coded impact verification
  - Identification of future material shortages and excess inventory
  - Supply delay and event identification
- **Interactive Material Availability & Shortage Determination**
  - Projecting material consumption and supply
  - Graphs displaying inventory development for days and weeks
  - Simulation options & impact identification
- **Production & Inventory Information**
  - Material required based on demand and planned production
  - Production planning & customer orders
  - Real-time inventory monitoring of line side and warehouse inventory
  - Supply and delivery in transit
- **Interactive Functionality**
  - Drill-down and details
  - Line side and warehouse inventory identification
  - Rush delivery cost identification
  - Production program adjustments and re-sequencing
  - Integrated Action Management
- **ERP/ SAP® Vertical Integration**
  - SAP Master & Process Data from purchase orders to delivery agreements and delivers schedules
  - Warehouse inventory and locations
  - Substitute materials and sources
  - Advanced Shipping Notifications (ASN)



For more information

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