

51 Risk assessment report for the System Architecture Traffic CS - Annex A Traceability Report



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Preamble

This Risk Assessment Report is a summary of the most important results of the Risk Analysis performed in Factory Belt Station 8b.

Every physical function is listed with its functional output exchanges to external actors. In the "column "Risk", the identified risks related to the exchange are listed. The work item "Risk" contains one row of the FMEA. The title of the risk is formulated so that the analysed Failure Mode, exchange and external actor is clear.

For each risk, the following information is listed in the following columns:

- Identified hazards: All hazards that were identified during the FMEA are listed. If the FMEA results in the Failure Mode not leading to a hazard, the item "no safety hazard" is shown in the column.
- Constraint: The constraints describe the mitigation measures to mitigate the risk. If the risk does not contain a hazard, then there are no constraints defined.
- Constraint allocation: The allocation of the mitigation measure, i.e. which physical function is constraint by the defined constraint, is contained here.









Please note: Some exchanges were not in scope of the analysed capabilities, and they are empty.

Instruction to use the report:

- One or multiple physical functions can be selected at the top.
- The completeness state of the safety analysis can be verified.
- The coherence of the tracing for the constraints can be verified.
































Traceability Report






























Function:



























System Function (Level 5)	Functional Output Exchange	Risk	Hazard	Constraint	Constraint Allocation
 SPMS-4870 - Root Physical Function	No output exchanges found				
 SPMS-4871 - Aggregate movable object information	 SPMS-6328 - Aggregated track occupancy and train status information	No risk items found			
	 SPMS-6329 - Aggregated track occupancy and train status information	No risk items found			
	 SPMS-6332 - Aggregated track occupancy and train status information	No risk items found			
	 SPMS-6334 - Aggregated track occupancy and train status information	 SPRM-2243 -	<ul style="list-style-type: none"> SPRM-2500 - Faulty reasoning by Signaller	{c} SPRM-2304 - Integrity of signaller panel	





























				{c} SPRM-2501 - Integrity of train_object exchange item
				{c} SPRM-2502 - Integrity of SCI_CMD interface
	⚠️ SPRM-2244 -		• ⚡️ SPRM-2500 - Faulty reasoning by Signaller	{c} SPRM-2304 - Integrity of signaller panel
				{c} SPRM-2501 - Integrity of train_object exchange item
				{c} SPRM-2502 - Integrity of SCI_CMD interface
	⚠️ SPRM-2245 -		• ⚡️ SPRM-2500 - Faulty reasoning by Signaller	{c} SPRM-2304 - Integrity of signaller panel
				{c} SPRM-2501 - Integrity of train_object exchange item
				{c} SPRM-2502 - Integrity of SCI_CMD interface
	📡 SPMS-6327 - Aggregated track occupancy and train status information	No risk items found		
	📡 SPMS-7215 - Aggregated track occupancy and train status information	No risk items found		
🟢 SF	SPMS-4872 - Control automatic driving speed of one train	No output exchanges found		
🟢 SF	SPMS-4873 - Calculate safe speed profiles	📡 SPMS-6434 - Responded train-specific authorisation	No risk items found	
🟢 SF	SPMS-4874 - Determine state and position of one train	📡 SPMS-6412 - Observed state and position of one train	No risk items found	
🟢 SF	SPMS-4875 - Calculate operational traffic plan	📡 SPMS-6348 - Calculated operational traffic plan	No risk items found	
		📡 SPMS-6347 - Calculated operational traffic plan	No risk items found	
		📡 SPMS-6349 - Calculated operational traffic plan	No risk items found	
🟢 SF	SPMS-4877 - Control execution of switchable trackside asset request	📡 SPMS-6422 - Requested point position	⚠️ SPRM-1684 - Incorrect requested point position to ETPS	• ⚡️ SPRM-516 - No safety hazard
				No constraint items found


<div>5F</div> SPMS-4878 - Control execution of movement permission request	<div>SPMS-6421 - Requested movement permisison</div>	<div>SPRM-1685 - Late requested point position to ETPS</div>	<div>SPRM-516 - No safety hazard</div>	No constraint items found
		<div>SPRM-1683 - Early requested point position to ETPS</div>	<div>SPRM-516 - No safety hazard</div>	No constraint items found
		<div>SPRM-1394 - Early movement permission request to ETPS</div>	<div>SPRM-516 - No safety hazard</div>	No constraint items found
		<div>SPRM-1395 - Late movement permission request to ETPS</div>	<div>SPRM-516 - No safety hazard</div>	No constraint items found
		<div>SPRM-1396 - Incorrect movement permission request to ETPS</div>	<div>SPRM-516 - No safety hazard</div>	No constraint items found
		<div>SPRM-2233 - Late shortening request to ETPS</div>	<div>SPRM-516 - No safety hazard</div>	No constraint items found
<div>5F</div> SPMS-4879 - Generate journey profile for one train unit	<div>SPMS-6392 - Generated journey profile</div> <div>SPMS-7735 - Generated journey profile</div> <div>SPMS-7865 - Generated journey profile</div> <div>SPMS-7866 - Generated journey profile</div>	No risk items found		
		No risk items found		
		No risk items found		
		No risk items found		
		No risk items found		
		No risk items found		
<div>5F</div> SPMS-4880 - Observe execution state of one operational plan	No output exchanges found			
<div>5F</div> SPMS-4881 - Determine automatic train operation states	<div>SPMS-6401 - Observed execution state of one operational plan from automatic train opoeration</div>	No risk items found		
	<div>SPMS-7253 - Acknowledged ATO status report</div>	No risk items found		
<div>5F</div> SPMS-4883 - Authorise movement permissions	<div>SPMS-6441 - Authorised movement permission</div>	<div>SPRM-2018 - Incorrect shortened movement permission response to PES</div>	<div>SPRM-516 - No safety hazard</div>	No constraint items found
		<div>SPRM-2017 - Early shortened movement permission response to PES</div>	<div>SPRM-516 - No safety hazard</div>	No constraint items found
		<div>SPRM-2019 - Late shortened movement permission response to PES</div>	<div>SPRM-516 - No safety hazard</div>	No constraint items found

 SPMS-6339 - Authorised movement permission	No risk items found		
 SPMS-6604 - Authorised movement permission	No risk items found		
 SPMS-6393 - Authorised movement permission	 SPRM-1073 - Early shorten movement permission request to Train CS	<ul style="list-style-type: none"> SPRM-516 - No safety hazard	No constraint items found
	 SPRM-1075 - Incorrect shorten movement permission request to Train CS	<ul style="list-style-type: none"> SPRM-297 - [B.3.1.3] Wrong side signalling (infrastructure) failure	<div><div> SPRM-1563 - Authorised speed is less or equal to the maximum allowed track speed</div><div> SPMS-4883 - Authorise movement permissions</div></div>
			<div><div> SPRM-1512 - Train moves within Movement Authority</div></div>
	 SPRM-1074 - Late shorten movement permission request to Train CS	<ul style="list-style-type: none"> SPRM-516 - No safety hazard	No constraint items found
	 SPRM-1370 - Incorrect movement authority to Train CS	<ul style="list-style-type: none"> SPRM-297 - [B.3.1.3] Wrong side signalling (infrastructure) failure	<div><div> SPRM-1563 - Authorised speed is less or equal to the maximum allowed track speed</div><div> SPMS-4883 - Authorise movement permissions</div></div>
	 SPRM-1374 - Incorrect movement authority to Train CS	<ul style="list-style-type: none"> SPRM-297 - [B.3.1.3] Wrong side signalling (infrastructure) failure	<div><div> SPRM-1776 - Maximum authorised distance is within Movement Permission</div><div> SPMS-4883 - Authorise movement permissions</div></div>
			<div><div> SPRM-1447 - Maximum authorised distance ends ahead of occupied track</div><div> SPMS-4883 - Authorise movement permissions</div></div>
	 SPRM-1428 - Incorrect shorten movement permission request to Train CS	<ul style="list-style-type: none"> SPRM-516 - No safety hazard	No constraint items found
	 SPRM-1369 - Early movement authority to Train CS	<ul style="list-style-type: none"> SPRM-516 - No safety hazard	No constraint items found
	 SPRM-1371 - Late movement authority to Train CS	<ul style="list-style-type: none"> SPRM-516 - No safety hazard	No constraint items found
 SPMS-4884 - Paused Control+Actuate specific level crossing protection facility state	No output exchanges found		
 SPMS-4885 - Determine required position of one point machine	 SPMS-6427 - Required point machine position	No risk items found	

 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility	 SPMS-6428 - Paused Required protection facility state	No risk items found
 SPMS-4887 - Paused Observe level crossing status	 SPMS-6404 - Observed level crossing status	No risk items found
 SPMS-4888 - Observe point status	 SPMS-6410 - Observed point status	No risk items found
	 SPMS-6440 - observed point status	No risk items found
	 SPMS-6411 - Observed point status	No risk items found
	 SPMS-6409 - Observed point status	No risk items found
 SPMS-4889 - Exert force on point rails	No output exchanges found	
 SPMS-4890 - To be deleted Generate authorisation for movement of one train	No output exchanges found	
 SPMS-4891 - Has physical behaviour moves+lies+is locked	 SPMS-6324 - Actual physical point machine position	No risk items found
 SPMS-4892 - Has wheel position and direction in relation to track coordinates	 SPMS-6325 - Actual wheel passing	No risk items found
 SPMS-4893 - Indicate user interface data	No output exchanges found	
 SPMS-4894 - Indicate start of mission data	 SPMS-7868 - Indicated start of mission data	No risk items found
 SPMS-4895 - Indicate information to support driving	 SPMS-7871 - Indicated supporting information	No risk items found
	 SPMS-7870 - Indicated supporting information	No risk items found
	 SPMS-7869 - Indicated supporting information	No risk items found
 SPMS-4896 - Indicate speed and supervision information of one train	 SPMS-7860 - Calculated supervision limits	No risk items found
	 SPMS-7858 - Calculated supervision limits	No risk items found
 SPMS-4897 - Synchronise time	No output exchanges found	
 SPMS-4899 - Paused Observe level crossing protection facility state	No output exchanges found	
 SPMS-4900 - Sense+Observe point position	 SPMS-6384 - Observed point position	No risk items found
	 SPMS-6385 - Observed point position	No risk items found


	 SPMS-6408 - Observed point position	No risk items found			
 SPMS-4901 - Sense+Observe track vacancy proving section state	 SPMS-6398 - Observed track vacancy proving section state	No risk items found			
 SPMS-4903 - Authorise target position of point	 SPMS-6357 - Commanded point position state	 SPRM-1069 - Early required point position to Trackside Assets CS	<ul style="list-style-type: none"> SPRM-299 - Undue movement of a point while train is approaching SPRM-1726 - [XYZ] Undue movement of a point	<div><div>{c} SPRM-1775 - Point is reserved for one movement permission</div><div>{c} SPRM-1699 - Point is free of occupancy</div></div>	<ul style="list-style-type: none"> SPMS-4903 - Authorise target position of point SPMS-4903 - Authorise target position of point
		 SPRM-1071 - Incorrect required point position to Trackside Assets CS	<ul style="list-style-type: none"> SPRM-312 - [B.3.0] Other failures of the infrastructure	<div><div>{c} SPRM-1729 - Point position is equal to required point position</div></div>	<ul style="list-style-type: none"> SPMS-4885 - Determine required position of one point machine
		 SPRM-1734 - Late required point position to Trackside Assets CS (2/2)	<ul style="list-style-type: none"> SPRM-312 - [B.3.0] Other failures of the infrastructure	<div><div>{c} SPRM-1729 - Point position is equal to required point position</div></div>	<ul style="list-style-type: none"> SPMS-4885 - Determine required position of one point machine
		 SPRM-1070 - Late required point position to Trackside Assets CS (1/2)	<ul style="list-style-type: none"> SPRM-299 - Undue movement of a point while train is approaching SPRM-1726 - [XYZ] Undue movement of a point	<div><div>{c} SPRM-1775 - Point is reserved for one movement permission</div></div>	<ul style="list-style-type: none"> SPMS-4903 - Authorise target position of point
				<div><div>{c} SPRM-1730 - Point position command is sent after performing the safety checks</div></div>	<ul style="list-style-type: none"> SPMS-4903 - Authorise target position of point
				<div><div>{c} SPRM-1699 - Point is free of occupancy</div><div>{c} SPRM-2281 - Point position command is executed within a defined time</div></div>	<ul style="list-style-type: none"> SPMS-4903 - Authorise target position of point
	 SPMS-6430 - Response to point position request	No risk items found			
 SPMS-4904 - Paused Authorise target state of level crossing	No output exchanges found				
 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-6383 - Paused Observed level crossing protection facility state	No risk items found			
		No risk items found			

	 SPMS-6389 - Paused Observed protection state			
 SPMS-4908 - Supervise state of the railway	 SPMS-6417 - Requested input for movement permission	No risk items found		
	 SPMS-6418 - Requested input for trackside assets	No risk items found		
	 SPMS-6594 - Register Input	No risk items found		
 SPMS-4909 - Determine status of automatic train operation onboard	 SPMS-6402 - Provided ATO status report	No risk items found		
 SPMS-4910 - Indicate track section state	 SPMS-6396 - Indicated track section state	 SPRM-1053 - Early indication of Authorised distance and speed restriction to Signaller	•  SPRM-516 - No safety hazard	No constraint items found
		 SPRM-1054 - Late indication of Authorised distance and speed restriction to Signaller	•  SPRM-516 - No safety hazard	No constraint items found
		 SPRM-1055 - Incorrect indication of Authorised distance and speed restriction to Signaller	•  SPRM-516 - No safety hazard	No constraint items found
 SPMS-4911 - Register trackside asset input request	No output exchanges found			
 SPMS-4912 - Paused Indicate level crossing status	No output exchanges found			
 SPMS-4913 - Indicate point status	 SPMS-6395 - Indicated point status	No risk items found		
 SPMS-4914 - Request+Store segment profile on-board	 SPMS-6423 - Requested segment profile	No risk items found		
 SPMS-4915 - Generate segment profile for one train	 SPMS-6359 - Defined segment profile	No risk items found		
	 SPMS-7733 - Defined segment profile	No risk items found		
	 SPMS-7734 - Defined segment profile	No risk items found		
	 SPMS-7863 - Defined segment profile	No risk items found		
	 SPMS-7862 - Defined segment profile	No risk items found		
 SPMS-4916 - Request segment profile (Assumption)	No output exchanges found			
 SPMS-4917 - Request+Store journey profile	 SPMS-6419 - Requested journey profile	No risk items found		
	No output exchanges found			


 SPMS-4920 - Maintain European Trackside Protection System configuration data

 SPMS-4922 - Maintain Plan Execution System configuration data


No output exchanges found

 SPMS-5117 - Duplicate instance of function authorise track path allocation for one movement permission


No output exchanges found

 SPMS-5118 - Maintain train attributes (Duplicate with configuration data function)

No output exchanges found

 SPMS-5151 - Maintain train attributes (Duplicate with configuration data function)

No output exchanges found

 SPMS-5190 - Register movement permission input request


No output exchanges found

 SPMS-5355 - Report operating state


No output exchanges found


 SPMS-5371 - Control execution of level crossing state request













No output exchanges found

 SPMS-5502 - Control relative traction and braking effort manually
























No output exchanges found


 SPMS-5723 - Control usage restriction area request

























 SPMS-6424 - Requested usage restriction







 SPRM-2228 -	<ul style="list-style-type: none"> SPRM-516 - No safety hazard	No constraint items found
 SPRM-2230 -	<ul style="list-style-type: none"> SPRM-516 - No safety hazard	No constraint items found
 SPRM-2234 -	<ul style="list-style-type: none"> SPRM-519 - [xy] Field Force on track without trackside protection	No constraint items found
 SPRM-2239 -	<ul style="list-style-type: none"> SPRM-516 - No safety hazard	No constraint items found
 SPRM-2229 -	<ul style="list-style-type: none"> SPRM-519 - [xy] Field Force on track without trackside protection	No constraint items found
 SPRM-2238 -	<ul style="list-style-type: none"> SPRM-297 - [B.3.1.3] Wrong side signalling (infrastructure) failure	<div><div>{c} SPRM-1757 - Usage restriction is planned</div><div>{c} SPRM-2015 - Usage restriction is active at planned time</div></div>

<div>5F</div> SPMS-5724 - Authorise usage restriction areas	<div>5F</div> SPMS-6346 - Authorised usage restriction	<div>⚠</div> SPRM-2270 -	<div>⚡</div> SPRM-516 - No safety hazard	No constraint items found
		<div>⚠</div> SPRM-2271 -	<div>⚡</div> SPRM-516 - No safety hazard	No constraint items found
		<div>⚠</div> SPRM-2272 -	<div>⚡</div> SPRM-516 - No safety hazard	No constraint items found
	<div>5F</div> SPMS-6344 - Authorised usage restriction	<div>⚠</div> SPRM-2262 -	<div>⚡</div> SPRM-516 - No safety hazard	No constraint items found
		<div>⚠</div> SPRM-2263 -	<div>⚡</div> SPRM-516 - No safety hazard	No constraint items found
		<div>⚠</div> SPRM-2264 -	<div>⚡</div> SPRM-516 - No safety hazard	No constraint items found
	<div>5F</div> SPMS-6452 - requested usage restriction to signaller	No risk items found		
	<div>5F</div> SPMS-5725 - Register usage restriction request	<div>5F</div> SPMS-6426 - Requested usage restriction	No risk items found	
	<div>5F</div> SPMS-5726 - Indicate usage restriction	<div>5F</div> SPMS-6593 - Indicated usage restriction	No risk items found	
<div>5F</div> SPMS-6100 - Implement specific traction and braking effort	No output exchanges found			
<div>5F</div> SPMS-6150 - Has position in relation to geographical coordinates	No output exchanges found			
<div>5F</div> SPMS-6152 - Has acceleration vector in relation to rolling stock coordinates	No output exchanges found			
<div>5F</div> SPMS-6154 - Has position and direction in relation to track coordinates	No output exchanges found			
<div>5F</div> SPMS-6155 - Has velocity in relation to track coordinates	No output exchanges found			
<div>5F</div> SPMS-6591 - Register usage restriction command	<div>5F</div> SPMS-6426 - Requested usage restriction	No risk items found		
<div>5F</div> SPMS-6665 - Determine 1D train front end position in relation to reference location	No output exchanges found			
<div>5F</div> SPMS-6666 - Measure+Estimate 1D speed of one train front end	No output exchanges found			
	No output exchanges found			

 SPMS-6667 - Measure+Estimate 1D acceleration of one train		
 SPMS-6668 - Measure+Estimate 1D distance since last reset of odometry	No output exchanges found	
 SPMS-6669 - Determine 1D train front end position in relation to reference location	No output exchanges found	
 SPMS-6670 - Measure+Estimate 3D kinematic information and uncertainty of one train	 SPMS-6674 - Estimated 3D kinematic information	No risk items found
	 SPMS-6676 - Estimated 3D kinematic information	No risk items found
	 SPMS-6675 - Estimated 3D kinematic information	No risk items found
	 SPMS-6681 - Estimated 3D kinematic information	No risk items found
 SPMS-6671 - Manage radio communication session with ETPS	 SPMS-6683 - Provided communication session message	No risk items found
	 SPMS-7969 - Provided communication session message	No risk items found
 SPMS-6672 - Manage radio communication session with ETCS-OB	 SPMS-6682 - Provided communication session message	No risk items found
 SPMS-6698 - Collect+Provide diagnostic data	No output exchanges found	
 SPMS-6699 - Display point status locally	No output exchanges found	
 SPMS-6709 - Supervise system behaviour	No output exchanges found	
 SPMS-7001 - Provide current time	No output exchanges found	
 SPMS-7003 - Monitor system asset state information	No output exchanges found	
 SPMS-7004 - Analyse Infrastructure Manager system asset state	No output exchanges found	
 SPMS-7005 - Analyse Railway Undertaking system asset state	No output exchanges found	
 SPMS-7006 - Assess system asset state impact	No output exchanges found	
 SPMS-7007 - Plan maintenance tasks+Manage asset	 SPMS-7017 - Logistic data	No risk items found

 SPMS-7009 - Monitor+Evaluate system asset state	 SPMS-7019 - Evaluated system asset state	No risk items found
	 SPMS-7015 - Evaluated system asset state	No risk items found
	 SPMS-7021 - Evaluated system asset state	No risk items found
	 SPMS-7013 - Evaluated system asset state	No risk items found
	 SPMS-7750 - Evaluated system asset state	No risk items found
 SPMS-7010 - Monitor+Store Point system asset state	 SPMS-7024 - Monitoring and diagnostic data	No risk items found
 SPMS-7011 - Monitor+Store European Trackside Protection System asset state	 SPMS-7023 - Monitoring and diagnostic data	No risk items found
 SPMS-7012 - Monitor+Store ETCS-OB system asset state	No output exchanges found	
 SPMS-7072 - Prepare+Supervise distribution of the configuration data	 SPMS-7674 - Required state of configuration data	No risk items found
 SPMS-7074 - Check+Sign configuration data	 SPMS-7669 - Configuration data	No risk items found
 SPMS-7075 - Provide configuration data	 SPMS-7668 - Configuration data	No risk items found
 SPMS-7076 - Provide planned activation time	No output exchanges found	
 SPMS-7077 - Provide+sign infrastructure data	 SPMS-7670 - Configuration data	No risk items found
 SPMS-7078 - Provide planned activation time for vehicle	 SPMS-7672 - Planned activation time	No risk items found
 SPMS-7141 - Indicate state and position of one train	 SPMS-7146 - Indicated train state	No risk items found
 SPMS-7217 - Manage communication with one ATO-TS	 SPMS-7220 - Provided ATO communication session message	No risk items found
 SPMS-7218 - Manage communication with one ATO-OB	 SPMS-7947 - Provided ATO communication session message	No risk items found
 SPMS-7325 - Carry out maintenance tasks	No output exchanges found	
 SPMS-7663 - Maintain configuration data	 SPMS-7665 - Actual state of configuration data	No risk items found
		No risk items found

	 SPMS-7731 - Actual state of configuration data	
 SPMS-7691 - Store configuration data	No output exchanges found	
 SPMS-7767 - Authorise automatic driving state	 SPMS-7772 - Authorised automatic driving state	No risk items found
 SPMS-7768 - Use system voice communication	No output exchanges found	
 SPMS-7769 - Control voice communication for one train	No output exchanges found	
 SPMS-7770 - Use system voice communication	No output exchanges found	
 SPMS-7838 - Calculate information to support driving	No output exchanges found	
 SPMS-7839 - Control cab mode of one train	No output exchanges found	
 SPMS-7840 - Control power of one train	No output exchanges found	
 SPMS-7841 - Control registration of functional number	No output exchanges found	
 SPMS-7842 - Control start of mission activitites	 SPMS-7875 - Provided driver information	No risk items found
 SPMS-7843 - Control state of train doors	No output exchanges found	
 SPMS-7844 - Determine proximity of station platform	No output exchanges found	
 SPMS-7845 - Implement specific doors state	No output exchanges found	
 SPMS-7846 - Indicate automatic driving state	 SPMS-7771 - Indicated automatic driving state	No risk items found
 SPMS-7847 - Register automatic driving input from driver	No output exchanges found	
 SPMS-7848 - Register start of mission input from driver	No output exchanges found	
 SPMS-7849 - Supervise compliance of speed profiles of one train	No output exchanges found	
 SPMS-7850 - Supervise guideway of one train	No output exchanges found	
 SPMS-7851 - Supervise passenger exchange	No output exchanges found	
 SPMS-7852 - Supervise standstill of one train	No output exchanges found	

 SPMS-7853 - Switch train power	No output exchanges found
 SPMS-7854 - Toggle train cab	No output exchanges found
 SPMS-7936 - Has position on the track	No output exchanges found
 SPMS-7937 - Paused Manage PDI session with primary communication partner S_SCI_EfeS_Prim	No output exchanges found
 SPMS-7938 - Paused Manage PDI session with secondary communication partner F_SCI_EfeS_Sec	No output exchanges found
 SPMS-7939 - Paused Manage PDI session with secondary communication partner F_SCI_EfeS_Sec	No output exchanges found

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