TIERS:Transport Integrated & Enhanced Reporting Solution

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General Presentation

Tiers is the new common reporting solution dedicated to Transportation at Solvay group for both Legacies processes and SAP ERP Systems (PF1 and RCS), offering consolidated view capabilities at the Group level.

Access

Access to the Tiers Application has to be requested (See Getting an account).

Access is managed at company level, which you will need to precise when requesting the access :

Perimeter

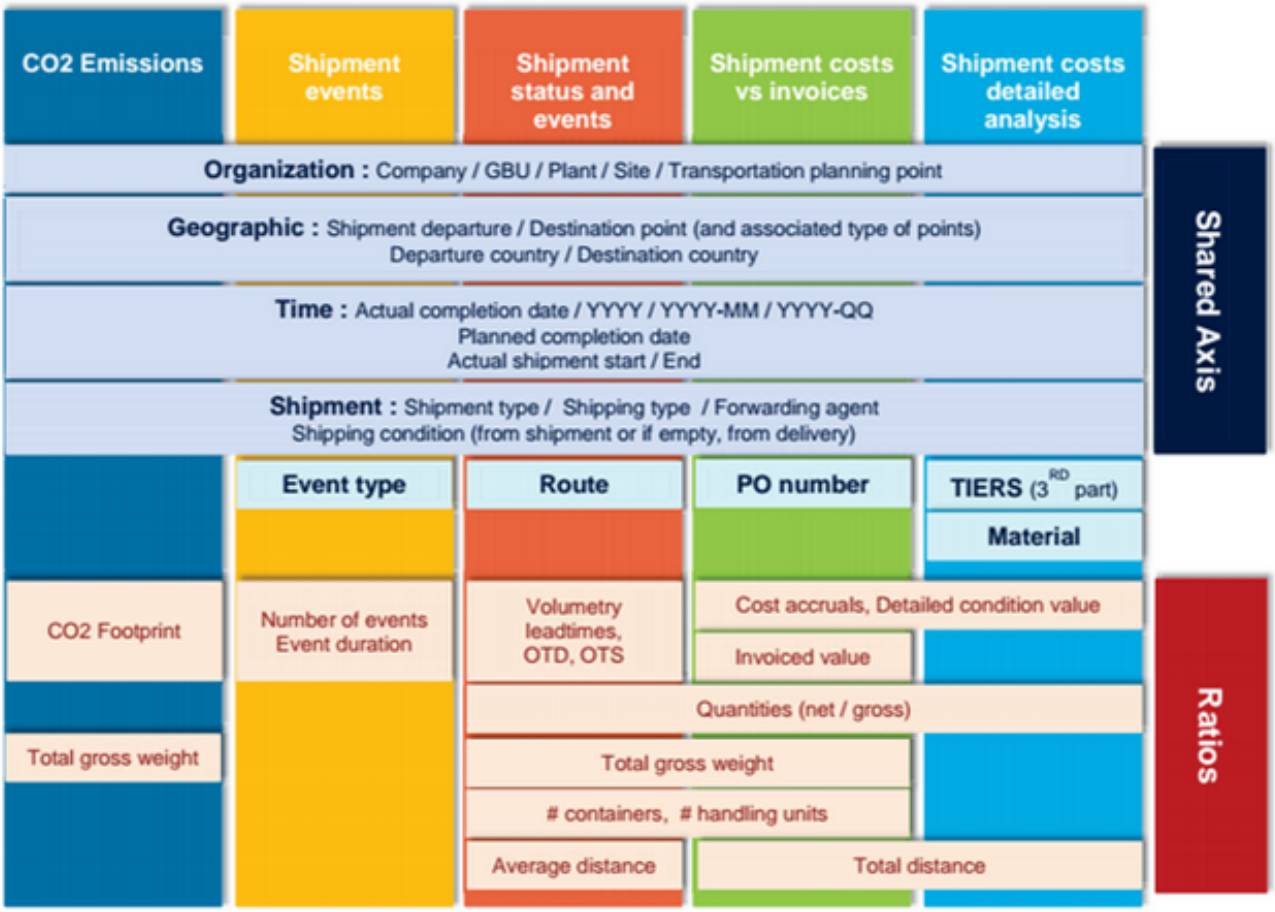
Currently the WBP Tiers Application contains data coming from the PF1 and WP1 ERP server.

Data update

The data is **updated daily** around ~5 am Paris Time.

Queries

	Description	Technical Name
1	CO2 Emissions	BW_QRY_MVSDTR01_0013
2	Shipment events	BW_QRY_MVSDTR002_0001
3	Shipment status and events	BW_QRY_MVSDTR01_0012
4	Shipment costs vs invoices	BW_QRY_MVSDTR01_0011
5	Shipment costs detailed analysis	BW_QRY_MVSDTR01_0010


CO2 Emissions
Shipment events
Shipment status and events
Shipment costs vs invoices
Shipment costs detailed analysis
Organization : Company / GBU / Plant / Site / Transportation planning point
Geographic : Shipment departure / Destination point (and associated type of points)
Departure country / Destination country
Time : Actual completion date / YYYY / YYYY-MM / YYYY-QQ
Planned completion date
Actual shipment start / End
Shipment : Shipment type / Shipping type / Forwarding agent
Shipping condition (from shipment or if empty, from delivery)
Shared Axis
Event type
Route
PO number
TIERS (3RD part)
Material
CO2 Footprint
Number of events
Event duration
Volumetry
leadtimes,
OTD, OTS
Cost accruals, Detailed condition value
Invoiced value
Quantities (net / gross)
Total gross weight
Total gross weight
containers, # handling units
Average distance
Total distance
Ratios

Navigational attribute	Definition	*Examples* / comments :	Shipment cost detailed analysis	Accrual cost vs invoice	Shipment Status and events	Shipment events	CO2 emissions
3rd party - Location	City from the 3rd party	*CHICAGO, ST GIRONS...*					
3rd Party (Cust/Vend)	Ship to Customer (outbound) or Vendor (inbound)	See MD tab					
3rd party TR zone	Transportation zone from the 3rd party	*PF1 : Z-50R,Z-52R....* *RCS : 0000380200, 0000680200....*					
3rd Party Type	CUST (Customer) or VEND (vendor)	*cust / vend*					
BFC GBU	GBU associated to the shipment : from transported material when possible, or from delivery (sales axis) or from cost center (purchasing axis).						
Company code	Fiscal company name that organise the shipment	*6005, ZFR3....*					
Company zone							
Condition type	Price conditions used for calculating accrual value	*RCS : ZS00-Preliminary segment FCL, Z030-waiting time...* *PF1 : ZU39-Flatrate/country DH...*					
Del DG class	Dangerous Good Class	*1, 2, 3, 5.2, 6.1...*					
Del DG UN number	UN Dangerous Good identification number	*1090, 2821 ...*					
Del Distribution Channel	Distribution channel from the delivery document						
Delivery Item		MD shared in OBAS application					
Delivery Number							
Event actual end date	Actual end date	*Day*					
Event actual start date	Actual start date	*Day*					
Event reason deviation	Detailed reason for the event	*PF1 : BE, DT, EQ...*					
Event type	Type of event	*PF1 : ZFOCUSLOAD, ZFOCUSDEL...*					
Forward agent	Forwarding agent to who we assigned the shipment	MD (vendors attribute) shared with SPRINT					
Invoice Number - Material document	Invoice number (matched with the shipment number)						
Leg indicator	1 preliminary / 2 main leg / 3 Subsequent / 4 direct segment / 5 return segment	*1, 2, 3, 4...*					
Material	Material code & name	(master data with general attributes)					
Material hierarchy	For Solvay legacy, Material hierarchy from material plant						
Material plant	*Plant* / Material code & name	(master data with plant attributes)					
Plant	Shipping plant for outbound transportation, receiving plant for inbound transportation.	*ROAA, ROxx...*					
Purchase order	Transport PO number						
Purchasing Site	Geographic site associated to the plant	*ROSIGNANO*					
Reference Month	Month used for rates conversions: taking actual completion date, then if empty planned completion date else shipment creation date (always populated).						
Ship Actual date for shipment completion	Actual date for shipment completion (goods leaving the plant or warehouse)						
Ship Actual date for Start of shipment	Start of main shipment leg (vessel departure) ususally matching also with invoicing date						
Ship Dep country	Country associated to the shipment departure (departure of the first shipment leg)	*FR, BR, US...*					
Ship dep geo zone	Zone associated to the shipment departure (departure of the first shipment leg)	*NA, LA, EU, AP*					
Ship Dep Postal Code	ZIP code from the shipment departure code	*Zip code depending on countries*					
Ship Dep Transp Zone	Transportation zone from the shipment departure point	*PF1 : Z-50R,Z-52R....* *RCS : 0000380200, 0000680200....*					
Ship departure point	Address associated to the shipment departure (departure of the first shipment leg)	*can be shipping point, a node (port, terminal...) a ship to, a vendor, a plant... with all the detail of the adress*					
Ship departure type	Type of point associated to the shipment departure (departure of the first shipment leg)	*cust/node/shipp/vend/plant*					
Ship Dest Country	Country associated to the shipment destination (arrival of the last shipment leg)	*FR, BR, US...*					
Ship Dest Postal Code	ZIP code from the shipment destination code	*Zip code depending on countries*					
Ship Dest Transp Zone	Transportation zone from the shipment destination point	*PF1 : Z-50R,Z-52R....* *RCS : 0000380200, 0000680200....*					

Ship destination point	Address associated to the shipment destination (destination of the last shipment leg)	*can be a point (port, terminal...) a ship to, a vendor, a plant... with all the detail of the address*
Ship destination type	Type of point associated to the shipment destination (destination of the last shipment leg)	*cust/node/shipp/vend/plant*
Ship packaging material	Container or truck used for the shipment (type of container, type of truck)	*PF1 : usually not used (packed at delivery level)* *RCS : 1059333 (ISOTANK), ...*
Ship Planned date for shipment completion	Planned date for shipment completion (goods leaving the plant or warehouse)	*Date depending on user default date format*
Ship Planned for shipment completion (Year/Month)	Planned date for shipment completion (goods leaving the plant or warehouse) YYYY-MM	*YYYY-MM*
Ship Route	Route Id and key entered in the shipment header	
Ship shipment type	Shipment type	*RCS : 9001 (road direct), 9002 (Sea monocontainer), PF1 : Z3C0 (ROAD standard)*
Ship Shipping condition	Shipping condition from shipment file when populated or (if not populated in shipment) shipping condition form the delivery item	*RCS : A/ Road LTL, AK Road FTL, AE sea FCL port of dest...* *PF1 : 30 Road FTL, 31 Road LTL, C2 cust pick up cont 20'...*
Ship shipping type	Shipping type in shipment header (main transport)	*PF1 : 30 (standard truck packed), 3A (truck container 20ft), 3B (truck container 40ft)...* *RCS : 01 (Truck) , 03 (rail), 04 (sea)...*
Ship Transport mode	From shipping type, simplified	*AIR, OCEAN, RAIL...*
Ship Transportation planning point	Organisation who organized and track the shipment	
Shipment cost Item	Cost number item (prefixed with shipment cost nbr)	
Shipment cost number	Shipment cost document number	
Shipment number	Number of the shipment document	*410xxxxxx in PF1, 3xxxxxx in RCS*
Ship. Shipping line	For sea shipment, shipping line name (additional data 1 from shipment document)	*COSCO, OOCL...*
Shipment Stage sequence	Sequence number of the stage in the shipment (1 for first stage, 2 for second one etc...)	*1, 2, 3...*
ShpCst Item category	Category of the shipment cost item	*RCS : 0001 (transportation costs), ...* *PF1 : ZT31 (frais d'attente...)*
ShpCst Posting (Year/Month)		
ShpCst Posting date		
ShpCst Service agent	Suplier to whom we pay the services	
Source system	SAP system from which data is coming	*PF1 / WP1*
Stage departure point	Address associated to the stage departure	*can be shipping point, a node (port, terminal...) a ship to, a vendor, a plant...*
Stage departure type	Type of stage departure	*cust/node/shipp/vend/plant*
Stage destination point	Address associated to the stage destination	*can be shipping point, a node (port, terminal...) a ship to, a vendor, a plant... with all the detail of the address*
Stage destination type	Type of stage destination	*cust/node/shipp/vend/plant*
Transportation group (Bulk / Packed)	Bulk or Packed (Bulk if designation of transportation group contains "Blk" or "Bulk" else "Packed")	*B (Bulk) / P (Packed)*
Transportation group detail	Transportation group from the transported material	*liquid bulk, solid bulk, etc*

In bold : navigational attributes are masterdata containing some additional attributes

Master data :	Attributes :
TIERS Address	Designation, Type, Location (city), Country, TR zone, ZIP code, Geo zone (EU/NA/NAM/LAM)
Route	Designation, Factory calendar, Service agent, Main leg shipping type, preliminary leg shipping type, subsequent leg shipping type, standard transit time, standard lead-time
Shipment cost item	Reference document (PO/PO-Item), Partner, Partner role, Item category, Freight class, Tariff zones (departure/destination) Posting date, Date of pricing, service agent,... and several other information from shipment cost item.
Shipment number	All dates and times from shipment (deadl. Tab), Hazardous content flag, Identification (plates numbers, container numbers, Seals number, Route, Forw Agent, Transport mode, other information coming from shipment header, informations from "tender" tab.
Other master data available in TIERS are reused from other BW applications	

TIERS ratios	Definition	units	Shipment cost detailed analysis	Accrual cost vs Invoice	Shipment Status and events	Shipment events	CO2 emissions
Qty net weight delivery*	Net weight of transported material in document unit		■	■	■		
Qty gross weight delivery*	Gross weight of transported material (ie net weight x coefficient gross weight vs net weight from material view)		■	■	■		
Total gross weight*	Gross weight including material gross weight + tare weight of packagings (used in the delivery) + tare weight of packagings used in the shipment.			■	■		■
Accrual net value**	Shipment cost calculated in shipment cost document		■				
Detailed shipment condition values**	Detailed value at shipment condition level that has been used for calculation of accrual net value.		■	■			
Distance	Distance managed at shipment stage level in km	Km	■	■	■		■
Average distance	Total distance / Number of shipments	Km			■		
Cost per unit (net)	Accrual net value / net weight (PU)	CP/PU	■	■			
Cost per unit (gross)	Accrual net value / gross weight (PU)	CP/PU	■	■			
Cost per km	Accrual net value / distance	CP/km	■	■			
Invoiced value**	Value of supplier invoice (or Solvay credit note to supplier) matched with the shipment document number.	Value		■			
Invoice – Accrual gap		CP			■		
Provisioning accuracy	1- (ABS(Invoice – Accrual) / Accrual value)	%			■		
Number of shipments	Number of single shipment files (shipment operation assigned to one Forw. agent)				■		
Number of containers	Number of packaging "Container" or "IsoTank" related to the shipment file.			■	■		
Number of HU	Number of handling units (zone in delivery header)			■	■		
Number of deliveries					■		
Number of stages	Total number of stages managed in shipment files				■		
Number of legs	Total number of stages that are legs in shipment files				■		
Booking leadtime***	Leadtime between actual planning date and actual completion date	Days			■		
On site time***	Leadtime between actual chaeck in (day+time) and actual completion (day+time)	Days			■		
Queue time***	Leadtime between actual check in (day+time) and actual loading start (day+time)	Days			■		
Loading duration***		Days			■		
Transit time***		Days			■		
HOTS	Haulier On Time Shipment : Shipments where actual completion day = Planned completion day	%			■		
HOTD	Haulier On Time Delivery : Shipments where actual shipment end = planned shipment end	%			■		
Number of events	Number or registered events					■	
Event duration	Event duration (when populated actual start of event and actual end of event)	Days				■	
CO2 quantity	Tons of CO2 emission corresponding to the transportation (based on the transport mode, total gross weight and distance)	To					■

* All those quantities are available in document unit or PU (prompt unit) making available the totalisation.

** All those values are available in document currency, and in CP (currency of prompt). Conversion is done based on exchange rates managed by finance team for the month "reference month" (month of actual completion or if empty planned completion or if still empty, shipment creation date).

*** For all those calculations, there are 3 ratios defined : Number of shipment files for which the calculation is relevant, total duration and average duration (average based on shipment files where it is possible to calculate the leadtime)

To get a printable leaflet of the hereabove paragraph click on the link : Leaflet

Currency conversion

- The X rate considered is the Daily Month Average (M) rate (table managed by finance team, source ECB - European Central Bank) based on Document creation date.

Elearning

E-Learning is available in HR - My learning page, searching "SBS TIERS Awareness - EN".

For External (not having any "My learning page"), you can follow it (Here)

It can be followed linearly (more or less one hour duration) or consulted upon user need only for a specific item.

Questions.

Frequently Asked Questions : Q&A Synthesis Tiers

In case of any specific question not answered above, please contact our support team : sbs-is-appli-help@solvay.com