SAP Transportation Management

Christina Reutter
SAP Product Manager TM
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Overview SAP TM
SAP’s Supply Chain Execution Platform
A winning strategy for Today’s & Tomorrow’s business needs

Best-in-Class
World-class, holistic & verticalized

Integrated
Deep, end-to-end process integration

Connected
Flexible network communication

Real-Time
Real-time insight and monitoring

Supply Chain Execution Platform

Warehouse Management
Transportation Management
Track & Trace
SAP HANA Platform
SAP TM Supports all Transportation Scenarios

Examples

Direct truck shipment

Truck networks

Multi-modal domestic shipment

Airfreight D2D

Airfreight shipment P2P

Ocean LCL shipment D2D

Ocean FCL shipment D2D
SAP Supply Chain Execution
High customer value with a complete, best-in-class, multi-industry offering
SAP TM Supports End-to-End Collaboration
Shipper - LSP - Carrier

End Customer

Shippers' customer places order for goods

Order Acceptance

Shipper

Pre-Planning

Order Management

Freight Planning

Tendering & Subcontracting

Execution & Monitoring

Freight Settlement

Payment

Logistics Operations through LSP

Order and Operations Processes

Booking Management

Cargo Planning

Partnering

Execution & Monitoring

Receivables

Shippers

Logistics Service Provider

Carrier / Subcontractor

Shipper - LSP - Carrier
Possible System Landscape

- Planning (APO)
- SAP GTS
- SAP PI
- WSRM
- SAP ERP
- EH&S
- SAP Business Warehouse
- SAP Supply Chain Execution Platform
  - SAP Transportation Management
  - Yard Management
  - Yard Optimizer
  - SAP Event Management
  - EH&S
  - CIF
  - Master Data
  - Mapping Transaction Data
  - Mapping Transaction Data
Roadmap

Planning only - subject to change
SAP TM - SAP S/4 HANA Enterprise Management

Existing

SAP ERP (on Premise)

LE-TRA

SAP TM on premise

S/4 HANA Enterprise Management

LE-TRA

SAP TM on premise

MidTerm

S/4 HANA Enterprise Management

LE-TRA

TM as part of

SAP TM on premise

Long Term

S/4 HANA Enterprise Management

TM as part of

SAP TM on premise

Planning only - subject to change
SAP TM - SAP S/4 HANA Enterprise Management

- SAP Transportation Management As Part of S/4 HANA Enterprise Management
- Integration of SAP TM 9.3 with S/4 released in Nov. 2015 (Note: 2238445)
- SAP Transportation Management SAP TM 9.4 (planned RTC in Q4/2016)
- SAP Transportation Management SAP TM 9.3 (GA since Nov/2015)

Timeline:
- 2014
- 2015
- 2016
- 2017
- 2018

Planning only - subject to change
## SAP TM - On premise Roadmap

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<th>Rel.</th>
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<tr>
<td>Supply Chain Convergence</td>
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### Rail Shippers
- O2C for rail carriers & Q2P for rail shippers
- Strategic freight management
- T&L collaboration portal
- Labor demand planning
- SCE platform on HANA

### Truck for Shippers
- Gantt chart planning
- Empty Provisioning & Triangulation
- Load optimization
- Invoice submission & match pay via portal

### Logistics Service Prov.
- Transit warehouse
- Strategic freight management
- ERP Integration Scheduling Agr.
- Package building in load optimization
- Manual Planning
- Customs & security filing
- Group Company Logistics
- Charge Mgmt.

### LSP / Shipper
- Transit Warehouse Enhancements
- Manual Driver Planning
- Planning & Optimisation Enhancements
- Collaboration Portal enhancements e.g. Multiple Invoice Handling
- Profitability for LSP
- Realtime Analytics
- SAP TM – Descartes GLN Integration

### Supply Chain Convergence
- Retail Enhancements
- E-Commerce
- Integrated SC Planning & Exec. e.g. forecasting
- Real-time strategic planning & simulation
- Single File Handling
- Customer Order Entry for LSPs
- Purchase Order Management
- Bulk Transportation Enhancements (TM)
- Combined Linehaul Parcel Shipment

---

Planning only - subject to change
SAP TM on level deeper
SAP Supply Chain Execution
High customer value with a complete, best-in-class, multi-industry offering
SAP Transportation Management

Overview

Freight Forwarder

Transportation Management
- Order Management
- Transportation Planning
- Transportation Execution
- Freight Settlement

Shipper

Tracking & Tracing

Warehouse Management
- Inbound Processing
- Storage & Operations
- Outbound Processing

Carrier

Consignee
SAP Transportation Management

Overview

Order Management
Transportation Planning
Transportation Execution
Freight Settlement
Analytics
SAP Transportation Management
Order Management

- SAP ERP Order/Delivery Integration
- Order/Booking Management
- Personal Worklists
- Schedule mgmt.

Business Benefits
- Efficient end-to-end order & process management
- Dynamically generated, optimized routing proposals based on business rules – extra freight cost avoidance and better customer service
SAP Transportation Management
Transportation Planning

• SAP ERP Order/ Delivery Integration
• Order / Booking Management
• Personal Worklists
• Schedule mgmt.

• Manual & Automated Planning & Dispatching
• Routing, Resource & Carrier Selection
• Order Tendering
• Dangerous goods management

Business Benefits
• Improved resource utilization and carrier selection reduces transportation costs
• Handle huge volume of data by automated planning process
• Combine decentralized, local business views to identify synergies
• On time delivery
Transport Network Elements

Location

Zone

Intrazone Lane

Hub

Carrier Schedule

Default route A-D

Voyages

A

Hub

E

Carrier Schedule

B

Default route A-D

H

D

Customer

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### Freight Unit Stages (35)

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### Freight Orders/Freight Bookings (8)

- **Document**: 4000006329, 4000006331, 4000006351, 4000006369
- **Maximum Utilization**: 90%, 87%, 87%, 90%
- **Source Loc**: D21-TKXSG, D21-TKXSG, D21-TKXSG, D21-TKXSG
- **Destination**: D21-SIN-CFS, D21-SIN-CFS, D21-SIN-CFS, D21-SIN-CFS
- **Departure Date**: 03.03.2014, 03.03.2014, 03.03.2014, 03.03.2014

### Overview

- **Stages**: 4000000716, 4000000717, 4000000719
- **Carrier Ranking**: Not Loaded
- **Allocation**: 20 STD, general purpose container 10000202
- **Charges**: 20 STD, general purpose container 10000003
- **Start of Act**: 12.03.2014, 12.03.2014, 12.03.2014
SAP Transportation Management
Flexible/Collaborative Carrier selection and Freight Tendering

Rules-based Carrier Determination
- Freight agreements
- Costs
- Lane Allocations
- Business share

Multi-variant Tendering
- Peer-to-Peer RFQ
- Broadcast RFQ
- Direct freight order assignment

Flexible Collaboration
- B2B, Web-based UI, Portal, Email, SMS communication
- Authorization-based RFQ data viewing & processing
- Real-time tendering process, status monitor & dynamic change controller
SAP Transportation Management
Transportation Execution

Order Management
- SAP ERP Order/Delivery Integration
- Order/Booking Management
- Personal Worklists
- Schedule mgmt.

Transportation Planning
- Manual & Automated Planning & Dispatching
- Routing, Resource & Carrier Selection
- Order Tendering
- Dangerous goods management

Transportation Execution
- EWM integration for warehouse execution
- Logistics Execution
- Execution monitoring & event tracking
- Capacity Monitoring
- Transportation print documents
- Trade regulation compliance (via GTS)

Freight Settlement

Analytics

Business Benefits
- Out-of-the-box transportation, warehouse integration, customs reduces TCO
- Proactive event management improves execution quality and customer service
1. Monitor - Capture relevant business events and check against planned milestones

2. Manage by Exception - Notify key stakeholders & adjust the business process if required

3. Analyze - Efficient real-time reporting and analysis for insight-into-action and risk mitigation

Business rules for
- event occurrence & sequence
- overdue events

Multiple SAP BS systems (e.g. ERP)  Multiple 3rd party systems  External collaboration & Mobile

SAP Transportation Management

Efficient Freight Execution Management & Tracking
International, Cross-System Shipment & Event Tracking
Integrated Event Management

Comprehensive Shipment Tracking

- Freight units, orders, bookings, & containers
- End-to-end (across pre-, main- & on-carriage)
- Cross-system & organization
- Shipper, carrier & consignee views
- Full milestone tracking - from loading begin to proof-of-delivery
- Flexible event notification & handling
- Map-based event location visibility
- Instruction tracking for SOPs

Alerting and Notification

Mobile Enabled

Geo Tracking on Map

Reporting dashboard

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SAP Transportation Management
Freight Settlement

Order Management
- SAP ERP Order/Delivery Integration
- Order/Booking Management
- Personal Worklists
- Schedule mgmt.

Transportation Planning
- Manual & Automated Planning & Dispatching
- Routing, Resource & Carrier Selection
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- Dangerous goods management

Transportation Execution
- EWM integration for warehouse execution
- Logistics Execution
- Execution monitoring & event tracking
- Capacity Monitoring
- Transportation print documents
- Trade regulation compliance (via GTS)

Freight Settlement
- Freight Agreement Management
- Charge & Tariff Mgmt.
- SAP ERP integration: Freight Settlement
- Transportation charge calculation

Analytics

Business Benefits
- Accurate transportation costing
- Integrated transportation management & billing
- Reduced invoice inaccuracy
### SAP Transportation Management

#### Freight Settlement

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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</table>
| **TM Charge Management** | - Master data cockpit  
- Comprehensive agreement mgmt.  
- Flexible charge & rate management  
- Advanced freight charge calculation |
| **ERP Freight Settlement** | - Accruals posting  
- Carrier self-invoicing  
- Invoice verification & payment  
- Credit memo processing |
| **ERP Freight Cost Accounting** | - General ledger posting  
- Material valuation  
- Sales order profitability analysis |

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SAP Transportation Management
Freight Charges & Settlement Mode-Specific & Advanced Capabilities

- Commodity-based charges
- Prepaid and Collect on Ocean Booking
- Index table-based fuel surcharge calculation
- Air TACT and contract rating with SCR

- Rule 11 on freight order
- New resolution base for resources
- Railcar-based rating with day of week pricing
- Resource ownership based calculation

- Cost Distribution
- Charging for parcels
- Collective order rate lookup
- Condition based charges
- Flexible invoicing
- Event-based charging
- Agreement consumption
SAP Transportation Management

Analytics

Order Management
- SAP ERP Order/ Delivery Integration
- Order / Booking Management
- Personal Worklists
- Schedule mgmt.

Transportation Planning
- Manual & Automated Planning & Dispatching
- Routing, Resource & Carrier Selection
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Transportation Execution
- EWM integration for warehouse execution
- Logistics Execution
- Execution monitoring & event tracking
- Capacity Monitoring
- Transportation print documents
- Trade regulation compliance (via GTS)

Freight Settlement
- Freight Agreement Management
- Charge & Tariff Mgmt.
- SAP ERP integration: Freight Settlement
- Transportation charge calculation

Analytics
- HANA dashboards
- Landed Cost Analysis
- Flexible business warehouse cost reporting

Business Benefits
- Real time data- and fact-based driven decision making
- Fast insights and reduced data complexity
- Powerful predefined KPIs for managers and end users with the ability to navigate into details
- Single source of immediate insight instead of multiple, long running transactions and reports (HANA analytics)
Reporting & Analytics for Transportation & Logistics

• Comprehensive, flexible, instant reporting & decision support

Role/User-Specific Worklists

Embedded, Contextual Analytics

Adhoc Reporting/Queries

Graphical Dashboards

SAP Supply Chain Execution Suite (SAP TM)
HANA Live based reporting for Transportation Management
Warehouse Integration
Integrated Warehouse Execution with SAP EWM

Freight Order – Transportation Unit Integration

SAP Enterprise Resource Planning
- Customer order
- Delivery

SAP Transportation Management
- Transportation Planning
- Freight Order Management
- Freight Settlement

SAP Extended Warehouse Management
- Picking, Packing, Staging
- Loading
- Goods Issue

End to end Transit Warehouse Scenario

- Package tracking over complex transport network
- Transparency on warehouse data
- Send (un)loading request to SAP EWM
- Packages instead of products
- Process control based on (un)loading request from SAP TM
- Receive, consolidate, load
- Supports HU hierarchy

Transit through regional hubs, gateways and CFS

- New LSP functionality with SAP TM 9.3

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SAP TM Supports Network Planning

Strategic Freight Procurement

Shipper/Freight Forwarder

RFQ

Quote

RFQ/Quote Negotiation & Generation

Strategic Transportation Agreement Building

Profit Maximization
Cost Minimization
Cost Analysis

Commodity & Capacity
Transportation Requirement
Service levels
Trade lanes
Rating

Carrier/Customer KPIs
Analytics & Simulations
Carrier/Customer/ Factsheet

Strategic Freight Selling

Carrier/LSP

RFQ

Quote

RFQ/Quote Negotiation & Generation

Strategic Transportation Agreement Building

Profit Maximization
Cost Minimization
Cost Analysis

Commodity & Capacity
Transportation Requirement
Service levels
Trade lanes
Rating

Carrier/Customer KPIs
Analytics & Simulations
Carrier/Customer/ Factsheet

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SAP Yard Logistics
Integration for efficient Execution

- Plantermin unter Berücksichtigung Yard Kapazität
- Torfindung/ Terminupdate
- Ankunft des LKWs am Yard erzeugt Yard Order
- Check-In des LKWs mit Terminierung
- Eingangsprüfung
- Verladung des Containers
- Fahrt zum Checkpoint Outbound
- Check-Out LKW mit Container
- Warenausgang

- Yard Request
- Schranke
- OCR
- Yard Order
- Task 1-n
- Dokumente

- Track&Trace
- Alerts

- TM Auftrag
- Status Update Auftrag

- SAP SD
- SAP MM
SAP Transportation Resource Planning
Cost based Planning and Optimization of empty resources

SAP TRP delivers support to provision the right resource at the right time and right location to fulfill the customer demand at a minimal cost.

Features:
- Increase the visibility of transportation resources
- Determine supply and demand of empty transportation resources incl. forecasts
- Take decisions to avoid or optimize repositionings based on calculated provisioning and return locations
- Balance the stock of empty resources
- Trigger plan execution in the transportation management system
- Monitor resource related KPIs
SAP Event Management

Customer
What is SAP Event Management?

**Event Management (EM)** is the SAP solution for supply chain visibility

cross-application

cross-system

cross-business partner

- Track any kind of assets, documents, or objects
- Monitor planned and actual business events
- Trigger follow-up activities and processes
- Manage exceptions
Monitor Business Events

EM Tracking

Sales Order ➔ Production execution ➔ Transportation Execution ➔ Goods receipt ➔ Invoicing

Expected Events

Create ➔ Production completed ➔ Departure ➔ Unloading ➔ Sent Invoice

Release to Production ➔ Loading ➔ Arrival ➔ Proof of Delivery ➔ Payment

Delay ➔ Unexpected Event ➔ Overdue ➔ Missing ➔ Actual

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EM – Standard User Interface

SAP Event Management - Shipper - Freight Order Visibility Process

Search

Search Result

Event Messages

Details

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### TM – Execution View

**Edit Freight Order ODT30_TO 6100028658**

- **Save**  |  **Cancel**  |  **Edit**  |  **Check**  |  **Follow Up**  |  **Scheduling**  |  **Subcontracting**  |  **Create Service Order**  |  **Schedule**  |  **Set Status**  |  **Set Item Status**  |  **Fining**  |  **Customs**  |  **Charges/Settlement**  |  **Business Context Viewer**

- **Display Message Log**

**General Data**  |  **Business Partner**  |  **Items**  |  **Stages**  |  **Utilization**  |  **Subcontracting**  |  **Document Flow**  |  **Administrative Data**  |  **Charges**  |  **Notes**  |  **Attachments**  |  **Terms and Conditions**  |  **Statuses**

**Execution**

- **Report Event**  |  **Insert Event**

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<th>Actual Event Date</th>
<th>Time Zone</th>
<th>Actual Event Time</th>
<th>Location</th>
<th>Description</th>
<th>Estimated Event Time</th>
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<th>Source of Exec. Information</th>
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<td>12:03:00</td>
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<td>12.02.2016</td>
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**Event:** Departure

**Event Reason:**

**Event Reason Code:**

**Planned Date:** 12.02.2016 12:30:00 CET

**Actual Event Date:** 12.02.2016

**Location:** EM_MASCHEN_ST – EM_Maschen Station

**CET**

**Em Maschen Station**

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Drivers View on On-Board Unit

- Hamburg to Mannheim
- Loading and Departure
- Arrival and Unloading

Task Details:
- Loading and Departure
  - Freight Order 6100028444: Unloading of Container from EM_CONS_03
- Loading
  - Load Container between 9:30 and 10:00
EM – Standard User Interface

SAP Event Management - Shipper - Freight Order Visibility Process

Search Result

- View: [Standard View]
- Print Version
- Export
- Send Event Messages

Event Order
- Freight Order: 6100028658
- Bill of Lading: 2100002857
- Cont. ID: EM_TRUCK_M

Event Messages

- Status: Event
- Planned Date/Time
- Actual Date/Time
- Location
- City

- Loading Begin: 12.02.2016 12:00:00 CET
- 12.02.2016 12:03:00 CET
- EM_MASCHEN_ST
- Mannheim Station

- Loading End: 12.02.2016 12:30:00 CET
- 12.02.2016 12:22:00 CET
- EM_MASCHEN_ST
- Mannheim Station

- Departure: 12.02.2016 12:30:00 CET
- 12.02.2016 12:43:00 CET
- EM_MASCHEN_ST
- Mannheim Station

- Proof of Pickup: 12.02.2016 14:20:00 CET
- 12.02.2016 13:10:00 CET
- EM_MASCHEN_ST
- Mannheim Station

- Unloading Begin: 12.02.2016 15:10:59 CET
- EM_MANNHEIM_ST
- Mannheim Station

- Arrival at Destination: 12.02.2016 15:10:59 CET
- 12.02.2016 15:30:00 CET
- EM_MANNHEIM_ST
- Mannheim Station

- Unloading End: 12.02.2016 15:46:59 CET
- EM_MANNHEIM_ST
- Mannheim Station

- Proof of Delivery: 12.02.2016 17:40:59 CET
- EM_MANNHEIM_ST
- Mannheim Station

Details

- Forwarding Order: 2100004887
- Freight Order: 0100002858
- Assigned Freight Units: 4100102522
- Bill of Lading: 6100028658
- Shipper: EM_SHIP_ST
- Consignee: EM_CONS_02
- Carrier: EM_MASCHEN_ST
- Source Location: EM_MASCHEN_ST
- Destination Location: EM_MANNHEIM_ST
- Container ID: EM_TRUCK_M
- Requested Pick-Up Date: 12.02.2016
- Requested Delivery Date: 12.02.2016
- Gross Weight: 50 KG
- Gross Volume:

Transportation Status: Arrived
- On Time
- Not Blocked

Customer 

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Derived App – Cold Chain Example
Business Case: Build Transactional App for Self-Defined EM scenarios

- Very rich wizard
- Mapping the highly configurable EM tracking scenarios to a Fiori app
- Generic OData service – use case specific UI
- Examples: Freight tracking, PO tracking, etc.
…Supported by Continuous, Strong SAP SCE Investment
… in both Core & Digital Enablers – the foundation for innovation and optimization

Core Enablers
- Standardization
- Automation
- Optimization
- Integration
- Verticalization
- Globalization

Digital Economy Enablers
- Internet of Things
- Devices
- Big Data
- Cloud
- Business Networks
- Social Networks
- People

Supply Chain Execution Platform

- Warehouse Management
- Transportation Management
- Track & Trace
- SAP HANA Platform

Speed  Agility  Efficiency  Visibility
SAP Networked Logistics Hub
Latest Innovations: radar geo fence – site/terminal operator support – analytics for LSP – multi-hub transparency

SAP Networked Logistics Hub 1512

Scope

- LSPs and site/terminal operators can create radar geo fences to get informed when trucks enter/leave a specific area. This also applies to shared trucks from a subcontractor. In case of a site/terminal operator, this is agreed upon by the LSP, and visibility is limited to the stages towards their site
- Advanced tour analytics for LSP
- Support of multi-hub transparency for all involved parties, based on business partner relations maintained

Key benefits

- Real-time transparency on site approaches allows for more educated activities and management by exception in case of early / late arrivals
- New capabilities provide additional benefits for all parties involved, which makes onboarding more attractive and strengthens the overall network
SAP Networked Logistics Hub
Involved parties and their contribution

- **Invites subcontractors, or is invited**
- **Maintains fleet**
- **Dispatches tours**
- **Monitors fleet and ETAs**
- **Analyzes execution KPIs**

- **Monitors anonymous traffic**
- **Communicates with drivers**

- **Manages network**
- **Monitors traffic**
- **Informs of incidents and sends notifications**

- **Telematics solution**
  - e.g. by T·Systems

- **Traffic control system, e.g. TMC**
- **Hub sensor information**
- **Business backend solutions, e.g. SAP Transportation Management/SAP Event Management**

- **Shipper**
  - Monitors site-related traffic
  - Communicates with drivers
  - Is informed about trucks passing a geo fence towards his site

- **Site / Terminal Operator**
  - Monitors site-related traffic
  - Communicates with drivers
  - Is informed about trucks passing a geo fence towards his site

- **Driver**
  - Receives & reports information via on-board unit/mobile device (partner app)

- **Parking Space Operator**
  - Monitors anonymous traffic
  - Communicates with drivers

- **Logistics Service Provider**
  - Invites subcontractors, or is invited
  - Maintains fleet
  - Dispatches tours
  - Monitors fleet and ETAs
  - Is informed about trucks passing geo fences
  - Analyzes execution KPIs

- **Hub Operator**
  - Manages network
  - Monitors traffic
  - Informs of incidents and sends notifications

- **Shipper**
  - Monitors site-related traffic
  - Communicates with drivers
  - Is informed about trucks passing a geo fence towards his site

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  - Monitors fleet and ETAs
  - Is informed about trucks passing geo fences
  - Analyzes execution KPIs

- **Hub Operator**
  - Manages network
  - Monitors traffic
  - Informs of incidents and sends notifications
SAP Networked Logistics Hub
Get to the next level of collaboration by leveraging telemetry data and communication in the cloud

**Telemetry Data**
- Geospatial data
- Events

**Business Data**
- Geo fences
- Business partners
- Tours & freight
- ETA
- Execution KPIs

**Messages**
- Incidents
- Notifications

**Third party data**
- Structured and unstructured such as traffic situation, weather, …

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**Turn data into insights**

SAP Networked Logistics Hub

- Control inbound, outbound & hub-internal traffic
- Communicate with other involved parties

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SAP Networked Logistics Hub
Standard roles and look-and-feel: Hub operator

Manages network | monitors hub-bound traffic* | maintains geo fences and points of interest | informs of incidents & sends notifications (automatic using geo fences or manual)
SAP Networked Logistics Hub
Standard roles and look-and-feel: Site / Terminal operator

Monitors site-bound traffic | maintains points of interest and geo fences | informs of incidents & sends notifications (via geo fences or manual) | is informed of approaching trucks passing geo fences
Dispatches tours | engages with subcontractors | tracks own and shared fleet | communicates with drivers and business partners | agrees to trucks being visible for site/terminal operators while approaching
SAP Networked Logistics Hub
Onboarding and interactions

- Hub operator
- Parking space provider
- Logistics service provider
- Driver
- Shipper/ Site/ Terminal operator

- Invite business partners
- Maintain and (de-) activate trucks
- Invite subcontractor
- Request radar tracking
- Accept / reject
- Share truck

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SAP Networked Logistics Hub
Delivers significant business value to hub operators and their direct and indirect business partners

- **Hub/site/terminal operator**
  - Gain real-time transparency of infrastructure usage
  - Get informed of trucks passing geo fences (site/terminal only)
  - Inform drivers of incidents
  - Invite business network

- **Logistics service provider**
  - Communicate with drivers
  - Gain real-time transparency of transportation progress and execution KPIs
  - Invite subcontractors

- **Truck driver**
  - Get up-to-date information on traffic and recommendations
  - Receive order information from dispatcher
  - Communicate with business partners

**Turn insights into benefits**

- Improved infrastructure utilization
- Increased turnover
- Improved competitiveness
- Higher throughput with less transportation assets employed
- Improved on-time delivery
- Higher customer satisfaction
- Reduced idle times towards and at hub

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The cloud imperative for logistics
What you can achieve with SAP Networked Logistics Hub

91% of companies believe that the cloud will have a major impact on their organizations.

85% of companies expect the cloud to accelerate technology megatrends.

Overall Benefits & Value Drivers

- Optimized inbound, outbound and hub-internal traffic
- Increased goods throughput
- Improved efficiency through process automation
- Reduction of waiting times and manual monitoring
- Increased infrastructure and asset utilization
- Less environmental impact

Source: Cross-Industry Micro Value Survey, SAP Latin America
Hamburg Port is the largest port in Germany, and the second-largest in Europe.

The Hamburg Port Authority expects that it will more than double its current cargo capacity of 9 million containers per year to over 18 million within the next 15 years.

**Goal:** make the infrastructure future-ready - increase container turnover and optimize traffic for Hamburg Port Authority, reduce idle times for carriers.

Consolidate unstructured data and provide it across the port in real time through a central private cloud.

- situational picture of port traffic and more-effective cargo handling across the supply chain
SAP Networked Logistics Hub
Where to find more information

**Video**
www.youtube.com/watch?v=FRLDHZn3kGY&feature=youtu.be

**Help portal**
help.sap.com/scl

**Internet of Things on sap.com** (including free trial access)
www.sap.com/iot > SAP Networked Logistics Hub

**Solution Explorer**
www.sap.com/solutionexplorer > LoB Supply Chain > Efficient Logistics and Order Fulfillment > Logistics Network > Sense and Respond to Logistics Insights

**Community**
scn.sap.com/community/internet-of-things
SAP Networked Logistics Hub

Where to find more information

**Video**
www.youtube.com/watch?v=FRLDHZn3kGY&feature=youtu.be

**Help portal**
help.sap.com/scl

**Internet of Things on sap.com** (including free trial access)
www.sap.com/iot > SAP Networked Logistics Hub

**Solution Explorer**
www.sap.com/solutionexplorer > LoB Supply Chain > Efficient Logistics and Order Fulfillment > Logistics Network > Sense and Respond to Logistics Insights

**Community**
scn.sap.com/community/internet-of-things
Thank you

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TM Product Management
Appendix