TENtec OMC Glossary ver.2.1

Data Collection Studies Version

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Transport modes   **page**

1. Railways

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
1	Type	Conventional / High speed In case of mixed types, e.g. a high speed is operated next to a conventional line, please use the type being most relevant to long distance travel (minimum 200km). The possibility of creating parallel sections in a transport mode is being developped.	enumeration	Lot 1 / I
2	Activity	Freight / Passenger / Passenger and Freight	enumeration	Lot 1 / I
3	Number of tracks	Total (most relevant figures, e.g. if a single track railway of 10km has 2km stretch of two tracks, the relevant total is one track) A high speed line running in parallel with a conventional line, should be in principle be defined as a separate line.	integer	Lot 1 / I
4	Traction	Electrified / non-electrified	enumeration	Lot 1 / I
5	Track gauge (mm)	1000 / 1435 / 1520 / 1524 / 1600 / 1668 Note: the following systems are TSI compliant: 1435 mm, 1520 mm, 1524 mm, 1600 mm and 1668 mm system. In case of dual gauge, a broader gauge to be indicated under this parameter	enumeration	Lot 1 / I
6	Dual gauge	.- None - interlaced - parallel	enumeration	Lot 1 / I
7	Structure gauge (EN 15273)	3 international gauges defined in EN 15273, UK gauges W9 and above defined in Railway Group Standard GE/RT8073: - GA GAUGE: Total height 3.85 m above the rail and 1.28 m on either side of the track axis - GB GAUGE: Total height 4.08 m above the rail and 1.28 m on either side of the track axis - GC GAUGE: Total height 4.65 m above the rail and 1.45 m on either side of the track axis. - W GAUGES (for UK only) to indicate W9 and above (see reference Railway Group Standard GE/RT8073) - Other (to be noted according to the Standard EN15273 Annex C and D)	enumeration	Lot 1 / I

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
8	Combined transport profile for swap bodies	Coding for combined transport with swap bodies as defined in UIC Code 596-6. The technical number is made up of the wagon compatibility code (1 letter) and the standard combined transport profile number (2 digits when width ≤ 2500 mm or 3 digits when, 2500 < width ≤ 2600 mm). − C 22 − C 32 − C 38 − C 45 − C 50 − C 55 − C 60 − C 65 − C 70 − C 80 − C 90 − C 341 − C 349 − C 351 − C 357 − C 364 − C 380 − C 385 − C 390 − C 395 − C 400 − C 405 − C 410 − C 420 − Other	enumeration	Lot 1 / I

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
9	Combined transport profile for semi-trailers	Coding for combined transport for semi-trailers as defined in UIC Code596-6. The technical number is made up of the wagon compatibility code (1 letter) and the standard combined transport profile number (2 digits when width ≤ 2500 mm or 3 digits when 2500 < width ≤ 2600 mm). − P 32 − P 38 − P 45 − P 50 − P 55 − P 60 − P 65 − P 70 − P 80 − P 90 − P 341 − P 349 − P 351 − P 357 − P 380 − P 385 − P 390 − P 395 − P 400 − P 405 − P 410 − P 420 − Other	enumeration	Lot 1 / I

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
10	Design speed (km/h)	Design Speed of Track relevant for most parts of the section – V<80 – 80<=V<100 – 100<=V<120 – 120<=V<160 – 160<=V<200 – 200<=V<250 – 250<=V<300 – V>=300	enumeration	Lot 1 / I
11	Design speed (km/h) [old parameter, only for reference]	Old parameter for design speed. Please refer to the new parameter with ranges.	double	
12	Max operating speed for passenger trains (km/h)	The highest operating speed allowed for passenger service taking into account technical characteristics of the infrastructure. – No speed limit set – V<80 – 80<=V<100 – 100<=V<120 – 120<=V<160 – 160<=V<200 – 200<=V<250 – 250<=V<300 – V>=300	enumeration	Lot 1 / I
13	Max operating speed for freight trains (km/h)	The highest operating speed allowed for freight services taking into account technical characteristics of the infrastructure, however without additional axle load restrictions. – No speed limit set – V<80 – 80<=V<100 – 100<=V<120 – 120<=V<160	enumeration	Lot 1 / I

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
14	Max inclination ‰	Data must be encoded in ‰: 0 <= G <= 12,5‰ 12,5‰ < G <= 17,5‰ 17,5‰ < G <= 25,0‰ 25,0‰ < G	enumeration	Lot 1 / I
15	Max axle load (tonnes)	m < 16t 16t <= m < 18t 18t <= m < 20t 20t <= m < 22,5t 22,5t <= m < 25t 25t <= m < 27,5t 27,5t <= m < 30t m >= 30t	enumeration	Lot 1 / I
16	Max axle load (kN) [old parameter, only for reference]	Old parameter for max axle load in kN. Please refer to the new parameter in tonnes.	double	
17	Pantograph gauge (mm)	– 1600 mm (Euro-pantograph) – 1950 mm (Type 1) – 1520 mm track gauge and as defined in Appendix D of Regulation 1301/2014 – Other Note: the listed systems are TSI compliant, 'other' systems are not TSI compliant	enumeration	Lot 1 / I
18	Voltage (Volt)	– 25 000 Volts, 50Hz AC – 15 000 Volts, 16 2/3 Hz AC – 3 000 Volts, DC – 1 500 Volts, DC – Other Note: the listed systems are TSI compliant, 'other' systems are not TSI compliant	enumeration	Lot 1 / I

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
19	Maximum train length (m)	− L<200 m − 200<=L<400 m − 400<=L<500 m − 500<=L<600 m − 600<=L<740 m − 740<=L<1050 m − 1050<=L<1500 m − L>=1500 m	enumeration	Lot 1 / I
20	Maximum train length (m) [old parameter, only for reference]	Old parameter for "maximum train length". Please refer to the new parameter with ranges.	double	
21	Average travel time passenger (incl. stops) (hh:mm:ss)	Long distance trains only (minimum 200km), according to time table A complete coverage in data collection is not expected, a fair estimation will be considered sufficient. The Consultant is expected to propose a relevant methodology.	duration	Lot 1 / II
22	Average travel time freight (incl. stops) (hh:mm:ss)	Long distance trains only (minimum 200km) A complete coverage in data collection is not expected, a fair estimation will be considered sufficient. The Consultant is expected to propose a relevant methodology.	duration	Lot 1 / II
23	Passenger traffic flow (pax per year)	Number of passengers joining trains at stations in section A complete coverage in data collection is not expected, a fair estimation will be considered sufficient. The Consultant is expected to propose a relevant methodology.	double	Lot 1 / II
24	Passenger traffic flow (trains per year)	Number of passenger trains using each section A complete coverage in data collection is not expected, a fair estimation will be considered sufficient. The Consultant is expected to propose a relevant methodology.	double	Lot 1 / II
25	Freight traffic flow (trains per year)	Number of freight trains using each section. A complete coverage in data collection is not expected, a fair estimation will be considered sufficient. The Consultant is expected to propose a relevant methodology.	double	Lot 1 / II

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
26	Freight traffic flow (gross tons per year)	Number of tons of freight carried through each section. A complete coverage in data collection is not expected, a fair estimation will be considered sufficient. The Consultant is expected to propose a relevant methodology.	double	Lot 1 / II
27	Congestion	Indication of sections and nodes declared congested – not congested, – congested (definition to be agreed between the Contractor and COM before the second loop starts) – heavily congested (i.e. declared congested in the meaning of Directive 2012/34/EU)	enumeration	Lot 1 / II
28	Clearance or structure gauge	It is not necessary to fill in this parameter if "Track gauge (mm)", "dual gauge" and "Structure gauge (EN 15273)" are already filled-in. Please note that the TENtec parameter "Structure gauge" was called earlier "Load gauge (UIC Type)".	string	
29	ETCS Status	If ETCS in operation, please fill in parameters "ETCS Baseline" and "ETCS Level"!-ETCS in operation-ETCS under construction-No ETCS	enumeration	DMT
30	ETCS baseline	Following options: - preBaseline 2 (with compatibility to SRS version before 2.3.0d) - Baseline 2 (with compatibility to SRS version 2.3.0d) - Baseline 3	enumeration	DMT
31	ETCS Level	Following options: 1 / 2 / 3 – ETCS level 1 is mainly designed as an add-on to or overlays a conventional line already equipped with lineside signals and train detection systems. – ETCS level 2 do not require lineside signals. The movement authority is communicated directly from a Radio Block Centre (RBC) to the onboard unit using GSM-R. – ETCS Level 3 allows for the introduction of a "moving block" technology which does not require lineside signals and train detection systems. Remarks: – In case of multiple ETCS levels installed (e.g. ETCS level 2 with fall-back ETCS level 1), indicate the level in normal operational mode – In case of ETCS L1, please fill in parameter "ETCS Infill"	enumeration	DMT

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
32	ETCS Infill	. - No ETCS L1 infill functionality required (only balises) – Yes – ETCS L1 with Euroloop infill functionality required on-board – Yes – ETCS L1 with Radio infill functionality required on-board – Yes – ETCS L1 with both euroloop and radio infill functionality required on-board	enumeration	
33	Existence and need of Class B-signalling systems	– Yes – required on-board – Yes – optional on-board (as fall-back system) – No Remarks: – If yes, please fill in parameter "Name of Class B-signalling system"; – TENtec does not include separate sections for stations. Therefore if trains are still required to need Class B system to move on a line section equipped with ETCS (due to e.g. station not being equipped with ETCS or line section not completely equipped with ETCS), please indicate 'yes–required on-board' in this parameter.	enumeration	

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
34	Name of Class B-signalling system	1. ALSN; 2. ASFA; 3. ATB First Generation; 4. ATB New Generation; 5. ATP (Ireland); 6. ATP-VR/RHK; 7. BACC; 8. CAWS; 9. Crocodile; 10. DAAT; 11. EBICAB700; 12. EBICAB900; 13. EuroSIGNUM; 14. EuroZUB; 15. EVM; 16. GW ATP; 17. INDUSI; 18. INDUSI/PZB; 19. KCVB; 20. KCVP; 21. KVB; 22. KVBP; 23. LS; 24. LZB; 25. MEMORII+; 26.NEXTEO; 27. PKP with radio stop function; 28. RETB; 29. RSDD/SCMT; 30. SELCAB; 31. SHP; 32. SSC; 33. TBL1; 34. TBL1+; 35. TBL2; 36. TPWS; 37. TVM300; 38. TVM430; 39. ZUB123; 40. Other Preselected list from: http://www.era.europa.eu/Document-Register/Pages/List-of-Class-B-systems.aspx: Remarks: – In case of selection of 'Other', indicate the name in the comment field. – In case of multiple Class B-systems installed, indicate the Class B-system in the normal operational mode	enumeration	

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
35	GSM-R status	– GSM-R in operation – GSM-R under construction – No GSM-R Remark: GSM-R : Global System for Mobile Communications - Railway	enumeration	DMT
36	Existence and need of roaming to public GSM-network	– Yes –required on-board (as normal communication mode) – Yes – optional on-board for some operators (as fall-back communication mode) – No	enumeration	
37	Existence and need of other Class B-radio system	– Yes- required on-board – Yes-optional on-board (as fall-back system) – No If yes, please fill in parameter "Name of Class B-radio system"	enumeration	
38	Name of Class B-radio system	1. UIC Radio Chapter 1-4; 2. UIC Radio Chapter 1-4+6; 3. UIC Radio Chapter 1- 4 + (Irish system); 4. UIC Radio Chapter 1-4+6+7; 5. BR 1845; 6. BR 1609; 7. FS ETACS and GSM; 8. UIC Radio Chapter 1-4 (TTT radio system installed at Cascais line); 9. TTT radio system CP_N; 10. PKP radio system; 11. VR trainr; 12. TRS — The Czech Railways radio system; 13. LDZ radio system; 14. CH-Greek Railways radio system; 15. UIC Radio Chapter Bulgaria; 16. The Estonian radio system; 17. The Lithuanian radio system; 18. Other Preselected list from decision 2006/679/EC - Annex B – Part 2. http://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=OJ:L:2006:284:FULL&from=EN: Remark: In case of selection of 'Other', indicate the name in the 'Coment' field.	enumeration	
39	Theoretical Capacity (trains per year)	At the moment no proper definition available. The parameter will be kept, no data collection foreseen for time being. In future shall be filled in based on assessment of Infrastructure Managers	double	

2. Roads

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
1	Type	- 1=motorways, - 5=Rural road with separate directions (Roads outside the boundaries of a built-up area), - 6=Rural two-lane road (Roads outside the boundaries of a built-up area), - 9=Urban roads (Road within the boundaries of a built-up area), - 90=ferries	enumeration	Lot 1 / I
2	Lanes forward	Number of traffic lanes in forward direction	integer	Lot 1 / I
3	Lanes backward	Number of traffic lanes in backward direction	integer	Lot 1 / I
4	Design speed (km/h)	If not available, use prevailing speed limit.	double	Lot 1 / I
5	Long. Gradient (%)	Defined by the maximum gradient found in the section.	double	
6	Max permitted weight for vehicles (tons)	Minimum of maximum permitted weight on parts of the section (e.g. existing bridge)	double	
7	Max axle load (kN)	Minimum of maximum permitted weight on parts of the section (e.g. existing bridge)	double	
8	Total Hour Capacity Forward (Cars per hour per lane)	Lane hour capacity forward direction - Use minimum in case of different capacities on different parts of the section. Passenger car (Road motor vehicle, other than a moped or a motor cycle, intended for the carriage of passengers and designed to seat no more than nine persons, including the driver)	double	
9	Total Hour Capacity Backward (Cars per hour per lane)	Lane hour capacity backward direction - Use minimum in case of different capacities on different parts of the section. Passenger car (Road motor vehicle, other than a moped or a motor cycle, intended for the carriage of passengers and designed to seat no more than nine persons, including the driver)	double	
10	Freight traffic flow (tons per year)	If just estimates available, please use the upcoming comment-field for explanation.	double	
11	Freight traffic flow (trucks per year)	If just estimates available, please use the upcoming comment-field for explanation.	double	
12	Percentage of heavy goods vehicles (%)	Percentage of heavy goods vehicles (%)	double	
13	Passenger traffic flow (pax per year)	If traffic flow is only known for one direction, multiply with 2.	integer	
14	Passenger traffic flow	If traffic flow is only known for one direction, multiply with 2.	double	

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
	(cars per year)	Passenger car (Road motor vehicle, other than a moped or a motor cycle, intended for the carriage of passengers and designed to seat no more than nine persons, including the driver)		
15	Number of fatal accident	Number of fatal accident	integer	
16	Part of a tolled road	YES /NO	boolean	
17	Road toll for cars(euro per km)	Euro per km Passenger car (Road motor vehicle, other than a moped or a motor cycle, intended for the carriage of passengers and designed to seat no more than nine persons, including the driver)	double	
18	Road toll for trucks(euro per km)	Euro per km; Regardless of weight and distance	double	
19	Intelligent Transport Systems	YES / NO	boolean	
20	Average travel time (Passengers cars)(hh:mm:ss)	Passenger cars (Road motor vehicle, other than a moped or a motor cycle, intended for the carriage of passengers and designed to seat no more than nine persons, including the driver)	duration	
21	Average travel time (Trucks and busses)(hh:mm:ss)	Trucks and busses	duration	
22	Ferry Frequency	Ferries per day (-1 for non-ferry links)(direct ferry link=continuation of TEN-T link)	integer	
23	Part of a user-charged road	YES /NO	boolean	
24	Road user-charge for cars	Euro per 24hours Passenger car (Road motor vehicle, other than a moped or a motor cycle, intended for the carriage of passengers and designed to seat no more than nine persons, including the driver)	double	
25	Road user-charge for trucks	Euro per 24hours ; Truck relevant for long distance transport (minimum 200km)	double	
26	Lanes	Total number of traffic lanes	double	
27	Road toll for all trucks	Euro per km; Regardless of weight and distance.	double	
28	Road toll for all busses	Euro per km; Regardless of weight and distance.	double	

3. Airports

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
1	Type	International / Domestic	enumeration	
2	Activity	Freight / Passenger / Passenger and Freight	enumeration	
3	Capacity (planes per day)	If "planes per hour" were used, please indicate it in the upcoming comment-field.	integer	
4	Number of runways	Number of runways	integer	
5	Length of the longest runways (m)	Length of the longest runways (m)	double	
6	Connection with rail	YES - integrated into long distance rail network - rail shuttle NO - other local public shuttle (such as METRO)	boolean	Lot 1 / I
7	Commercial aircraft movements (1000 movements)	Per year	double	
8	Max frequency (movements per hour)	Max frequency (movements per hour)	double	
9	Passenger capacity (persons)	Per year	double	
10	Passenger traffic flow (pax per year)	Passenger traffic flow (pax per year)	double	
11	Tonnes transhipped (thousand tonnes)	Tonnes transhipped (thousand tonnes)	double	
12	Freight capacity (t/year)	Freight capacity (t/year)	double	
13	Freight traffic flow (tons per year)	Freight traffic flow (tons per year)	double	

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
14	Max size of aircraft	ICAO Code: Airplane Wingspan; Outer Main Gear Wheel Span Code A -- <15 m (49.2 ft); <4.5 m (14.8 ft) Code B -- 15 m (49.2 ft) -- <24 m (78.7 ft); 4.5 m (14.8 ft) -- <6 m (19.7 ft) Code C -- 24 m (78.7 ft) -- <36 m (118.1 ft); 6 m (19.7 ft) -- <9 m (29.5 ft) Code D -- 36 m (118.1 ft) -- <52 m (170.6 ft); 9 m (29.5 ft) -- <14 m (45.9 ft) Code E -- 52 m (170.6 ft) -- <65 m (213.3 ft); 9 m (29.5 ft) -- <14 m (45.9 ft) Code F -- 65 m (213.3 ft) -- <80 m (262.5 ft); 14 m (45.9 ft) -- <16 m (52.5 ft)	enumeration	
15	Intelligent Transport Systems(ATM, SESAR)	European air traffic management network' (EATMN 1. Systems and procedures for airspace management. 2. Systems and procedures for air traffic flow management. 3. Systems and procedures for air traffic services, in particular flight data processing systems, surveillance data processing systems and human-machine interface systems. 4. Communications systems and procedures for ground-to-ground, air-to-ground and air-to-air communications. 5. Navigation systems and procedures. 6. Surveillance systems and procedures. 7. Systems and procedures for aeronautical information services. 8. Systems and procedures for the use of meteorological information. 9. Others	enumeration	

4. Inland Waterways

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
		Network Links		
1	NodeA	Flow direction (water current) from NodeA to NodeB which represent the downstream direction. For a canal this sequence will follow the distance marks defined by the waterway authority.	string	Lot 2 / I
2	NodeB	Flow direction (water current) from NodeA to NodeB which represent the downstream direction. For a canal this sequence will follow the distance marks defined by the waterway authority.	string	Lot 2 / I
1'	Water flow direction	"Yes" - for the sections where the direction of the section in GIS layer corresponds to the water flow "No" -for the sections where the direction of the section in GIS layer does not correspond to the water flow For a canal this sequence will follow the distance marks defined by the waterway authority.	boolean	Lot 2 / I
3	Active	Whether stretch is open/operational. Allows inclusion of planned infrastructure within the network.	boolean	Lot 2 / I
4	Active From	Date at which network link was available.	date	Lot 2 / I
5	Active To	Date at which network link ceased to be available.	date	Lot 2 / I
6	Waterway name	Identifier for river or canal (Suggest to use the RIS-Index WWNAME)	string	Lot 2 / I
7	Fairway Section Code	RIS Index Fairway section Code assigned by the national authorities. It represents the coding of a waterway section within a national network and is only unique in combination with the country code. Cross references to RIS implementation tables. e.g. DE-00700 for the Elbe River in Germany	string	Lot 2 / I
8	Waterway type	river, canal, lake	enumeration	Lot 2 / I
9	CEMT class	Categories of navigable inland waterways : Class (length/beam) I to III, IV, V a, V b, VI a, VI b, VI c, VII	enumeration	Lot 2 / I
10	Zone	I, II, III, IV, R (Directive 2006/87/EC)	enumeration	Lot 2 / I
11	Local Knowledge Requirements	Whether local knowledge requirements (LKR) are applicable on this stretch, normally due to difficult nautical conditions. Refer to: http://www.unece.org/fileadmin/DAM/trans/doc/2010/sc3wp3/ECE-TRANS-SC3-2010-12e.pdf http://www.unece.org/fileadmin/DAM/trans/doc/2014/sc3wp3/ECE-TRANS-SC3-2010-12-c1e.pdf	boolean	Lot 2 / I
12	Maximal length of vessel/convoy	Maximum allowed vessel/convoy size in length Please encode "999" for no limit.	double	Lot 2 / I
13	Maximal width of vessel/convoy	Maximum allowed vessel/convoy size in width Please encode "999" for no limit.	double	Lot 2 / I

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
14	Maximal draught of vessel/convoy	Maximum allowed vessel/convoy size in draught. (For free flowing river this is not a fixed value.)	double	Lot 2 / I
15	Fairway width	Minimum width of the waterway of the section.	double	Lot 2 / I
16	Fairway depth	Minimum depth of the waterway of the section.	double	Lot 2 / I
17	Water level	Variable value for the free flowing rivers such as the Rhine, Elbe and Danube. Water level is equal to the fairway depth in case of regulated river, canal or lake. For free flowing rivers, usage of the fairway depth at GLW (Gleichwertiger Wasserstand, Rhine) or RNW (Regulated Niedrigwasserstand, Danube) is suggested.	double	Lot 2 / I
18	Maximum sailing speed	Maximum allowed vessel/convoy speed. No regulations apply for the Rhine. In case of differentiated speed per draught, the speed of the maximum allowed vessel type will be filled in. Please encode "999" for no speed regulation.	double	Lot 2 / I
19	Access charge	Whether distance based access charges are applied on this section, (e.g. per km or per ton-km)	boolean	Lot 2 / I
20	Presence of a maintenance plan	Whether a maintenance plan exists covering the section.	boolean	Lot 2 / I
21	Presence of a maintenance plan - dates: Dates from / to	The dates for which the maintenance plan applies.	string	Lot 2 / I
22	Number of days below agreed low water level	The number of days per year at which the water level is below GLW or RNW for free flowing river sections. For other fairway categories, this is not applicable. GLW and RNW refer to reference water levels that guarantee a certain fairway depth. For the Danube river, this equals 2.50 metres everywhere. For the Rhine, it differs from section to section: 2.80 up to Duisburg, 2.50 for Duisburg – Koblenz, 1.90 for Koblenz – Mainz, 2.10 for Mainz – Iffezheim.	integer	Lot 2 / I
23	Number of days below regulation 1315/2013 draught	The number of days per year at which fairway depth is below 2.8 meters, thus not allowing vessel draughts deeper than 2.5 meters (including a safety margin of 30 centimeters).	integer	Lot 2 / I
24	Number of days above agreed high water level	Number of days above agreed high water level per year.	integer	Lot 2 / I
25	Announced waterway obstructions (planned non-availability)	Number of days per year where navigation is not possible due to planned events.	integer	Lot 2 / I

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
26	Unannounced waterway obstructions (unplanned non-availability)	Number of days per year where navigation is not possible due to unplanned obstructions.	integer	Lot 2 / I
27	Unavailability due to ice	Number of days per year where navigation is not possible due to ice.	integer	Lot 2 / I
28	Navigation reliability (%)	Percentage based on the number of days per year, on which the waterway is available for navigation and meets the minimum requirements for draught, for height under bridges for three-layer container transport and for beam of the respective CEMT class. For waterways of class IV and higher, the requirements of pushed convoys apply. For class I-III, the requirements of vessels and barges apply.	double	Lot 2 / I
29	Hydrological services	Presence of services such as water-level gauges and water level prognosis.	boolean	Lot 2 / I
30	Ship passages both direction	Total number of commercial ship passages (both directions)	integer	Lot 2 / I
31	Ship passages downstream	Number of commercial ship passages from NodeA to NodeB	integer	Lot 2 / I
32	Ship passages upstream	Number of commercial ship passages from NodeB to NodeA	integer	Lot 2 / I
33	Freight traffic flow (tons per year)	Tonnes transported on a section, per year.	double	Lot 2 / I
34	Intelligent Transport Systems (RIS)	In operation, Yes/No	boolean	Lot 2 / I
Locks				
1	Service times	Opening hours (in off-season period) per week.	double	Lot 2 / I
2	Vessel Traffic	Number of Vessels Through the Lock System per year.	integer	Lot 2 / I
3	Full Year Lock Operation?	Will the lock be used at all water levels?	boolean	Lot 2 / I
Lock Chamber				
1	Chamber Configuration	Dropdown List: Single, Double, Three or more	enumeration	Lot 2 / I
2	Chamber lock width	Width (metres) inside chamber	double	Lot 2 / I

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
3	Chamber lock length	Length (metres) inside chamber	double	Lot 2 / I
4	Chamber lock depth	Depth of water at lock (metres) entrance/exit	double	Lot 2 / I
5	Chamber lock height	Air-draft Restriction (metres) if applicable.	double	Lot 2 / I
6	Width of lock bay	Minimum Width (metres) of Lock Gates (at entrance or exit)	double	Lot 2 / I
7	Average operation time	Length of time in minutes to operate one lock cycle.	duration	Lot 2 / I
Bridges				
1	Movable bridge	Whether bridge is moveable (to allow ships to pass)	boolean	Lot 2 / I
2	Full span of fairway	Does bridge cover the full span of the fairway?	boolean	Lot 2 / I
3	Passage height limit (meters)	Height limit (metres) above normal water level for fixed bridges, closed moveable bridges, or other overhead structures.	double	Lot 2 / I
4	Movable bridge passage height (raised/open)	Height limit (metres) above normal water level, for moveable bridge when raised/open. Please encode "999" for no height limit. To be encoded only for all movable bridges.	double	Lot 2 / I
5	Passage width limit.	Width limit (metres) through bridge or equivalent overhead structures.	double	Lot 2 / I
6	Movable bridge service times	Number of hours that movable bridge service is available per week.	double	Lot 2 / I
Port Terminals				
1	Activity	Dropdown: Containers Only, Conventional Only, Mixed.	enumeration	Lot 2 / II
2	Public Availability	Whether terminal is publicly available. To be *not publicly available* means that the terminal is a dedicated private facility e.g. at a steelworks.	boolean	Lot 2 / II
3	Handling Charges (Euros/TEU)	Terminal Charges Applied per Container TEU	double	Lot 2 / II
4	Connection with rail	Dropdown: No, Yes-Inactive, Yes-Active-Direct-Ship-to-Train, Yes-Active-Other. Whether rail connection exists at terminal, whether it is being used, and whether trains can be loaded at the quay alongside IWT vessels.	enumeration	Lot 2 / II
5	Shore Side Electricity	Whether shore side electricity is provided for IWT vessels	boolean	Lot 2 / II
6	Cargo handling capacity in tonnes per annum.	Dropdown: < 0,5m, 0,5-3m Tonnes, 3-10m Tonnes, >10m Tonnes. (Definitions agreeing with Blue Book Source)	enumeration	Lot 2 / II

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
7	Total Quay Length (metres)	Total quay length in metres.	double	Lot 2 / II
8	Storage capacity in m2	Capacity of terminal area in square metres.	double	Lot 2 / II
9	Storage capacity in TEU	Capacity of terminal area for storing containers (TEU)	double	Lot 2 / II
10	Terminal service time	Hours open per week.	double	Lot 2 / II
Mooring places				
1	Mooring places capacity in nr of vessels	Capacity – number of vessel spaces.	integer	Lot 2 / II
2	Mooring places capacity in m2	Capacity – area in square metres.	double	Lot 2 / II
3	Mooring place available for vessels with dangerous goods	Whether vessels carrying dangerous goods can use mooring places.	boolean	Lot 2 / II
Refuelling Point for Alternative Fuels				
1	Type of Refuelling Point	Terminal, Tank, Mobile Container, Bunker Vessel/barge, Other	enumeration	Lot 2 / II
2	Type of Alternative Fuel	Electricity, Hydrogen, Biofuels, Natural gas (CNG and or LNG), LPG, Other	enumeration	Lot 2 / II

5. Ports

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
		Ports		
1	Port UN\LO Code	ISO Country code and UN Location Identifier. (XX XXX)	string	Lot 2 / II
2	Port Activity	DROPDOWN: Freight/ Passenger/ Passenger & Freight	enumeration	Lot 2 / II MoS / I
3	Number of Terminals (no)	Number of terminals within inland port	integer	Lot 2 / II
4	Total Quay Length (metres)	Total quay length in metres.	double	Lot 2 / II
5	Throughput Capacity in nr of TEU	Annual throughput capacity for containers (TEU per year) if applicable.	double	Lot 2 / II
6	Bunkering facilities	Does port offer bunkering facilities?	boolean	Lot 2 / II
7	Alternative Fuels	Does port offer alternative fuels? (Reference: Directive 2014/94/EU)	boolean	Lot 2 / II
8	Waste reception facilities	Does port offer waste reception facilities?	boolean	Lot 2 / II
9	Ice breaking equipment	Does port require ice breaking facilities?	boolean	Lot 2 / II
10	Dredging equipment	Does port have dredging equipment?	boolean	Lot 2 / II
11	Type of Port	Maritime (default) / Inland Waterways / Maritime and Inland Waterways	enumeration	MoS / I
12	Area (km2)	All land- and water-area which belongs to the port.	double	
13	Maximum draught (m)-natural or dredged	Maximum draught of ship which may enter the port	double	MoS / I
14	Port terminals (ha)	Port terminals (ha)	double	MoS / II
15	Combined terminals (no. of rail tracks)	Combined terminals (no. of rail tracks)	integer	MoS / I
16	Combined terminals (ha)	Combined terminals (ha)	double	MoS / II

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
17	Passenger or cruise terminal (passenger)	Passenger or cruise terminal (pass)	integer	MoS / II
18	No. of passengers (per year)	No. of passengers (per year)	integer	MoS / II
19	Passenger Traffic Flow (pax per year)	Passenger Traffic Flow (pax per year)	integer	MoS / II
20	Freight Traffic Flow (tons per year)	Freight Traffic Flow (tons per year)	double	MoS / I
21	Freight capacity (tons per year)	Freight capacity (tons per year)	double	MoS / II
22	Port traffic (no. of vessels per year)	Port traffic (no. of vessels per year)	integer	MoS / I
23	Connection with rail	YES / NO	boolean	MoS / I
24	Rail connection (no. of tracks)	Number of tracks connecting the port to the hinterland network.	integer	MoS / I
25	Rail connection (tons/year)	Capacity of the rail connection (tons/year)	double	MoS / I
26	Transhipment facilities for intermodal transport	YES / NO	boolean	MoS / I
27	Road connection (no. of lanes)	Total no. of lanes (sum of forward-/backward lanes), connecting the port to the hinterland network.	integer	MoS / I
28	Road connection (tons/year)	Capacity of the road connection (tons/year)	double	MoS / I
29	Waterway connection (CEMT class)	All classes; only Inland Waterways are meant, because a port can be connected to any other port in principle	string	MoS / I
30	Intelligent Transport System(VTMIS)	In operation YES / NO	boolean	MoS / II

6. Rail Road Terminals

No.	TENtec Technical Parameter Name	Definition	Data type	Exercise
1	Area (km2)	All land- and water-area which belongs to the platform.	double	
2	Freight traffic flow (tons per year)	Freight traffic flow (tons per year)	double	
3	Freight capacity (tons per year)	Freight capacity (tons per year)	double	
4	Rail connection (no. of tracks)	Number of tracks connecting the port to the hinterland network.	double	
5	Road connection (no. of lanes)	Total no. of lanes (sum of forward-/backward lanes), connecting the port to the hinterland network.	double	
6	Intelligent Transport Systems (ERTMS)	In operation YES / NO.	boolean	
7	Intelligent Transport Systems (Road-ITS)	In operation YES / NO.	boolean	