

Definition			Licensing	
Area	Feature in S/4 TM (full)	Definition	basic Transportation Management or Advanced Transportation Management	License (Planning & Execution or Charge Management & Settlement)
1 Basic Functions	TM Output Management	You can use output management to print, fax, and email documents such as order, delivery, and billing information.	basic Transportation Management	n/a
1 Basic Functions	Sustainability	This function can be used to calculate the emissions quantity and fuel consumption for a freight order. You can also define other sustainability factors for a transportation mode or means of transportation.	Advanced Transportation Management	Planning & Execution
1 Basic Functions	TM Conditions	You use conditions to determine dependent values, for example, for filtering freight units, determining freight unit building rules (FUB rules), Incompatibilities, etc. Conditions are based on BRF+ decision tables.	basic Transportation Management	n/a
1 Basic Functions	Use of Process Controller Framework	The process controller is a framework with which you can define your own strategies and methods, and in doing so, the way in which your Planning process is executed.	basic Transportation Management	n/a
1 Basic Functions	Post Processing Framework	The system uses the Post Processing Framework (PPF) e.g. to communicate with SAP ERP, to create print documents or to create import documents, etc.	basic Transportation Management	n/a
1 Basic Functions	Scenario Builder	With the scenario builder, administrators can create scenario templates that include all the scenario data (system objects and Customizing data) required for running a scenario in Transportation Management.	Advanced Transportation Management	Planning & Execution
1 Basic Functions	TM Organizational Structure	In S/4 TM, the organizational structure can be based on the structure of a connected S/4 ERP system: <ul style="list-style-type: none"> – Corporate Organization – Company Organization – Sales Organization, Office and Group – Purchase Organization and Group – Planning and Execution Organization and Group S/4 TM maps its own Org. Units with S/4 ERP Org. Units through the field “BSG Org. Unit.” Plant and Shipping Point are created as Locations in S/4 TM	basic Transportation Management	n/a

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2 Master Data	Business Partners	Business partners are parties in which your company has a business interest. It can have different roles (as i.e. customer, vendor, carrier) and partner functions (ship-to party, sell-to party). To be used in transport planning, respective locations for the business partner need to be in place.		
2 Master Data	Transportation Zone	You use this business object to group locations into transportation zones	basic Transportation Management	n/a
2 Master Data	Locations	The master data object Location represents entities such as shipping points, plants, business partners etc. Amongst other data, it has the entities' necessary information for transport planning.		
2 Master Data	One Time Location	Allows to work with one-time locations in business processes that require the input of locations that have not been defined as master data objects, such as the creation of forwarding orders. The system creates one-time locations based on one-time address details	basic Transportation Management	n/a
2 Master Data	Schedules without using TM Optimizer	You use this function to define a sequence of stops such as ports, airports, or gateways that is valid for a specific period of time. The use of cut-off dates is not allowed for basic Transportation Management.	basic Transportation Management	n/a
2 Master Data	Means of Transport	For basic Transportation Management the means of transport can be defined to create transportation lanes.	basic Transportation Management	n/a
2 Master Data	Transportation Lane	A relationship between two locations, two transportation zones, or a combination of locations and zones that expresses the direct reachability of the locations or of all locations within the zones for a specific means of transport.	basic Transportation Management	n/a
2 Master Data	Trade Lanes	A trade lane is a classification of any transport-related activities representing a combination of zones or locations combined with a transportation mode or means of transport and providing an orientation between the source and destination.	Advanced Transportation Management	Planning & Execution

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2 Master Data	Default Route	You use this function to define a sequence of transshipment locations. For each default route you can specify the transportation mode, carrier, schedule, and so on, for each transportation stage. The system considers default routes as possible routes for a shipment between two locations.	basic Transportation Management	n/a
2 Master Data	Resources	Definition Capacity, Dimensions, Weight (Gross / Net), Volumes, Availability, Downtimes, Qualification	Advanced Transportation Management	Planning & Execution
2 Master Data	Equipmenttype / Equipmentgroup	Possibility to get the Capacity from the Equipment type	basic Transportation Management	n/a
2 Master Data	Active Vehicle Resource	Resources can be used with Advanced Transportation Management only The Field Active Vehicle can be used for basic Transportation Management	basic Transportation Management	n/a
3 Order Management	Combined Freight Inbound / Outbound / Stock Transfer (UB) specific Transportation	Combined inbound / stock transfer / outbound documents are allowed in one Freight object only in Advanced Transportation Management	Advanced Transportation Management	Planning & Execution
3 Order Management	Order based Freight Units	Sales order Purchase Order Stock Transfer order Returns based Freight Units As well as MM or SD Scheduling Agreements based Freight Units	Advanced Transportation Management	Planning & Execution

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3 Order Management	Delivery based FU	<p>No order specific pre-decessor documents are allowed</p> <p>Only delivery based FUs are possible for basic Transportation Management</p>	basic Transportation Management	n/a
3 Order Management	Freight Order / Freight Booking	<p>Freight Orders and Freight Bookings are available in basic Transportation Management (if not any features out of Advanced Transportation Management is used).</p> <p>Freight Order Creation in basic Transportation Management:</p> <ul style="list-style-type: none"> - manually via transaction - manually via POWL (personal worklist, e.g. Freight Units worklist -> create capacity document....) - via Schedules - without Allocations (Report /SCMTMS/MP_SCHED_CREATE_TOR would create a empty FO) - via Webservice (TOR GENERIC IN) - for feature parity we plan to develop the creation via a selection report (not yet available) 	basic Transportation Management	n/a
3 Order Management	Service Order Management	TOR Category: Service order from Header or Item can be created out of a TOR document	Advanced Transportation Management	Planning & Execution
3 Order Management	Forwarding Order Management	<p>Forwarding Order Management</p> <p>Features that belong to Forwarding Management</p>	Advanced Transportation Management	Planning & Execution
3 Order Management	FWO in Shipper Szenario	Forwarding Order to create Freight Unit in Shipper Szenario	Advanced Transportation Management	Planning & Execution

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3 Order Management	FWO Integration with S/4HANA Credit Management	With this feature, you can determine the risk of losses on receivables from business partners and make timely and efficient credit decisions. This feature enables you to integrate your forwarding order and forwarding settlement processes with SAP Credit Management.	Advanced Transportation Management	Planning & Execution
3 Order Management	Multi Modal Transports	Different modes of transport can be used in basic Transportation Management. Freight Order and Freight Booking can be used in basic Transportation Management	basic Transportation Management	n/a
3 Order Management	Air / Ocean / Rail specific functions	For example: SOLAS = Verified Gross Mas fields and functions, Air Cargo Security fields and checks, Rule 11 - invoicing carrier on stage level, IATA Code Fields, etc.	Advanced Transportation Management	Planning & Execution
3 Order Management	Basic Air / Ocean Booking Functionality	Only simple mode of transport (air / ocean) booking Exceptions see for certain specific functions which are only available for Advanced Transportation Management	basic Transportation Management	n/a
3 Order Management	Working with compartments	Compartments in the Freight Order / Freight Booking And Features around compartments, e.g. capacity limitation, dangers goods checks	Advanced Transportation Management	Planning & Execution
3 Order Management	FO Short Cut Scenario out of order or deliveries using FUBR	Direct Creation of FO out of a delivery using Freight Unit Building Rules.	Advanced Transportation Management	Planning & Execution
3 Order Management	Manual creation of Cross Delivery Handling Unit, Several Freight Units can be assigned to one Package Item	Only for local Package Item	basic Transportation Management	n/a

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3 Order Management	Container and Package Item as local item in the Freight Order	Container Item as local item in the Freight Order Package item as local item in Freight Order	basic Transportation Management	n/a
3 Order Management	Seal information in Freight Order	Only seal data as information in the local item in the freight order is available for basic Transportation Management.	basic Transportation Management	n/a
3 Order Management	Multi Pick / Multi drop Scenario (multiple shipping / receiving points)	Outbound only: Multiple outbound deliveries can be loaded at one or more shipping points and can be delivered to several customers Inbound only: Multiple inbound deliveries can be loaded at different vendors and be delivered to one or more receiving points. It is NOT allowed to have Freight Units from inbound and outbound deliveries combined into the same freight order.	basic Transportation Management	n/a
3 Order Management	Generate delivery items out of packaging material	Inventory managed package material used in a package item in TM can lead not only to handling units in LE delivery, but also to additional delivery items, so that they can be posted to the inventory by the goods receipt.	basic Transportation Management	n/a
3 Order Management	Consignment Order	Usage of the additional hierarchical TOR object consignment order and related functionality (i.e. consignment building profile, etc.)	Advanced Transportation Management	Planning & Execution
3 Order Management	Usage of loading or unloading points (technically defined as sub stops)	New hierarchy levels like loading and unloading points (belong to Advanced Shipping and Receiving, see customizing).	basic Transportation Management	n/a

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3 Order Management	Error Handling in Freight Document	When faulty Data comes in via ASN, this data is saved for later, manual correction in the Freight Order and Consignment Order in terms of saving „as much as possible“ data	Advanced Transportation Management	Planning & Execution
4 Planning	Business Shares	Business shares are optimization options for the carrier selection. The system takes into account business shares during the automatic carrier selection	Advanced Transportation Management	Planning & Execution
4 Planning	Allocations	The check against transportation allocations is an optimization option that you can use as part of both the manual and automatic carrier selection.	Advanced Transportation Management	Planning & Execution
4 Planning	Selection Profiles	A user-specific grouping of business documents that is taken into account during transportation Planning.	basic Transportation Management	n/a
4 Planning	Planning Profiles	General Usage of Planning Profile is allowed for basic Transportation Management Exceptions to this are specifically defined here in the Planning area, some are: Incompatibilities Vehicle resources	basic Transportation Management	n/a
4 Planning	Incompatibilities	Incompatibilities in Planning	Advanced Transportation Management	Planning & Execution
4 Planning	Transportation Units	Transportation Units Rail-, Trailer-, Container-, Package Unit etc. where a separate capacity document can be created	Advanced Transportation Management	Planning & Execution
4 Planning	Planning in Transportation Units	All TM processes which depend on the usage of the SCM Optimizer	Advanced Transportation Management	Planning & Execution
4 Planning	Manual Planning of FU into a Freight Order	Plan Freight Order by assigning Freight Units (INSERT Button). Freight Units can either be derived from outbound OR inbound deliveries. It is as well possible to plan manually via personal worklists POWL	basic Transportation Management	n/a

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4 Planning	Transportation Planning Cockpit	All Features which belong to the Transportation Planning Cockpit For Example: Gantt Charts, Map based Planning, Load Planning, Scheduling with VSS	Advanced Transportation Management	Planning & Execution
4 Planning	Fixed loading / unloading durations	Supports fixed durations for loading and unloading cargo at each stop	basic Transportation Management	n/a
4 Planning	Flexible stop duration	Supports variable durations for loading and unloading cargo at each stop. New activity types for preparing and finalizing each stop help to improve scheduling precision.	Advanced Transportation Management	Planning & Execution
4 Planning	VSS Scheduling	Scheduling in via VSS Scheduler	Advanced Transportation Management	Planning & Execution
4 Planning	Embedded Scheduling with ABAP Scheduler (Scheduling Engine)	Scheduling can be done without optimizer engines. Scheduling Constraints are not supported using Embedded Scheduling.	basic Transportation Management	n/a

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4 Planning	Transportation Proposal	Transportation Proposal in Transportation Planning	Advanced Transportation Management	Planning & Execution
4 Planning	Map Based Planning	<p>Map Based Planning or Map Display.</p> <p>Both are based on the Visual Business (VB) UI5 Control, which does not need separate license.</p>	Advanced Transportation Management	Planning & Execution
4 Planning	Gantt Chart	Transportation Cockpit using planning with GanttChart	Advanced Transportation Management	Planning & Execution
4 Planning	Integration to geographical information system	<p>The geographical information system (GIS) can be used to display maps, determine geo-coordinates, and distances and durations.</p> <p>The customer can build above integration to GIS itself in its project. SAP recommends using HANA spatial services (HSS) to determine geo-coordinates, distances and durations. The customer needs to license HSS separately.</p> <p>The integration from TM to HSS is supported with basic TM.</p>	basic Transportation Management	n/a
4 Planning	Manual Entry of Distance / Duration (Transportation Lane / Default Route)	As input for the ABAP scheduling engine	basic Transportation Management	n/a
4 Planning	VSR Optimization	VSR Optimier - SCM Optimizer (Installation)	Advanced Transportation Management	Planning & Execution

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4 Planning	Automatic Load Planning	You can plan the loading space of box trucks, trailers, semi-trailers, and containers in the transportation cockpit or directly in business documents (Road freight order, Trailer unit and Container unit). Planning is carried out at the item level.	Advanced Transportation Management	Planning & Execution
4 Planning	Load Planning 3D Visualisierung	In both the transportation cockpit and in the freight order, you can check the results of load Planning as a 3D load plan.	Advanced Transportation Management	Planning & Execution
4 Planning	Automatic Load Consolidation	You can use this function to optimize the distribution of freight units and package units to the following resources: trucks, containers, trailers, and railcars.	Advanced Transportation Management	Planning & Execution
4 Planning	Package Building (PB)	System uses PB to build packaging hierarchy. Note: As of OP2020, this functionality is offered via Unified Package Building (UPB).	Advanced Transportation Management	Planning & Execution
4 Planning	Package Building Optimizer (PBO)	System uses package building (PB) to build packaging hierarchy. PB can be configured to use the PBO to determine x/y/z positions and orientations of products on mixed pallets (mixed = multiple products and/or multiple customers). Note: As of OP2020, this functionality is offered via Unified Package Building (UPB).	Advanced Transportation Management	Planning & Execution
4 Planning	Unified Package Building (UPB) Using Package Building (PB) and Package Building Optimizer (PBO)	System uses UPB and PB to build packaging hierarchy. PB can be configured to use the package building optimizer (PBO) to determine x/y/z positions and orientations of products on mixed pallets (mixed = multiple products and/or multiple customers).	Advanced Transportation Management	Planning & Execution
4 Planning	Unified Package Building (UPB) Using Packaging Specification (PS)	System uses UPB and PS to build packaging hierarchy.	basic Transportation Management	
4 Planning	Unified Package Building (UPB) Using Packing Instruction (PI)	System uses UPB and PI to build packaging hierarchy.	basic Transportation Management	
4 Planning	Carrier Selection (manually)	Enter a carrier in the freight order manually.	basic Transportation Management	n/a

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4 Planning	Automatic Carrier Selection	Automatic Carrier Selection Carrier Ranking Lists (with more than one carrier)	Advanced Transportation Management	Planning & Execution
4 Planning	Driver as Information in Freight Order	Driver as Description in Freight Order (Driver tab) without Master Data / Driver ID Cannot be used for driver management (e.g. Planning or any checks)	basic Transportation Management	n/a
4 Planning	Driver Management	If you work with vehicle resources and drivers, you can assign drivers to freight orders and take them into account during Planning.	Advanced Transportation Management	Planning & Execution
4 Planning	SAP Direct Distribution Last Mile Delivery	The integration into SAP Direct Distribution is available in basic TM for customers which have licensed SDD. They will be able to use: - the Vehicle Resource - Driver Management	basic Transportation Management	
4 Planning	Normalized Quantity Features	With this feature you can use normalized load consumption quantities and normalized capacities to optimize the usage of loading space. For example, you can convert europallets and pallet cages into loading meters and specify the capacity of a truck as a normalized capacity. All features around normalized quantities require Advanced Transportation Management	Advanced Transportation Management	Planning & Execution
5 Freight Execution and Monitoring	Direct Subcontracting	This is TM Subcontracting Enter Carrier manually into the Freight Document and subcontract directly B2B Message is used for direct subcontracting, it contains already as well the subcontract confirmation	basic Transportation Management	n/a

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5 Freight Execution and Monitoring	Shipment Tendering Direct Tendering	Starting of the Tendering Prozess in Freight Document Carrier can be selected manually (if ranking list is used, only on carrier is allowed in ranking list) Charge Calculation for tendering: Tendering Profile ist set that only price limit is transferred to carrier	basic Transportation Management	n/a
5 Freight Execution and Monitoring	Carrier Response to spot bids	Carrier can confirm or change data like rates / time slots etc. for delivery	Advanced Transportation Management	Planning & Execution
5 Freight Execution and Monitoring	Peer to Peer Tendering Broadcast Tendering	Tendering via LBN or without LBN: Peer to Peer Tendering Broadcast Tendering	Advanced Transportation Management	Planning & Execution
5 Freight Execution and Monitoring	Award Confirmation (for Tendering) Manual only	Manual Award Confirmation is possible in basic Transportation Management Award Confirmation which is possible to be customized / integrated via Agreement RFQs and Quotations (as well with Webservices) is only possible with Advanced Transportation Management.	basic Transportation Management	n/a
5 Freight Execution and Monitoring	Delivery Proposal out of TM	Interactive Delivery triggering out of: - Freight Document manually - out of TM Planning Cockpit - out of POWL ' Overview Transportation Requirements' - out of ERP Logistic Integration -> create deliveries in ERP	Advanced Transportation Management	Planning & Execution
5 Freight Execution and Monitoring	Background Job to trigger delivery creation	Batch Job to trigger delivery creation Report /SCMTMS/DLV_BATCH	Advanced Transportation Management	Planning & Execution
5 Freight Execution and Monitoring	Delivery Split	Delivery Split which could originate from changes in TM or another application like EWM, LE, SD, MM	basic Transportation Management	n/a
5 Freight Execution and Monitoring	Delivery Update	Delivery update due to: Status update Date Update Trigger Posting of goods movement	basic Transportation Management	n/a

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5 Freight Execution and Monitoring	Delivery Update -> Quantity Adjustments	Delivery Update due to quantity changes	basic Transportation Management	n/a
5 Freight Execution and Monitoring	Status Management	Status Handling in Transportation Management	basic Transportation Management	n/a
5 Freight Execution and Monitoring	Discrepancies	Usage of Discrepancies in Freight Document	Advanced Transportation Management	Planning & Execution
5 Freight Execution and Monitoring	Transportation Execution without Event Management	Local Execution Tab in Freight Documents with local events, no integration with SAP Event Management	basic Transportation Management	n/a
5 Freight Execution and Monitoring	Integration into SAP EHS Management, product safety	The dangerous goods functions in Transportation Management (TM) enables you to transport dangerous goods (DG) in compliance with international regulations.	basic Transportation Management	n/a
5 Freight Execution and Monitoring	Dangerous Goods Management: Exceptions	Specific TM Development for Dangerous Goods such as: 1000 Points Rule Shipper's Declaration	Advanced Transportation Management	Planning & Execution
5 Freight Execution and Monitoring	Logistics Integration with Product Compliance	The compliance functions in Transportation Management - Checking of all compliance-relevant products to determine whether road transport processing is allowed as it pertains to dangerous goods regulations - Blocking of transportation demands and freight orders if no compliant road transport is possible - New field "Dangerous Goods Status" for identifying items with dangerous goods issues	Advanced Transportation Management	Planning & Execution
6 Contract Management	Service Product Catalog	You can use a service product catalog to capture the services that you make available to your customer. A catalog acts as a template from which your customer can pick and choose, according to their business needs.	Advanced Transportation Management	Planning & Execution

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6 Contract Management	Forwarding Management LSP Senario	Forwarding Management Forwarding Agreement Management Forwarding Agreement Quotation Management	Advanced Transportation Management	Planning & Execution
6 Contract Management	Freight Agreements	Only Freight Agreements can be used. Freight Agreement Quotations are not allowed in basic Transportation Management	basic Transportation Management	n/a
6 Contract Management	Strategic Freight Procurement	System support to investigate the best rates from carriers to transport items between specific locations (trade lanes) and then to agree a contract (agreement) with the carriers. Contains features to request rate quotations, evaluate responses, and award the transportation business to carriers.	Advanced Transportation Management	Charge Mgmt & Settlement
6 Contract Management	External Agreements - SMC3	This function allows Transportation Management (TM) to use agreements stored in an external system when calculating transportation charges. When processing the calculation sheet and checking the relevant rates, the TM system connects to the external system to determine the rates. TM can obtain accurate rates or estimated rates from the external system, depending on whether you specify the reference number of the external system's agreement.	Advanced Transportation Management	Charge Mgmt & Settlement
6 Contract Management	Freight Agreement workflow	You can enable an approval workflow for the release of agreements. You can specify that you want the system to notify an approver when you request approval for the release of an agreement. You can also specify whether you can edit agreements during the approval workflow. In agreements with multiple parties, only one approver must approve the release of the agreement	Advanced Transportation Management	Planning & Execution
6 Contract Management	Freight Agreement version management	You can generate different versions of agreements, with the same validity period or with mutually exclusive validity periods. Agreement versions ensure that you do not need to create a new agreement when an agreement's validity period expires or the details of an agreement change depending on the time period. Note that you can have only one released agreement version with the same validity period or an overlapping validity period but can have multiple released agreement versions with mutually exclusive validity periods. You can revert to an earlier agreement version by deactivating the released version and releasing the earlier version. You can also delete agreement versions. The Versions tab page contains a list of the agreement versions, including the status of each version.	Advanced Transportation Management	Planning & Execution

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6 Contract Management	Freight Agreement excel integration	You can export the content of a freight agreement table from the table view to a Microsoft Excel file. If you are using Apple's Web browser "Safari", you have to add the ending .xls to the exported file before you can open it.	Advanced Transportation Management	Planning & Execution
6 Contract Management	Forwarding Agreement workflow	You can enable an approval workflow for the release of agreements. You can specify that you want the system to notify an approver when you request approval for the release of an agreement. You can also specify whether you can edit agreements during the approval workflow. In agreements with multiple parties, only one approver must approve the release of the agreement	Advanced Transportation Management	Planning & Execution
6 Contract Management	Forwarding Agreement version management	You can generate different versions of agreements, with the same validity period or with mutually exclusive validity periods. Agreement versions ensure that you do not need to create a new agreement when an agreement's validity period expires or the details of an agreement change depending on the time period. Note that you can have only one released agreement version with the same validity period or an overlapping validity period but can have multiple released agreement versions with mutually exclusive validity periods. You can revert to an earlier agreement version by deactivating the released version and releasing the earlier version. You can also delete agreement versions. The Versions tab page contains a list of the agreement versions, including the status of each version.	Advanced Transportation Management	Planning & Execution
7 Charge Management	Charge Calculation	Charge Management is the process of setting up master data needed for charge calculation to be used in subsequent steps in the transportation financial processes. Advanced functions are noted below.	basic Transportation Management	n/a
7 Charge Management	Advanced Charge Caclulation for specific modes of transports Air / Ocean	IATA Rates for Air Commodity based Charges index table based charges prepaied and collect on bookings	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Event Based Charge Calculation	Separate Customizig for Event based charges is set	Advanced Transportation Management	Charge Mgmt & Settlement

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7 Charge Management	Collective Order Rate look up	When you create a collective settlement document from multiple forwarding orders or freight orders, you can choose to sum up the values of the calculation bases with scales of different dimensions (as specified in the grouping rule) in multiple forwarding orders and determine a rate for the collective value. The system controls the grouping based on the resolution base.	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Consolidated Charge Calculation	Meant here is: - charge type grouping - resolution based grouping	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Freight Rate Tables restricted to 3 dimensions (scales)	For basic Transportation Management Freight Rate Tables are restricted to 3 dimensions (scales).	basic Transportation Management	n/a
7 Charge Management	Freight Rate Tables more than 3 dimensions (scales) and up to 14 dimensions (scales)	If there are more than 3 dimensions (scales) used in the Freight Rate Tables, it will be Advanced Transportation Management	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Charge Calculation	Basic process of calculating charges for transportation operations	basic Transportation Management	n/a
7 Charge Management	Advanced Charge Calculation for specific modes of transport: Ocean	Ocean - for charge calculation there have been no enhancements in charge calculation General Cargo Rating Commodity based Charges Index table based charges Prepaid and collect on ocean booking	Advanced Transportation Management	Charge Mgmt & Settlement

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7 Charge Management	Through Rate	This calculation logic always tries to find the most direct rate with as few individual stages as possible. If no through rate is found, the logic systematically breaks up the end-to-end route into pieces of mixed stage categories (pre-carriage and main carriage) to find cross rates, including two-stage categories. If no cross rate is found, the logic checks for a rate for each stage category. If a rate isn't maintained for each stage category, then each start-destination pair is analyzed for a rate.	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Calculation with Day-of-week pricing	It's possible to maintain rates in absolute numbers or markups in percentages depending on the delivery date. Especially in rail transportation, the charges often deviate depending on the weekday. Calculation base WEEKDAY may be appropriate to use in these cases. This can also be relevant for the determination of rail fuel surcharges. If the order date isn't used to look up the fuel index, but the in-gate date (e.g., the end date of main carriage) is used instead, then you should specify the calculation date type in the calculation profile accordingly.	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Resource based Charges	When ever you use ACTIVE OR PASSIVE RESOURCES as attribute for the charge calcucation (CALCULATION RESOLUTION BASE or CALCULATION BASE) then this is only included in Advanced TM. This also includes the usage of NO_OF_AXELS as Calcualtion Base.	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Calculation Method - Break weight, Clipping	Standard methods for calculating transportation costs	basic Transportation Management	n/a
7 Charge Management	Calculation Method - Deficit weight rating	This define the rating technique to arrive the transportation cost .	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Cost Pull and Automatic cost pull	When you use a cost instruction type, the system automatically includes an internal charge calculation ... Cost Pull Strategy You specify the cost pull strategy in the calculation sheet.	Advanced Transportation Management	Charge Mgmt & Settlement

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7 Charge Management	Fuel Surcharge	<p>Fuel Surcharge Calculation - Model 1 (US) Fuel index (Gasoline and Diesel Fuel prices) are published by government on a weekly basis, fuel index is published mainly based on origin location/zones. Hauler uses the published index to do a rate look-up.</p> <p>Fuel Surcharge Calculation - Model 2 (EU) Base fuel index is agreed with Hauler during contract negotiation, for charging a customer Hauler derives the factor (current_index/base_index) to be applied based upon the current fuel index</p>	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Manual rate look up	<p>When rating has to be performed using certain data/attributes as basis which are not available in the business document being rated, it should be possible to perform rate lookup using inputs entered by the user directly in charges.</p> <p>For example: As per a contract Labor fees has to be determined based on number of days of effort. However, days are not documented/captured anywhere in the business document which can be used to determine the rate automatically. In such cases, user should be able to input the number of days during charge calculation which should then be used to perform the rate look up.</p>	basic Transportation Management	n/a
7 Charge Management	Multiple Rate Hit	<p>While rating an order, sometimes rate determination fails when some attributes which are part of the rate table are not yet maintained in the order. SAP Transportation Management solution provides a way for the user to choose the applicable rate by displaying the various rate options available.</p>	Advanced Transportation Management	Charge Mgmt & Settlement

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7 Charge Management	Uncontrolled shipment	<p>Controlled shipment means that pre-, main- and on-carriage are all handled, subcontracted and invoiced by the freight forwarder. So, the ordering party is only interacting with the freight forwarder.</p> <p>The freight forwarder is interacting with the carrier or NVOCC (non vessel operating common carrier) as subcontractor and the ordering party as customer. In this scenario the freight forwarder has own agreements with the carrier or NVOCC he subcontracted the transport orders to. Freight forwarder has only control over the pre- and the on-carriage of the transport.</p> <p>The main-carriage is also planned by the freight forwarder, but is executed by the carrier or NVOCC on basis of special freight agreements, which exist directly between the ordering party and the carrier or NVOCC.</p>	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Header level charge calculation in stage level charge calculation	Stage level calculation is most commonly used scenarios in freight forwarding scenarios where charges applicable to a stage are mapped in respective calculation sheet. However, some of the charges would stage independent and would apply for the entire order. Hence, instead of mapping such charges in one of the stage relevant calculation sheets, user can define all such charges in a separate calculation	basic Transportation Management	n/a
7 Charge Management	Charge Estimation Quick Quote functionality	Often, shippers get only the most important data at the time of order taking, which should be used as basis to provide an estimate to the customer. Other logistical data is updated later at the time of finalizing the order or during Planning phase. Similarly, shippers could use the quick quote functionality to choose the carrier and check availability of carriers.	basic Transportation Management	n/a

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7 Charge Management	Internal charge calculation at forwarding side	<p>In LCL Scenarios, while the main business units take orders from customers, gateway consolidation centers consolidates shipments from various business units and creates a consolidated booking with the ocean carrier. In some cases, the gateway and the business unit fall under different company organization which necessitates an internal settlement between the gateway and the business unit (Inter Company Internal settlement)</p> <p>Also, depending on the business process followed, some companies prefer for a settlement between the gateway and the business unit even if they are under the same company organization. This settlement would be an intra-company internal settlement.</p>	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Rate table access with partial key	In certain cases, rates are maintained using * feature – During rate determination, if a specific rate for the matching logistical data is not maintained or if there is no matching scales then the generic rate maintained for * should be determined.	basic Transportation Management	n/a
7 Charge Management	Duration based rating	As part of standard delivery, it should be possible to rate based on Gross Duration or Net Duration information in freight orders	basic Transportation Management	n/a
7 Charge Management	Parcel handling	Parcel- Item based charge calculation	basic Transportation Management	n/a
7 Charge Management	Flexible invoice	You can create a forwarding settlement document for a group of charges in a forwarding order. This means that you can create more than one forwarding settlement document for a forwarding order, where each settlement document is for a different group of charges in the order. This enables you to create a settlement document for a group of charges that you want to settle at the same time in your transportation process.	Advanced Transportation Management	Charge Mgmt & Settlement

Area	Feature in S/4 TM (full)	Definition	basic Transportation Management or Advanced Transportation Management	License (Planning & Execution or Charge Management & Settlement)
7 Charge Management	Commodity based agreement item determination	<p>Not only the rates, sometimes tariff structure itself might vary for products across various categories. Tariff structure for transporting fertilizers might be different from tariff for pharmaceutical goods. It should be possible to define and use commodity code specific products. If you specify commodity codes in a forwarding order or the associated Master Data, the system determines multiple rates in the following cases:</p> <p>When you have a forwarding order with no commodity codes and the associated rate table has rates for multiple commodity codes. On triggering charge calculation, the system displays multiple rates for the charge line.</p> <p>When you have a forwarding order with multiple commodity codes and the associated rate table has the calculation base as COMM_CODE_MUL. On triggering charge calculation, the system displays multiple rates for the charge line.</p>	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Multiple agreement pop up	<p>Often LSP's would have multiple FA's with the same carriers and Purchasing organizations</p> <p>This is due to the fact that a LSP may strike deals with carriers at various levels : e.g. Country, Regional and Global basis</p> <p>Normally the larger the contracts the better are the rates. However, if a country BP is pushing a lane to increase market share then the LSP could potentially get better rates and therefore it is meaningful to have a different contract with the country BP or even multiple contracts Similar scenario can exist on the customer side</p> <p>So the ability to choose a particular context in a given scenario is a critical business requirement on both buying and selling side</p>	Advanced Transportation Management	Charge Mgmt & Settlement

Area	Feature in S/4 TM (full)	Definition	basic Transportation Management or Advanced Transportation Management	License (Planning & Execution or Charge Management & Settlement)
7 Charge Management	Container provisioning and return	In SAP Transportation Management you can request provisioning of empty containers or railcars for providing transportation service in the future. You can also request for return of the empty containers or railcars. You can then calculate the charges for empty provisioning, empty return, or empty provisioning with a transportation service.	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Additional agreement party relevant charge determination	This function enables you to create a freight settlement document (FSD) for each of the additional agreement parties that are contained in a freight order or freight booking.	basic Transportation Management	n/a
7 Charge Management	Service charges handling	You can charge for additional services, such as fumigation, packing and labelling, and insurance, even when you do not specify these additional service items in the freight agreement attached to a freight order. You can include the charges for the charge types associated with the service items in the freight order and perform charge calculation.	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Ignore calculation rule	If you select this checkbox, the system ignores the calculation rule for the charge line you specified in the relevant calculation sheet or rate table, and it does not calculate the calculated amount. Instead it uses the rate amount as the calculated amount. Note that the system deselects this checkbox by default. This checkbox is enabled only for charge lines with a rate table.	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Forwarding side: Single file prepaid and collect party - Incoterm	Single FWO document for prepaid and collect party for incoterm scenario and support of charge calculation	Advanced Transportation Management	Charge Mgmt & Settlement

Area	Feature in S/4 TM (full)	Definition	basic Transportation Management or Advanced Transportation Management	License (Planning & Execution or Charge Management & Settlement)
7 Charge Management	Dimensional weight and chargeable weight	This DataSource extracts data concerning the dimensional weight profile. Weight vs volume.	basic Transportation Management	n/a
7 Charge Management	Holiday Based charges	As a logistics service provider or carrier, you can charge your customers additional charges incurred for providing services on non-working days, such as weekends and public holidays, in a particular country or region.	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Forwarding side - Incoterm handling in charge calculation	Charge calculation based on collect and prepaid party	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Forwarding side : Support for execution based charge calculation	An execution-based charge item always has a zero amount in an order as the charges are calculated in the settlement document, for example, in a buyer's consolidation. For execution-based charges, the system doesn't set the invoicing status to Cannot Invoice Automatically to prevent the system from excluding such charges from the settlement run	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	rate excel integration	Excel upload and download at rate level is in basic Transportation Management: for rate maintenance	basic Transportation Management	n/a
7 Charge Management	Master Data cockpit	Master Data Cockpit	Advanced Transportation Management	Charge Mgmt & Settlement
7 Charge Management	Update Rates	Process of updating details for existing rates	basic Transportation Management	n/a
8 Freight Settlement	Group Logistics Management	Side by Side possible Only embedded in S/4HANA is future scope	Advanced Transportation Management	Charge Mgmt & Settlement
8 Freight Settlement	Freight Settlement Document Creation	Different possibilities to create Freight Settlement Documents: Manual Online / Batch Run for the Processing of multiple Freight Settlement Documents 1 FDS per 1 Freight order / booking	basic Transportation Management	n/a

Area	Feature in S/4 TM (full)	Definition	basic Transportation Management or Advanced Transportation Management	License (Planning & Execution or Charge Management & Settlement)
8 Freight Settlement	Collective Freight Settlement Document	<p>Collective Freight Settlement Document</p> <p>It is possible to create one single Collective Freight Settlement Document for several Freight Orders.</p>	basic Transportation Management	Charge Mgmt & Settlement
8 Freight Settlement	Automatic Change Management process for settlements	<p>In TM, you may need to change a freight order after you have created a freight settlement document and after you have posted the freight settlement document to Materials Management (MM). You can run the background processing functions. The system makes the required change in the relevant downstream business documents.</p>	Advanced Transportation Management	Charge Mgmt & Settlement
8 Freight Settlement	Freight Cost Distribution (LSP Scenario)	<p>Freight Cost distribution for LSP can be done with the inter or intra company settlement process. There by the Executing Organization of the Freight documents can do internal settlement with the Forwarding organization in the forwarding orders. The internal settlement (intra and inter company) helps distribute the costs from the organizations incurring the cost to the organizations having the revenue</p>	Advanced Transportation Management	Charge Mgmt & Settlement
8 Freight Settlement	Freight Cost Distribution (Shipper Scenario based on basic Agency Billing)	<p>Supports the ability to breakdown the freight cost to the level of Delivery items (Products) and then post to either GL as an expense for outbound transportation scenarios and to Material account for material valuation for inbound transportation scenarios. TM leverages Settlement Management (formerly called Agency Business) module to process the distributed freight cost appropriately to the GL account as expense or Material account for valuation.</p>	basic Transportation Management	n/a
8 Freight Settlement	Internal Settlement	<p>In the standard internal settlement process, the internal settlement is between the purchasing organization of the freight order and the sales organization of the forwarding order. In the internal settlement process for resources, the settlement is between the organizations that own the resources that are used to execute the order and the purchasing organization of the freight order.</p>	Advanced Transportation Management	Charge Mgmt & Settlement

Area	Feature in S/4 TM (full)	Definition	basic Transportation Management or Advanced Transportation Management	License (Planning & Execution or Charge Management & Settlement)
8 Freight Settlement	Forwarding Settlement Process	In Transportation Management (TM), you can perform forwarding settlement with your ordering parties by creating a forwarding settlement document (FWSD) and sending it to Sales and Distribution (SD) for creating the billing document (invoice) and posting to financials.	Advanced Transportation Management	Charge Mgmt & Settlement
8 Freight Settlement	Carrier Invoice and Dispute Management	<p>These are part of the Carrier invoice and dispute management which are part of Advanced Transportation Management licenses:</p> <ul style="list-style-type: none"> 40 Freight Settlement Dispute Case 50 Carrier Invoice 60 Carrier Credit Memo <p>The category 50 and 60 is the ability to create in S/4 HANA for example the Carrier invoice and Carrier Credit Memo using the B2B interface.</p>	Advanced Transportation Management	Charge Mgmt & Settlement
8 Freight Settlement	FSD creation via Batch job	Run the program /SCMTMS/SFIR_CREATE_BATCH. If you want the system to automatically transfer the settlement documents to SAP ERP after creation, select the Immediate Transfer to ERP checkbox. If you do not automatically transfer settlement documents after creation, you must run the program /SCMTMS/SFIR_TRANSFER_BATCH to transfer the settlement documents. For example, you create settlement documents but then you want to transfer the settlement documents to SAP ERP in a structured way, twice a day. You schedule the program /SCMTMS/SFIR_TRANSFER_BATCH to run in the background. This makes sure the system transfers all settlements that are not blocked to SAP ERP	basic Transportation Management	n/a
8 Freight Settlement	Enhanced handling of Company Code and Plant in the Freight Settlement Process	The company code in the freight settlement process is used to book the freight accruals to financial accounting (FI) under the company code. The plant is required in the posting process during the creation of the service purchase order as part of the posting step for a freight settlement document. You are now able to define the company code in the freight document (Freight order, freight booking and service order) and the same is taken over to the settlement process. For shippers scenario, the plant used in the posting step for freight settlement document if unique would be taken over from the underlying order/delivery items	basic Transportation Management	n/a

Area	Feature in S/4 TM (full)	Definition	basic Transportation Management or Advanced Transportation Management	License (Planning & Execution or Charge Management & Settlement)
8 Freight Settlement	Basic Freight Settlement Types	The following category shall be part of the Basic. 10 Freight Settlement Document 20 Charge Correction Advice Document 30 Credit Memo (and its corresponding Reason codes too there is nothing which is specific to functionality there)	basic Transportation Management	n/a
8 Freight Settlement	TM Supported Invoice Verification Transactions	List of Transactions from MM-LIV for supporting the over all Invoice process including ERS (Self-Billing) MIRO - Enter Invoice MIR7 - Park Invoice MIR4 - Display Invoice document MR8M - Cancel Invoice Document (Nothing TM specific) MRBR - Release Blocked Invoices MIR5 - Display List of Invoice Documents MIR6 - Invoice Overview MRRL - Evaluated Receipt Settlement (ERS) MR11 - Maintain GR/IR Clearing Account	basic Transportation Management	n/a
8 Freight Settlement	Billing freight cost to customer (SD Billing)	You can configure TM to distribute the freight costs in the freight order according to delivery items. You can then add the distributed costs for each delivery item to the final amount in the billing document that you send to your customer.	basic Transportation Management	n/a
9 Integration	Transit Warehouse Integration between TM / EWM	Transit Warehouse is professional, no matter if communication via LDAP or update handler	Advanced Transportation Management	Planning & Execution
9 Integration	Integration with GTS	The global trade functions in Transportation Management (TM) help you to meet the requirements for transporting customs-relevant goods.	Advanced Transportation Management	Planning & Execution
9 Integration	Integration into Cargo Network Services	Integration into Cargo Network Services e.g. Descartes' Global Freight Exchange	Advanced Transportation Management	Planning & Execution

Area	Feature in S/4 TM (full)	Definition	basic Transportation Management or Advanced Transportation Management	License (Planning & Execution or Charge Management & Settlement)
9 Integration	LDAP Web Service Integration between TM and EWM (Shipper Szenario) - TU (in EWM) based	Integration between EWM and TM with LDAP Request and LDAP Nodification using EWM Transportation Unit	Advanced Transportation Management	Planning & Execution
9 Integration	Integration to Business Suite Product SAP Event Management	Integration to SAP Event Management	Advanced Transportation Management	Planning & Execution
9 Integration	Carrier Collaboration Fiori Apps - Freight Order Management - Tendering	<p>Integration into NEW APP for Carrier Collaboration Carrier representatives can view and respond to the freight requests for quotations. Proposal of price and stop start and end dates is also possible.</p> <p>Post submitting the quotes, the carriers can view the evaluation / awarding status in the Display Freight Quotations application.</p>	Advanced Transportation Management	Planning & Execution
9 Integration	Carrier Collaboration Fiori Apps -Freight Order Management - Order Confirmation	<p>Integration into NEW APP for Carrier Collaboration Subcontracted freight orders are shown for the carrier confirmations. Carriers can submit their confirmations from the fiori application.</p> <p>Direct Tendering is also supported, the relevant freight orders are sent and confirmations are received from carrier representative.</p>	Advanced Transportation Management	Planning & Execution
9 Integration	Carrier Collaboration Fiori Apps - Freight Agreement RFQs in S/4HANA	<p>The application can be accessed outside the firewall of Shipper system in internet. Carrier representatives are able to view, and update the quotation responses via the Fiori based application:</p> <ul style="list-style-type: none"> Submit responses Submit confirmations Attachment & Notes support <p>This is the successor functionality of the Business Suite TM Collaboration Portal</p>	Advanced Transportation Management	Planning & Execution
9 Integration	Generic Service Outbound / Inbound	<p>The Service Transportation Order Generic Request can be used for inbound / outbound scenarios to exchange TOR objects</p> <p>See Note https://launchpad.support.sap.com/#/notes/2474539</p>	basic Transportation Management	n/a

Area	Feature in S/4 TM (full)	Definition	basic Transportation Management or Advanced Transportation Management	License (Planning & Execution or Charge Management & Settlement)
9 Integration	Integration with ERP: S/4HANA TM side by side deployment	Side by Side Deployment with any ERP (ECC , S/4HANA, Third Party)	Advanced Transportation Management	Planning & Execution
9 Integration	Direct Integration of TM - EWM via Advanced Shipping & Receiving	<p>Integration between TM / EWM running embedded with S/4HANA Logistics in one database instance (-> ERP / TM / EWM in the same S/4HANA system) including the new Shipping and Receiving UI in EWM</p> <p>The scenario is available as long as no other Advanced Transportation Management rule applies:</p> <p>e.g.:</p> <ul style="list-style-type: none"> - only delivery based FU can be used in the scenario - for later releases: as soon as one of the applications (EWM / TM) is running side by side, this will be only available with the Advanced Transportation Management 	basic Transportation Management	n/a
9 Integration	Forwarding Agreement excel integration	ou can export the content of a freight agreement table from the table view to a Microsoft Excel file. If you are using Apple's Web browser "Safari", you have to add the ending .xls to the exported file before you can open it.	Advanced Transportation Management	Planning & Execution
9 Integration	Integration of external Events with the TM Web Service	Events can be reported via Web Service TOR_GENENERIC_ Inbound / Outbound	basic Transportation Management	n/a
9 Integration	Integration between TM and Event Management on SAP S/4HANA	<p>The integration of Events via usage of SAP Event Management is Advanced Transportation Management.</p> <p>SAP Event Management can be either deployed as Business Suite Solution (SAP EM) or as a technical Add on in SAP S/4HANA (as of May 2021)</p> <p>As well the usage of reporting Events via Interface TransportationEventBulkNotification is Advanced Transportation Management</p>	Advanced Transportation Management	Planning & Execution

Area	Feature in S/4 TM (full)	Definition	basic Transportation Management or Advanced Transportation Management	License (Planning & Execution or Charge Management & Settlement)
10 Logistics Business Network	Shipment Tendering Direct Tendering	Starting of the Tendering Prozess in Freight Document Carrier can be selected manually (if ranking list is used, only on carrier is allowed in ranking list) Charge Calculation for tendering: Tendering Profile ist set that only price limit is transferred to carrier	basic Transportation Management	n/a
10 Logistics Business Network	Carrier Response to spot bids via LBN Integration	Carrier can confirm or change data like rates / time slots etc. for delivery Functionality is basic Transportation Management only when LBN is involved	basic Transportation Management	
10 Logistics Business Network	Peer to Peer Tendering Broadcast Tendering	Tendering via LBN or without LBN: Peer to Peer Tendering Broadcast Tendering	Advanced Transportation Management	Planning & Execution
10 Logistics Business Network	Carrier Invoice submission and Dispute Management via Integration with LBN	When Carrier Invoice will be handled via LBN Integration the settlement document category 50 Carrier Invoice comes with basic Transportation Management When Dispute Cases will be handled via LBN Integration the settlement document category 40 Freight Settlement Dispute Case comes with basic Transportation Management	basic Transportation Management	n/a
10 Logistics Business Network	Integration to Global Track & trace	Integration into Global Track & trace Service 'TransportationEventBulkNotification' can be used in basic Transportation Management only when LBN is licensed	basic Transportation Management	n/a

Area	Feature in S/4 TM (full)	Definition	basic Transportation Management or Advanced Transportation Management	License (Planning & Execution or Charge Management & Settlement)
10 Logistics Business Network	TM Supported Invoice Verification Transactions	List of Transactions from MM-LIV for supporting the over all Invoice process including ERS (Self-Billing) MIRO - Enter Invoice MIR7 - Park Invoice MIR4 - Display Invoice document MR8M - Cancel Invoice Document (Nothing TM specific) MRBR - Release Blocked Invoices MIR5 - Display List of Invoice Documents MIR6 - Invoice Overview MRRL - Evaluated Receipt Settlement (ERS) MR11 - Maintain GR/IR Clearing Account	basic Transportation Management	n/a
10 Logistics Business Network	Milestone Tracking	Web UI Entry for basic Milestones Entry of Events in LBN Integration into S/4HANA TM via Interface TransportationEventBulkNotification	basic Transportation Management	n/a
11 Analytics	Realtime Analytics and reporting – via CDS	Core Data Service related Analytics That includes all related FIORI APPs – Analytical List Pages (ALP) and Overview Pages (OVP)	Advanced Transportation Management	Planning & Execution
11 Analytics	Transportation Management Business Performance Dashboard	The dashboard consists of three different sections, where in the first “Overview” section a high level summary of the transport situation is given. Followed by the “Execution and Block” section where a detailed insight into the current transportation business status is provided. The third and last section covering the “Transported Quantities” is tackling quantity related information, down to a single transport and its individual items.	Advanced Transportation Management	Planning & Execution
11 Analytics	BW/4 for Transportation Management	Five CDS based single extractors for ROOT, ITEM, STAGE, STOP and EXECUTION are available, as well as one combined CDS extractor for ROOT-ITEM. All extractors support the Change-Data-Capture (CDC) delta mechanism. For the ROOT-ITEM extractor is also an according BW/4 standard content available.	Advanced Transportation Management	Planning & Execution
11 Analytics	Analytics and Reporting – BW	BW reporting via ABAP Extractors which work with a Business Warehouse	basic Transportation Management	n/a

Area	Feature in S/4 TM (full)	Definition	basic Transportation Management or Advanced Transportation Management	License (Planning & Execution or Charge Management & Settlement)
12 FAQ Section	Mix of Basic and Advanced License possible?	If one of the TM licenses (either Planning & Execution OR Charge Management & Freight Settlement) is licenced in Advanced Transportation Management, the other TM engine can run with basic Transportation Management	not applicable	n/a
12 FAQ Section	Side by Side Deployment	Any side by side Deployment of S/4HANA TM is in the Advanced Transportation Management engine. Even if in the final stage the SAP S/4HANA System includes ERP and TM embedded in the same database instance	Advanced Transportation Management	Planning & Execution + Charge Management & Settlement