SAP is Building the Platform for the SCE Network

- Strategic & Major SAP Investment
- Strong SAP-Customer Innovation
- Solid, growing market momentum
The New SAP Transportation Management Solution
A major, integral part of the Supply Chain Execution Platform

SUPPLY CHAIN EXECUTION PLATFORM

SAP TM
TRANSPORTATION MGMT.
Freight Order Management, Planning, Execution & Settlement

SAP EWM
EXT. WAREHOUSE MGMT.
Warehouse Planning & Execution

SAP EM
EVENT MANAGEMENT
Transportation Execution Tracking & Event Management
Focus Topic: Integration

Overview

- Sales order scheduling / available-to-promise
- Sales, purchase, returns & stock transfer orders

- Delivery & shipment processing
- Warehouse planning & execution

- Quote to order integration
- One view on customer

- Compliant dangerous goods shipment
- International trade regulation compliance
- Customs export and import processing
SAP Supply Chain Execution Platform Overview

**SAP ERP**
- Order-to-Cash
- Procure-to-Pay
- Dangerous Goods Mgmt.

**SAP GTS**
- Customs & compliance mgmt.

**Supply Chain Execution Platform**

- SAP Transport. Management
- SAP Extended Warehouse Mgmt.
- SAP Event Management (Track & Trace)

**Supply Chain Execution Platform**
- Synchronized solution delivery
- SCE Suite implementation in 1 instance
- Out-of-the-box SCE integration
Details SAP TM - SAP Business Suite Integration

SAP ERP
- ENTERPRISE RESOURCE MGMT.
  - Order Processing
  - Dangerous Goods Mgmt.
  - Delivery / Shipment Processing
  - Financial Management

SAP GTS
- GLOBAL TRADE SERVICES
  - Trade compliance
  - Customs Management

SAP TM
- TRANSPORTATION MANAGEMENT
  - Freight Order Mgmt., Planning, Execution & Settlement

- Transportation requirements
- Delivery proposal
- DG content
- DG check result
- Transportation requirements
- Freight orders & bookings
- Freight Settlement Document (with cost distribution)
- Embargo & sanction party list check
- Customs declaration status & MRN
SAP TM Integration with SAP ERP Financial Management

Seamless Integration and Full Life-cycle Status Visibility

SAP TM
FREIGHT
SETTLEMENT

• Charge Calculation
  – Freight agreement determination
  – Calculation sheet, rate & scale determination
  – Advanced charge calculation (rates, rules, scales, currencies...)

• Cost Distribution
  – Across delivery items & orders (via weight, volume...)

• Freight Settlement Document Creation
  – For individual or collective orders & bookings

• Freight Credit Memo Creation

SAP ERP
FINANCIAL MGMT.

• Carrier/Supplier Settlement
  – Accruals posting (with purchase order & service entry sheet (SES) creation)
  – Self invoicing (Evaluated receipt settlement)
  – Invoice verification & payment

• Cost Accounting
  – General ledger posting
  – CO Material valuation
  – CO-PA sales order profitability
Easy to use, comprehensive data access.
Secured by a thorough authorization and filter concept. Role-based access allows viewing the business process from various points of view.

Focus Topic: Integration
TM – EWM Integration Process

**Order Processing (ERP)**
- Sales order or delivery creation (SAP ERP)
- Automatic transportation request creation (SAP TM)
- Automatic freight unit creation (SAP TM)

**Transportation Planning (TM)**
- Interactive / automatic transportation planning
- Carrier selection
- Carrier tendering
- Freight order creation
- Automatic delivery creation in ERP

**Warehouse Execution (EWM)**
- Wave creation
- Cartonization planning
- Picking optimization, packing, staging and load management
- Value-added services
- Waybill print

**Transport Execution (TM)**
- Shipment status check
- Shipment execution monitoring and event tracking

**Freight Order Settlement (TM / ERP)**
- Transportation charge calculation
- Freight invoice request creation and transfer to ERP

*Integrated Outbound Process TM – EWM*
News in SAP Transportation Management

Bernd Kutz – Global Business Development – Extended Supply Chain
A Holistic Transportation Management Offering

- Shipper & freight forwarder industries
- Large & midmarket enterprises
- Simple & complex, high volume operations
- Multi-mode, domestic & international freight
- Inbound & outbound freight management
Comprehensive Transportation Management Coverage

- Carrier schedule management
- Carrier freight agreement mgmt.
- Charge & rate management
- Capacity mgmt.
- Transportation requirement mgmt.
- Manual / automated planning & dispatching
- Dangerous goods management
- Routing, resource & carrier selection
- Order tendering
- Freight order & booking management
- Dangerous goods management
- Trade regulation compliance (via GTS)
- Cargo management
- EWM integration for warehouse execution
- Capacity monitoring
- Execution monitoring & event tracking
- Transportation charge calculation
- Freight order & booking settlement
End-to-End Freight Planning, Routing & Execution

Global, Multi-mode, Multi-stage Transportation Mgmt.
Best-in-class Freight Planning Capabilities

Comprehensive Visibility & Powerful Planning Tools

Transportation Demand
Freight Units
- Order-based
- Delivery-based

Building strategies:
- Freight consolidation/split
- Maximum quantities
- Compatibilities
- Full truckload / Less-than-truck-load

Planning Resources & Schedules
- Vehicles, trailers, railcars
- Schedules: truck, ocean, air

Map Visualization & Map-based Planning
- 3rd party GIS integration
- Tab & full screen map views
- Georouting & geocoding
- Drag & drop planning

Freight documents
Hierarchical views
- Freight orders & units
- Trailer documents
- Ocean & air bookings

Planning constraints
- Locations
- Dates & times
- Schedules & durations
- Fixed & variable costs
- Product dimensions
- Availability & capacities
- Dependancies & incompatibilities

Supporting Data
Tab summaries
- Cargo management
- Carrier ranking
- Freight execution status
- Freight charges…
Peer-to-Peer Tendering Example
Carrier determination & freight order tendering

Freight Order Tendering with Tendering Plan & Analytics

Freight Quotation Evaluation with Carrier Ranking

RFQ Notification via Email

RFQ Notification via Mobile
SAP Transport Tendering Mobile Solution

Transport Tendering for Carriers

Key Solution Features
- Receipt of Request for Quotations (RFQ's)
- RFQ Acceptance, rejection (with/without date and price change, reason)
- Map-based address and route checking
- E-mail or phone the contact person
- Calendar entry for awarded tenders
Best-in-Class Tendering / Subcontracting

Flexible, Collaborative Tendering Processes

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, Email, SMS communication
- Authorization-based RFQ data viewing & processing

- Manual, semi- and fully automatic rules-based carrier determination & tendering
- Real-time tendering process, status monitor & dynamic change controller
Global Rate, Charge & Cost Management

Accurate, Integrated Freight Costing, Settlement & Reporting

**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

**Freight Cost Reporting**
- Interactive freight cost dashboard
- Flexible business warehouse cost reporting
Strategic Freight Management

SAP TM
Strategic Freight Procurement (Buying)

SFP Negotiation Life-cycle
- Send RFQs
- Receive quotes
- Select carrier
- Create contract
  - Receive RFQ
  - Create quote
  - Create contract

SFP Data
- Equipment and commodity
- Volumes and periodicity
- Routing / Trade lanes
- Value

Q2C Data

SFP Supporting Functions
- Versioning
- Status management
- Data exchange
- Approval workflow
- Simulation / what-if-analysis / bid optimization

Q2C Supporting Functions

SFP Analytics
- Carrier fact sheet
- Trade lane analytics
- ...

Q2C Analytics
- Customer fact sheet
- Trade lane analytics
- ...

SAP TM
Quote-to-Contract (Selling)

Freight Forwarder

Shipper

Carriers

Carriers

Freight Forwarder
Transit Warehousing: Overview

Integrated Planning and Execution

Shipper 1
Shipper 2
Consignee 1
Consignee 2

SAP TM

• Package tracking over complex transport net
• Transparency on warehouse data
• Send (un)loading request to SAP EWM

SAP EWM

• Packages instead of products
• Process control based on (un)loading request from SAP TM
• Receive, consolidate, load
Transit Warehousing - Features

**Warehouses**
- Regional Hubs
- Gateways (Air)
- Container Freight Station (Sea)

**Features**
- Packages instead of Products
- Process control based on (un)loading request from SAP TM
- Receive, putaway, pack, stage, load

**Processes**
- Receive from shipper
- Deliver to consignee
- Receive from/send to other transit warehouse
- Receive from/send to airport/seaport (drayage)
Transit Warehousing
Multiple vehicle / Transportation unit constellations

Vehicle/transportation unit types

- Truck
- Trailer
- Swap body
- Rail car
- Container

Transit warehouse functions in SAP EWM

- Check-in/check-out
- Enter/change attributes (driver, license plate, seals, etc.)
- Dock/undock to door
- Load/coupling/receiving based on instructions from TM
- Receive (un)loading plan from TM
- Send (un)loading report to TM
### SFP - TM Collaboration Portal

**Freight Agreement – Detail View**

![Freight Agreement Detail View](image)

<table>
<thead>
<tr>
<th>Status</th>
<th>Freight Agreement</th>
<th>Description</th>
<th>Agreement Validity</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAG_HENKUI1_Expired</td>
<td></td>
<td>Agreement with Henkui</td>
<td>From November 6, 2015 To November 5, 2016</td>
</tr>
<tr>
<td>FA_STANDARD_NA</td>
<td></td>
<td>Standard Agreement North America</td>
<td>From February 6, 2015 To December 5, 2015</td>
</tr>
<tr>
<td>FA_EXPRESS_CANADA_2013</td>
<td></td>
<td>Express Agreement Canada</td>
<td>From February 6, 2015 To February 4, 2016</td>
</tr>
<tr>
<td>FAG_TLA_3458</td>
<td></td>
<td>Agreement with TLA Deliveries</td>
<td>From November 5, 2016 To January 5, 2018</td>
</tr>
<tr>
<td>FA_SHORT_TERM_MONTH</td>
<td></td>
<td>Temporary contract for October 2014</td>
<td>From November 5, 2016 To December 4, 2016</td>
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<tr>
<td>FA_YEARS</td>
<td></td>
<td>Long term agreement for the general transformation service</td>
<td>From February 6, 2016 To December 4, 2021</td>
</tr>
<tr>
<td>FAG_HENKUI1_FUTURE</td>
<td></td>
<td>Future Agreement</td>
<td>From February 5, 2017 To February 4, 2021</td>
</tr>
<tr>
<td>FA_OVERNIGHT_CANADA</td>
<td></td>
<td>Overnight Agreement Canada</td>
<td>From January 5, 2017 To December 4, 2017</td>
</tr>
<tr>
<td>FA_EXPRESS_CANADA</td>
<td></td>
<td>Express Agreement Canada</td>
<td>From February 5, 2017 To December 4, 2021</td>
</tr>
</tbody>
</table>
SFP - TM Collaboration Portal
Freight Agreement – Overlay

[Image of Freight Agreement Details]

Description: Long term agreement for the general transformation service
Status: Current
Valid From: January 29, 2016
Valid To: November 26, 2021

NOTES
Mr. Thomas Miller; July 26, 2016 at 10:49 AM EST:
See agreement 43000000263

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<th>File Name</th>
<th>Last Changed By</th>
<th>Last Changed On</th>
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<td>Legal_Requirements.pdf</td>
<td>Mrs. Jane Rowley</td>
<td>August 17, 2016 at 19…</td>
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<tr>
<td>📄</td>
<td>Bid_structure.xlsx</td>
<td>Mr. Thomas Miller</td>
<td>September 28, 2016 at</td>
</tr>
<tr>
<td>📄</td>
<td>Rate_Details.xlsx</td>
<td>Mr. Bob Trucker</td>
<td>September 28, 2016 at</td>
</tr>
</tbody>
</table>
SFP - TM Collaboration Portal
Freight Agreement RFQs – Legal Popup
The Shipper sends out the RFQ document to the various carriers.

These RFQs have the various pricing elements modelled in the calculation sheet and rate table.

The rates proposed by the carriers could vary for each pricing element.

To inform the Carrier of the rate expectations of the Shipper, the shipper can now provide such information in the Rate table and Calculation sheet.
Optimizer call during post bid analysis

Carrier 1
- Offered Rate
- Offered transit time
- Offered Capacity

Carrier 2
- Offered Rate
- Offered transit time
- Offered Capacity

Carrier n
- Offered Rate
- Offered transit time
- Offered Capacity

Response 1

Response 2

Response n

Request for carrier rates
Shipper transportation Requirement
Requested transit time
Requested Capacity
Offered Rate
Offered Transit time
Offered Capacity

Calculate Bonus/Malus
Carrier performance

Business constraints

Proposed target share
Transit Time for Optimizer

Business share proposed by the optimizer based on strategy with transit time and without transit time.
ERP – TM Scheduling Agreement Integration

- Scheduling agreements with delivery schedules can be transferred between ERP and TM
- The development on ERP side is delivered based on ECC6.17 SP06. Within ECC the functionality is controlled via BF LOG_TM_SAG_INT_I.
- New IMG settings to control a time window for the schedule lines which are relevant to be transferred to TM
- Batch report to enable the transfer of schedule lines which become relevant over time (and were not relevant when the initial transfer took place.) Report name: TMINT_SAGMM_TRANSFER
- New information on schedule line level in TM:
  - Release type (Forecast delivery schedule or Just in time delivery schedule)
  - External identifier of the delivery schedule
- Delivery proposal for Scheduling agreements have been enabled
Integrated scenario based on scheduling agreements

**ERP**

- **OrderProcessing** (Scheduling Agreement SD, Scheduling Agreement MM)
  - Scheduling Agreement

- **DeliveryProcessing (Inbound, Outbound)**
  - xDLV

**TM**

1. Transportation Request Suite Request (Crt/Chg)
2. Transportation Request Suite Cancellation Request
3. xDelivery (Bulk) Create Request
4. xDelivery (Bulk) Confirmation
5. Transportation Request Suite Request (Crt/Chg/Cnc)

**Additional Notes**

- xDelivery... = Inbound Delivery resp. Outbound delivery
Transportation Management 9.3

**World-Class & Real-time**

**TRP - TM Integration**

- Visibility of container fleet from TM transactional and master data
- Container change history tracking and KPI monitoring
- Planning of container supply and demand based on stock and planned movements in TM
- Simulation of empty repositioning and repositioning avoidance based on TM transportation network and rates
- Management of container pickup and return
Empty Provisioning and Return

**Types of empties that are supported**
- Container
- Railcars

**Operations for empties that are supported**
- Provisioning
- Return

**Provisioning/return of empties can be ordered** …
- … Together with ordering the cargo transport
- … Independent from the cargo transport
Triangulation of Containers and Railcars

1. Starting Point for Triangulation is the Container or Railcar POWL
2. Triangulation starts based on a Return TU
3. Return and Provisioning TU are combined
4. On Triangulation the Provisioning TU will be deleted
   The Return TU will be extended

- **Importer**
  - July, 5th
  - Cargo TU 1
  - July, 9th
  - Cargo TU 2
  - July, 15th

- **Exporter**
  - July, 24th
  - Return TU
  - July, 28th
  - Provisioning TU
  - Aug., 10th

**FWO 1**
- Cargo & Return
- Port
- Storage 1
- Importer
- Exporter
- July, 5th
- July, 24th
- July, 28th
- Aug., 10th
- Port

**FWO 2**
- Cargo & Provisioning
- Port
- Storage 2
- Importer
- Exporter
- July, 24th
- Aug., 20th
- Port
Companies are adopting various models to consolidate the Transportation (& Logistics) operations within a company to achieve various benefits like:
- Strategic Reasons
- Consolidation
- Higher volume better rates
- Complete Transportation demand visibility
- Centralized operations
- Shipment tracking and tracing
- Standardization across the companies

Embedding focused Divisions/Legal entities to focus on these activities.
Group Company Logistics Scenario
Model 1 – Logistics Company as part of the Group company

• ABC Logistics (3000) is set up as a LSP arm in the group company.

• All companies (Example 1000 and 2000) use this company for freight procurement.

• ABC Logistics could consolidate the shipments of the group companies

<table>
<thead>
<tr>
<th>Company</th>
<th>Direction of Invoice</th>
<th>Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABC Logistics</td>
<td>Incoming</td>
<td>Efficient Cargo Lines (Carrier)</td>
</tr>
<tr>
<td></td>
<td>Outgoing</td>
<td>ABC Packed Foods (Internal Customer)</td>
</tr>
<tr>
<td></td>
<td>Outgoing</td>
<td>ABC Fresh Foods (Internal Customer)</td>
</tr>
<tr>
<td>ABC Packed Foods</td>
<td>Incoming</td>
<td>ABC Logistics (Internal Carrier)</td>
</tr>
<tr>
<td>ABC Fresh Foods</td>
<td>Incoming</td>
<td>ABC Logistics (Internal Carrier)</td>
</tr>
</tbody>
</table>
## World-Class & Real-time

### Manual Planning with Gantt Chart
- Planning with freight units
- Stage-based planning operations
- Switching between re-scheduling & re-sequencing mode for drag&drop
- Visibility on handling resource utilization
- Automatic determination of initial zoom level
- Improved configurability (text labels, tooltips, load utilization)

### Map in Transportation Cockpit - Enhancements
- Report the actual position of a resource at a certain time on the map
- Show labels for locations, resources & documents
- Show and color business documents for resources

### Selection for Planning Session
- Selection of resources by geography & time horizon, with their current plan
- Context determination for resources, road/rail freight orders, trailer/railcar/container units
Transportation Planning
Example for Real-Time Planning of New Freight Unit
Transportation Planning
Example for Visibility on Handling Resource Utilization
Transportation Management 9.3

**World-Class & Real-time**

**Package Building**
- New rule-based package building engine (SCMB)
- Integrated into freight unit building, i.e. can create freight unit pallet items but also freight orders and trailer/railcar/container units
- Builds product pallets and mixed pallets (layered)
- Control parameters provided by package building profile (new)
- Considers product master data
- Considers product to package & equipment type assignment (new)

**Load Planning**
- Optimizer minimizes number of stacks and used length
- Optimizer combines packages of different stops into one stack
- Configurability of load planning user interface (customizing)

**Network Master Data**
- Ocean carrier schedule upload by .csv and .xls files
- Transportation duration of default route considered during forwarding order entry
Goal (Pallet Building): Minimize number of pallets considering constraints like pallet attributes, product stacking rules, customer specific requirements, …
Transportation Planning
Example for Pallet Building

Product Pallet Building (phase 1)
Product Pallets

- Full: 100 pieces
- Incomplete: 30 pieces

Mixed Pallet Building (phase 2)
Mixed Pallets

- Full: 20 pieces
- Incomplete: 6 pieces

130 pieces Product A
70 pieces Product B
16 pieces Product C

Result: 6 pallets
Result: 5 pallets
Transportation Management 9.3

World-Class & Real-time

Charge Management

- Usability - Reset charge calculation
- Usability - Charges UI expansion/ collapse using UI control
- Usability - Show/Hide control for access sequence
- Multiple rate hit if no commodity code is maintained
- Multiple rate hit if multiple commodity codes are maintained
- Agreement enhancement for forwarding agreement quotation
- Charge calculation enhancement for rate builder
- Calculation of prepaid and collect charges in a single document
Transportation Management 9.3

**World-Class & Real-time**

---

**Ocean Schedule Upload**

- Upload of Ocean Carrier Schedules
- Based on Voyages (stages)
- Initial and Delta Uploads
Ocean Schedule Upload

Use Case
Ocean transport ➔ Ocean Freight Bookings with required data
• Carrier
• Port sequence
• Departure & arrival dates

Creation of Ocean Freight Booking
• Enter data manually
• Assign schedule departure

Upload of Schedules
• Regular updates of schedule data
Reasons why customers implement TM (SCE)
(numbering does not show priority)

1. Legacy TM system with low integration
2. Logistic is the manual stepchild and automation is necessary
3. Harmonize rating structure
4. Optimize Freight Buying (SFM)
5. Centralized/decentralized organisation
6. Better planning windows
7. Self billing / quality of billing
New developments: TRP (Transportation Resource Planning)

Bernd Kutz – Global Business Development – Extended Supply Chain
SAP Transportation Resource Planning

Will supply:

the right equipment, @ right time & right location with the minimum cost to fulfill customer demand
Product Overview
Container Lifecycle

Physical Flow
- Move Empty Container to Demand
- Move Full Container to Terminal
- Move Full Container From Terminal to Vessel
- Move Full Container at Sea
- Move Full Container to Connecting Vessel

Empty Flow
- Procure/Lease & On-hire Container
- Off Hire Container
- Balance (Reposition) Container
- Maintain and Repair Container
- Move Empty Container to Depot/Demand
- Move Full Container to Terminal
- Move Full Container to Customer
Product Overview
Exemplary use case: Container cycle

1. Pick-up
2. Arrival
3. Load
4. Deliver Container
5. Unload
6. Empty Return

Event Management
- Arrival
- POL Departure
- POD Arrival
- Deliver Container
- Empty Return

Container Yard A
- Port of Shanghai

Container Yard B
- Port of Iwakuni

Shipper
- Acquire Container

Transportation Management
- Port of Shanghai, China
- Port of Iwakuni, Japan

Consignee
- Deliver Container

Accept Booking
- Provide Container
- Ocean Transport
- Deliver Full Container
- Receive back Empty
- Dwell / Balancing
Our Solution – SAP Transportation Resource Planning

Key Product Elements

Resource visibility and forecast
- Integrate all data providers for resource supply & demand (booking, stock, etc.)
- Provides statistic components and forecast models to build up operational forecast
- Full extensibility of data providers and computation models

Decision support for re-positioning
SAP Transport Resource Planning supports
- re-positioning avoidance
- based on current and forecasted demands and supplies
- incl. leasing-aspects (e.g. leasing, sub-leasing from, sub-leasing to)

What-if scenarios
- different optimization (e.g. resource utilization, order fill rate, costs) runs
- flexible parameters
- determine the best simulated result

KPI monitoring
- self-explaining visualization of KPI such as utilization of the fleet, current order fill rate, costs
- current KPI versus average KPI based on past values

Seamless integration
- SAP Transport Resource Planning is seamlessly integrated in the SAP applications SAP TM, SAP EM and SAP EAM
SAP Transportation Resource Planning is a joint project with SAP TM to build a solution for movable asset management integrated into both logistical and financial processes in SAP ECC.

- SAP Material Management (MM) for purchasing/leasing of equipment
- SAP Enterprise Asset Management (EAM) for equipment master as well as maintenance and repair
- SAP Financial Accounting (FI) covering financial processes
- SAP Transportation Management (TM) supporting operational processes
- SAP Event Management (EM) for event management
- SAP Transportation Resource Planning (TRP)
TM - TRP Integration
Process integration points

**EM**
- Resource & booking events

**TM**
- Event Recording/Tracking
  - Resource Master Data
  - Geography Master Data
  - Booking
    - Check EQ availability on equipment type level
    - Get suggested street turns
    - Get suggested Pickup return location from TRP
  - Move Cargo
  - Network & costs
  - Move Empties

**SAP Transportation Resource Planning**
- Equipment Tracking History
- Equipment Stock on location level
- Equipment visibility
- Short term forecast of Supply/Demand on location level
- Support Pickup & Return and Repositioning Decisions
- What-If Analysis
- Support Disposal/Off-Hire Decisions
Details on “Resource Supply&Demand”

- Supply&Demand information serves as basis for planning the transportation resources
- Business rules included in optimization decision
- What-if scenarios as well as simulation of multiple optimization runs are fully supported
- Rule-based substitution of resource types included
- Forecasting capabilities based on statistical models
- Recognize container swap options
- Support tactical fleet management decisions
Planning Cockpit
Pick-Up & Return
Planning Cockpit
Pick-Up & Return
Planning Cockpit
Pick-Up & Return
Planning Cockpit
Pick-Up & Return

Cost & Balance?
Cost?
Balance?
SAP Transportation Resource Planning
SAP Transportation Resource Planning 1.0
Product Road Map

Start of Development
- January 2014: Kick Off Landscape ready
- February: Start of Development
- May: End of development
- September: SAP TRP 0.9 Delivery (Acceptance & Customer Test)
- Q2 2015: Release to Customer
- May: 0.9 POI Delivery
- September: 1.0 Delivery

0.9
- Stock Visibility
- Supply-Demand
- Alerting – Monitoring (Dashboard)
- System Management
  - Roles & Authorizations
- Personalization

POC
- What-If Simulation
- Empty Repositioning
- Pick-Up & Return
- CSV Import
- Street-turn

1.0
- Moving Stocks
- Virtual Plans
- Availability Check
- Customization & Scoping
- Equipment Query
- Booking Views
- TM Integration
New developments: Yard Management

Bernd Kutz – Global Business Development – Extended Supply Chain
Vision: SCE – Platform with SAP Yard Logistics

End-to-end, integrated logistics fulfilment platform with transportation planning, yard management and warehouse execution via interfaces between SAP TM, SAP YL and SAP EWM
Full SAP Yard Logistics Suite Vision

SAP Yard Logistics

Visual Yard

Mobile

User Interface

Yard

Plan | Prepare | Inbound | Execute | Outbound

Alert Management
Output Management

APIs | Reports

Optimize
Master Data

SAP HANA / Legacy DB
Solution Manager Content
HEC

Integration
Invoicing
Smart Logistic
Maintenance
Warehouse
Dangerous Goods
Transport

Schedules
Scales
RFID
Scanners
Background

Requirements of our customers for a Yard Management system are

- Visibility
- Planning, execution and settlement in **one** central system
- Flexibility and standalone capabilities
- Integration in existing business processes
- Technical integration capabilities (mobile device, RFID, scales, barriers, other systems, etc.)
- Easy and intuitive User Interfaces

SAP´s answer:

SAP Yard Logistics
SAP Yard Logistics
Main Capabilities

- In the first release the solution will focus on truck and rail yard processes.
- Due to the flexible SAP Yard Logistics architecture it can be adopted to fit to further yard types (e.g. container yards) within implementation projects.

Solution Description in more detail see appendix
SAP Yard Logistics

Mobile Transaction Mock-up for Task Execution

**Shunting IRTO**

- **Customer:** Italy Train Inc.
- **Duration:** 30 min
- **Start Time:** 8:30 AM

Using a spanner, turn the adjusting screw (25A) to the right to reduce the spring tension, and thus obtain the required opening pressure.

**Items**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Description</th>
<th>Source</th>
<th>Destination</th>
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<td>Track 102</td>
<td>Track 103</td>
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<tr>
<td>Shunting</td>
<td>24-25</td>
<td>Track 205</td>
<td>Track 208</td>
</tr>
</tbody>
</table>
SAP Yard Logistics
Visual Yard Mock-up for Yard Disposition 1
SAP Yard Logistics
Visual Yard Mock-up for Yard Disposition 2